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ENERGY TRANSITION: IEA warns that metals price volatility may slow net-zero progress or add to costs

By Andrea Hotter - Wednesday 13 October

Higher or more volatile prices for critical minerals such as lithium, cobalt, nickel, copper and rare earth elements could slow global progress toward a clean-energy future or make it more costly, according to the International Energy Agency (IEA).

In its World Energy Outlook report released on Wednesday October 13, the IEA said that price rallies for key minerals in 2021 could increase the costs of solar modules, wind turbines, batteries for electric vehicles (EV) and power lines by 5-15% this year alone.

If maintained over the period to 2030 - in a scenario targeting a transition to a net-zero carbon emissions economy by 2050 - price increases would add \$700 billion to the investment required for these technologies, the IEA noted.

"The outlook for prices for many energy transition minerals depends on the pace of economic growth and on supply responses to that growth. It also depends to a large extent on how the world's decarbonization pathway evolves," the IEA said.

The net-zero carbon emissions scenario charts a roadmap to the stabilization of rising global temperatures - preferably limiting the rise in the mean global temperature to 1.5°C above pre-industrial levels - and the achievement of other energy-related sustainable development goals, in line with the goals of the 2015 Paris Agreement.

The IEA report follows price rallies in many metals this year, with some reaching multi-year highs. Copper prices **exceeded the \$10,000-per-tonne barrier in May 2021** to hit an all-time high, while nickel prices rose by 50% from pre-pandemic levels to **reach almost \$19,900 per tonne** in July, their highest level since 2012.

Lithium and cobalt prices also have resumed an upward trajectory.

According to the IEA, the recent price rallies were mainly driven by a combination of demand recovering faster than supply, stock-building activities, ultra-loose monetary policies and expectations for strong future demand growth as a result of accelerated energy transitions.

Substitution

The level of future prices will be determined by how well industry and governments ensure adequate investment in new supply before any imbalances emerge, and also by the extent to which consumers respond to rising prices by reducing demand and switching to substitute materials, the report noted.

Periods of high cobalt prices in the late-2010s led many EV manufacturers to look for ways to reduce cobalt use and develop batteries with higher energy density. As a result, EV batteries have shifted away from cobalt-rich chemistries in recent years toward chemistries that use more nickel.

The IEA said it expected this trend will continue, with NCA+ batteries - a nickel-rich and lower-cobalt variant of the nickel-cobalt-aluminium oxide chemistry - and NCM811 - a nickel-cobalt-manganese oxide chemistry with

80% nickel, 10% cobalt and 10% manganese - accounting for 65% of the light-duty EV market in 2050, compared with 35% in 2020.

Constraints on nickel and cobalt supplies in particular could lead to more EV batteries with lower critical mineral needs - such as lithium iron phosphate (LFP) - and manganese-rich chemistries - such as lithium nickel manganese oxide (LNMO) batteries - the IEA noted, even if these might be sub-optimal from a performance perspective.

Following the price rallies of NCM precursors in the first-half of 2021, several companies have already dissented from the consensus view that nickel-rich NCM cathode chemistries will dominate future EV chemistries, the report added.

Demand growth

According to the IEA, the projected level of demand growth for key metals in a net-zero carbon emissions by 2050 scenario is "unprecedented," and is bound to put substantial upward pressure on prices.

Achieving net-zero emissions globally by 2050 means record levels of clean energy deployment and requires up to six times more mineral inputs in 2050 than today, the report said.

The IEA forecast a more than 50-fold increase in mineral demand for EV and battery storage by 2050, while the expansion of electricity networks will lead to a doubling of demand for copper for power lines in the period to 2050.

Lithium is expected to see the fastest growth among the key minerals, with a 100-fold increase over the current demand level in the period to 2050. Copper demand is forecast to register the largest absolute growth, rising by around 14 million tonnes by 2050 and expanding the global market by 60% during that period, the IEA estimated.

"As a result, clean-energy technologies emerge as the fastest-growing segment of demand for most minerals, evolving from a niche consumer to a leading source of demand," the IEA said.

"But the prospect of a rapid increase in demand for critical minerals - well above anything seen previously in most cases - raises questions about the availability and reliability of supply," the IEA added.

US reinforcing bar market flat for two months

By Abby Verret - Wednesday 13 October

Domestic and imported steel reinforcing bar prices in the United States were sideways on Wednesday October 13, and market participants expect it to stay that way for a few more weeks at least.

Fastmarkets' assessment for **steel reinforcing bar (rebar), fob mill US** was \$49.25 per hundredweight (\$985 per short ton) on Wednesday October 13, unchanged since August 11 but up by 65.55% from \$29.75 per cwt at the same time last year.

US market

Several market participants noted that lead times seem to be improving with peak rebar season winding down, but the general sentiment is that demand is still strong enough to prevent the price from decreasing.



"No changes for pricing that we've seen," a midwest fabricator source said. "I'm guessing they won't move much either in the near future."

Lead times for rollings have recently shortened to two months from more than three on average, according to the fabricator source. "Thus, mills seem to be catching up on orders and lead times are improving a bit," he added.

A trader agreed that rebar availability has been steadily improving, but does not expect prices to drop any time soon, since demand remains strong.

"Domestic mills have a less full backlog but prices remain firm," the trader said.

One thing that may finally send rebar prices downward is the decreased activity traditionally associated with winter, according to a southern distributor.

"I don't think we will see more price increases, but I don't think it will soften yet – maybe mid-November," the distributor said.

"Historically November and December I've seen our rebar usage drop," he added. "This has not been a historical year, but if Mother Nature brings on winter as usual, I expect this one thing might follow normal trends."

Imports

Fastmarkets' assessment for [steel rebar, import, loaded truck Port of Houston for immediate delivery](#) was at \$940-960 per short ton (\$47-48 per hundredweight) on October 13, unchanged since September 8 but up by 63.79% at the midpoint from \$570-590 per ton one year prior.

Import prices are steady for now, but what they may look like throughout the rest of 2021 is uncertain due to freight costs, the trader said.

"Futures looked slightly cheaper than spot, but ocean freight has become a real issue for new offers," he said. "Rates are extremely high for less-than-complete ship loads."

A second trader noted the delay for overseas cargo responsible for increased orders for Mexican imports in the past week.

Brazilian tube suppliers Vallourec, Grupo Açotubo create joint venture

By Felipe Peroni - Wednesday 13 October

Pipe producer Vallourec and Brazilian tube, bar and stainless steel distributor Grupo Açotubo announced a joint venture to supply steel tubes and pipes to industrial clients.

The new company, called Vallourec Tubos para Indústria (VTI) will comprise Vallourec's Brazilian unit of cold-drawn and shaped tubes and Açotubo's division of cold-drawn tubes and parts, and it will focus in supplying the automotive, energy and capital goods sectors.

The company will be 75% owned by Vallourec and 25% by Açotubo. Vallourec will be fully in charge of the joint venture, which will have capacity to drawn 60,000-70,000 tonnes per year of welded and seamless tubes, and provide services for tubular products.

"Vallourec will strengthen its positioning with consumers by enhancing its portfolio, while Açotubo will increase its market share with industrial clients," VTI chief executive officer Rodrigo Rennó said.

VTI will be headquartered in Brazil's southeastern Minas Gerais state, with two industrial units in São Paulo state. It will prioritize supplying the Brazilian domestic market, but it also expects to destine part of its production to the export market.

"In Açotubo's case, our steel tubes division will maintain its focus in

distribution, and we will continue to purchase from different providers. Our division of drawn tubes and parts will belong to VTI, which can also supply Açotubo," CEO Bruno Bassi said.

Brazilian prices for flat steel - which are used in the production of welded tubes - have been decreasing partly due to the weak performance of the automotive sector.

Fastmarkets' monthly price assessment for steel hot-rolled coil, domestic, monthly, exw Brazil declined to 6,865-7,505 Reais (\$1,241-1,356) per tonne on Friday October 8 from 7,500-7,800 Reais per tonne the previous month.

Evraz Pueblo to run largely on on-site solar

By Abby Verret - Wednesday 13 October

Evraz Rocky Mountain Steel in Pueblo, Colorado, will host and be powered by the Bighorn Solar project, a joint venture with Lightsource bp and Xcel energy due to come online in November, Lightsource bp announced in a release on Wednesday October 13.

Evraz Pueblo will be the first steel mill to largely run on solar power, according to the release, enabling it to produce some of the greenest steel and steel products in the world.

The project, located primarily on 1,800 acres of Evraz Rocky Mountain Steel property, is the largest on-site, single-customer solar facility in the United States, it said. Its more than 750,000 solar panels will provide the majority of the plant's annual electricity demand.

"Evraz is committed to reducing emissions and operating more sustainably," according to Skip Herald, chief executive officer of Evraz North America. "As each new acre of solar panels is installed, we find ourselves closer to our goal of making Evraz in Pueblo one of the greenest steel facilities in the world."

The project, which is already generating electricity into the grid, will abate more than 433,000 metric tons of carbon dioxide emissions per year and support more than 1,000 jobs at the mill, the companies said.

"This project proves that even hard-to-abate sectors like steel can be decarbonized when companies come together with innovative solutions," Lightsource bp CEO Kevin Smith said. "It's a great example of partners tackling complex issues that US industry is facing today, while at the same time preserving jobs in the manufacturing sector."

Lightsource bp, a "global solar leader" and 50:50 joint venture with bp, financed, owns and operates Bighorn Solar and sells its generated electricity to Xcel Energy under a 20-year power purchase agreement, the release said. "As part of that arrangement, EVRAZ will receive clean, renewable power and price certainty from Xcel Energy through 2041."

"Through this collaboration we're bringing jobs to the community, harnessing our natural resources and increasing renewable energy in the state," president and CEO of Xcel Energy Bob Frenzel said.

The fixed-rate power agreement provides Evraz with low, foreseeable electricity costs, enabling it to remain and invest in the Pueblo community long-term, the release said.

Decarbonization complicates an already complex marketplace. Our latest analysis, "The true price of green steel," dives into the ripple effects that overhauling the markets will have on the steelmaking process and supply base

US non-ferrous scrap exports rise in August

By Sean Barry - Wednesday 13 October

Non-ferrous scrap exports from the United States increased 9.33% in August to 303,865 tonnes from 277,925 tonnes in July, according to latest US Department of Commerce data.

Total non-ferrous scrap exports for the January-August period also increased 15.93% to 2.18 million tonnes from 1.88 million tonnes in the same period last year.

Aluminium

Aluminium scrap exports – excluding used beverage cans (UBCs) – jumped 11.48% to 176,027 tonnes in August compared with 157,903 tonnes the month prior, while exports over the January-August period were 6.92% higher at 1.26 million tonnes from 1.18 million tonnes in the same period last year.

Malaysia, which is set to [halt imports of non-ferrous scrap at the end of this month](#), was once again the leading destination for US aluminium scrap exports at 55,720 tonnes, up 24.22% on 44,855 tonnes in July and up 18.32% from June's total of 47,091 tonnes.

India was the next leading destination at 37,742 tonnes, up 30.56% on 28,908 tonnes imported in July, while shipments to South Korea were 26.79% higher at 24,961 tonnes from 19,686 tonnes the month prior.

Exports of UBCs rose 8.48% to 30,234 tonnes from 27,871 tonnes the month before, while for the January-August period exports of UBCs more than doubled to 194,447 tonnes from 77,626 tonnes in the same period in 2020.

Copper

US copper scrap exports edged up 3.84% in August to 87,950 tonnes from 84,694 tonnes in July. For the January-August period, total copper scrap exports were 18.81% higher at 661,958 tonnes compared with 557,161 tonnes in the same period last year.

Shipments to China, the biggest buyer of US copper scrap, were 18.70% higher at 25,109 tonnes compared with 21,153 tonnes in July. Malaysia was the second leading destination for copper scrap at 11,564 tonnes, down 19.51% on the 14,367 tonnes shipped in July.

Prices

The price of [aluminum scrap used beverage cans, domestic aluminum producer buying price, fob shipping point US](#) rose in July, when exporters booked their tonnages for August, from 70-71 cents per lb at the beginning of the month to 74-76 cents per lb by the end of the month.

The Fastmarkets [copper scrap No1 bare bright, discount, buying price, delivered to brass ingot makers](#) also edged higher through July, starting the month at a 11-15 cents per lb before ending the month at 12-14 cents per lb.

Fastmarkets assessed the [lead scrap whole batteries buying price, delivered smelters US](#) at 30-33 cents per hundredweight at the start of the July before it rose to 32-35 cent per cwt.

	2021	2020	2019	2018	2017	% change
India	37,742	28,908	24,991	211,965	159,624	▲32.79
Japan	2,621	2,217	1,167	14,875	8,547	▲74.03
Malaysia	55,720	44,855	47,091	340,647	263,938	▲29.06
Mexico	13,726	13,179	10,617	103,368	67,309	▲53.57
Pakistan	921	1,146	707	10,229	8,651	▲18.24
South Korea	24,961	19,686	14,685	159,901	204,343	▼21.75
Taiwan	2,236	2,386	1,727	18,823	29,324	▼35.81
Thailand	4,839	3,797	4,208	43,625	48,846	▼10.69
Vietnam	621	701	655	7,424	10,445	▼28.93
Others	17,484	16,158	13,722	116,050	132,501	▼12.42
Totals	176,027	157,903	145,256	1,260,320	1,178,729	▲6.92

Source: Compiled by Fastmarkets from data released by the U.S. Commerce Department.
Note: The data reflects the latest updates by Commerce and may not match what was previously published.

US EXPORTS OF COPPER SCRAP

(in short tons)

				Year to date		% change
	August	July	June	2021	2020	
Belgium	1,736	3,034	2,024	19,038	22,640	▼15.91
Canada	11,530	11,975	10,641	83,475	58,822	▲41.91
China	25,109	21,153	21,344	161,626	84,763	▲90.68
Germany	2,802	3,712	2,984	25,481	30,144	▼15.47
Hong Kong	2,627	2,669	3,127	21,801	15,423	▲41.36
India	5,708	4,037	4,217	33,373	31,132	▲7.20
Japan	3,761	2,403	2,235	19,480	20,722	▼5.99
Malaysia	11,564	14,367	17,732	124,896	118,991	▲4.96
Mexico	1,999	803	374	6,193	3,821	▲62.05
Netherlands	121	213	306	2,309	4,329	▼46.67
Pakistan	3,369	2,383	1,609	14,767	10,442	▲41.42
Slovakia	385	254	293	2,782	1,606	▲73.22
South Korea	5,933	6,811	5,145	49,550	47,804	▲3.65
Spain	1,225	1,055	996	7,337	8,699	▼15.66
Taiwan	1,854	1,788	1,749	15,121	29,855	▼49.35
Others	8,225	8,035	10,486	74,729	67,967	▲9.95
Totals	87,950	84,694	85,263	661,958	557,161	▲18.81

Source: Compiled by Fastmarkets from data released by the U.S. Commerce Department.
Note: The data reflects the latest updates by Commerce and may not match what was previously published.

US EXPORTS OF NON-FERROUS SCRAP

(in short tons)

				Year to date		% change
	August	July	June	2021	2020	
Aluminium	176,027	157,903	145,256	1,260,320	1,178,729	▲6.92
UBCs	30,234	27,871	24,259	194,447	77,626	▲150.49
Copper	87,950	84,694	85,263	661,958	557,161	▲18.81
Lead	3,527	2,323	3,236	27,781	36,960	▼24.83
Nickel	1,254	870	907	9,510	16,555	▼42.56
Zinc	4,873	4,264	3,527	29,665	16,654	▲78.13
Total	303,865	277,925	262,447	2,183,681	1,883,684	▲15.93

Source: Compiled by Fastmarkets from data released by the US Commerce Department.
Note: The data reflects the latest updates by Commerce and may not match what was previously published by Fastmarkets.

US EXPORTS OF ALUMINIUM SCRAP

(in short tons)

				Year to date		% change
	August	July	June	2021	2020	
Canada	7,582	7,349	7,917	60,895	47,612	▲27.90
China	255	129	700	8,914	140,322	▼93.65
Germany	627	508	400	3,054	6,956	▼56.09
Hong Kong	6,693	16,886	16,669	160,550	50,310	▲219.12

US scrap export market said poised to rise

By Amy Hinton - Wednesday 13 October

Accelerating import demand for ferrous scrap among Turkish steelmakers and surging European export prices to the region are buoying sellers' hopes in the United States that the nation's export market has room to rise.

Bullish sentiment on US ferrous scrap exports has been stoked by a **price increase of \$11.50-17 per tonne in a sale to Turkey** during the week ended Friday October 8, although no further deals have been heard since then.

European and Baltic cargo sales to Turkish mills, however, began to accumulate rapidly at higher levels at the onset of this week, with four such cargo sales heard thus far. Prices for heavy melting scrap in these cargoes were heard in a range of \$463-480 per tonne cfr and those for shredded scrap at \$478-490 per tonne.

This is equivalent to \$468-485 per tonne cfr for US-origin material on an HMS 1&2 (80:20) basis and \$483-495 per tonne cfr for US shredded scrap, given the \$5-per-tonne premium that US scrap commands over its European counterpart.

A US sale concluded on the aforementioned basis constitutes an increase of \$8.50-25.50 per tonne for HMS and \$3-15 per tonne for shredded scrap compared with the last-reported US sale to Turkey on October 8, when a US exporter sold the former grade for \$459.50 per tonne cfr and the latter for \$480 per tonne cfr.

Fastmarkets assessed the price of **steel reinforcing bar (rebar) export, fob main port Turkey**, at \$675-690 per tonne on October 7, up by 4.20% from \$650-660 per tonne on September 30.

With Turkish rebar trading at current levels, regional mills could pay \$30.50-45.50 per tonne more for US HMS on the basis of the last US sale to the region while still turning a profit after the typical \$170-per-tonne conversion cost.

Fastmarkets' **steel scrap HMS 1&2 (80:20) export index, New York** was calculated at \$412 per tonne on October 13, up by 2.26% from \$402.90 per tonne a week earlier, on the basis of the October 8 sale to Turkey.

Likewise, the **steel scrap shredded, export index, fob New York** was calculated at \$432.50 per tonne, up by 3.22% from \$419 per tonne in the same comparison.

East Coast recyclers have now begun to cite potential for a \$10-per-gross-ton upswing in scrap export yard buying prices in the wake of rising deep-sea ferrous scrap export prices, although prices were stable in the week to October 11.

Fastmarkets assessed the **steel scrap No1 heavy melt, export yard buying price, delivered to yard Philadelphia and delivered to yard New York** at \$335 per ton on October 11, unchanged for a fourth consecutive week.

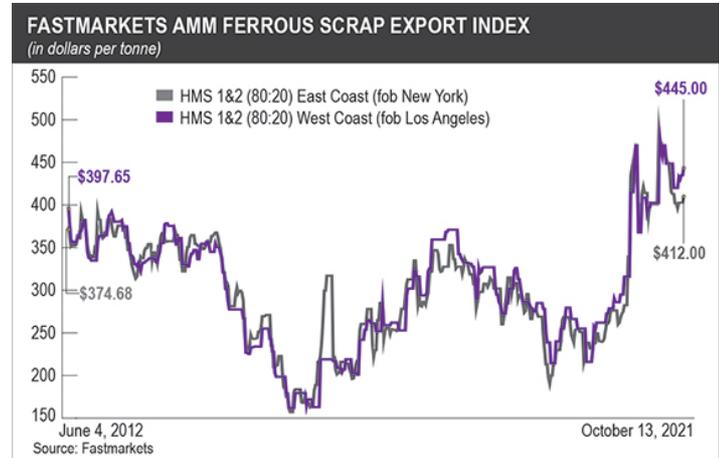
Similarly, Fastmarkets' assessment of the **export yard buying price for No1 HMS, delivered to yard Boston**, held for a fourth week in a row at \$330 per ton on the same date.

No cargoes were confirmed sold from the US West Coast following a **sale of HMS 1&2 (80:20) to Vietnam at \$525 per tonne cfr on October 6**.

But West Coast export offers to mills in Bangladesh and South Korea continue to move higher, heard at \$540 per tonne cfr and \$520-525 per tonne cfr respectively over the past week.

Fastmarkets' **steel scrap HMS 1&2 (80:20), export index, fob Los Angeles** was calculated at \$445 per tonne on Wednesday, up by 2.30% from \$435 per tonne one week earlier, on the basis of the October 6 sale to Vietnam. Some West Coast recyclers echoed the sentiment of those on the East Coast by suggesting that prices there had scope to rise by \$10 per gross ton.

But Fastmarkets' assessment of the export yard buying price for **No1 HMS, delivered to yard Los Angeles** was steady at \$255 per gross ton on October 11, after falling to the current level on October 4 from \$265 per ton on September 27 - a level it had maintained since August 30.



Silicon see-saws to record highs in Europe, US

By Orla O'Sullivan - Wednesday 13 October

Europe now has the world's most expensive silicon, with prices there and in the United States reaching new all-time highs just as prices have begun to trend down in China - where a silicon shortage started the global uptrend.

The West and China moved in opposite directions in Fastmarkets assessments for the week to Friday October 8, with Europe's price for standard silicon at its highest level since Fastmarkets started assessing it in 2017. The US price is now at its highest level and China's at its second highest level since those assessments were introduced in 1997.

China's 5.6% weekly decline in the latest silicon price assessment does not necessarily signal that prices will retreat from global peaks - even several weeks from now, since other regions are lagging price developments in China, sources said.

"It's difficult to say," one large, Western supplier said. "Supply is still short and I'm not seeing [China's] factories come back online."

The US price still seems to be climbing on global supply dislocations, according to early indications ahead of the next assessment on October 14. The weekly US price is assessed on Thursdays, while the other regions take place on Friday.

Global silicon prices hit record levels in all regions in the week to September 24 after China - the world's biggest silicon supplier - largely stopped producing silicon during the national power shortages. China accounted for about 68% of the world's silicon production in 2020, according to the latest US Geological Survey report published in January 2021.

Price correction, reassessment in China

But the price in China retreated on October 8 in a correction after the Golden Week holiday, market participants said. And there was a break in Fastmarkets' weekly assessment due to that national holiday, which took place on October 1-7.

Fastmarkets' price assessment for silicon export 98.5% Si min, fob China was \$8,500-9,500 per tonne on October 8, down from \$9,000-10,000 per tonne on September 24.

The same day, Europe supplanted China as the region with the world's highest silicon prices.

Fastmarkets' price assessment for silicon grade 5-5-3 98.5% Si min, in-whs Rotterdam was €8,500-8,650 (\$9,842.15-10,015.84) per tonne on October 8, up 31.9% from €6,000-7,000 per tonne on October 1.

The standard-grade 5-5-3 silicon Fastmarkets assesses in all regions now averages the equivalent of \$4.47 per lb in-warehouse in Europe. That's higher than the US price (including duty and delivery) of \$3.20 per lb and surpasses the price of \$4.08 per lb to buy silicon from a factory in China. Handling fees, transport, duties, etc, would be extra.

"Silicon prices are going down in China," a global buyer based in Asia said on October 13. "The question is, with a deficit in the US, will the price in the US catch up to the increased price in Europe? [If not,] Brazil and other silicon-producing countries may choose to ship materials to Europe [to get] high margins"

Europe and US feel influence of China's absence - but for different reasons

Europe's silicon inventories are depleted, and silicon consumers were concerned, sources said on Wednesday October 13.

This was because Europe relies on Chinese silicon imports, whereas Chinese silicon rarely enters the US because of prohibitive import duties - although some US market participants said prices in the US will come to match those in China because of the knock-on effect of global increases.

Buyers in Canada and Mexico, deprived of Chinese silicon, are now competing with US buyers for supplies that were short even before the latest production problems in China, sources said.

Fastmarkets' price assessment for silicon, ddp US was \$2.90-3.50 per lb on Thursday October 7, up from \$2.25-2.50 per lb on September 30. The latest US price equates to \$6,393-7,716 per tonne.

"Silicon will soon be \$4 [per lb] in the US, too," a second trader based in the US said, referring to the equivalent Chinese price assessment, which was \$4.08 per lb on October 8, down from \$4.30 per lb on September 24.

The standard-grade 5-5-3 silicon Fastmarkets assesses in all regions is mostly used by aluminium alloy producers, whose end products go into cars (although in Europe Fastmarkets also assesses a purer-grade, 4-4-1 silicon).

Alloy makers raised concerns about surging silicon costs at the ongoing annual gathering of the London Metal Exchange on October 11-15. And some attendees at LME Week told Fastmarkets they **may restructure their contracts to protect themselves** against rising raw materials prices, such as silicon.

But even with the price in China slightly cooling, it is still up by 150% compared with the start of September.

European long steel producers cut output to manage skyrocketing energy costs

By Julia Bolotova, Carrie Bone - Wednesday 13 October

The spikes in electricity and natural gas prices have forced some European long steel producers to make output adjustments to be able to manage surging costs, sources told Fastmarkets.

Spot prices for electricity and natural gas across Europe have increased sharply in October and are **expected to remain volatile** until the end of the year at least.

Notably, steelmakers claim that electricity prices in Europe jumped to about €150-230 (\$173-266) per MWh in October, while in November it could be €250-300 per MWh. This is sharply higher than last year's electricity price of €50-60 per MWh.

European mills that use electric-arc furnaces (EAF) are more exposed to the surging energy prices, Fastmarkets understands. Consequently, to manage the rising costs of production, EAF-based steelmakers in the European Union have started to implement selective output cuts, sources told Fastmarkets.

ArcelorMittal is implementing production cuts across all its EAF-based sites in the EU, several sources told Fastmarkets. The steelmaker previously announced it was **introducing an energy surcharge** because of the rise in costs.

A European mill source said the issue was hitting the whole industry and shutdowns were happening quicker than predicted.

"Electricity costs have gone up, with spot prices at €170-300 per MWh, which means an additional cost of €150-200 per tonne in terms of production. The cuts are short and selective when the rates shoot up. During the day the rate is so high it's making a loss to produce. From the future rates available, high energy prices will continue until the end of the year," the mill source said.

"An EAF can switch off, unlike blast furnaces. But even stop and start, heating up the furnace and cooling is causing extra costs," he added.

Feralpi is also reducing output at Germany-based Riesa plant, three market sources told Fastmarkets. Meanwhile, EAF-based steel producers in Italy and Spain are implementing similar measures, sources told Fastmarkets.

Beltrame will reportedly slow production at its sites in Vicenza, Italy, and in France, while Spanish stainless long steelmaker Sidenor announced plans to **suspend production at its Basauri site** for 20 days.

"We stop working in peak hours [and] reduce the shift times," one mill source in Spain said.

"We implement selective production cuts, like reducing working hours per day to maintain the balance," an Italian mill source said.

In Italy, rebar producers have already **started to increase prices** to offset energy costs, Fastmarkets reported last week.

LME WEEK 2021: Risk aversion prevails in silicon, magnesium, manganese flake amid shortages and talk of reneges in China

By Cristina Belda - Wednesday 13 October

Market participants are gathering in London this week while some minor metals with energy-intensive manufacturing processes and a reliance on China for supply have surged to multi-year highs.

The sharp price increases in the Chinese market are rapidly filtering across Europe, resulting in the depletion of silicon and magnesium inventories in Rotterdam.

"This LME Week is different, totally different, especially for certain products in which there is a big question mark such as silicon, magnesium or manganese flake," a European trader told Fastmarkets.

"The situation is very desperate," the trader said. "Prompt material is very difficult to find and there is panic everywhere; the more energy-intensive the market is, the more panic."

Power supply problems in many of China's key industrial and manufacturing hubs have worsened since September while the nation tries to meet strict carbon reduction regulations. Energy prices have set repeated multi-year highs.

Fastmarkets assessed the price of silicon grade 4-4-1 99% Si min, in-whs Rotterdam at €8,500-8,650 (\$9,825-9,894) per tonne on Friday October 8, up by 31.9% from €6,000-7,000 per tonne week on week.

Similarly, Fastmarkets assessed the price for silicon grade 5-5-3 98.5% Si mi, in-whs Rotterdam at €8,500-8,650 per tonne on October 8, in parity with the 4-4-1 grade and also up by 31.9% from €6,000-7,000 per tonne in the previous week.

The rising costs of upstream raw materials used to produce silicon comes at a time when production in Europe is also declining. FerroGlobe, a Spanish ferro-alloys producer, in September idled one of its silicon metals furnaces at its Sabon plant in Galicia due to high electricity prices.

Magnesium has increased in price alongside silicon. China controls the supply of the metal, which is used primarily for die casting alloys in the automotive sector - the country accounts for roughly 90% of global smelter output, according to US Geological Survey data.

Magnesium has also been hit hard by rising coal prices - producing a single kilogram of magnesium requires around 10 kg of coal. Because the metal has a low resistance to oxidation, inventories in Rotterdam are thin; most transactions are done on a back-to-back basis. The scarcity of stocks has been exacerbated by high freight rates and container shortages that are limiting the number of units arriving in Europe.

Fastmarkets assessed magnesium 99.9%, in-whs Rotterdam at \$16,000-16,500 per tonne on October 1, up by 550% in the year to date and at a record high.

Prices could correct lower because some plants have resumed production this month although they are operating at a rate of at no more than 40% due to limited power supply.

Manganese flake prices have also soared since September, although not to the same extent, with consumers actively seeking available units and fearful of a material shortage in China, exacerbated by power outages and environmental checks in the "manganese triangle" of Chongqing, Guangxi and Guizhou.

With China accounting for more than 95% of global manganese flake production, stainless steel mills around the world rely heavily on Chinese supply of the metal.

Fastmarkets' price assessment for manganese 99.7% electrolytic manganese flake, in-whs Rotterdam, rose to \$7,000-7,300 per tonne on Friday October 8 from \$6,800-7,000 per tonne a week earlier. In just one month, the price has risen by nearly 34%.

'Reneges and cancellations'

These sharp price increases over such a short period have created a high degree of market uncertainty. Concerns about the condition of previously contracted shipments are growing.

More than a half a dozen sources alleged to Fastmarkets that some sellers backed out of sales contracts that had already been signed in some cases more than three months ago.

"Some suppliers are seeing price rises as an opportunity to make more money," a second trader alleged. "When the price rises, they think that by satisfying a deal they had they are losing money, but they are not losing money, they are just not getting as much money as they would have got," he added.

If sellers default on contracts when material is already on water, buyers are forced to find material on the spot market at current multi-years high prices, Fastmarkets understands. In some instances, they have renegotiated with end-consumers.

According to market sources, the line between a legitimate contract cancellation and poor practice is blurred. While many factories in Lengshuijiang, Hunan, are trying to minimize the impact on customers from being forced to close by the government, not every producer or trader has delivered a force majeure certificate to justify the reneges, Fastmarkets understands.

In some cases, affected customers are now understood to be seeking to fight the cancellations through legal means.

Caution in contracts - negotiations with a big 'if'

The uncertainty is affecting negotiations in Europe during this LME Week, triggering some reluctance to commit on long-term contracts. Most material is set to be sold on spot this quarter, with contract discussions remaining highly flexible.

"People are not committing to a lot at the moment," a silicon and magnesium consumer said. "We are doing everything on spot - we bought something for December at the latest but we could not find anything further out than that."

A fourth trader that deals with manganese flake claims to be offering "just one truck at a time."

"We are going to be very careful in what we sell," he said. "Negotiations are not like they used to be - that you had an offer in China and you could sign a contract in Europe... now you have to be sure that you have the material on the water, you have to be careful about what you promise [to your customers]."

When asked about the best way to sign contracts in this context, the trader added, "Fixed prices are impossible in this market and selling on formula is a gamble."

A second manganese flake and magnesium trader concurred: "We are not signing contracts in these materials; if we do, they are going to be very loose. If things improve and we can sell the material, we will do - but this year there is a big 'if'."

"Everything is delayed, everything is so volatile in China... even committing to sell material that will be shipped in October is a huge risk, and I am not going



to take it," a third trader said.

Fola Malomo, in London, contributed to this report.

NEWSBREAK: Nyrstar will cut production by up to 50% on surging energy prices

By Yiwen Ju - Wednesday 13 October

Major zinc producer Nyrstar will cut production by up to 50% from Wednesday October 13 at its three European smelters in response to the surge in energy prices, it said.

Significant increases in the cost of electricity in recent weeks, and the cost burden of carbon emitted by the electricity sector, have been passed on to industrial and domestic customers, making it no longer economically feasible for the company to operate its Budel, Balen and Auby plants at full capacity, Nyrstar said.

"Because our plants are fully electrified, we have the operational flexibility to do this quickly to respond to high energy prices. While the high energy prices will impact zinc production, our temporary curtailment is not expected to have any impact on jobs at Nyrstar. We will also make the efforts to satisfy our contractual obligations," Nyrstar chief executive officer Daniel Vanin said in a statement.

The move comes at a time when premiums in the region are at six-year highs. Fastmarkets assessed both zinc special high grade (SHG) min 99.995% ingot premium, dp fca Antwerp and the zinc SHG min 99.995% ingot premium, dp fca Rotterdam at \$160-180 per tonne on Tuesday October 12, unchanged on a weekly basis.

On September 24, Nyrstar said it was cutting production at its zinc smelter in Budel-Dorplein, the Netherlands, during peak times of day when power prices exceed the break-even cost of production.

Nyrstar's operating businesses have been majority owned by Trafigura since 2019. In 2020, Nyrstar, now a subsidiary division of Trafigura, recorded a net loss of \$146 million, according to Trafigura's 2020 financial results report.

Base metals

Stainless scrap prices recovering in US

By James Lawrence - Wednesday 13 October

The 300-series stainless steel scrap prices in the United States rebounded on strengthening nickel prices, with the London Metal Exchange cash contract once again nearing the \$9-per-lb mark.

"The quick recovery of LME nickel combined with robust chrome values and sluggish scrap flow has allowed stainless scrap prices to reverse course upward just when we thought we were in for a lengthy price reduction," one dealer said.

Stainless scrap prices have bounced up and down in recent weeks, with 300-series prices largely affected by nickel and chrome values and 400-series prices affected by ferrous scrap values.

In addition to changes in the intrinsic values for stainless scrap, transportation issues also pose a challenge for the market. Still, the shortage of scrap supply continues to be the major factor for price gains.

"I can't imagine much has changed in the actual supply/demand picture, so I would expect if the LME doesn't do a complete collapse, it is just a matter of time before [processors] have to raise those prices back up," a second dealer said.

Fastmarkets assessed the stainless steel scrap 316 solids, clips, broker buying price, delivered to processor Pittsburgh at \$1.18-1.21 per lb (\$2,643-2,710 per gross ton) on Tuesday October 12, up by 6 cents on the low side and 3 cents on the high side from \$1.12-1.18 per lb (\$2,509-2,643 per ton) the previous week.

The assessment of the broker buying price for 304 solids, clips, delivered to processor Pittsburgh gained 5 cents on the low side and 3 cents on the high side to reach 86-89 cents per lb on Tuesday from 81-86 cents per lb on October 5; and that for 304 turnings, delivered to processor Pittsburgh rose by 6 cents on the low side and 3 cents on the high side to 81-84 cents per lb from 75-81 cents per lb in the same comparison.

The broker buying price for 430 bundles, solids, delivered to processor Pittsburgh rose to 35-36 cents per lb on October 12 from 29-35 cents per lb previously, while that for 430 turnings, delivered to processor Pittsburgh was unchanged at 30-31 cents per lb.

Fastmarkets' assessment for the broker buying price for 409 bundles, solids, delivered to processor Pittsburgh narrowed up by 2 cents to 30-31 cents per lb on October 12 from 28-31 cents per lb the week before; and that for 409 turnings, delivered to processor Pittsburgh gained a penny on the low end to hit 25-26 cents per lb from 24-26 cents per lb previously.

Export prices also have picked up slightly, with the 304 solids price reaching a range of 92.0-94.5 cents per lb. Sources indicated the higher export prices presented an alternative market for domestic suppliers, but noted that high transportation costs and logistical concerns have made export a very difficult and very expensive option.

"Export is an option, but as has been the case for a while now, containers/bookings/truckers/chassis have been an immense challenge," a third dealer said.

"Container shipments today are three to four times more expensive compared to pre-Covid costs," according to one processor.

The LME's cash nickel contract closed the official session at \$19,375 per tonne (\$8.79 per lb) on October 12, up by 8.84% from \$17,800 per tonne (\$8.07 per lb) one week earlier.

LME nickel stocks have continued to drop. They stood at 147,060 tonnes at the start of business on Wednesday October 13, down by 6,120 tonnes from 153,180 tonnes at the close on October 5.

LME WEEK 2021: Supply, infrastructure charging challenges remain for EV growth, ERG CEO says

By Andrea Hotter - Wednesday 13 October

A lack of vehicle-charging infrastructure, along with constraints on the supply of battery raw materials, were the major challenges to growth in the adoption of electric vehicles (EVs), the chief executive officer of diversified mining company Eurasian Resources Group (ERG) has said.

Lithium, cobalt, nickel, manganese and graphite are critical raw materials for the production of battery cathodes and anodes, while copper is central to the EV charging infrastructure required to support the sector.

According to Benedikt Sobotka, if demand for EVs continues to increase as



expected, there will be serious problems concerning the availability of materials, both cathode and anode, and with the parts of the battery and the different chemistries that are being evaluated.

"The world hasn't produced this amount of energy materials before," Sobotka told a webinar on Wednesday October 13 during the annual LME Week event.

"In the past," he said, "the largest battery was the lead-acid battery, which was almost 100% recyclable. The dominance today of the lithium-ion battery is a challenge because the percentage [of the material open to] recycling is very, very small."

Sobotka said that the lack of visibility about which battery technology would ultimately become dominant has created a tremendous amount of uncertainty about which metals would be required, the necessary quantities and the timescale involved.

"The challenge is that you can build a battery giga-factory in record time, but it takes a mining project 10-15 years to reach completion. If you, as a supplier of raw materials, wanted to respond to a supply-demand trend, you're always late, which leads to cyclicity," he told the webinar.

"This in turn leads to price volatility, which is something that is very bad for the midstream [part of the supply chain], the battery segment, because [participants in that sector] tend to offer batteries at a fixed price, and that's a very difficult situation for them," he said.

"A lot of them have historically been losing money because the price volatility in the supply of materials into that supply chain was killing profits," Sobotka added. "This will only balance out once there's more visibility in the forecasting of demand, which I don't see happening... It's very difficult to predict which materials, and in what quantities and qualities, will be required."

Price volatility has been particularly evident in lithium, where prices have risen by 135-265% in 2021, depending on source location and type of lithium salt. Spodumene prices, meanwhile, were up by 470% since the start of the year.

This volatility will have been a wake-up call for many lithium consumers, who were not particularly active when prices last spiked higher in 2017, according to Fastmarkets analyst William Adams. This may well mean that more of them will look at managing their price risk and take an interest in the exchanges offering lithium futures that are cash-settled against Fastmarkets' price assessment.

Fastmarkets assessed the lithium hydroxide monohydrate 56.5% LiOH.H₂O min, battery grade, spot price, cif China, Japan & Korea, at \$21-22 per kg on October 7, up by 138.89% from \$8.50-9.50 per kg at the beginning of 2021.

A report by the Global Battery Alliance, of which Sobotka is co-chair, found that, by 2030, batteries could enable the transport and power sectors to keep their contribution to global temperature increases below the 2°C (3.6°F) Paris Agreement scenario.

The Paris Agreement was adopted in 2015 and designed to keep the rise in the mean global temperature to no more than 2°C (3.6°F) above pre-industrial levels, and preferably to limit the increase to 1.5°C. It included a commitment by governments to reduce greenhouse gas (GHG) emissions to net-zero by 2050.

Charging infrastructure

EV sales have been particularly strong this year and were expected to total around 5.8 million, up from 3.3 million in 2020 and 2.4 million in 2019.

But the use of EVs requires the creation of charging infrastructure, which has been slow to develop.

"Clearly, one of the most prominent and important challenges is the shortage of EV charging infrastructure, which is lagging consumer demand for electrification," Sobotka said.

"It's easy to build a charging station at a gas station on a motorway, but 80 stations in inner cities, where space is constrained, is more difficult," he added.

"Even if you throw funding at the issue, it is incredibly difficult to deploy EV charging infrastructure quickly. The EU recently concluded that it needs to speed up construction of EV charging infrastructure to meet the Green Deal target of 1 million charging points by 2025. That's an incredible number, and that needs to be embedded with the availability of power infrastructure linking with charging stations," he said.

A report by Navigant Research in 2018 estimated that total copper demand from EV charging installations would be 560,000 tonnes through to 2027. The group forecast that annual sales of EV charging equipment would see new demand for copper increase from 16,500 tonnes in 2018 to 102,000 tonnes by 2027.

This forecast came as the supply pipeline for new copper mines remained relatively thin. According to information seen by Fastmarkets, the deficit in the global refined copper market deepened this year, to nearly 900,000 tonnes, following a deficit of 530,000 tonnes in 2020.

LME WEEK 2021: Decarbonization to bring high cost curve for metals

By Justin Yang - Wednesday 13 October

Decarbonization is expected to increase base-metal costs in the coming years, panelists said at the LME Week seminar in London.

Initial investments in new technology and infrastructure to produce more sustainable metals will push production costs higher, said Geordie Wilkes, head of research at Sucden Financial.

"We'll go through a period of high cost which will increase the cost curve," Wilkes said. "It is a massive investment to decarbonize the economy, but it will get to a time where it will be profitable."

In base metals such as aluminium, some market participants are already paying a premium for low-carbon aluminium.

Fastmarkets assessed the aluminium low-carbon differential value-added product (VAP), Europe at \$20-30 per tonne on Friday October 1, up from \$15-25 per tonne on September 3.

The differential for primary aluminium also rose this week. Fastmarkets assessed the aluminium low-carbon differential P1020A, Europe at \$0-7 per tonne on October 1, up from \$0-5 a month earlier.

Over time, Wilkes said, prices for sustainable metal will normalize as production catches up.

"I think the market will consolidate, and it will become the norm," he said.

Panelists said both consumer and investor demand is making sustainability a growing priority.

"In the past the discussion was only about productivity," said Mikko Keto, global mining president at FLSmidth. "Now the discussion starts from sustainability. Sustainability has started to be the number one criterion of capex investments."

On a broader level, growing consumer demand for more sustainably produced products is also a key driver.

"It's coming from across the board, consumers and society as a whole. Mining used to have a not-so-good reputation," Keto said.



LME WEEK 2021: European zinc producers' annual offers to double in 2022

By Ana de Liz, Julian Luk - Wednesday 13 October

Major European zinc producers intend to significantly raise the annual contractual premiums in 2022, citing higher production costs and strong demand, Fastmarkets has learned during LME Week 2021.

Offers were likely to be made close to or higher than \$200 per tonne, nearly double the levels seen in 2021, which [came in a range of \\$95-110 per tonne](#).

The offer levels were also higher than the current spot prices in Northern Europe. Fastmarkets assessed the [zinc SHG, min 99.995% ingot premium, dp fca Rotterdam](#), at \$160-180 per tonne on Tuesday October 12, with supply in the region still insufficient.

"We have an interesting fourth quarter [of the year] ahead of us," one producer source said.

The spot market began to be strained around summer this year, when zinc buyers found themselves short of metal based on their 2021 contracted tonnages. The situation became even more stark after the summer with production at many end-user industries resuming after holiday breaks.

"The recovery this year was beyond everyone's expectations. Together with a picture of low inventories, we don't see any slowdown in spot demand," the producer source added.

Looking ahead to next year, and pointing to the increased input costs that sellers were facing, a second producer said: "It's hard to argue why the contract terms for next year should be lower than the current spot levels."

In Europe, these largely revolved around the cost of electricity. Nyrstar, a major zinc producer controlled by commodity trader Trafigura, said on October 13 that it [could cut production by as much as 50%](#) at three of its smelters in the north of the continent.

This news was followed by a surge in the London Metal Exchange three-month zinc price on Wednesday. The benchmark futures contract rose by as much as 5% day on day to trade at \$3,440 per tonne during the day, the highest since June 2018.

Despite rising zinc prices and potential for a surge in premiums, some consumers of the galvanizing metal had no plans to reduce their procurement volumes.

"In our contract conversations, it's much more important to make sure we'll be able to get the units, as opposed to what the premium will be," one zinc buyer said.

Demand from hot-dipped galvanizers and die-casting industries was expected to remain strong next year. Even though consumption by the automotive industry was still uncertain given the shortage of semiconductor chips, infrastructure projects related to renewable energies were forecast to keep the demand for steel - and subsequently for galvanizing zinc - strong, industry sources said.

In Italy, premiums depend on transporting metal from Northern Europe or the offer levels from multinational Glencore's Portovesme zinc and lead smelter in Italy. So buyers could expect an increase of \$30-40 per tonne from the offer levels heard in Northern Europe.

"Everyone is expecting an increase, so it will be easier to pass this on to customers," the second producer said.

Most spot and contractual business in Italy is done on a delivered duty-paid

basis, with long-term agreements for 2021 having been finalized broadly in the \$170-180 per tonne range.

An increase has been seen since then, in part due to the strained supply in Northern Europe, with Fastmarkets' [zinc SHG min 99.995% ingot premium, ddp Italy](#), assessed at \$200-230 per tonne on October 5, and most market participants expecting this level to remain for the time being.

ALUMINIUM FOUNDRY WRAP: PFA premiums jump on silicon supply panic

By Justin Yang - Wednesday 13 October

A lack of silicon in the market has vaulted aluminium primary foundry alloy (PFA) [ingot to fresh-all time highs across Europe](#).

Fastmarkets assessed the [aluminium primary foundry alloy, silicon 7 ingot premium, ddp Germany](#) at a new record high of \$800-900 per tonne on Friday October 8, up by 45% from \$550-620 per tonne on September 10.

Fastmarkets also assessed the monthly [aluminium primary foundry alloy, silicon 7 ingot premium, ddp Eastern Europe](#) at \$800-900 per tonne on Friday, up by the same margin from the prior assessment.

While market participants heard spot deals concluding around \$700 per tonne earlier in the month-long pricing session, the increase in silicon prices means those deals are no longer reflective of the market.

The price for [silicon export 98.5% Si min, fob China](#) was assessed at \$8,500-9,500 per tonne on Friday, down from \$9,000-10,000 per tonne the week before. Still, the price remains well above \$3,700-3,900 per tonne at the start of September.

For longer-term contracts, [sellers of PFA ingot are now isolating the silicon component from their contracts](#) and tying it to an index in order to hedge against soaring production costs. Offers for next year's supply have been heard well above \$1,000 per tonne in Europe.

Spot offers remain slightly lower, since silicon used in fresh production was bought before the jump in prices.

Market participants also noted that while many offers sit at \$1,000 per tonne and higher, liquidity remains low. The silicon shortage is also affecting semiconductor chip supply, which means automotive assembly shutdowns are likely to continue.

The potential extension of assembly line stoppages means that the premium increase of PFA, which is primarily used to manufacture aluminium wheels, is capped by weaker demand.

"Due to weak automotive, the demand for PFA is not extremely good," a trader said.

The lack of silicon and other alloying materials also means that smelters are reconsidering their product portfolios going into 2022.

"My feeling is its going to be easier to make P1020 [instead of PFA]," one producer said.

While European premiums rose, the US premium was flat. Fastmarkets assessed the monthly [aluminium primary foundry alloy, silicon 7 ingot/T-bar premium, dlvd dup over P1020A Midwest US](#) at 11-13 cents per lb on October 8, unchanged since April 9.

Please click on the thumbnail to view the complete table.

LOCATION	UNIT	PREMIUM (USD/T)	PREVIOUS MONTH (USD/T)	NOTES
Turkey	monthly/quarterly on TCF/CFP	175-180	175-180	Fastmarkets premium steady for the month as uncertainty persists, but domestic demand strong. Higher LME in January also seen to impact local term premiums.
Germany	monthly/quarterly on TCF/CFP	245-250	245-250	Downside of 100000 tonnes in October as a result of weaker demand from China. However, despite the price drop, the average storage level in Germany remains high as production in China remains high. The price of aluminium in Germany is still around \$2000 per tonne.
Eastern Europe	monthly/quarterly on TCF/CFP	245-250	245-250	High demand for aluminium in Europe.
Central China	monthly/quarterly on TCF/CFP	0-10 Credits	0-10 Credits	Market participants expect the premium for aluminium to fall as demand in China remains weak. However, the price of aluminium in China is still around \$2000 per tonne.
Japan	monthly/quarterly on TCF/CFP	100-120	100-120	Annual premium for aluminium in Japan is around \$100-120 per tonne. The price of aluminium in Japan is still around \$2000 per tonne.
Republic of Korea	monthly/quarterly on TCF/CFP	80-100	80-100	Annual premium for aluminium in Korea is around \$80-100 per tonne. The price of aluminium in Korea is still around \$2000 per tonne.

MJP spot premium struggles to find direction after quarterly negotiations

By Liz Ng - Wednesday 13 October

Spot premiums for P1020 aluminium ingot into main Japanese Ports (MJP) have struggled to find clear direction since the settlement of fourth-quarter MJP premiums on Tuesday October 5, despite quarterly negotiations ending on a strong note.

A combination of slow buying, poor LME spreads and a closed arbitrage into China capped the rise in spot premiums since [the settlement](#).

Fastmarkets reported a fourth-quarter producer offer at \$230 per tonne on August 24 and, consequently, spot premiums picked up from the year-to-date low of \$150-180 per tonne with four hikes leading to a year-to-date high of \$190-200 per tonne in the week to 1 October. However, the short-term uptrend has since slowed with the assessment widening in the week to October 8.

Fastmarkets' [quarterly premium for the supply of aluminium to main Japanese ports \(MJP\)](#) was settled at \$215-220 per tonne over the London Metal Exchange cash price for the fourth quarter of 2021 - 21.8% higher than the third-quarter benchmark of \$172-185 per tonne and [almost three times the \\$88-per-tonne premium](#) in the fourth quarter of 2020.

In stark contrast to higher quarterly premiums, however, market participants continued to report weak bidding on domestic spot tenders, with bids heard in a wide range from \$175 to \$210 per tonne over the past two weeks.

A 300-tonne deal heard concluded at \$190-210 per tonne in the week to October 8, according to one trader, while a second pointed to deals done at closer to \$170 per tonne.

A Singapore-based trader, meanwhile, reported hearing bids on a domestic tender at a "\$180-ish levels" on a cif-equivalent basis earlier this week.

The reversion of spot premiums from the elevated year-to-date highs did not come as a surprise to the market, despite the bullish fourth-quarter conclusion.

Early in the negotiations, traders pointed out signs that the market could not accept higher spot premiums, with the [negotiation deadlines being postponed at least three times](#) indicating fundamentally weak buying interest.

"We think quarterly [producer] offers are ahead of themselves," a trader directly involved in the quarterly negotiations told Fastmarkets at the time, explaining that spot buying had not caught up.

Currently, few traders believe that there will be takers at above \$200 per tonne although most sources continue to hold on to expectations that the spot market should trend higher, on the basis of the quarterly premiums being at six-year highs. Traders have mainly secured volumes based on producer-linked quarterly premiums at \$215-220 per tonne and were unwilling to offer volumes below that level.

Meanwhile, poor spreads on the LME exchange continue to weigh on market sentiment.

On Wednesday October 13, the nearby cash/October spread was in a \$3.50-per-tonne contango while the cash/three-month spread was in a contango of \$16.14 per tonne during afternoon trading.

"Based on current spreads, those with a lot of aluminium stocks may now be offering into the market at low prices to offload [aluminium], pressuring current premium levels," a Singapore-based trader said.

For now, traders are hoping that the arbitrage window for aluminium imports into China will re-open again, spurring buying demand in the region.

"Selling into the MJP spot market right now will definitely incur a loss, all we can do now is wait for the arbitrage opportunity [to come around], which will improve things," a second Singapore-based trader, who had also booked quarterly volumes during the negotiations, told Fastmarkets.

The import arbitrage window for aluminium into China opened on August 23 - serendipitously at around the same time that fourth-quarter negotiations kicked off. However, the window proved brief and volatile, weighing down on imports into China and failing to spur buying interest in the MJP market.

According to Fastmarkets' calculations, [China's aluminium import arbitrage](#) reached a year-to-date high on August 31 of \$153.65 per tonne, but imports into China would have incurred losses from September 28. Losses stood at \$62.14-per-tonne on October 12 and a lack of a profitable arbitrage window has also kept aluminium sellers on the sidelines.

Aluminium producers sign long-term annual contracts with consumers to supply a certain tonnage every month, but premiums are re-negotiated every quarter.

Kamoa-Kakula copper concentrator set for ahead-of-schedule Q2 22 start-up, says miner

By Sally Zhang - Wednesday 13 October

The phase-two concentrator plant at the Kamoa-Kakula copper mine in the Democratic Republic of the Congo (DRC) is expected to begin full operations ahead of schedule in the second quarter of 2022, joint-venture partner Ivanhoe Mines said on Tuesday October 12.

"Construction of the phase-two concentrator plant is progressing very well... Based on the pace of the work completed to date, we now expect to deliver first ore to the phase-two ball mills before the end of Q2 2022," said Mark Farren, chief executive of the Kamoa-Kakula joint venture, which is owned by Canada's Ivanhoe Mines and China's Zijin Mining.

The phase-two expansion, which was originally expected to be completed in the summer of 2022, will double production to more than 400,000 tonnes of copper per year, the company said.

Its phase-one concentrator, which [achieved steady production in July](#), has since then consistently achieved a run-rate throughput of 12,600 tonnes of ore per day (a rate of approximately 4.2 million tonnes per annum), according to the company.

This is 10.5% higher than the design throughput of approximately 11,400 tonnes per day, or 3.8 million-tonnes-per-year.

The Kamoa-Kakula mine is the world's fourth-largest copper deposit, and [Citic Metal \(HK\) and Zijin Mining subsidiary Gold Mountains \(HK\) International Mining Co have signed offtake agreements for copper](#) output from the mine.

Fastmarkets' [copper concentrate TC/RC index, cif Asia Pacific](#) was largely flat at \$60.7 per tonne/6.07 cents per lb on October 8, compared with \$60.9 per tonne/6.09 cents per lb a week earlier.

Market participants are looking to start 2022 copper concentrate contractual negotiations during the annual LME Week in London, which started on Monday October 11.

In late June, Chile's [Antofagasta agreed on a treatment charge in the mid-\\$50s to supply four major Chinese smelters with copper concentrates](#) in the first half of 2022.

Global refined zinc, lead markets in surplus in 2021-2022, ILZSG says

By Yiwen Ju - Wednesday 13 October

The supply of zinc and lead will exceed demand in both 2021 and 2022, with the former expected to experience a surplus of up to 217,000 tonnes this year, the International Lead & Zinc Study Group (ILZSG) said on Tuesday October 12.

The 2021 forecast for refined zinc takes into account China's National Food and Strategic Reserves Administration's release of 180,000 tonnes of the metal. The group anticipates a smaller zinc surplus of 44,000 tonnes in 2022.

As for refined lead, the ILZSG expects supply to exceed demand by modest amounts of 27,000 tonnes and 24,000 tonnes respectively for 2021 and 2022.

Lead

The group predicts global demand for refined lead to rise by 5.5% to 12.39 million tonnes this year and by 1.7% to 12.61 million tonnes next year, after falling by 3.9% in 2020. It expects this growth to come from Brazil, India, Japan, South Korea and Mexico this year after last year's contractions.

Despite a challenging global economic environment, lead demand in China grew by 0.6% in 2020 and is expected to rise by a further 2% in 2021 and 0.9% in 2022.

European lead demand is expected to rise by 4.4% in 2021, and a further 3.2% in 2022.

In the United States, apparent demand is anticipated to recover by a robust 9.6% after last year's steep fall, surpassing the volume recorded in 2019. US demand is expected to rise by 2.3% in 2022.

In terms of supply, the ILZSG said that output would fall in Germany due to a [suspension of Ecobat's Stolberg smelter following floods in mid-July](#).

The group also expects output to fall in the US, primarily due to [the closure of Clarios' 100,000-tonnes-per-year secondary lead smelter in North Carolina in March](#).

It expects global production of refined lead to rise by 4.4% to 12.42 million tonnes in 2021 and increase by a further 1.7% to 12.63 million tonnes in 2022.

The ILZSG forecasts global lead mine supply to rise by 4.1% to 4.68 million tonnes in 2021 before increasing by a further 2.8% in 2022 to 4.81 million tonnes. According to its note, production in China is expected to increase by 1.7% in 2021 and by 1% in 2022.

Zinc

Similarly, global demand for refined zinc is forecast to rise by 6.2% to 14.09 million tonnes in 2021 before increasing by another 2.3% in 2022 to 14.41 million tonnes. In comparison, the group forecasts global refined zinc production to increase by 2.5% to 14.13 million tonnes in 2021.

"After rising by 1.5% in 2020, refined zinc usage in China is expected to increase by a further 2.1% in 2021 and 1.5% in 2022. The Chinese galvanizing industry exhibited robust growth in the first half of 2021, however, output data for July and August indicates a recent slowdown in activity," it said.

"Demand in Europe is expected to recover in 2021 with a rise of 8.5%, after a reduction of 8.1% in 2020. In 2022, European zinc usage is expected to grow by a more modest 2.6%," it added.

Global zinc mining output is expected to increase by 4.7% to 12.85 million tonnes in 2021 and by a further 4.2% to 13.39 million tonnes in 2022.

In China, the supply of zinc concentrate is set to rise by 2.3% in 2021 and by 0.7% in 2022, while output in the rest of the world, excluding China, is forecast to increase more rapidly, at 5.9% this year and 5.8% next year, the group said.

The ILZSG will hold its next annual session and meetings of its Committees and Industry Advisory Panel on October 20-21.



CHINA AUTO: Output, sales fall in Sep amid chip shortage, energy controls

By Yingchi Yang, Susan Zou, Carrie Shi, Zihuan Pan, Zihao Li - Wednesday 13 October

China's output and sales of automobiles declined in September on an annual basis amid a shortage of semiconductor chips and the country's "dual control" energy-consumption policy, the China Association of Automobile Manufacturers (CAAM) said in its monthly report published on Tuesday October 12.

Carmakers in China produced 2.08 million units in September, up by 20.4% month on month but down by 17.9% year on year, CAAM data shows. Similarly, sales amounted to 2.07 million units last month, an increase of 14.9% month on month but down by 19.6% from a year earlier.

A lack of semiconductor chips continued to choke car production in September, though the shortage eased somewhat, allowing for output to grow from a month earlier. But a high comparison base in September 2020 resulted in declines on an annual basis, CAAM said.

China's "dual control" energy-consumption policy also constrained car production, the association added.

The country's output and sales of new energy vehicles (NEVs) hit new record highs in September. Production of NEVs in China rose by 14.5% month on month and 148.4% year on year to 353,000 units last month. Sales of such vehicles rose by 11.4% month on month and 148.4% year on year to 357,000 units.

The data from CAAM also shows that China exported 173,000 automobiles in September, a decrease of 7.5% from the prior month but up by 74% year on year.

Fastmarkets reviews how prices for key raw materials for the automotive sector in China developed over the past month.

CRC prices supported by subdued supply

In the upstream markets, Fastmarkets' weekly price assessment for **steel cold-rolled coil, domestic, delivered Eastern China**, was 6,500-6,530 yuan (\$1,007-1,012) per tonne on October 8, up by 30-50 yuan per tonne from 6,450-6,500 yuan per tonne on September 10.

CRC prices remained supported by expectations that supply will remain subdued amid Beijing's decarbonization drive, according to a Shanghai-based industry analyst.

Production curbs are unlikely to be greatly eased while China aims to keep its 2021 production of crude steel from exceeding last year's volume. For the first eight months of 2021, China's output crude steel increased 5.3% from a year earlier, according to data from the country's National Bureau of Statistics.

China's attempt to reduce emissions during the upcoming **heating season** and the **Winter Olympics** in February will also keep production in the north of the country subdued, the analyst added.

Major Chinese steel mill Baoshan Iron & Steel **kept its base prices for CRC bookings in November unchanged month on month**.

High prices, on the other hand, kept downstream users cautious about purchasing CRC.

"CRC prices are expected to gain limited upward momentum from the modest increase in car production," a Tianjin-based trader said.

Lithium, cobalt strengthen, while nickel sulfate softens

With optimism toward an EV boom globally and forecast tight availability of lithium in the near and medium terms, cathode materials producers in China actively restocked lithium compounds in the latter stages of the third quarter, which provided continuous support to lithium prices in the country.

Fastmarkets' assessment of the **lithium carbonate 99.5% Li₂CO₃ min, battery grade, spot price range, ex-works domestic China** was at 175,000-190,000 yuan per tonne on October 7, up from 140,000-150,000 yuan per tonne on September 9.

<https://www.metalbulletin.com/My-price-book.html?price=43608>

Fastmarkets' assessment of the **lithium hydroxide monohydrate, 56.5% LiOH.H₂O min, battery grade, spot price range, exw domestic China** was 170,000-180,000 yuan per tonne on October 7, up from 145,000-155,000 yuan per tonne a month earlier.

The rally in lithium prices has hindered buying appetite among certain consumers, while others were still keen to build up stocks despite the price gains in order to fulfil commitments to their downstream customers.

The range of offers in the spot market was wide, with certain suppliers who had limited stock on hand intending to raise their offers aggressively, market participants told Fastmarkets.

The price of cobalt sulfate in China, another key raw material for batteries, trended upward in September, underpinned by rising production costs despite a slowdown in demand at the end of the month due to energy-consumption controls in several Chinese provinces, which impacted production among some downstream cathode makers.

Fastmarkets' price assessment for **cobalt sulfate, 20.5% Co basis, exw China** was 85,000-87,000 yuan per tonne on October 8, up by 1,000-2,000 yuan per tonne from 84,000-85,000 yuan per tonne October 6. The price stood at 76,000-79,000 yuan per tonne on September 1.

"Feedstock (cobalt hydroxide) prices have been soaring. Prices of other raw materials also increased. Current cobalt sulfate prices can't cover production costs. We have to insist on higher offers even though it's hard for downstream buyers to accept them," a cobalt sulfate producer said.

"Some downstream cathode makers in several provinces reduced production at the end of September due to power cuts policy in China, which caused reducing demand for upstream raw materials in some degree. But supported by high production cost, cobalt sulfate prices have remained firm," a second cobalt sulfate producer said.

Fastmarkets' calculation of **cobalt hydroxide index, 30% Co min, cif China** stood at \$23.02 per lb on October 8, up by \$0.50 per lb from \$22.52 per lb a week earlier. The price stood at \$21.07 per lb on September 3.

But China's nickel sulfate market experienced a downtrend in September amid easing raw material tightness, while the stricter "dual control" energy-consumption policy in China also affected demand from downstream cathode and precursors producers.

Fastmarkets assessed the price of **nickel sulfate min 21%, max 22.5%; cobalt 10ppm max, exw China** at 36,000-36,500 yuan per tonne on October 8, narrowing downward from 36,000-37,000 a week earlier, and also down from 36,500-38,000 yuan per tonne on September 10.

An increase in the supply of mixed hydroxide precipitate (MHP) - the main raw material used to produce nickel sulfate by Chinese battery raw materials producers - **dragged down prices for nickel sulfate in September**.

The increase is mainly caused by the high production capacity of **Chinese MHP producer Lygend's Indonesia project**, along with the other recent ramping up projects in New Caledonia, market sources told Fastmarkets.

Meanwhile, the China's "dual control" energy-consumption policy has caused a **disruption in the battery raw materials supply chain** and also reduced the

demand of nickel sulfate, which put more pressure on the materials' price at the end of September.

CHINA AUTO MARKET CHANGES (September 2021)						
	Output			Sales		
	units (mln)	year-on-year change	month-on-month change	units (mln)	year-on-year change	month-on-month change
Overall auto (Sep)	2.08	▼17.9%	▲20.4%	2.07	▼19.6%	▲14.9%
Overall auto (Jan-Sep)	18.24	▲7.5%	N/A	18.62	▲8.7%	N/A
Passenger vehicle (Sep)	1.77	▼13.9%	▲18.1%	1.75	▼16.5%	▲12.8%
Passenger vehicle (Jan-Sep)	14.66	▲10.7%	N/A	14.86	▲11%	N/A
Commercial vehicle (Sep)	0.31	▼35.2%	▲35.5%	0.32	▼33.6%	▲28.2%
Commercial vehicle (Jan-Sep)	3.59	▼4.0%	N/A	3.76	▲0.5%	N/A
Electric vehicle (Sep)	0.35	▲148.4%	▲14.5%	0.36	▲148.4%	▲11.4%
Electric vehicle (Jan-Sep)	2.17	▲184.5%	N/A	2.16	▲185.3%	N/A

Source: China Association of Automobile Manufacturers

Xinfa suspends alumina production lines following heavy rain in northern China

By Yiwen Ju - Wednesday 13 October

Xinfa Group has suspended two alumina production lines at its refineries in the northern Chinese province of Shanxi following heavy rainfall in the region, a company source told Fastmarkets.

The affected production lines at Xinfa's refineries in Xiaoyi and Jiaokou cities have capacity to produce 1.2 million and 800,000 tonnes per year of alumina respectively, according to the source.

The suspension follows torrential rainfall in Shanxi over October 2-7, which resulted in the closure of local open-pit bauxite mines. This disruption to supply of bauxite – the feedstock for alumina – was the main cause of the production suspension, the company source added.

The source also mentioned flooding at the refineries as another minor reason for the halt, adding it had not yet been confirmed when production would resume.

Some alumina traders downplayed the impact, saying it is just temporary.

"As long as the water is discharged then production will resume soon," an alumina trader said. "And for the bauxite supply issue, it still takes time to be translated into alumina production."

"Moreover, the plants still have inventories," the trader added.

But other industry sources expected the resumption could take more than a month.

"The main issue still lies in bauxite supply, which is hard to be solved in short term, aided by the fact that raw material inventories [at Xinfa's alumina refineries] is not high," a second trader said.

In July, Xinfa's refinery in Xiaoyi city, which has a total capacity of 3.6 million tpy, halted one production line due to a **bauxite shortage**.

"With winter approaching and impact from Shanxi floods looming, the alumina price could become even more elevated in short term," a third trader said. "Although personally I don't think this will stand in the long run."

Fastmarkets' latest weekly assessment for **alumina metallurgical grade, exw China** was 3,800-4,000 yuan (\$589-620) per tonne on October 7, unchanged from a week earlier.

Rail and highway transport has also been affected by the floods in Shanxi, which could dent bauxite supply to the neighboring province of Henan, Fastmarkets heard. But industry sources noted that the bauxite supply from Shanxi to Henan was not large and the transport disruption would not last long.

Minor metals

Silicon see-saws to previously unseen highs in the West while China's price falls

By Orla O'Sullivan - Wednesday 13 October

Europe now has the world's most expensive silicon, with prices there and in the United States reaching new all-time highs just as prices have begun to trend down in China – where a silicon shortage started the global uptrend.

The West and China moved in opposite directions in Fastmarkets assessments for the week to Friday October 8, with Europe's price for standard silicon at its highest level since Fastmarkets started assessing it in 2017. **The US price is now at its highest level** and China's at its second highest level since those assessments were introduced in 1997.

China's 5.6% weekly decline in the latest silicon price assessment does not necessarily signal that prices will retreat from global peaks – even several weeks from now, since other regions are lagging price developments in China, sources said.

"It's difficult to say," one large, Western supplier said. "Supply is still short and I'm not seeing [China's] factories come back online."

The US price still seems to be climbing on global supply dislocations, according to early indications ahead of the next assessment on October 14. The weekly US price is assessed on Thursdays, while the other regions take place on Friday.

Global silicon prices hit record levels in all regions in the week to Friday September 24 after **China - the world's biggest silicon supplier - largely stopped producing silicon during the national power shortages**. China accounted for about 68% of the world's silicon production in 2020, according to the latest US Geological Survey report published in January 2021.

Price correction, reassessment in China

But the price in China retreated on October 8 in a **correction** after the Golden Week holiday, market participants said. And there was a break in Fastmarkets' weekly assessment due to that national holiday, which took place on October 1-7.

Fastmarkets' price assessment for **silicon export 98.5% Si min, fob China** was \$8,500-9,500 per tonne on October 8, down from \$9,000-10,000 per tonne on September 24.

The same day, Europe supplanted China as the region with the world's highest silicon prices.

Fastmarkets' price assessment for **silicon grade 5-5-3 98.5% Si min, in-whs Rotterdam** was €8,500-8,650 (\$9,842.15-10,015.84) per tonne on October 8,



up 31.9% from €6,000-7,000 per tonne on October 1.

The standard-grade 5-5-3 silicon Fastmarkets assesses in all regions now averages the equivalent of \$4.47 per lb in-warehouse in Europe. That's higher than the US price (including duty and delivery) of \$3.20 per lb and surpasses the price of \$4.08 per lb to buy silicon from a factory in China. Handling fees, transport, duties, etc, would be extra.

"Silicon prices are going down in China," a global buyer based in Asia said on October 13. "The question is, with a deficit in the US, will the price in the US catch up to the increased price in Europe? [If not,] Brazil and other silicon-producing countries may choose to ship materials to Europe [to get] high margins"

Europe and US feel influence of China's absence - but for different reasons

Europe's silicon inventories are depleted, and silicon consumers were concerned, sources said on Wednesday.

This was because Europe relies on Chinese silicon imports, whereas Chinese silicon rarely enters the US because of prohibitive import duties - although some US market participants said prices in the US will come to match those in China because of the knock-on effect of global increases.

Buyers in Canada and Mexico, deprived of Chinese silicon, are now competing with US buyers for supplies that were short even before the latest production problems in China, sources said.

Fastmarkets' price assessment for silicon, ddp US was \$2.90-3.50 per lb on October 7, up from \$2.25-2.50 per lb on September 30. The latest US price equates to \$6,393-7,716 per tonne.

"Silicon will soon be \$4 [per lb] in the US, too," a second trader based in the US said, referring to the equivalent Chinese price assessment, which was \$4.08 per lb on October 8, down from \$4.30 per lb on September 24.

The standard-grade 5-5-3 silicon Fastmarkets assesses in all regions is mostly used by aluminium alloy producers, whose end products go into cars (although in Europe Fastmarkets also assesses a purer-grade, 4-4-1 silicon).

Alloy makers raised concerns about surging silicon costs at the ongoing annual gathering of the London Metal Exchange on October 11-15. And some attendees at LME Week told Fastmarkets they may restructure their contracts to protect themselves against rising raw materials prices, such as silicon.

But even with the price in China slightly cooling, it is still up by 150% compared with the start of September.

TITANIUM SNAPSHOT: Alloy price range widens upward but trading slow

By Declan Conway - Wednesday 13 October

Key data from Fastmarkets' pricing session in Europe on Wednesday October 13.

FERRO-TITANIUM 70% TI, MAX 4.5% AL (in \$ per kg, ddp Europe)			
New price	Previous price	Change to midpoint of range	Midpoint % change
7.70-8.20	7.70-8.10	▲0.05	▲0.6
TITANIUM SCRAP TURNINGS, UNPROCESSED TYPE 90/6/4, 0.5% SN MAX (in \$ per lb, cif Europe)			
New price	Previous price	Change to midpoint of range	Midpoint % change
1.80-2.00	1.80-2.00	0	0
TITANIUM SCRAP TURNINGS, UNPROCESSED TYPE 90/6/4, 0.5-2% SN MAX (in \$ per lb, cif Europe)			
New price	Previous price	Change to midpoint of range	Midpoint % change
1.80-1.90	1.80-1.90	0	0

Source: Fastmarkets

Key drivers

- The European ferro-titanium price range widened higher in the week to Wednesday October 13 after new deals were reported, although overall trading activity was slow amid muted consumer buying interest.
- There was industry talk of some lower-priced deals, although sources said these were outliers to typical trading prices and due to some profit-taking on cheaper material sourced from abroad.
- Steelmakers have been tentative in buying ferro-titanium for prompt delivery due to uncertainty about underlying trends in consumption in the aerospace and automotive industries, which have both cut output this year. Surging energy prices have the potential to jeopardize production in both the steel and ferro-alloy sectors in the near term, sources said.
- Scrap suppliers have been holding their offer prices steady for several weeks and waiting for strong trading activity between ferro-titanium producers and steel mills before deciding what level to offer scrap prices. Renewed buying for feed from ferro-titanium producers, however, is likely because producers will need to complete their smelting schedules set for the rest of the current quarter.

Key quotes

- "The ferro-titanium market is still suffering from a lack of prompt demand and the persistent shortage of computer chops affecting automotive demand and automotive steels as a result. The lower-priced sales can only be explained by cash issues; either alloy producers are selling low volumes and need to sell material to finance their operations or some traders are disappointed by the poor price performance and have decided to sell their positions and switch products. Scrap remains extremely tight and very difficult to source, consequently underpinning ferro-titanium prices for this quarter and the first quarter of 2022," - European alloy producer 1

- "Titanium scrap availability is tightening by the day and so scrap merchants are demanding higher and higher prices, while ferro titanium trading is moving slowly with intermittent demand from steelworks. As a result, ferro-titanium production profit margins are almost non-existent and we are also faced with persistent increases on energy and transport costs. We need ferro-titanium prices above \$8 per kg for anything to make sense, but there is no sign that will happen anytime soon," - UK-based alloy producer



Trade log: Cobalt hydroxide payable indicator, min 30% Co, cif China, % payable of Fastmarkets' standard-grade cobalt price (low-end)

By pricing@fastmarkets.com - Wednesday 13 October

The Cobalt hydroxide payable indicator, min 30% Co, cif China, % payable of Fastmarkets' standard-grade cobalt price (low-end) trade log including business, bids and offers reported to Fastmarkets.

Fastmarkets publishes trades logs for its key price assessments and indices to bring more transparency into the markets it covers and the pricing process it applies.

Fastmarkets assessed Cobalt hydroxide payable indicator, min 30% Co, cif China, % payable of Fastmarkets' standard-grade cobalt price (low-end) at 89.00-91.00 on Wednesday October 13, 2021.

- Bid at 90%
- Offer at 92%
- Prices indicated at 89-91%
- Prices indicated at 91%
- Prices indicated at 89.50%
- Prices indicated at 92-93%
- Prices indicated at 91.50%
- Prices indicated at 91%
- Prices indicated at 87-88%
- Prices indicated at 91.50%
- Prices indicated at 90.00-91.50%
- Prices indicated at 90.00%
- Prices indicated at 89-90%
- Prices indicated at 86.00%

Any data submitted under a Data Submitter Agreement (DSA) will not be published.

To see all Fastmarkets' pricing methodology and specification documents, go to <https://www.fastmarkets.com/about-us/methodology>.

Fastmarkets uses its expert judgment to exclude outlying or unrepresentative numbers, and discount or discard prices that it believes may otherwise be questionable and/or unreliable.

Trade log: Cobalt alloy grade, in-whs Rotterdam, \$/lb

By pricing@fastmarkets.com - Wednesday 13 October

The Cobalt alloy grade, in-whs Rotterdam, \$/lb trade log including business, bids and offers reported to Fastmarkets.

Fastmarkets publishes trades logs for its key price assessments and indices to bring more transparency into the markets it covers and the pricing process it applies.

Fastmarkets assessed Cobalt alloy grade, in-whs Rotterdam, \$/lb at 26.20-26.95 on Wednesday October 13, 2021.

- Prices indicated at \$26.20-26.95
- Prices indicated at \$26.20-26.95
- Prices indicated at \$26.20-26.95
- Prices indicated at \$26.50-27.00
- Prices indicated at \$26.50-27.00

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Trade log: Cobalt standard grade, in-whs Rotterdam, \$/lb

By pricing@fastmarkets.com - Wednesday 13 October

The Cobalt standard grade, in-whs Rotterdam, \$/lb trade log including business, bids and offers reported to Fastmarkets.

Fastmarkets publishes trades logs for its key price assessments and indices to bring more transparency into the markets it covers and the pricing process it applies.

Fastmarkets assessed Cobalt standard grade, in-whs Rotterdam, \$/lb at 26.20-26.95 on Wednesday October 13, 2021.

- Sale at about \$26.90 for large tonnage
- Offer at \$26.35
- Deal heard at \$26.15
- Deal heard at \$26.35
- Bid at \$26.50
- Offer at \$27.20 (discarded as old business)
- Prices indicated at \$26.20-26.95
- Prices indicated at \$26.20-26.95
- Prices indicated at \$26.20-26.95
- Prices indicated at \$26.75-27.25
- Prices indicated at \$26.50-27.10

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Trade log: Cobalt sulfate 20.5% Co basis, exw China, yuan/tonne

By pricing@fastmarkets.com - Wednesday 13 October

The Cobalt sulfate 20.5% Co basis, exw China, yuan/tonne trade log including business, bids and offers reported to Fastmarkets.

Fastmarkets publishes trades logs for its key price assessments and indices to bring more transparency into the markets it covers and the pricing process it applies.

Fastmarkets assessed Cobalt sulfate 20.5% Co basis, exw China, yuan/tonne at 88,000.00-92,000.00 on Wednesday October 13, 2021.



- Sale at ¥91,000.00 for small tonnes
- Prices indicated at ¥88,000.00
- Prices indicated at ¥88,000.00
- Prices indicated at ¥88,000.00
- Prices indicated at ¥92,000.00
- Offer at ¥90,000.00
- Prices indicated at ¥88,000.00
- Sale at ¥91,000.00-92,000.00 for small tonnes
- Prices indicated at ¥88,000.00

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Ores and alloys

Electricity price rise adds strength to tight European ferro-chrome market [CORRECTED]

By Jon Stibbs - Wednesday 13 October

Higher electricity prices have added to the production costs of chrome alloy, especially low-carbon ferro-chrome, during the week to Tuesday October 12, at a time when the market was already short of material with prices at multi-year highs.

Fastmarkets assessed **ferro-chrome 0.10% C, average 65-70% Cr, delivered Europe** at \$3.05-3.25 per lb Cr on Tuesday, up 7-15 cents (+3.6%) from \$2.90-3.18 per lb Cr on September 28.

"Producers expect prices to keep rising to as high as \$3.50-3.60 per lb Cr in December, but for now there is very little material available on the spot market so it can be hard to even find current offers prices," one trader said.

In addition to the shortage of material in the market, producers have faced increased costs with electricity prices surging.

"Although the market is tight and this is driving prices, there is also cost support as a result of the rising electricity prices. I know electricity makes up around 40% of production costs for some producers," the trader added.

Low-carbon ferro-chrome is highly energy intensive to produce so the market is particularly susceptible to a change in energy costs.

"The market is very strong and electricity prices are starting to seriously weigh on alloy production costs," a producer said.

At the same time, the market continues to be constrained by high logistical costs that have already driven price rises.

"There are not enough containers available for our needs and sea freights are constantly increasing in price," a second producer said.

As a result of the rising costs and uncertain availability, consumers and traders have been keen to secure supply whenever possible.

"We have never had such demand for long-term contracts and we are receiving tenders from traders that we have had to reject," the producer continued.

High-carbon market firm

Meanwhile, Fastmarkets' assessment of **ferro-chrome high carbon 6-8.5% C, basis 65-70% Cr, max 1.5% Si, delivered Europe** was \$1.62-1.80 per lb Cr on Tuesday, narrowing upward by 1 cent from \$1.61-1.80 per lb one week earlier.

Fastmarkets' assessment of **ferro-chrome high carbon 6-8.5% C, basis 60-70% Cr, max 1.5% Si, delivered Europe** was also at \$1.62-1.80 per lb Cr on Tuesday, narrowing upward by 1 cent from \$1.61-1.80 per lb last week.

There is also a shortage of material available in the high-carbon ferro-chrome market and this has recently driven price rises, as well as incentivized consumers to secure their long-term contracts for 2022 earlier than usual.

The increase in electricity costs has also helped support the high-carbon ferro-chrome market, which was already at multi-year highs.

"We have all been shocked by the lurch upwards in power prices. We can certainly keep afloat but there is considerable uncertainty about how long it will last," a third producer said. "Will the current spike in prices ease quickly or will it carry on into 2022?"

"In response, we attempted to pass on the additional costs and really push up our offer prices, but this was rejected by consumers," he continued.

But traders reported consumers were more focused on the soaring ferro-silicon market rather than ferro-chrome this week.

"Everyone is more concerned about ferro-silicon - no one is really interested in ferro-chrome at the moment," a second trader said.

Fastmarkets' assessment of **ferro-silicon lumpy basis 75% Si (scale pro rata), delivered Europe** soared by 34.7% over the week to October 8 to €4,000-4,200 per tonne from €2,900-3,100 per tonne.

Meanwhile, Fastmarkets assessed **ferro-chrome high carbon 6-8.5% C, basis 60-64.9% Cr, max 3% Si, cif Europe** stable at \$1.41-1.47 per lb Cr on Tuesday.

Prices remained firm but steady this week, with some traders pointing to the unmoved **tender price from Tsingshan** in China as evidence of market stability.

Indian material continued to be uncompetitive in the European market because of the high cost of sea freight.

"To be in the market, Indian producers need to export at a low price for them and it will then still be a high price for a European importer," a third trader said.

Editor's note: The third paragraph has been corrected to read "Producers expect prices to keep rising to as high as \$3.50-3.60 per lb Cr in December". The original version had mistakenly said \$1.50-1.60 per lb Cr.

Trade log: Ferro-molybdenum 65% Mo min, in-whs Rotterdam, \$/kg Mo

By pricing@fastmarkets.com - Wednesday 13 October

The Ferro-molybdenum 65% Mo min, in-whs Rotterdam, \$/kg Mo trade log including business, bids and offers reported to Fastmarkets.

Fastmarkets publishes trades logs for its key price assessments and indices to bring more transparency into the markets it covers and the pricing process it applies.

Fastmarkets assessed Ferro-molybdenum 65% Mo min, in-whs Rotterdam, \$/kg Mo at 44.50-45.20 on Wednesday October 13, 2021.



- Sale at \$44.80 for standard tonnage
- Sale at \$45.20 for standard tonnage
- Offer at \$45.50
- Deal heard at \$44.50
- Deal heard at \$45.00
- Deal heard at \$45.10
- Prices indicated at \$44.00-45.00
- Prices indicated at \$44.00-45.00
- Prices indicated at \$44.50-46.20
- Prices indicated at \$45.00-45.50
- Prices indicated at \$45.00-45.50

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Trade log: Ferro-vanadium basis 78% V min, 1st grade, ddp Western Europe, \$/kg V

By pricing@fastmarkets.com - Wednesday 13 October

The Ferro-vanadium basis 78% V min, 1st grade, ddp Western Europe, \$/kg V trade log including business, bids and offers reported to Fastmarkets.

Fastmarkets publishes trades logs for its key price assessments and indices to bring more transparency into the markets it covers and the pricing process it applies.

Fastmarkets assessed Ferro-vanadium basis 78% V min, 1st grade, ddp Western Europe, \$/kg V at 31.00-31.50 on Wednesday October 13, 2021.

- Prices indicated at \$31.00
- Offer at \$32.00
- Sale at \$31.40
- Prices indicated at \$31.00-31.50
- Prices indicated at \$31.00-31.50
- Prices indicated at \$30.75-31.50
- Prices indicated at \$31.50
- Prices indicated at \$31.00-31.50
- Prices indicated at \$31.00-31.50
- Bid at \$30.95
- Sale at \$31.25 for 3 tonnes
- Prices indicated at \$31.50-32.50
- Prices indicated at \$32.00
- Bid at \$30.50
- Prices indicated at \$31.00-32.00

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Trade log: Ferro-tungsten basis 75% W, in-whs dup Rotterdam, \$/kg W

By pricing@fastmarkets.com - Wednesday 13 October

The Ferro-tungsten basis 75% W, in-whs dup Rotterdam, \$/kg W trade log including business, bids and offers reported to Fastmarkets.

Fastmarkets publishes trades logs for its key price assessments and indices to bring more transparency into the markets it covers and the pricing process it applies.

Fastmarkets assessed Ferro-tungsten basis 75% W, in-whs dup Rotterdam, \$/kg W at 37.00-38.50 on Wednesday October 13, 2021.

- Offer at \$38.00 for 6 tonnes
- Offer at \$39.00
- Prices indicated at \$38.00
- Prices indicated at \$37.00-38.50
- Prices indicated at \$37.00-38.50
- Prices indicated at \$37.00-38.50

Any data submitted under a Data Submitter Agreement (DSA) will not be published.

To see all Fastmarkets' pricing methodology and specification documents, go to <https://www.fastmarkets.com/about-us/methodology>.

Fastmarkets uses its expert judgment to exclude outlying or unrepresentative numbers, and discount or discard prices that it believes may otherwise be questionable and/or unreliable.

Electricity price rise adds strength to tight European ferro-chrome market

By Jon Stibbs - Wednesday 13 October

A correction has been issued for this article. The update can be found [here](#).

Trade log: Tungsten APT 88.5% WO3 min, fob main ports China, \$/mtu WO3

By pricing@fastmarkets.com - Wednesday 13 October

The Tungsten APT 88.5% WO3 min, fob main ports China, \$/mtu WO3 trade log including business, bids and offers reported to Fastmarkets.

Fastmarkets publishes trades logs for its key price assessments and indices to bring more transparency into the markets it covers and the pricing process it applies.

Fastmarkets assessed Tungsten APT 88.5% WO3 min, fob main ports China, \$/mtu WO3 at 309.00-319.00 on Wednesday October 13, 2021.

- Offer at \$314-319
- Sale at \$311
- Sale at \$313
- Sale at \$309-312
- Sale at \$312-319
- Prices indicated at \$309
- Prices indicated at \$308-310
- Prices indicated at \$319
- Prices indicated at \$307-308



Any data submitted under a Data Submitter Agreement (DSA) will not be published.

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Spot, tender price gap develops in Chinese FeCr market

By Jon Stibbs, Siyi Liu - Wednesday 13 October

A price gap between spot and tender prices developed in China's ferro-chrome market in early October after sellers in the spot market raised their prices because of supply tightness, while major stainless steel mills decided to keep their tender prices flat from the previous month.

Offers heard in the spot market continued to rise after China's National Day holiday on October 1-7, due to limited availability caused by lasting electricity limitations.

Fastmarkets' price assessment for **ferro-chrome, spot, 6-8% C, basis 50% Cr, ddp China**, widened upward by 500 yuan to 11,000-12,000 yuan (\$1,704-1,859) per tonne on Tuesday October 12, from 11,100-11,500 yuan per tonne on September 28. The earlier assessment was rolled over on October 5 because of the National Day holiday.

China produced around 400,000 tonnes of high-carbon ferro-chrome in September, which was an 18% drop from the previous month, according to market participants.

"There's very little spot availability," a trader said. "Many producers were focused on long-term contract delivery, leaving very few cargoes to offer in the spot [market]."

But the price surge was ignored by major stainless steel mills when they were deciding their October tender prices. On Monday, **Tsingshan announced that it would keep its October-delivery high-carbon ferro-chrome price** at 9,995 yuan per tonne, unchanged from the previous month.

Traditionally, spot prices are 200-300 yuan per tonne higher than major stainless steel mills' tender prices. And the unusual gap at the moment between tender and spot prices could fuel suppliers' reluctance to deliver material, market participants told Fastmarkets.

"This has placed producers and traders in a [difficult] situation," a second trader said. "Although the tenders are still profitable for producers, everyone would be eyeing the higher profits they could get by selling on the spot market."

In the meantime, some bearishness emerged in the market amid continuing production cuts in the stainless-steel sector.

"China's crude stainless steel output dropped by more than expected in September, reducing demand for upstream material," a third trader said. "And prices could face more pressure if the production curbs [among stainless steel makers persist into] the fourth quarter."

The lower-than-expected tender price also damped sentiment in the imported ferro-chrome market, where some exporters had expected there to be further price support, if tenders increased.

That said, some market participants pointed out that the unchanged tender prices could only indicate that the major stainless steel mills had sufficient stocks, while others, whose stocks were not adequate, would still have to buy material at higher prices.

"The supply and demand fundamentals remain the same – the market remains tight," a ferro-chrome producer said. "It may just be that Tsingshan does not need cargo."

Fastmarkets' price assessment for **ferro-chrome 50% Cr, import, cif main Chinese ports**, was stable at \$1.32 per lb contained Cr on Tuesday.

UG2 chrome ore market weakens

The market for UG2 chrome ore ticked downward in response to weakening demand, resulting in light liquidity because buyers had just returned from the week-long break.

Fastmarkets' **chrome ore, South Africa UG2 concentrates index, basis 42%, cif China**, dipped by \$1 per tonne on October 12 to \$163 per tonne.

The weaker demand also came after a **shift in consumption patterns** toward buyers that do not have sintering facilities and therefore cannot process UG2 ore.

"Suppliers all want a higher grade of ore than UG2 at the moment," an ore producer said.

Activity on the ore market has been damped by uncertainty among consumers about their requirements.

Smelters' demand for ore will be determined by their access to electricity, and the price they must pay. Smelters in Inner Mongolia told Fastmarkets that rates for electricity have increased by 0.20 yuan per kWh since late September, which added to their costs of ferro-chrome production by around 800 yuan per tonne.

"The increased production costs and unchanged tenders will lead to lower acceptance of chrome ore," a second ferro-chrome producer source said.

To encourage liquidity, producers may need to lower their offer prices, according to market participants.

High logistics costs meant that miners have added cost support to current prices so have been reluctant to reduce their prices, with one ore trader saying: "We are waiting now to hear the situation with the energy restrictions will develop."

Steel

HRC index slips; spot supply tightens further

By Rijuta Dey Bera - Wednesday 13 October

Hot-rolled coil prices in the United States dipped slightly once again - remaining under \$97 per hundredweight (\$1,940 per short ton) for the fourth consecutive business day - while spot tonnages remained scarce and contract negotiations for 2022 supply were said to be in the final stretch.

Fastmarkets' daily [steel hot-rolled coil index, fob mill US](#) was calculated at \$96.79 per cwt (\$1,935.80 per ton) on Wednesday October 13, a decrease of 10 cents (0.10%) from \$96.89 per cwt on Tuesday October 12 and down by 53 cents (0.54%) from \$97.32 per cwt a week earlier.

Fresh inputs were received in all three sub-indices in a range of \$95-99 per cwt, representing mill offers and general indications of current spot market pricing.

Heard in the market

Domestic producers have entered the last leg of their 2022 supply contract talks, market participants said. At the same time, spot availability of hot band has shrunk even further this month, while mills have continued to offer tonnages at the upper limit of contract volumes.

Some buyers have delayed placing orders because they are waiting to see if the spot price will fall further in the coming weeks.

However, end demand remains robust, and - paired with the ongoing mill outages - the high spot HRC price will likely remain supported for a while, other sources said.

Quote of the day

"The mills continue to minimize the spot market while letting customers pull all the contract they want," a consumer source said.

"Buyers are being cautious on building inventory if pricing is at a peak," that consumer continued. "So, we will see if the mills can stay disciplined and keep tons out of the spot market, or if one of them panics and starts to reduce prices to try and move tons."

Dom Yanchunas in New York contributed to this report.

US sets duties vs S Korean cut-to-length plate

By Robert England - Wednesday 13 October

The United States Commerce Department has finalized anti-dumping duties on cut-to-length carbon-quality steel plate products from South Korea that it said was sold in the US at less than normal value from February 1, 2019, through January 31, 2020.

In a [Federal Register notice](#) published on Wednesday October 13, Commerce affirmed its [June 25 finding for preliminary duties](#) based on the weighted-average dumping margin of 0.68% for Hyundai Steel Co, Dongkuk Steel Mill Co Ltd, BDP International and Sung Jin Steel Co Ltd.

Fastmarkets' price assessment for [steel cut-to-length plate carbon grade, fob mill US](#) was at \$89 per hundredweight (\$1,780 per short ton) on Friday, unchanged from the prior week.

Optimus Steel raises wire rod prices by \$40/t

By Robert England - Wednesday 13 October

Optimus Steel has increased all wire rod transaction prices by \$40 per ton (\$2 per hundredweight) effective with shipments from November 1, the company said in a letter to customers on Tuesday October 12.

An extra charge of \$20 per ton will remain in place for all wire rod diameters less than 1/4in.

The announcement [follows a similar increase on wire rod prices by Nucor](#) on Monday October 11 [and by Liberty Steel](#) on Tuesday.

Fastmarkets' monthly price assessment for [steel wire rod \(low carbon\) industrial quality, fob mill US](#) was at \$57.50-60.50 per cwt (\$1,150-1,210 per ton) on September 21, up by 2.61% from \$56-59 per cwt on August 17.

EUROPE HDG: Domestic prices down on weak demand

By Maria Tanatar - Wednesday 13 October

Domestic prices for hot-dipped galvanized coil decreased across Europe in the week ended Wednesday October 13 due to weaker demand from distributors and the automotive sector, sources told Fastmarkets.

Sources expect distributors to return to the market in November. While the majority of European distributors have sufficient stocks to last until the year-end, they will need to restock for the first quarter of 2022.

The bearish mood in the market has been supported by weak demand from the automotive sector, where output has been cut because of the shortage of semiconductors. Market sources reported that mills supplying the automotive sector have booked 20-30% less steel than expected.

"Automotive buyers [are] taking their time before starting long-term contract negotiations. They prefer to wait for spot prices to drop further, so that they could negotiate lower long-term prices," a German trader said.

Demand from other end-consumers, including the construction and white goods sectors, remained strong. In addition, the cheapest import material was subject to EU safeguard duties.

Fastmarkets' weekly price assessment for [steel hot-dipped galvanized coil, domestic, exw Northern Europe](#) was €1,160-1,180 (\$1,339-1,362) per tonne on Wednesday October 13, down by €20-50 per tonne from €1,180-1,230 per tonne a week ago.

The assessment was based on achievable prices estimated by market sources.

The corresponding weekly price assessment for [steel hot-dipped galvanized coil, domestic, exw Southern Europe](#) was €1,130-1,160 per tonne on October 13, down by €40-50 per tonne week on week from €1,180-1,200 per tonne.

The assessment reflected offers and achievable prices heard in the market.

NORTHERN EUROPE WIRE ROD: Prices broadly flat in quiet market

By Julia Bolotova - Wednesday 13 October

Steel wire rod prices in Northern Europe were broadly flat in the week to Wednesday October 13, with trading activity limited, but demand is expected to recover soon, sources told Fastmarkets.

Fastmarkets' weekly price assessment for steel wire rod (mesh quality), domestic, delivered Northern Europe was €800-820 (\$924-948) per tonne on Wednesday, same as seven days earlier.

Daily demand for wire rod in the region remained limited over the past week because buyers have been holding back, assessing the price direction.

"The market has been declining since mid-September, so everyone has been waiting for prices to hit the bottom. However, now the scrap started to move up and energy prices are rising, [so almost] all the mills are cutting output to [control] costs. Buyers might [now] start to worry about availability and resume purchases," a mill source told Fastmarkets.

"This week is still quiet, but I think buyers will come back soon. It is clear that the downtrend is over," a German distributor said.

The key concern for the steel industry right now, however, is the sharp increase energy prices.

Mill sources told Fastmarkets that energy price spikes have added €120-200 per tonne to the cost of production and that these costs are likely to rise further, so long steel producers have started to implement selective output adjustments.

ArcelorMittal, for instance, is implementing production cuts across all its EAF-based sites in Europe and Feralpi is reducing output at its Riesa plant in Germany, sources told Fastmarkets.

End-user demand in Europe remains good, however.

"We see no problems from the consumption [point of view and] we are selling a little more [wire product] than we produce," one consumer in the Benelux region told Fastmarkets.

The effects of the production cuts on the market was not clear yet, sources said.

"I think we will see the effect [of production cuts] in November-December," the buyer said.

Generally, sources were expecting long steel producers in the region to push for higher prices soon.

US steel mill shipments rise in August: AISI

By Abby Verret - Wednesday 13 October

Steel mill shipments in the United States increased modestly month on month and significantly year on year for the fourth month in a row in August, with year-to-date volumes also higher compared with the first eight months of 2020.

US steel mills shipped 8.40 million net tons in August, up by 1.52% from 8.28 million tons shipped in July and up by 28.66% from 6.53 million tons shipped in August 2020, according to American Iron and Steel Institute (AISI) data released on Tuesday October 12.

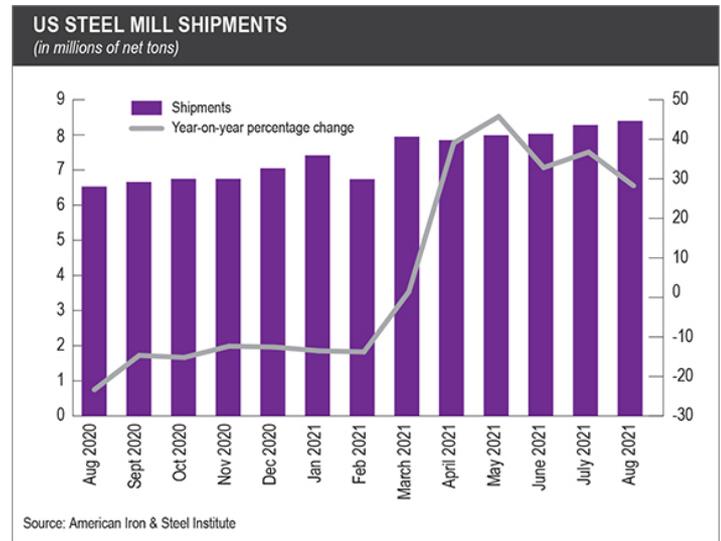
Total shipments for January-August reached 62.65 million tons, 16.49% higher than 53.79 million tons in the same period last year.

Year-to-date shipments of corrosion-resistant sheet and strip, cold-rolled sheet and hot-rolled sheet increased by 23%, 17% and 11% respectively compared with the same period in 2020.

Fastmarkets' assessment of the price for steel hot-dipped galvanized coil (cold-rolled base), fob mill US averaged \$107.38 per hundredweight (\$2,147.60 per short ton) in August, up by 5.38% compared with \$101.90 per cwt in July. That price was last assessed at \$110 per cwt on October 7.

The assessment for steel cold-rolled coil, fob mill US averaged \$106.63 per cwt (\$2,132.60 per ton) in August, up by 6.21% from \$100.40 per cwt in July. That price was last assessed at \$110 per cwt on October 7.

Fastmarkets' steel hot-rolled coil index, fob mill US averaged \$95.48 per cwt (\$1,909.60 per ton) in August, up by 5.20% from an average of \$90.76 per cwt in July. The index was last calculated at \$96.89 per cwt on October 12.



EUROPE HRC: Domestic prices slide; buyers hold back from making new deals

By Maria Tanatar - Wednesday 13 October

Domestic prices for hot-rolled coil fell in Northern Europe and Italy on Wednesday October 13 with both buyers and sellers preferring to adopt a wait-and-see strategy, sources told Fastmarkets.

Trading activity was expected to recover in November, however, according to market participants. Although the majority of European distributors have sufficient stocks to last until the year-end, they will need to restock soon for the first quarter of 2022.

The negative mood in the market has been supported by weak demand from the automotive sector, whose output has been cut because of the shortage of semiconductors, and this has contributed to the general negative sentiment. Market sources reported that mills supplying the automotive sector have booked 20-30% less steel than was expected.

Demand from other end-consumers, however, including the construction and white goods sectors, remained strong. In addition, the cheapest import



material was subject to EU safeguard duties.

Buyers have also been holding back from purchases from overseas suppliers for at least a month, sources said.

After importers started to get customs clearance for **material that had been sitting in ports**, waiting for the start of the new EU safeguard period (October 1–December 31), they were likely to turn toward domestic suppliers to fill gaps in stock specifications, sources said.

Interest in EU-origin coil was likely to be supported by the fact that domestic prices have been sliding and that material brought into the EU was booked when prices for imported coil were high.

Fastmarkets calculated its daily **steel hot-rolled coil index, domestic, exw Northern Europe**, at €1,007.00 (\$1,162.63) per tonne on October 13, down by €16.33 per tonne from €1,023.33 per tonne on October 12.

The index was also down by €28.71 per tonne week on week and down by €81.13 per tonne month on month.

Wednesday's index was based on achievable prices estimated at €1,000–1,020 per tonne ex-works.

"Domestic is around €1,000 per tonne ex-works as all mills [in Northern Europe] are trying to keep the price with four-digits, giving some 'gifts' in the form of overrollings, dropping of extras, etc.," a German distributor said.

"There are hardly any official offers, but it seems prices are breaking the €1,000 per tonne mark. Yet EU mills are exporting outside the EU rather than discount local prices. So, they try to protect EU prices and export surplus capacity even though prices are much lower," another German source said.

Fastmarkets calculated its corresponding daily **steel HRC index, domestic, exw Italy**, at €910.00 per tonne on October 13, down by €18.33 per tonne day on day from €928.33 per tonne.

The index was down by €30.13 per tonne week on week and by €101.25 per tonne month on month.

The index was based on offers and achievable prices reported at €900–920 per tonne ex-works.

EUROPE SECTIONS: Prices under pressure from falling feedstock costs

By Carrie Bone - Wednesday 13 October

The price of steel hollow sections in Europe remained flat in the week to Wednesday October 12, despite pressure from falling feedstock costs, sources told Fastmarkets.

Fastmarkets' price assessment for **steel sections (medium) domestic, delivered Northern Europe** was €1,275–1,330 (\$1,472–1,535) per tonne on October 13, unchanged week on week.

Domestic hollow section prices were under pressure from falling feedstock prices, as well as the recently renewed import allowances.

Fastmarkets' calculation of the **daily steel HRC index domestic, exw Northern Europe** was €1,007 (\$1,165.40) per tonne on October 13, down from €1,035.71 per tonne week on week and from €1,129.17 per tonne at the start of September.

Market participants said that **rising energy costs** could support steel prices although this has mainly been reported for those who produce steel using electric-arc furnaces (EAFs).

European import quotas were renewed on October 1 and will run until the end of the year, but some countries have, once again, already exhausted their allocated tonnages of permitted hollow sections.

Almost 100,000 tonnes of hollow sections came in from Turkey and Russia, **exhausting their 70,099-tonne and 23,863-tonne allowances** respectively on day one, according to European Commission data.

Belarus and the "other countries" category have used half of their allocated tonnages.

Fastmarkets' **weekly price assessment for steel sections (medium) domestic, delivered Southern Europe** was €1,275–1,330 per tonne on Wednesday, unchanged week on week.

DAILY STEEL SCRAP: Prices jump further with fresh deep-sea cargoes

By Cem Turken - Wednesday 13 October

Turkish steel producers continued to pay higher prices for deep-sea scrap cargoes on Wednesday October 13, market participants told Fastmarkets.

Late on Tuesday October 12, a steel mill in the Marmara region booked a Baltic Sea cargo comprising 12,000 tonnes of HMS 1&2 (80:20) at \$470 per tonne and 18,000 tonnes of shredded at \$490 per tonne cfr.

On Wednesday, a steel mill in the Izmir region paid \$480 per tonne cfr for 35,000 tonnes of HMS 1&2 (80:20) to another Baltic Sea supplier.

On the same day, a steel producer in the Iskenderun region booked a European cargo consisting of 30,000 tonnes of HMS 1&2 (80:20) at \$475.50 per tonne cfr.

These compared with the previous deep-sea booking heard late on Monday October 11, when another steel mill in the Iskenderun region had paid \$463 per tonne cfr for Baltic Sea-origin HMS 1&2 (80:20).

The daily scrap indices sharply rose on Wednesday October 13.

Fastmarkets' daily calculation of its index for **steel scrap HMS 1&2 (80:20 mix) North Europe origin, cfr Turkey** was calculated at \$472.63 per tonne on Wednesday, up by \$14.11 per tonne.

Fastmarkets' daily calculation of its index for **steel scrap HMS 1&2 (80:20 mix) United States origin, cfr Turkey** was calculated at \$479.31 per tonne, also up by \$14.11 per tonne day on day, leaving the premium for US-origin material over European scrap at \$6.68 per tonne.

Turkish deep-sea scrap import prices have been increasing due to limited supply and low scrap stocks.

"The suppliers were collecting less scrap in the past weeks due to weak prices and negative outlook. They are caught with less material when the market started to turn. Besides, other markets like Egypt and Bangladesh were buying scrap cargoes, which were meant for Turkey," a Turkish mill source said.

Mills' scrap bookings were also supported by increased demand for billet and long steel products caused by rising prices in the Turkish domestic market.

"We were selling billet to local market at \$620–625 per tonne ex-works in the past weeks. We were expecting the market to be worse in the last quarter of the year. However, things went another way. We sold billet at \$690–695 per tonne earlier this week and now offering 700–710 per tonne," the mill source said.

Fastmarkets' weekly price assessment for **steel billet, domestic, exw Turkey**



was \$650-655 per tonne ex-works on Thursday October 7, up from \$620-625 per tonne a week earlier.

EUROPE BEAMS: Mills look to maintain steel prices after recent softening

By Carrie Bone - Wednesday 13 October

The price of European steel H-beams remained steady on Wednesday October 13, with mills looking to support current prices while energy costs rise, sources told Fastmarkets.

Fastmarkets' weekly price assessment for **steel beams domestic, delivered Northern Europe** was €980-1,020 per tonne (\$1,131-1,178) on October 13, unchanged week on week.

This is the first week of stability following three consecutive weeks of decline.

In recent weeks, European long steel producers have **introduced energy surcharges** in response to soaring energy costs but sources do not believe these surcharges have been reflected in trading prices yet.

Some steelmakers are **reducing production** to manage the higher costs, sources said.

Feedstock costs have also reversed a recent run of losses and have started to rise, supporting steel beam prices.

Fastmarkets' daily calculation of its index for **steel scrap HMS 1&2 (80:20 mix) North Europe origin, cfr Turkey** was \$458.52 per tonne on October 13, up from \$439.66 per tonne one week earlier.

The weekly price assessment for **steel beams domestic, delivered Southern Europe** was €980-1,010 per tonne on Wednesday, flat week on week.

NORTHERN EUROPE REBAR: Prices stabilize after weeks of volatility; but more increases likely

By Julia Bolotova - Wednesday 13 October

Steel rebar prices in Northern Europe have been broadly flat over the past week, but market sources were expecting mills to push for increases soon to reflect the surge in production costs, Fastmarkets heard on Wednesday October 13.

Rebar prices in the region stabilized **after another decline last week**, leaving Fastmarkets' weekly price assessment for **steel reinforcing bar (rebar), domestic, delivered Northern Europe**, unchanged at €780-800 (\$901-924) per tonne on October 13.

The market was broadly quiet over the past week with buyers holding back from trading, but sources suggested that the situation would reverse soon.

"Buyers have been waiting for prices to sink further, but now that scrap prices are going up, and there are energy [supply concerns], people are starting to get worried," a mill source said.

"The level of stocks is not very high. I think buyers will resume purchasing," a trading source in Germany said.

On top of that, some major long steelmakers in the region were slowing down steel production, being unable to meet the **skyrocketing output costs**.

Electricity prices were said to be €150-230 per MWh in October, compared with €55 per MWh previously, and natural gas at more than €100 per MWh,

compared with €20 per MWh. Moreover, the prices for power and gas were expected to keep rising in November-December, several sources said.

Notably, mill sources said that the energy price spikes have added €120-200 per tonne to the cost of production and said that these costs were likely to rise further.

Several sources told Fastmarkets that ArcelorMittal was implementing production cuts across all its electric-arc furnace-based sites in the EU. Feralpi was also reducing output at its Riesa plant in Germany, three market sources told Fastmarkets.

"We expected the downtrend to be short-lived, considering that everything is going up: energy costs, transport costs, scrap. I think the [rebar] price will start to rise shortly," a German trader said.

"I think people will have to restock and prices will rebound," a source in the Netherlands said.

No relief was seen to come from imports, because of the EU safeguards in place.

Key suppliers Turkey and Russia used up their fourth-quarter allocations within several days of the quota period renewal on October 1.

Notably, Turkey has entirely used its 61,938-tonne rebar allocation for the period, according to European Commission customs data.

Russia, meanwhile, had taken up 29,011 tonnes, 48%, of its 59,963-tonne rebar allocation for the fourth quarter, the EC data from October 12 showed. But sources said that all of Russia's volumes had already been taken, with material waiting for customs clearance in EU ports.

In sharp contrast, Ukraine's quota was practically intact, as usual, sources said. As of October 12, the nation had used only 4,595 tonnes of its 30,321-tonne fourth-quarter allowance.

US crude steel production slips again

By Fastmarkets AMM staff - Wednesday 13 October

Crude steel production in the United States totaled 1,858,000 net tons for the week ended Saturday October 9, down by 0.75% from 1,872,000 tons the previous week, with mills operating at an average capacity utilization rate of 84.2%.

In the corresponding week last year, mills produced 1,549,000 tons at an average capacity utilization rate of 70.1%, according to the American Iron and Steel Institute, Washington.

Mills have produced an adjusted 73,267,000 tons thus far this year at an average capacity utilization rate of 81.2%, up by 20.25% from 60,931,000 tons at an average capacity utilization rate of 67.1% in the same period last year.



STEEL OUTPUT						
Week ended	Net tons in thousands	Capacity utilization	Week ended	Net tons in thousands	Capacity utilization	
January 2	1,650	74.6	July 10	1,852	83.6	
January 9	1,709	75.4	July 17	1,859	84.1	
January 16	1,738	76.7	July 24	1,868	84.6	
January 23	1,717	75.7	July 31	1,876	85.0	
January 30	1,725	76.1	August 7	1,872	84.8	
February 6	1,705	75.2	August 14	1,869	84.7	
February 13	1,743	76.9	August 21	1,877	85.0	
February 20	1,745	77.0	August 28	1,873	84.9	
February 27	1,749	77.2	September 4	1,866	84.5	
March 6	1,755	77.4	September 11	1,882	85.3	
March 13	1,761	77.7	September 18	1,874	84.9	
March 20	1,753	77.3	September 25	1,880	85.2	
March 27	1,760	77.6	October 2	1,872	84.8	
April 3	1,766	77.9	October 9	1,858	84.2	
April 10	1,761	77.6	Year to date*	73,267	81.2	
April 17	1,770	78.0	Year ago to date*	60,931	67.1	
April 24	1,781	78.4	* Reflects AISI adjustments.			
May 1	1,788	78.7	STEEL PRODUCTION BY DISTRICTS			
May 8	1,774	78.1	<i>(in thousands of net tons)</i>			
May 15	1,799	79.2	Oct 9	Oct 2	Sept 25	
May 22	1,793	79.0	Northeast	181	177	172
May 29	1,836	81.5	Great Lakes	638	649	650
June 5	1,840	82.3	Midwest	191	196	202
June 12	1,834	82.6	Southern	768	774	786
June 19	1,839	82.9	Western	80	76	70
June 26	1,835	82.7	Total	1,858	1,872	1,880
July 3	1,842	83.0	Source: American Iron and Steel Institute.			

SOUTHERN EUROPE REBAR: Producers raise prices on high rolling costs

By Julia Bolotova - Wednesday 13 October

Steel rebar producers in Southern Europe have pushed their prices upward, citing rising energy costs and higher scrap values, Fastmarkets heard on Wednesday October 13.

Even though buyers were resisting the higher prices for now, sources tended to believe that an increase would be accepted eventually.

"Production costs are up by €120-170 [\$139-196] per tonne of steel, and will rise further. This is not speculative," a mill source in Italy said.

Fastmarkets' assessment of the price for [steel reinforcing bar \(rebar\), domestic, delivered Southern Europe](#), was €730-750 (\$843-866) per tonne on Wednesday, up by €10-20 per tonne from €720-730 per tonne the previous week.

Producers in Spain and Italy were slowing their production to reduce energy consumption, Fastmarkets heard.

"We stop work during peak hours, and reduce shift lengths," one mill source in Spain said.

"We implement selective production cuts, such as reducing working hours per day, to maintain the balance," an Italian mill said.

Italy

In the second half of the week ended October 8, Italian producers pushed their base rebar prices to €470 per tonne ex-works, up from €435-440 per tonne ex-works heard earlier in the same week.

With the addition of extras for 12mm material, this would make the price

equivalent to €730-735 per tonne ex-works, or €750-755 per tonne delivered.

But sources told Fastmarkets that there were still some deals done during the assessment period at lower prices of €730-745 per tonne delivered.

"There are still some sales at lower prices but I think those will finish in a few days," one trader said.

Buying activity in the country started to pick up this week, sources said.

"Buying has been good over the past [few] days... Certainly, the price will not go down any more in October. The trend seems to have changed," another trader said.

The construction sector was performing well in Italy, especially the public sub-sector.

"Activity in the rebar market is good. We are busy 110%, especially with infrastructure projects," a consumer told Fastmarkets.

Sources expected rebar producers to consolidate their price increases in deals this month, but the further trend was not yet clear.

"I heard the mills might push for another €30-50 per tonne increase, mainly because of energy and gas prices," another trader said.

Spain

In Spain, rebar producers were also trying to increase their prices, with rebar offers there in the range of €740-750 per tonne delivered, up from €720-725 per tonne delivered last week, sources told Fastmarkets.

"The price increase is absolutely inevitable, because our production costs are shooting up: energy and gas, scrap, transport - everything is increasing," a Spanish mill told Fastmarkets.

Buying activity was also picking up in Spain, recovering from the low levels seen in September, sources said.

"The downtrend is over - that is clear to everyone - so buyers are coming back to the market," a trader said.

Exports

Meanwhile, export activity was very slow over the past week due to the offer-bid mismatch, sources said.

"Italian mills have stopped offering. Last week, bids from the Balkans and Northern Africa were coming at less than €600 per tonne fob, which is not workable for the mills," a trader told Fastmarkets.

One Spanish long steel producer reported moderate demand from the Nordic states, with its rebar offers in the range of €670-700 per tonne fob.

TimkenSteel raises SBQ prices by \$60/t

By Robert England - Wednesday 13 October

Timken Steel Corp announced a price increase of \$60 per ton (\$3 per hundredweight) for all special bar quality (SBQ) products on Wednesday October 13.

This increase affects orders not already covered by pricing agreements and is effective for shipments beginning November 1, the company said in a letter to customers. All surcharge mechanisms remain in effect.

Republic Steel began this round of SBQ price increases on Friday October 8. Steel Dynamics Inc and Gerdau followed Monday October 11 and Tuesday October 12 respectively.



Fastmarkets' monthly assessment for [steel bar hot-rolled special bar quality 1-inch round 1000 series \(carbon\)](#), fob mill US was at \$68 per cwt (\$1,360 per short ton) on September 17, unchanged from August 20.

Fastmarkets' monthly assessment for [steel bar cold-finished 1-inch round 1018 \(carbon\)](#), fob mill US was at \$89.25 per cwt on the September 17, up by 0.85% from \$88.50 per cwt on August 20.

Fresh trade case could bolster US OCTG prices

By Mark Burgess - Wednesday 13 October

Prices for most oil country tubular goods (OCTG) and electric-resistance welded (ERW) line pipe in the United States were steady or increased slightly in October.

A recently filed trade case, however, claiming unfair advantages on OCTG imports from South Korea, Russia, Mexico and Argentina could potentially impact the OCTG market in the coming months, sources said. It will depend in large part on how quickly the case is decided and how severe the tariffs might be against the countries in question.

"I think it could trigger a spike in pricing," a Southwest-based producer source said.

The anti-dumping petition was filed on Wednesday October 6 by Borusan Mannesman Pipe, US Steel Tubular Products, PTC Liberty Tubulars, Welded Tube USA and representatives of the United Steelworkers union.

"This almost appears to specifically target Tenaris, since they are the major importer of seamless OCTG from Argentina and Mexico," an eastern producer source said. "Russia almost targets Tenaris as well, since they have the exclusive distribution rights for Russia TMK OCTG in the US as part of their [deal buying TMK Ipsco](#) a couple of years ago. South Korea, of course, has always been a problem with their energy tubular [shipments] to the US."

In a separate decision released recently by the US Commerce Department, [initial duties were set against South Korean shippers Hyundai Steel](#) (19.38% weighted-average dumping margin), SeAH Steel (3.85%) and non-examined companies (11.62%).

OCTG producers and distributors have also been provided a glimmer of hope with oil pricing on the rise and the [US rig count climbing to 533](#) during the week ended October 8, its highest level since hitting 602 rigs in April 2020.

"The rig count climbing is just getting companies somewhat back online," a southwestern-based distributor source said. "There's no rush to produce. Shortages are creating increased prices, which they like. But it will also cause big hurdles to overcome. Look around the world, everyone is starting to experience supply chain issues, which are creating shortages."

Fastmarkets' monthly assessment for [steel OCTG API 5CT, Casing J55, fob mill US](#) was at \$2,250-\$2,350 per short ton on Tuesday, up by 4.55% from \$2,150-2,250 per ton in September. The current price is at its highest level since being marked at \$2,385 in December 2008.

"OCTG prices I think still have some upward momentum, but it could be slowing," the eastern producer source said. "Tubing is extremely tight and prices are continuing to increase for the sizes 2-3/8in and 2-7/8in [outside diameter] - L80 and J55, in particular."

Fastmarkets' assessment for [steel seamless OCTG API 5CT - Casing P110, fob mill US](#), which typically sells at a premium to welded J55 material - stood at \$2,150-2,250 per ton on Tuesday, up by 7.32% from \$2,000-2,100 per ton in September.

Seamless producers, which use ferrous scrap as substrate instead of hot-rolled coil, have not faced the same pressure with input costs as welded producers.

The battle between seamless and welded producers has subsequently intensified due to the hot-rolled coil price skyrocketing this past year. HRC pricing, however, appears to have [stabilized this week in the \\$96-97-per-hundredweight range](#).

Line pipe pricing mostly flat

Fastmarkets' assessment for [steel ERW line pipe \(X52\)](#), fob mill US was at \$2,475-2,525 per ton (\$123.75-\$126.25 per cwt) on October 12, unchanged from September. This is the first time in more than a year that pricing for ERW line pipe hasn't increased month on month. The current assessment remains at its [highest level since Fastmarkets began tracking this market](#) in 2016.

The steady price increases seen throughout 2021 have been exclusively driven by the rising cost of HRC and not in any way demand driven, with end users having delayed new pipe projects due to the Covid-19 pandemic, sources said.

"While other steel product markets are in recovery, even in the energy-focused OCTG market, line pipe is still on the sidelines... High costs are to blame for the immediate slow interest in tendering for large-tonnage projects. Indeed, large-diameter line pipe prices are holding at levels well above historical averages in most regions, mainly as a result of passing high steel costs on to buyers," Fastmarkets' [global tube & pipe research team](#) said in a recent note.

"Compared to 2020, line pipe prices are 50-60% higher than the 2020 average in the United States, 40-50% higher in the Middle East and Asia, and 20-30% in Europe. Meanwhile, steel costs are up by higher rates across the regions, resulting in tight margins for pipe producers," they said, noting that the recent price pressure is expected to moderate in 2022 and beyond but speculation is that steel prices could provide a higher floor for downstream line pipe prices.

"In terms of market fundamentals, reduced demand from delayed or canceled projects, as well as competitive pressure between global producers, will weigh on pipe prices and lead to potential margin squeeze throughout the forecast," the research team said.

The price for domestic [ERW line pipe X65 and domestic ERW line pipe X70](#) was also unchanged month on month at \$2,600-\$2,650 per ton, as was that for [X70 line pipe](#) at \$2,650-\$2,700 per ton.

On the import side of the line pipe equation, sources unanimously agreed that there has been very little movement to pricing since September. Material from South Korea remains the more viable option since the shipping constraints aren't as big a concern there compared with Europe, sources said.

The price for [steel ERW line pipe \(X52\) import South Korean-made, cif Houston](#) was assessed at \$1,700-1,800 per ton, unchanged from September, with [non-South Korean-made X52 imports](#) also flat at \$2,100-2,200 per ton.

General market sentiment is that pressure from lower-cost imports in 2022, [especially South Korea](#), could ultimately provide another headwind for domestic producers.

ASIA STEEL SCRAP DIGEST: Japan auction results boost spot markets

By Paul Lim, Lee Allen, Carrie Bone, Tianran Zhao - Wednesday 13 October

The rise in October's Kanto Tetsugen auction boosted sentiment in the Japanese scrap market and supported export offers from Japan, sources told Fastmarkets on Wednesday October 13.

- Japan local market pushes export offers higher
- Vietnam buyers increase bids
- Chinese buyers in wait-and-see mode due to losses in futures



Japan

Offer prices for bulk cargoes of steel scrap from Japan rose again on Wednesday following the rise in October's Kanto Tetsugen auction, which [closed on Tuesday](#).

Base-grade H2 was offered at ¥54,000-56,000 per tonne fob Japan on Wednesday, while Shindachi busheling in bulk was offered at ¥66,000-68,000 per tonne fob.

"Business is bad because although export prices are catching up, it is difficult to ship to the export market due to the high Japan local market," a Japanese trading source said. For example, deals for H2 in the local market are possible at above ¥54,000 per tonne delivered but no overseas buyers are able to accept this level yet, the source said.

Fastmarkets' price assessment for [steel scrap H2, export, fob main port Japan](#) was ¥52,000-54,000 per tonne on Wednesday, up from ¥49,000-52,000 per tonne a week earlier.

The Japanese market was also supported by strong demand in South Korea, sources said. A cargo of Japanese H1:H2 (50:50) was sold at ¥57,000 per tonne cfr South Korea in the last week but material is no longer available at this price.

Late on Wednesday, rumored deals were heard for an Australia-origin cargo at \$522.5 per tonne cfr Korea for HMS 1 and for a Russian A3 scrap cargo at \$534 per tonne cfr Korea, but this could not be confirmed at the time of publishing. By comparison, the previous A3 cargo sold into the country was done at \$483 per tonne cfr [in late September](#).

Vietnam

Vietnamese buyers returned to the spot market in the week with higher bids for bulk heavy melting scrap (HMS) 1&2 (80:20) cargoes from the United States West Coast, indicating interest in purchasing material at \$535 per tonne cfr Vietnam.

Offers were heard at \$550 per tonne cfr Vietnam for such cargoes.

Offers for bulk Japanese H2 cargoes were at \$535-542 per tonne cfr Vietnam, although traders said no Vietnamese steelmaker was able to accept such a price for H2-quality scrap. A buyer source received offers at \$530 per tonne cfr Vietnam for Japanese H2 scrap.

"The [Kanto Tetsugen auction results](#) have supported offers but also caused some mixed sentiment on how much higher prices can go," a seller source in Vietnam told Fastmarkets.

Some doubt how high spot prices can go because downstream long steel prices have stabilized.

Vietnamese steelmakers had also bid at \$615 per tonne cfr for bulk Japanese Shindachi scrap, while bulk Japanese shredded scrap was offered at \$590 per tonne cfr Vietnam.

Bulk Hong Kong-origin H1&H2 (50:50) scrap was offered at \$525 per tonne cfr Vietnam.

There have been no bids heard yet for both Hong Kong-origin H1&H2 (50:50) cargoes or Japanese H2 cargoes.

Taiwan

There were transactions confirmed at \$470 per tonne cfr Taiwan, with other transactions possibly concluded at \$473 per tonne cfr Taiwan.

Offers were at \$475-477 per tonne cfr Taiwan, although buyers said there hadn't been any transactions concluded at this price yet.

Offers for bulk Japanese H1&H2 (50:50) were at \$530-540 per tonne cfr Taiwan. Freight costs are at \$60 per tonne from Japan to Vietnam.

"Given the large spread with containerized cargoes, there will be more interest in containerized materials," a buyer source in Taiwan said. He expects spot prices for containerized cargoes to continue to rise.

Fastmarkets' daily price assessment for containerized [steel scrap HMS 1&2 \(80:20 mix\) US material import, cfr main port Taiwan](#) was \$470-473 per tonne on Wednesday October 13, widening upward by \$3 per tonne from Tuesday.

China

Spot prices for steel scrap imported into China remained rangebound amid market participants in wait-and-see mode due to the losses in futures, sources told Fastmarkets on Wednesday October 13.

The most-traded rebar and hot-rolled coil futures contracts on the Shanghai Futures Exchange (SHFE) ended their day trading sessions lower by 4.69% and 1.73% respectively on Wednesday. The most-traded iron ore futures contracts on the Dalian Commodity Exchange (DCE) closed lower by 5.92%.

"It has already been very quiet in the imported scrap market [in China]. The finished futures prices tumbled, adding more uncertainties to scrap," a Japanese exporter source told Fastmarkets.

Bids for imported HRS101-grade steel scrap were heard at \$520-525 per tonne cfr north China on Wednesday. Offers from Japan remained at as high as \$615-630 per tonne cfr China, sources said.

"The market level for scrap has been quite high in Japan. Buyers from Malaysia were bidding at \$590 per tonne cfr for heavy scrap (HS) this week. It is higher than the price that Chinese buyers could afford, but it is still below the expectations from the sellers in Japan," a different Japanese exporter source told Fastmarkets.

Fastmarkets' calculation of the [steel scrap, index, heavy recycled steel materials, cfr north China](#) was at \$535.63 per tonne on October 13, up by \$1.25 per tonne from a day earlier.

India

On the Indian market, prices for shredded scrap continued to climb.

Fastmarkets' calculation of the [steel scrap, shredded, index, import, cfr Nhava Sheva, India](#) was \$535.75 per tonne on September 12, up from \$ 528.4 Per tonne on October 8, and from \$520.85 per tonne one week earlier.

Following a deal level of \$530 per tonne at the end of last week, offers rose to \$545 per tonne on Tuesday September 12, mirroring a rise in shredded prices on the nearby Pakistan market.

RUSSIA REBAR: Prices keep rebounding on low stocks and good demand

By Elina Virchenko - Wednesday 13 October

Domestic steel rebar prices in Russia's Central Federal District around Moscow continued increasing rapidly in the week to Monday October 11 on the back of low stocks and good demand, sources told Fastmarkets.

Fastmarkets' weekly price assessment for [steel reinforcing bar \(rebar\) domestic, cpt Moscow, Russia](#) was 60,000-62,000 roubles (\$835-863) per tonne cpt on October 11, including 20% value-added tax, up by 4,500-6,000 roubles (\$63-83) from 55,500-59,000 roubles per tonne [a week earlier](#).

The key suppliers to the region sold out their October volumes in the beginning of the month, and with November prices expected to reach higher

levels, they have been staying out of the market for now.

With key regional suppliers keeping quiet, buyers have had to search for alternative offers.

"Nobody was buying stock in the falling market. Now stocks are empty, and mills are taking advantage of the situation," a large stockist told Fastmarkets.

Prices from non-traditional suppliers to the region, Balakovo Metallurgical Plant, Abinsk Electric Steel Works (AESW) and Novorossiysk Rolling Plant (formerly Rostov Electrometallurgical Plant - Remz) were all heard at 61,000-62,000 roubles per tonne cpl Central Federal District around Moscow, up by 2,000-3,000 roubles per tonne versus 59,000 roubles per tonne cpl a week earlier.

Earlier market participants said that NLMK had considered a rebar price at the 59,000-60,000 rouble-per-tonne level.

By the end of the week ending Monday October 11, however, large stockists estimated that even higher levels, in the range of 60,000-63,000 roubles, were also likely to be accepted by buyers, considering the current prices in the secondary market.

In the secondary market, prices for rebar from large traders were around 64,000-66,000 roubles per tonne, increasing by 5,000-6,000 roubles per tonne compared with 58,000-61,000 roubles per tonne a week earlier.

IRON ORE DAILY: Seaborne prices fall after official confirmation of winter restrictions in China

By Alex Theo - Wednesday 13 October

Seaborne iron ore prices continued to fall on Wednesday October 13, after a formal announcement on upcoming winter restrictions by China's Ministry of Industry & Information Technology (MIIT).

Fastmarkets iron ore indices

62% Fe fines, cfr Qingdao: \$124.17 per tonne, down \$4.83 per tonne

62% Fe low-alumina fines, cfr Qingdao: \$125.09 per tonne, down \$5.08 per tonne

58% Fe fines high-grade premium, cfr Qingdao: \$93.04 per tonne, down \$5.47 per tonne

65% Fe Brazil-origin fines, cfr Qingdao: \$148.40 per tonne, down \$3.90 per tonne

62% Fe fines, fot Qingdao: 904 yuan per wet metric tonne (implied 62% Fe China Port Price: \$129.81 per dry tonne), down by 16 yuan per wmt

Key drivers

The most-traded January iron ore futures contract on the Dalian Commodity Exchange (DCE) was on a downtrend, ending 5% lower than Tuesday's closing price of 769.50 yuan (\$119) per tonne.

Iron ore forward-month swaps contracts on the Singapore Exchange (SGX) also fell and by 5:58pm Singapore time the most-traded November contract was down \$6.11 per tonne compared with Tuesday's settlement price of \$127.71 per tonne.

A formal announcement from MIIT was made on Wednesday, with the restrictions consistent with the [draft copy issued in early September](#), which has served to depress market sentiment ever since, according to sources.

The weakness in demand for iron ore will last until the first quarter of 2022 because of the Winter Olympics in Beijing next February, a northern China

trading source said.

At Chinese ports, around 1.07 million tonnes of iron ore were traded on Tuesday, down from 1.4 million tonnes on Monday, according to a Singapore-based trader, noting that trading activity generally on Wednesday was much lower than on Tuesday.

This suggests that steelmakers in China have already completed their post-holiday inventory replenishment, the trader added.

Quote of the day

"Sintering restrictions are just around the corner and this [is likely to affect] demand for iron ore. In addition, the winter restrictions will last up to February next year because of the Winter Olympic Games. Overall, sentiment in the iron ore market is still depressed," the northern China trading source said.

Trades/offers/bids heard in the market

BHP, Beijing Iron Ore Trading Center (Corex), 110,000 tonnes of 62.3% Fe Newman fines, traded at \$125.40 per tonne cfr China, laycan November 6-15.

BHP, Globalore, 80,000 tonnes of 62% Fe Mining Area C fines, traded at \$114.15 per tonne cfr China, laycan November 1-10.

BHP, Globalore, 90,000 tonnes of 62% Fe Mining Area C fines, traded at \$113.90 per tonne cfr China, laycan November 1-10.

Corex, 170,000 tonnes of 65.1% Fe Iron Ore Carajas fines, traded at the November average Fastmarkets' index for iron ore 65% Fe Brazil-origin fines, cfr Qingdao plus a premium of \$3.80 per tonne, bill of lading dated October 8.

Market participant indications

62% Fe fines, cfr Qingdao

Pilbara Blend fines: \$120.95-124 per tonne cfr China

Brazilian Blend fines: \$122-126 per tonne cfr China

Jimblebar fines: \$101.45-101.97 per tonne cfr China

65% Fe Brazil-origin fines, cfr Qingdao

Iron Ore Carajas: \$145-149 per tonne cfr China

Port prices

Pilbara Blend fines were traded at 870-900 yuan per wmt in Shandong province, Tangshan and Tianjin city on Wednesday, compared with 890-920 yuan per wmt on Tuesday.

The latest range is equivalent to about \$125-129 per tonne in the seaborne market.

Dalian Commodity Exchange

The most-traded January iron ore futures contract closed at 731 yuan (\$113) per tonne on Wednesday, down by 38.50 yuan per tonne from Tuesday's close.

Alice Li in Shanghai contributed to this article.

COKING COAL DAILY: Prices inch down in fob market due to weak buying interest

By Alice Li - Wednesday 13 October

Seaborne coking coal prices in the cfr China market were broadly stable on Wednesday October 13, while fob prices inched lower amid limited buying interest due to high offers, market sources said.

Fastmarkets indices

Premium hard coking coal, cfr Jingtang: \$608.85 per tonne, down \$0.10 per tonne

Hard coking coal, cfr Jingtang: \$559.46 per tonne, up \$1.16 per tonne

Premium hard coking coal, fob DBCT: \$405.55 per tonne, down \$0.75 per tonne

Hard coking coal, fob DBCT: \$347.34 per tonne, unchanged

Most market participants adopted a wait-and-see stance in the seaborne coking coal market on Wednesday.

A few mills from southern China and some traders showed buying interest for Russia K10 coking coal (VM 19%, CSR 45%) during two tenders from Tuesday, according to a Shanghai-based trader. No results had been heard at the time of publication.

Some mills received offers for a new brand hard coking coal from the United States at about \$500 per tonne cfr China on Wednesday, market sources said.

"The offer price is very attractive [compared with] other brands, but both traders and mills are hesitant to try the new cargo," a trader source from Beijing said.

A Panamax-vessel of premium low-volatility (PLV) hard coking coal from the United States was traded at about \$605-610 per tonne cfr China on Tuesday, to be loaded in November, several sources said.

The fob Australia coking coal market was quiet on Wednesday amid elevated offer levels and weak buying interest.

The offer for PLV has been about \$410 per tonne fob Australia in the Globalcoal trading platform since October 12, with no active bids reported, market sources told Fastmarkets.

A Vietnam-based trader said they were looking for Australia coking coal resold from China's ports because those cargoes are usually cheaper than current spot prices.

"Chinese sellers would not lose money by reselling Australia coal in the current market, but they need to pay the demurrage fees at ports," the trader said.

"The PLV price may increase or stay stable by this weekend, but will drop next week because a few major buyers are trying to bid at low levels amid the high offers," an India-based mill source said.

No deals were reported in the fob Australia market on Wednesday.

Dalian Commodity Exchange

The most-traded January coking coal futures contract closed at 3,475 yuan (\$538.56) per tonne on Wednesday, up by 9.50 yuan per tonne day on day.

The most-traded January coke contract closed at 3863 yuan per tonne on Wednesday, up by 84 yuan per tonne day on day.

RUSSIA FLAT STEEL: Mill plans to raise HR sheet, plate prices likely to face buyer resistance

By Elina Virchenko - Wednesday 13 October

Steel mills announced price increases for November-delivery hot-rolled sheet and heavy plate in Russia's Central District around Moscow on Monday October 11, but are likely to face stiff opposition from buyers, sources told Fastmarkets this week.

Market participants said they doubted that such fast rates of increase could be absorbed by the market, especially considering the onset of the off season for demand, which runs from November to March, and the already-sufficient stock levels at distributors.

Hot-rolled sheet

Fastmarkets' [weekly price assessment for steel hot-rolled sheet domestic, cpt Moscow, Russia](#) was 67,000-70,000 roubles (\$933-975) per tonne on Monday, inclusive of a 20% value-added tax, up by 2,000-3,000 (\$28-42) from 65,000-70,000 roubles per tonne cpt a week earlier.

HR sheet was on offer from Novolipetsk Steel (NLMK) at 67,000 roubles per tonne cpt for redemption during October for traders with safe-stocking agreements.

Certain traders have safe-stock agreements with mills, whereby they receive the material into their inventory without advance payment. They can then buy agreed tonnages from this inventory at any time at the prevailing price.

One trader said the cut-to-length line at NLMK was being repaired, reducing HR sheet output.

Other mills had already set their November prices at 3,000-5,000 roubles higher than October levels, trying to prepare the market in advance for price increases.

HR sheet from Magnitogorsk Iron & Steel Works (MMK) was on offer at 70,000 roubles per tonne cpt for November delivery, up by 3,000 roubles compared with its October level.

Severstal, meanwhile, announced that its November deliveries would be available at 72,000 roubles per tonne cpt - up by 5,000 roubles per tonne from October - but traders questioned whether the increase would materialize.

There was a lack of interest from buyers in booking November quantities because secondary market prices have continued to slide, mainly because there are sufficient stocks but also because of the upcoming low season for trading from November to March.

"There is no longer any shortage of HR sheet [at distributor warehouses and] we have sufficient quantities [to trade]," a trader told Fastmarkets.

In the secondary market, prices for HR sheet from large traders were at 64,000-70,000 roubles per tonne cpt on Monday, down by 4,000 roubles per tonne from 68,000-74,000 roubles per tonne three weeks earlier.



Cold-rolled sheet

Prices for cold-rolled sheet decreased again, however, with Fastmarkets' [weekly price assessment for steel cold-rolled sheet domestic, cpt Moscow, Russia](#) at 76,700-77,000 roubles (\$1,066-1,073) per tonne on Monday, down by 1,300-2,000 roubles per tonne from 78,000-79,000 roubles per tonne cpt a week earlier.

CR sheet from Severstal was on offer at 77,000 roubles per tonne cpt, while NLMK was offering the material at 76,700 roubles per tonne.

There was limited interest from buyers, however, due to the end of the peak construction season.

Plate

Plate prices in the region, meanwhile, increased in line with the uptick in HR sheet.

Fastmarkets' [weekly price assessment for steel plate, domestic, cpt Moscow, Russia](#) was 70,000 roubles per tonne on Monday, up by 3,000 roubles per tonne from 67,000 roubles per tonne a week earlier.

Heavy plate from Magnitogorsk Iron & Steel Works (MMK) was available at 70,000 roubles per tonne cpt on Monday, up by 3,000 roubles per tonne from 67,000 roubles per tonne a week earlier.

One large stockist said that the offer price for heavy plate from Asha Steel was 70,000 roubles per tonne cpt, although a trader said that, due to maintenance in the first half of October, Asha Steel was not actively offering material.

Plate from Ukraine's Metinvest was on offer for November-December delivery at 70,000 roubles per tonne cpt on Monday, up by 4,000 roubles per tonne one week earlier.

CHINA HRC: Prices on rollercoaster ride amid supply uncertainty

By Zihuan Pan - Wednesday 13 October

Domestic hot-rolled coil prices in China moved within a wide range on Wednesday October 13, after futures took a rollercoaster ride amid an uncertain outlook for supply and demand.

Domestic

[Eastern China \(Shanghai\)](#): 5,700-5,880 yuan (\$885-913) per tonne, widening by 50-120 yuan per tonne

The most-traded HRC contract on the Shanghai Futures Exchange extended its losses to an intraday low of 5,482 yuan per tonne - its lowest since September 27 - in morning trade on Wednesday.

The weakness was driven by expectations that supply will increase after the easing of [power cuts](#) in Jiangsu province in eastern China, Guangdong in southern China and Guangxi in the southwest, according to a Shanghai-based industry analyst.

The possible easing of production curbs in those regions came after Beijing urged for the correction of "one-size-fits-all" or "campaign-style" practices to cut carbon emissions over the weekend.

The futures contract later rebounded to an intraday high of 5,798 yuan per tonne, before giving back those gains to finish the day largely flat from the previous day's close.

The outlook for steel supply in China remains uncertain, a second industry analyst said, noting Beijing's decarbonization drive, the goal of keeping the country's 2021 production of crude steel from exceeding last year's volume,

lingering energy usage curbs on [projects with high levels of energy consumption and pollution](#), and the attempt to ensure a blue sky for the upcoming [heating season](#) and [Winter Olympics](#) are likely to keep production subdued.

For the first eight months of 2021, China's output crude steel increased by 5.3% from a year earlier, according to data from the country's National Bureau of Statistics.

Analysts believed that positive data from the demand side partially contributed to the temporary price rally.

China's production of automobiles - a key downstream user of HRC - rose by 20.4% month on month to [2.08 million units in September](#), though the decline on a yearly basis continued, the China Association of Automobile Manufacturers (CAAM) said on Tuesday.

Trading activity for spot HRC in the domestic market on Wednesday picked up after prices climbed, traders told Fastmarkets.

Export

[Fastmarkets' steel hot-rolled coil index export, fob main port China](#): \$921.78 per tonne, unchanged

Despite volatile domestic prices, traders held their offers and estimates of achievable levels for transactions stable on Wednesday, while trading activity remained muted.

Offers for SS400 HRC were mostly steady at \$925-930 per tonne fob China, but no deals were reported to Fastmarkets.

Traders continued to see little opportunity for Chinese material in the international market, given much cheaper offers for cargoes [from other origins](#).

Data released by China's General Administration of Customs on Wednesday morning showed that the country's exports of finished steel decreased by 133,000 tonnes from August to 4.92 million tonnes in September, marking the third straight month-on-month decline.

A transaction concluded on Wednesday at \$840-843 per tonne cfr Vietnam for 120,000 tonnes, or 4 vessels of 35,000 tonnes each, of Russian HRC from Magnitogorsk Iron & Steel (MMK).

This is equivalent to \$800 per tonne fob.

Sellers had been offering MMK's HRC at \$850-860 per tonne cfr Vietnam previously, with buyers hesitating to book materials until after Formosa Ha Tinh Steel Corp's latest price announcement.

Market chatter

"Steel prices will likely halt their decline if spot demand could pick up following a seasonal recovery," a Fujian-based industry analyst said.

Shanghai Futures Exchange

The most-traded January HRC contract ended at 5,619 yuan per tonne on Wednesday, down by 5 yuan from [Tuesday's close](#).

Cadence Minerals gets approval for restart of Amapa iron ore project

By Alice Li - Wednesday 13 October

London-listed Cadence Minerals has obtained the approval of its credit committee to put the Amapa iron ore project in Brazil back on track, according to local news reports earlier this week.

The project produces iron ore beneficiated to 65% Fe pellet feed and 62% Fe concentrate.

Based on available historical mining plans and an independent consultant review, Amapa is expected to have a full production mine life of 14 years and will be able to produce up to 5.3 million tonnes per year at capacity, according to a statement from Cadence on Monday October 11.

“We have now received the credit committee approval for the secured bank creditors to execute the settlement agreement, which means we have a clear path and process to get Amapa re-commissioned, licensed and back into production,” Cadence chief executive Kiran Morzaria said.

The Amapa project is a large-scale open-pit ore mine with associated rail, port and beneficiation facilities that started operations in December 2007.

The project produced 4.8 million tonnes of iron ore concentrate in 2011 and 6.1 million tonnes in 2012 respectively when it was owned by Anglo American.

Fastmarkets’ index for [iron ore 65% Fe Brazil-origin fines, cfr Qingdao](#) was at \$152.30 per tonne on Tuesday October 12, down by \$7.70 per tonne day on day.

CHINA REBAR: Prices drop sharply on rising inventory levels

By Jessica Zong - Wednesday 13 October

Domestic rebar prices in China decreased sharply on Wednesday September 13 due to rising inventory levels and an outlook of higher production rates.

Domestic

[Eastern China \(Shanghai\)](#): 5,720-5,760 yuan (\$887-893) per tonne, down by 200 yuan per tonne

Spot market inventories of rebar in 20 major Chinese cities totaled 5.13 million tonnes on October 10, up by 60,000 tonnes from September 30, according to data released by the China Iron and Steel Association on Wednesday.

And market participants expect this month’s rebar output will be higher than September after the Ministry of Industry and Information Technology announced on September 29 that it would make every effort to increase power supply for the upcoming autumn and winter months.

This outlook of increased supply, coupled with weakened demand, stoked bearishness in the rebar market, pushing down prices in both the futures and spot markets.

Market chatter

“The buying interest was stimulated by the low price and futures’ recovery after it dropped to today’s low of 5,267 yuan per tonne,” a trader in Shanghai said.

Billet

As at 3pm, billet was being traded at 5,300 yuan per tonne including value-added tax in Tangshan, down by 30 yuan per tonne from a day earlier.

Shanghai Futures Exchange

The most-traded January rebar futures contract closed at 5,421 yuan per tonne on Wednesday, down by 141 yuan per tonne from a day earlier.

IN FIGURES: China's steel imports surge in September

By Tianran Zhao - Wednesday 13 October

China’s imports of finished steel products increased by 18.2% month on month in September, preliminary Chinese customs data showed on Wednesday October 13.

September exports: 4.92 million tonnes, down by 2.6% from [August 2021](#), up by 28.5% from [September 2020](#)

January-September exports: 53.02 million tonnes, up by 31.3% year on year
September imports: 1.26 million tonnes, up by 18.2% month on month, down by 56.5% from September 2020

January-September imports: 10.72 million tonnes, down by 28.9% year on year

Chinese steel plate export prices rise after holiday in China

By Alice Li - Wednesday 13 October

Export prices for Chinese heavy steel plate increased in the week to Tuesday October 12 amid higher steelmaking raw material costs.

Sellers issued higher offers after China’s October 1-7 National Day holiday, though no trades were heard in the past week.

Fastmarkets’ weekly price assessment for November/December shipments of [steel heavy plate, export, fob China main port](#) was \$925-940 per tonne on Tuesday, up by \$30 per tonne from [two weeks earlier](#).

Hebei Puyang Iron & Steel is offering December-shipment heavy plate at \$960 per tonne fob this week, sources said on Tuesday.

Yingkou Medium Plate issued an offer of \$925 per tonne fob for heavy plate to be shipped within 60 days on the same day. This is up by \$15 per tonne week on week.

Inner Mongolia’s Baotou Iron & Steel, Shandong Iron & Steel, Shagang and Anshan Iron & Steel did not issue any export offers for steel products this week, several traders said on Tuesday.

“They haven’t been issuing export offers recently and are focusing on the domestic market since the government is encouraging mills to keep more supply for the domestic market,” one of the sources said.

Fastmarkets’ weekly price assessment for [steel plate, domestic, delivered whs Eastern China](#) was 5,770-5,850 yuan (\$895-907) per tonne last Friday October 8, up by 120-140 yuan per tonne from 5,650-5,710 yuan per tonne a week earlier.

Port Hedland iron ore shipments climb 3% in Sep

By Alex Theo - Wednesday 13 October

Iron ore shipments from Australia's Port of Port Hedland rose by 3.1% in September from a year earlier, according to data released by the Pilbara Ports Authority on Tuesday October 12.

The port on the northern coast of Western Australia exported 47 million tonnes of iron ore last month, compared with 45.6 million tonnes a year earlier.

Last month's shipments were also 7% higher than [August's 43.9 million](#)

tonnes.

Shipments to China from the Port of Port Hedland totaled 38.6 million tonnes in September, down by 2.8% from 39.7 million tonnes a year earlier but up by 7.5% from August's 35.9 million tonnes.

"September shipments into China from Australia are typically higher compared with August. This was likely driven by [the] re-stocking exercise by Chinese steelmakers ahead of the week-long Golden Week holiday which started from October 1," a trading source in Singapore said.

Fastmarkets' [index for iron ore 62% Fe fines, cfr Qingdao](#) averaged \$120.16 per tonne in September, down by \$3.39 per tonne (2.7%) from September 2020's average of \$123.55 per tonne, but down by \$39.50 per tonne (24.7%) from August's average of \$159.66 per tonne.

Industrial minerals

Westwater reveals plans for \$202m spherical graphite project

By Jon Stibbs - Wednesday 13 October

Westwater Resources, a United States-based battery grade graphite development company, announced on October 11 that it had won director approval to invest \$202 million to construct phase I of its Coosa graphite project, with building to start before the end of 2021.

The project will extract and refine graphite concentrates with 95-97% graphitic carbon (Cg) content to make coated spherical purified graphite (ULTRA-CSPG™) for lithium-ion batteries.

Under the company's definitive feasibility study, the project will process approximately 8,050mt per year of graphite concentrate when it goes into operation in early 2023.

The company expects this to yield 3,700mt per year of coated spherical graphite and 3,800mt per year of fine products as a result of the spherical graphite milling.

Westwater plans to win approval to ramp up its processing capacity to approximately 35,200mt per year in 2024.

This would result in 15,800mt per year of coated spherical graphite and 16,600mt per year of fine products as a result of the spherical graphite milling.

Currently, production of spherical graphite is dominated by China and several companies around the world are moving into production to meet increased demand from the anode battery sector for electric vehicles.

Fastmarkets' price assessment for uncoated [graphite spherical 99.95% C, 15 microns, fob China](#) was \$2,500-2,900 per tonne on October 7.

Westwater states its process to purify graphite to 99.95 % Cg and then into battery grade coated spherical purified graphite uses relatively low temperatures and readily available industrial reagents and is superior to processes used in China and elsewhere in terms of environmental safety, the company said.

The company plans to acquire feedstock from outside sources until at least 2028 but it is considering developing the Coosa graphite deposit.

Several emerging spherical graphite producers, such as [Syrax Resources](#), are working on an integrated model using their own graphite concentrates and developing downstream.

Spanish stainless long steel producer suspends operations due to energy price spike

By IM Staff - Wednesday 13 October

A sharp rise in electricity prices has forced Spanish stainless long steel producer Sidenor Aceros Especiales to suspend production, Fastmarkets has heard.

The company will be paying €227 (\$263) per MWh in October, but for November and December the power prices have been forecast to surge upward to €284 per MWh. This would be sharply up from last year's electricity price of €60 per MWh.

Such a jump in energy prices will add about €200 per tonne to the cost of steel, Sidenor said. As a result, it decided to suspend operations for 20 days starting from October 11, according to a company press release.

"Activity will be stopped for 20 days - 30% of scheduled production days - from now until December 31 of this year," the release read. "This directly and immediately affects the main Basauri plant, but it will also progressively affect the rest of [our] plants."

Sidenor's main Basauri plant is located in the Basque region of northern Spain. It produces stainless steel bars and rods using an electric-arc furnace with capacity for 900,000 tonnes per year.

The company said that the suspension of operations would help it to limit the "tremendous impact" of high electricity costs on its business. But Sidenor claimed that further measures would be absolutely necessary "if the current [scenario] of lack of control [over] electricity prices persists."

The producer did not specify what these measures might be, but market sources suggested that steel mills in Europe might turn to their local governments for funds to compensate for the rocketing cost of power.

Sharp increases in energy prices have forced European steelmakers to look for ways to compensate for surging production costs but, as Fastmarkets has reported, mills lack a unified approach to the problem.

CHINA AUTO: Output, sales fall in Sep amid chip shortage, energy controls

By Carrie Shi - Wednesday 13 October

China's output and sales of automobiles declined in September on an annual basis amid a shortage of semiconductor chips and the country's "dual control" energy-consumption policy, the China Association of Automobile Manufacturers (CAAM) said in its monthly report published on Tuesday October 12.

Carmakers in China produced 2.08 million units in September, up by 20.4% month on month but down by 17.9% year on year, CAAM data shows. Similarly, sales amounted to 2.07 million units last month, an increase of 14.9% month on month but down by 19.6% from a year earlier.

A lack of semiconductor chips continued to choke car production in September, though the shortage eased somewhat, allowing for output to grow from a month earlier. But a high comparison base in September 2020 resulted in declines on an annual basis, CAAM said.

China's "dual control" energy-consumption policy also constrained car production, the association added.

The country's output and sales of new energy vehicles (NEVs) hit new record highs in September. Production of NEVs in China rose by 14.5% month on month and 148.4% year on year to 353,000 units last month. Sales of such vehicles rose by 11.4% month on month and 148.4% year on year to 357,000 units.

The data from CAAM also shows that China exported 173,000 automobiles in September, a decrease of 7.5% from the prior month but up by 74% year on year.

Fastmarkets reviews how prices for key raw materials for the automotive sector in China developed over the past month.

CRC prices supported by subdued supply

In the upstream markets, Fastmarkets' weekly price assessment for steel cold-rolled coil, domestic, delivered Eastern China, was 6,500-6,530 yuan (\$1,007-1,012) per tonne on October 8, up by 30-50 yuan per tonne from 6,450-6,500 yuan per tonne on September 10.

CRC prices remained supported by expectations that supply will remain subdued amid Beijing's decarbonization drive, according to a Shanghai-based industry analyst.

Production curbs are unlikely to be greatly eased while China aims to keep its 2021 production of crude steel from exceeding last year's volume. For the first eight months of 2021, China's output crude steel increased 5.3% from a year earlier, according to data from the country's National Bureau of Statistics.

China's attempt to reduce emissions during the upcoming heating season and the Winter Olympics in February will also keep production in the north of the country subdued, the analyst added.

Major Chinese steel mill Baoshan Iron & Steel kept its base prices for CRC bookings in November unchanged month on month.

High prices, on the other hand, kept downstream users cautious about purchasing CRC.

"CRC prices are expected to gain limited upward momentum from the modest increase in car production," a Tianjin-based trader said.

Lithium, cobalt strengthen, while nickel sulfate softens

With optimism toward an EV boom globally and forecast tight availability of lithium in the near and medium terms, cathode materials producers in China actively restocked lithium compounds in the latter stages of the third quarter, which provided continuous support to lithium prices in the country.

Fastmarkets' assessment of the lithium carbonate 99.5% Li₂CO₃ min, battery grade, spot price range, ex-works domestic China was at 175,000-190,000 yuan per tonne on October 7, up from 140,000-150,000 yuan per tonne on September 9.

Fastmarkets' assessment of the lithium hydroxide monohydrate, 56.5% LiOH.H₂O min, battery grade, spot price range, exw domestic China was 170,000-180,000 yuan per tonne on October 7, up from 145,000-155,000 yuan per tonne a month earlier.

The rally in lithium prices has hindered buying appetite among certain consumers, while others were still keen to build up stocks despite the price gains in order to fulfil commitments to their downstream customers.

The range of offers in the spot market was wide, with certain suppliers who had limited stock on hand intending to raise their offers aggressively, market participants told Fastmarkets.

The price of cobalt sulfate in China, another key raw material for batteries, trended upward in September, underpinned by rising production costs despite a slowdown in demand at the end of the month due to energy-consumption controls in several Chinese provinces, which impacted production among some downstream cathode makers.

Fastmarkets' price assessment for cobalt sulfate, 20.5% Co basis, exw China was 85,000-87,000 yuan per tonne on October 8, up by 1,000-2,000 yuan per tonne from 84,000-85,000 yuan per tonne October 6. The price stood at 76,000-79,000 yuan per tonne on September 1.

"Feedstock (cobalt hydroxide) prices have been soaring. Prices of other raw materials also increased. Current cobalt sulfate prices can't cover production costs. We have to insist on higher offers even though it's hard for downstream buyers to accept them," a cobalt sulfate producer said.

"Some downstream cathode makers in several provinces reduced production at the end of September due to power cuts policy in China, which caused reducing demand for upstream raw materials in some degree. But supported by high production cost, cobalt sulfate prices have remained firm," a second cobalt sulfate producer said.

Fastmarkets' calculation of cobalt hydroxide index, 30% Co min, cif China stood at \$23.02 per lb on October 8, up by \$0.50 per lb from \$22.52 per lb a week earlier. The price stood at \$21.07 per lb on September 3.

But China's nickel sulfate market experienced a downtrend in September amid easing raw material tightness, while the stricter "dual control" energy-consumption policy in China also affected demand from downstream cathode and precursors producers.

Fastmarkets assessed the price of nickel sulfate min 21%, max 22.5%; cobalt 10ppm max, exw China at 36,000-36,500 yuan per tonne on October 8, narrowing downward from 36,000-37,000 a week earlier, and also down from 36,500-38,000 yuan per tonne on September 10.

An increase in the supply of mixed hydroxide precipitate (MHP) - the main raw material used to produce nickel sulfate by Chinese battery raw materials producers - dragged down prices for nickel sulfate in September.

The increase is mainly caused by the high production capacity of Chinese MHP producer Lygend's Indonesia project, along with the other recent ramping up projects in New Caledonia, market sources told Fastmarkets.

Meanwhile, the China's "dual control" energy-consumption policy has caused a disruption in the battery raw materials supply chain and also reduced the demand of nickel sulfate, which put more pressure on the materials' price at

the end of September.

CHINA AUTO MARKET CHANGES (September 2021)						
	Output			Sales		
	units (mln)	year-on-year change	month-on-month change	units (mln)	year-on-year change	month-on-month change
Overall auto (Sep)	2.08	▼17.9%	▲20.4%	2.07	▼19.6%	▲14.9%
Overall auto (Jan-Sep)	18.24	▲7.5%	N/A	18.62	▲8.7%	N/A
Passenger vehicle (Sep)	1.77	▼13.9%	▲18.1%	1.75	▼16.5%	▲12.8%
Passenger vehicle (Jan-Sep)	14.66	▲10.7%	N/A	14.86	▲11%	N/A
Commercial vehicle (Sep)	0.31	▼35.2%	▲35.5%	0.32	▼33.6%	▲28.2%
Commercial vehicle (Jan-Sep)	3.59	▼4.0%	N/A	3.76	▲0.5%	N/A
Electric vehicle (Sep)	0.35	▲148.4%	▲14.5%	0.36	▲148.4%	▲11.4%
Electric vehicle (Jan-Sep)	2.17	▲184.5%	N/A	2.16	▲185.3%	N/A

Source: China Association of Automobile Manufacturers

Pilbara Minerals produces first spodumene concentrate at Ngungaju plant

By IM Staff - Wednesday 13 October

Australia’s Pilbara Minerals has produced its first spodumene concentrate from the coarse production circuit at its Ngungaju plant in the country, the company said on Wednesday October 13.

In June, the Australia-listed miner announced a restart of what was formerly known as the Altura Pilgangoora lithium project, which it renamed as Ngungaju after completing its acquisition of the asset in January.

Pilbara Minerals said it would continue to progress the staged restart and ramp-up of production at the Ngungaju processing facilities, with production from the fines concentrate circuit expected to commence in the first quarter of 2022.

The miner is looking to take Ngungaju’s annual capacity to approximately 180,000-200,000 dry metric tonnes (dmt) by mid-2022.

Production from the Ngungaju plant is uncommitted to offtake, Pilbara Minerals said. This should support further sales into the emerging spot market for spodumene concentrate, including via its Battery Materials Exchange (BMX) digital sales platform, it said.

Bids reached \$2,240 per dmt during the miner’s second auction of spodumene concentrate on the platform on September 14.

Fastmarkets’ assessment of spodumene min 6% Li₂O, cif China was \$2,000-2,500 per tonne on September 30, up by 91.49% from \$1,050-1,300 per tonne on August 25. The price will next be assessed on October 14 following Fastmarkets’ amendment of its spodumene pricing frequency.

Base metals prices

Source: dashboard.fastmarkets.com/m/d7d11f17-248b-4073-82c4-f750b2994d8e

Aluminium prices & premiums

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-AL-0343	Aluminium P1020A (MJP) spot premium, cif Japan, \$/tonne	12 Oct 2021	185 - 200	0.00%	Sep 2021	175.63 - 188.75
MB-AL-0001	Aluminium P1020A (MJP) quarterly premium, cif Japan, \$/tonne	05 Oct 2021	215 - 220	21.85%	Sep 2021	172 - 185
MB-AL-0344	Aluminium P1020A premium, cif South Korea, \$/tonne	12 Oct 2021	175 - 185	0.00%	Sep 2021	142.5 - 152.5
MB-AL-0307	Aluminium P1020A premium, fca South Korea, \$/tonne	12 Oct 2021	190 - 200	0.00%	Sep 2021	157.5 - 167.5
MB-AL-0329	Aluminium P1020A premium, cif Taiwan, \$/tonne	05 Oct 2021	190 - 215	1.25%	Sep 2021	180 - 205
MB-AL-0328	Aluminium P1020A premium, bonded in-whs, Shanghai, \$/tonne	28 Sep 2021	170 - 190	0.00%	Sep 2021	170 - 190
MB-AL-0345	Aluminium P1020A premium, cif Shanghai, \$/tonne	28 Sep 2021	180 - 200	11.76%	Sep 2021	180 - 200
MB-AL-0346	Aluminium P1020A premium, in-whs dup Rotterdam, \$/tonne	13 Oct 2021	295 - 305	0.00%	Sep 2021	299.77 - 310
MB-AL-0004	Aluminium P1020A premium, in-whs dp Rotterdam, \$/tonne	12 Oct 2021	365 - 380	0.00%	Sep 2021	377.5 - 388.13
MB-AL-0316	Aluminium P1020A premium, fca dp Italy, \$/tonne	12 Oct 2021	430 - 440	0.00%	Sep 2021	433.75 - 443.75
MB-AL-0319	Aluminium P1020A premium, fca dp Spain, \$/tonne	05 Oct 2021	435 - 445	0.00%	Sep 2021	430 - 440
MB-AL-0021	Aluminium P1020A premium, delivered Sao Paulo region, \$/tonne	05 Oct 2021	400 - 420	7.89%	Sep 2021	360 - 400
MB-AL-0022	Aluminium P1020A premium, cif dup Brazilian main ports, \$/tonne	05 Oct 2021	420 - 450	6.10%	Sep 2021	390 - 410
MB-AL-0020	Aluminium P1020A premium, ddp Midwest US, US cents/lb	12 Oct 2021	34.75 - 36	0.00%	Sep 2021	34.5 - 36
MB-AL-0231	Aluminum P1020A all-in price, delivered Midwest US, US cents/lb	13 Oct 2021	173.77 - 175.02	-0.37%	Sep 2021	163.24 - 164.74
MB-AL-0337	Aluminium P1020A premium, cif dup Turkey, \$/tonne	05 Oct 2021	320 - 330	-2.99%	Sep 2021	325 - 335
MB-AL-0381	Aluminium low-carbon differential P1020A, Europe, \$/tonne	01 Oct 2021	0 - 7	40.00%	Sep 2021	0 - 5
MB-AL-0378	Aluminium P1020A premium, in-whs dp Rotterdam, inferred low-carbon midpoint, \$/tonne	12 Oct 2021	376	0.00%	Sep 2021	385.31
MB-AL-0377	Aluminium P1020A premium, in-whs dup Rotterdam, inferred low-carbon midpoint, \$/tonne	13 Oct 2021	303.5	0.00%	Sep 2021	307.39
MB-AL-0333	Aluminium P1020A warrant premium, in-whs Southeast Asia, \$/tonne	13 Oct 2021	50 - 100	11.11%	Sep 2021	48 - 87
MB-AL-0334	Aluminium P1020A, warrant premium, in-whs East Asia, \$/tonne	13 Oct 2021	65 - 100	0.00%	Sep 2021	54 - 87
MB-AL-0338	Aluminium P1020A warrant premium, in-whs US, \$/tonne	13 Oct 2021	115 - 125	0.00%	Sep 2021	115 - 125
MB-AL-0297	Aluminium 6063 extrusion billet premium, cif Thailand, \$/tonne	24 Sep 2021	465 - 485	25.00%	Sep 2021	465 - 485
MB-AL-0298	Aluminium 6063 extrusion quarterly billet premium, cif MJP, \$/tonne	16 Jul 2021	150 - 175	4.84%	Sep 2021	150 - 175
MB-AL-0302	Aluminium 6063 extrusion billet premium, ddp North Germany (Ruhr region), \$/tonne	08 Oct 2021	1400 - 1450	3.64%	Sep 2021	1300 - 1350
MB-AL-0300	Aluminium 6063 extrusion billet premium, ddp Italy (Brescia region), \$/tonne	08 Oct 2021	1400 - 1450	3.64%	Sep 2021	1300 - 1350
MB-AL-0299	Aluminium 6063 extrusion billet premium, ddp Spain, \$/tonne	08 Oct 2021	1400 - 1450	3.64%	Sep 2021	1315 - 1365
MB-AL-0002	Aluminium 6063 extrusion billet premium, in-whs dp Rotterdam, \$/tonne	08 Oct 2021	1360 - 1410	3.75%	Sep 2021	1260 - 1310
MB-AL-0296	Aluminium 6063 extrusion billet premium, cif Turkey (Marmara region), \$/tonne	08 Oct 2021	700 - 750	0.00%	Sep 2021	700 - 750
MB-AL-0052	Aluminum 6063 extrusion billet premium, delivered Midwest US, US cents/lb	08 Oct 2021	23 - 27	0.00%	Sep 2021	23 - 27



Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-AL-0287	Aluminium 6063 & 6060 extrusion billet premium, cif Brazilian main ports, \$/tonne	08 Oct 2021	650 - 700	6.30%	Sep 2021	610 - 650
MB-AL-0382	Aluminium low-carbon differential value-added product, Europe, \$/tonne	01 Oct 2021	20 - 30	25.00%	Sep 2021	15 - 25
MB-AL-0379	Aluminium 6063 extrusion billet premium, ddp Italy (Brescia region), inferred low-carbon midpoint, \$/tonne	08 Oct 2021	1450	3.57%	Sep 2021	1345
MB-AL-0380	Aluminium 6063 extrusion billet premium, ddp North Germany (Ruhr region), inferred low-carbon midpoint, \$/tonne	08 Oct 2021	1450	3.57%	Sep 2021	1345
MB-AL-0341	Aluminium primary foundry alloy silicon 7 ingot premium, cif dup over P1020A Turkey, \$/tonne	08 Oct 2021	400 - 490	30.88%	Sep 2021	330 - 350
MB-AL-0349	Aluminium primary foundry alloy silicon 7 ingot annual premium, cif MJP, \$/tonne	15 Jan 2021	100 - 120	-15.38%	Sep 2021	100 - 120
MB-AL-0348	Aluminium primary foundry alloy silicon 7 ingot annual premium, cif main South Korean ports, \$/tonne	15 Jan 2021	90 - 120	0.00%	Sep 2021	90 - 120
MB-AL-0342	Aluminium primary foundry alloy silicon 7 ingot /T-bar premium, dlvd dup over P1020A Midwest US, US cents/lb	08 Oct 2021	11 - 13	0.00%	Sep 2021	11 - 13
MB-AL-0340	Aluminium primary foundry alloy silicon 7 ingot premium, ddp Eastern Europe, \$/tonne	08 Oct 2021	800 - 900	45.30%	Sep 2021	550 - 620
MB-AL-0339	Aluminium primary foundry alloy silicon 7 ingot premium, ddp Germany, \$/tonne	08 Oct 2021	800 - 900	45.30%	Sep 2021	550 - 620
MB-AL-0045	Aluminum 6061 alloyed ingot, US cents/lb	01 Oct 2021	1.78 - 1.84	5.85%	Sep 2021	1.68 - 1.73
MB-AL-0046	Aluminum 6063 alloyed ingot, US cents/lb	01 Oct 2021	1.86 - 1.92	5.59%	Sep 2021	1.76 - 1.81
MB-AL-0277	Aluminum alloy C355.2 ingot, delivered, \$/lb	13 Oct 2021	1.99	0.51%	Sep 2021	1.88
MB-AL-0289	Aluminium import arbitrage, \$/tonne	13 Oct 2021	(53.64)		Sep 2021	21.42
MB-AL-0290	Aluminium import arbitrage, yuan/tonne	13 Oct 2021	(346.79)		Sep 2021	138.62
MB-AL-0256	Aluminium fixing price for LME trade, rand/tonne	13 Oct 2021	45941.6	-0.02%	Sep 2021	41282.98

Metallurgical bauxite & alumina prices

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-ALU-0010	Alumina index inferred, fob Brazil, \$/dmt	13 Oct 2021	516	-1.08%	Sep 2021	422.06
MB-ALU-0003	Alumina index adjustment to fob Australia index, Brazil, \$/dmt	07 Oct 2021	34.69	3.24%	Sep 2021	33.99
MB-ALU-0002	Alumina index, fob Australia, \$/tonne	13 Oct 2021	481.31	-1.16%	Sep 2021	390.9
MB-ALU-0001	Alumina metallurgical grade, exw China, yuan/tonne	07 Oct 2021	3800 - 4000	0.00%	Sep 2021	3310 - 3550
MB-BX-0015	Bauxite, fob Trombetas, Brazil, \$/dmt	16 Sep 2021	32	0.00%	Sep 2021	32
MB-BX-0014	Bauxite, fob Kamsar, Guinea, \$/dmt	16 Sep 2021	29	0.00%	Sep 2021	29

Copper prices & premiums

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-CU-0412	Copper EQ cathode premium, cif Shanghai, \$/tonne	05 Oct 2021	15 - 35	0.00%	Sep 2021	10 - 27.5
MB-CU-0411	Copper EQ cathode premium, cif Europe, \$/tonne	05 Oct 2021	10 - 30	0.00%	Sep 2021	10 - 30
MB-CU-0369	Copper grade A cathode premium, cif Rotterdam, \$/tonne	05 Oct 2021	45 - 55	0.00%	Sep 2021	45 - 55
MB-CU-0372	Copper grade A cathode premium, delivered Germany, \$/tonne	05 Oct 2021	75 - 90	0.00%	Sep 2021	75 - 90
MB-CU-0406	Copper grade A cathode premium, cif Leghorn, \$/tonne	05 Oct 2021	70 - 80	-3.23%	Sep 2021	67.5 - 80



Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-CU-0380	Copper grade A cathode ER premium, cif Shanghai, \$/tonne	13 Oct 2021	115 - 125	-2.04%	Sep 2021	88.14 - 97
MB-CU-0383	Copper grade A cathode ER premium, bonded in-whs Shanghai, \$/tonne	13 Oct 2021	130 - 135	-1.85%	Sep 2021	97.73 - 107.05
MB-CU-0403	Copper grade A cathode premium, cif Shanghai, \$/tonne	13 Oct 2021	100 - 125	-2.17%	Sep 2021	79.59 - 97
MB-CU-0405	Copper grade A cathode premium, in-whs Shanghai, \$/tonne	13 Oct 2021	120 - 135	-1.92%	Sep 2021	91.14 - 107.05
MB-CU-0384	Copper grade A cathode SX-EW premium, cif Shanghai, \$/tonne	13 Oct 2021	100 - 115	0.00%	Sep 2021	79.59 - 85.73
MB-CU-0382	Copper grade A cathode SX-EW premium, bonded in-whs Shanghai, \$/tonne	13 Oct 2021	120 - 130	0.00%	Sep 2021	91.14 - 97.95
MB-CU-0399	Copper grade A cathode premium, cif Southeast Asia, \$/tonne	12 Oct 2021	80 - 90	13.33%	Sep 2021	65 - 72.5
MB-CU-0386	Copper grade A cathode premium, cif Taiwan, \$/tonne	05 Oct 2021	70 - 80	0.00%	Sep 2021	70 - 80
MB-CU-0404	Copper grade A cathode premium, cif South Korea, \$/tonne	05 Oct 2021	75 - 80	0.00%	Sep 2021	67.5 - 72.5
MB-CU-0310	Copper grade 1 cathode premium, ddp Midwest US, \$/tonne	12 Oct 2021	176.37 - 198.42	0.00%	Sep 2021	
MB-CU-0002	Copper grade 1 cathode premium, ddp Midwest US, US cents/lb	12 Oct 2021	8 - 9	0.00%	Sep 2021	8 - 9
MB-CU-0309	Copper grade 1 cathode all-in price, ddp Midwest US, US cents/lb	13 Oct 2021	460.05 - 461.05	4.34%	Sep 2021	434.54 - 435.54
MB-CU-0400	Copper grade A cathode warrant premium, in-whs North Europe, \$/tonne	13 Oct 2021	5 - 10	0.00%	Sep 2021	5 - 10
MB-CU-0401	Copper grade A cathode warrant premium, in-whs South Europe, \$/tonne	13 Oct 2021	15 - 25	0.00%	Sep 2021	15 - 25
MB-CU-0397	Copper grade A cathode warrant premium, in-whs Southeast Asia, \$/tonne	13 Oct 2021	25 - 40	0.00%	Sep 2021	24 - 37
MB-CU-0398	Copper grade A cathode warrant premium, in-whs East Asia \$/tonne	13 Oct 2021	25 - 40	0.00%	Sep 2021	24 - 37
MB-CU-0377	Copper grade A cathode warrant premium, in-whs US, \$/tonne	13 Oct 2021	20 - 25	0.00%	Sep 2021	20 - 25
MB-CU-0336	Copper Aurubis grade A cathode annual premium, exw Europe, \$/tonne	16 Jan 2019	96	11.63%	Sep 2021	
MB-CU-0410	Copper rod premium, ddp Midwest US, US cents/lb	07 Oct 2021	21 - 23	0.00%	Sep 2021	21 - 23
MB-CU-0361	Copper import arbitrage, \$/tonne	13 Oct 2021	(5.57)		Sep 2021	22.69
MB-CU-0362	Copper import arbitrage, yuan/tonne	13 Oct 2021	(35.98)		Sep 2021	146.92
MB-CU-0338	Copper fixing price for LME trade, rand/tonne	13 Oct 2021	144291.87	-0.01%	Sep 2021	135680.31
MB-CU-0321	Copper Republican copper price for Palabora 7.90mm South Africa Rand per tonne	30 Sep 2021	135678.74	-1.98%	Sep 2021	

Copper concentrate & copper blister prices

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-CU-0287	Copper concentrates TC index, cif Asia Pacific, \$/tonne	08 Oct 2021	60.7	-0.33%	Sep 2021	60.35
MB-CU-0288	Copper concentrates RC index, cif Asia Pacific, US cents/lb	08 Oct 2021	6.07	-0.33%	Sep 2021	6.04
MB-CU-0422	Copper concentrates counterparty spread, \$/tonne	30 Sep 2021	9.36	53.19%	Sep 2021	7.74
MB-CU-0423	Copper Concentrates Co-VIU, \$/tonne	30 Sep 2021	(0.1)		Sep 2021	(0.27)
MB-CU-0508	Copper concentrates TC implied smelters purchase, cif Asia Pacific, \$/tonne	08 Oct 2021	65.38	-0.31%	Sep 2021	63.41
MB-CU-0510	Copper concentrates RC implied smelters purchase, cif Asia Pacific, cents/lb	08 Oct 2021	6.54	-0.30%	Sep 2021	6.34
MB-CU-0509	Copper concentrates TC implied traders purchase, cif Asia Pacific, \$/tonne	08 Oct 2021	56.02	-0.36%	Sep 2021	57.3
MB-CU-0511	Copper concentrates RC implied traders purchase, cif Asia Pacific, cents/lb	08 Oct 2021	5.6	-0.36%	Sep 2021	5.73



Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-CU-0408	Copper blister 98-99% RC spot, cif China, \$/tonne	30 Sep 2021	150 - 170	-11.11%	Sep 2021	150 - 170
MB-CU-0409	Copper blister 98-99% RC annual benchmark, cif China, \$/tonne	22 Jan 2021	140 - 150	12.40%	Sep 2021	140 - 150

Nickel prices & premiums

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-NI-0241	Nickel briquette premium, delivered Midwest US, US cents/lb	12 Oct 2021	45 - 55	0.00%	Sep 2021	42.75 - 46.25
MB-NI-0242	Nickel 4x4 cathode all-in price, delivered Midwest US, US cents/lb	13 Oct 2021	917.11 - 927.11	-0.66%	Sep 2021	923.81 - 933.81
MB-NI-0243	Nickel briquette all-in price, delivered Midwest US, US cents/lb	13 Oct 2021	917.11 - 927.11	-0.66%	Sep 2021	920.96 - 924.1
MB-NI-0240	Nickel 4x4 cathode premium, delivered Midwest US, US cents/lb	12 Oct 2021	45 - 55	0.00%	Sep 2021	45 - 55
MB-NI-0245	Nickel min 99.8% briquette premium, cif Shanghai, \$/tonne	28 Sep 2021	180 - 220	14.29%	Sep 2021	180 - 220
MB-NI-0142	Nickel min 99.8% full plate premium, cif Shanghai, \$/tonne	12 Oct 2021	320 - 350	0.00%	Sep 2021	320 - 350
MB-NI-0143	Nickel min 99.8% full plate premium, in-whs Shanghai, \$/tonne	12 Oct 2021	330 - 350	0.00%	Sep 2021	330 - 350
MB-NI-0001	Nickel 4x4 cathode premium, in-whs Rotterdam, \$/tonne	12 Oct 2021	165 - 220	0.00%	Sep 2021	165 - 220
MB-NI-0002	Nickel briquette premium, in-whs Rotterdam, \$/tonne	12 Oct 2021	130 - 150	0.00%	Sep 2021	130 - 150
MB-NI-0003	Nickel uncut cathode premium, in-whs Rotterdam, \$/tonne	12 Oct 2021	40 - 75	0.00%	Sep 2021	40 - 75
MB-NI-0139	Nickel min 99.8% full plate warrant premium, in-whs East Asia, \$/tonne	13 Oct 2021	30 - 40	0.00%	Sep 2021	30 - 45
MB-NI-0137	Nickel min 99.8% full plate warrant premium, in-whs Southeast Asia, \$/tonne	13 Oct 2021	35 - 45	14.29%	Sep 2021	30 - 45
MB-NI-0140	Nickel min 99.8% briquette warrant premium, in-whs East Asia, \$/tonne	13 Oct 2021	40 - 50	0.00%	Sep 2021	34 - 50
MB-NI-0138	Nickel min 99.8% briquette warrant premium, in-whs Southeast Asia, \$/tonne	13 Oct 2021	30 - 50	6.67%	Sep 2021	36 - 52
MB-NI-0141	Nickel min 99.8% warrant premium, in-whs North Europe, \$/tonne	13 Oct 2021	30 - 130	0.00%	Sep 2021	44 - 146
MB-NI-0244	Nickel sulfate min 21%, max 22.5%; cobalt 10ppm max, exw China, yuan/tonne	08 Oct 2021	36000 - 36500	-0.68%	Sep 2021	36625 - 37625
MB-NI-0246	Nickel sulfate, cif China, Japan and Korea, \$/tonne	01 Oct 2021	4949	0.16%	Sep 2021	4941
MB-NI-0247	Nickel sulfate premium, cif China, Japan and Korea, \$/tonne	01 Oct 2021	2800	-6.67%	Sep 2021	3000
MB-NI-0107	Nickel import arbitrage, yuan/tonne	13 Oct 2021	2645.67	3.21%	Sep 2021	2115.91
MB-NI-0106	Nickel import arbitrage, \$/tonne	13 Oct 2021	409.25	3.24%	Sep 2021	326.93
MB-NI-0093	Nickel fixing price for LME trade, rand/tonne	13 Oct 2021	287284.34	-1.52%	Sep 2021	282272.64

Nickel ore & laterite ore prices

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-NIO-0001	Nickel ore 1.8% basis 15-20% Fe water content: 30-35% Si:Mg ratio<2 lot size 50,000 tonnes, cif China, \$/tonne	08 Oct 2021	115 - 120	0.00%	Sep 2021	112.5 - 116.5
MB-NIO-0002	Laterite ore with 1.5% Ni content, cif China, \$/tonne	08 Oct 2021	92 - 95	0.00%	Sep 2021	90.5 - 93.5

Lead prices & premiums

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-PB-0108	Lead 99.99% ingot premium, cif Southeast Asia, \$/tonne	12 Oct 2021	125 - 145	0.00%	Sep 2021	125 - 145



Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-PB-0107	Lead 99.97% ingot premium, cif Southeast Asia, \$/tonne	12 Oct 2021	80 - 90	0.00%	Sep 2021	80 - 90
MB-PB-0084	Lead 99.97% ingot premium, cif Taiwan, \$/tonne	05 Oct 2021	100 - 115	0.00%	Sep 2021	100 - 115
MB-PB-0083	Lead 99.99% ingot premium, cif Taiwan, \$/tonne	05 Oct 2021	125 - 135	4.00%	Sep 2021	120 - 130
MB-PB-0087	Lead 99.97% ingot premium, cif India, \$/tonne	12 Oct 2021	60 - 130	0.00%	Sep 2021	60 - 130
MB-PB-0086	Lead 99.99% ingot premium, cif India, \$/tonne	12 Oct 2021	130 - 140	0.00%	Sep 2021	130 - 140
MB-PB-0099	Lead 99.99% ingot premium, delivered Midwest US, US cents/lb	12 Oct 2021	17 - 19	0.00%	Sep 2021	17 - 19
MB-PB-0006	Lead 99.97% ingot premium, ddp Midwest US, US cents/lb	12 Oct 2021	15 - 18	0.00%	Sep 2021	15 - 18
MB-PB-0056	Lead 99.97% ingot all-in price, ddp Midwest US, US cents/lb	13 Oct 2021	120.62 - 123.62	1.55%	Sep 2021	117.08 - 120.08
MB-PB-0109	Lead 99.97% ingot warrant premium, in-whs North Europe, \$/tonne	13 Oct 2021	10 - 30	0.00%	Sep 2021	20 - 34
MB-PB-0110	Lead 99.97% ingot warrant premium, in-whs South Europe, \$/tonne	13 Oct 2021	20 - 30	0.00%	Sep 2021	22 - 36
MB-PB-0106	Lead min 99.97% ingot warrant premium, in-whs East Asia \$/tonne	13 Oct 2021	5 - 20	0.00%	Sep 2021	14 - 24
MB-PB-0105	Lead min 99.97% ingot warrant premium, in-whs Southeast Asia \$/tonne	13 Oct 2021	5 - 20	0.00%	Sep 2021	14 - 24
MB-PB-0097	Lead 99.97% ingot warrant premium, in-whs US, \$/tonne	13 Oct 2021	20 - 30	0.00%	Sep 2021	20 - 30
MB-PB-0064	Lead fixing price for LME trade, rand/tonne	13 Oct 2021	34799.72	0.98%	Sep 2021	32892.79

Lead concentrate prices

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-PB-0101	Lead concentrate TC High Silver, Annual Benchmark, \$ per tonne	03 Jun 2019	98	0.00%	Sep 2021	98
MB-PB-0100	Lead concentrate TC, low silver, annual benchmark, \$/tonne	15 Mar 2018	99	-28.26%	Sep 2021	99
MB-PB-0103	Lead spot concentrate TC, low silver, cif China, \$/tonne	24 Sep 2021	55 - 70	0.00%	Sep 2021	55 - 70
MB-PB-0104	Lead spot concentrate TC, high silver, cif China, \$/tonne	24 Sep 2021	55 - 70	0.00%	Sep 2021	55 - 70

Tin prices & premiums

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-SN-0029	Tin 99.9% low lead ingot premium, in-whs Rotterdam, \$/tonne	05 Oct 2021	1600 - 1800	-10.53%	Sep 2021	1900 - 2100
MB-SN-0002	Tin 99.9% ingot premium, in-whs Rotterdam, \$ per tonne	05 Oct 2021	1200 - 1700	-3.33%	Sep 2021	1350 - 1750
MB-SN-0036	Tin 99.85% ingot premium, in-whs Baltimore, \$/tonne	05 Oct 2021	2300 - 3500	-17.14%	Sep 2021	3000 - 4000
MB-SN-0038	Tin 99.9% ingot premium, cif Taiwan, \$/tonne	05 Oct 2021	350 - 450	0.00%	Sep 2021	350 - 450
MB-SN-0012	Tin grade A min 99.85% ingot all-in price, ddp Midwest US, \$/tonne	13 Oct 2021	40240 - 41420	0.00%	Sep 2021	38319.71 - 39405.43
MB-SN-0011	Tin grade A min 99.85% ingot premium, ddp Midwest US, \$/tonne	05 Oct 2021	2490 - 3670	-17.32%	Sep 2021	3150 - 4300
MB-SN-0042	Tin min 99.85% ingot warrant premium, in-whs South East Asia, \$/tonne	13 Oct 2021	50 - 150	0.00%	Sep 2021	60 - 140
MB-SN-0005	Tin rand fixing price for LME trade, rand/tonne	13 Oct 2021	564561.9	-0.68%	Sep 2021	508601.02

Zinc prices & premiums

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-ZN-0115	Zinc SHG 99.995% ingot premium, fca Malaysia, \$/per tonne	05 Oct 2021	100 - 125	2.27%	Sep 2021	100 - 120



Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-ZN-0113	Zinc SHG 99.995% ingot premium, fca Singapore, \$/per tonne	05 Oct 2021	100 - 125	2.27%	Sep 2021	100 - 120
MB-ZN-0093	Zinc SHG min 99.995% ingot premium, cif Southeast Asia, \$/tonne	05 Oct 2021	125 - 135	4.00%	Sep 2021	120 - 130
MB-ZN-0116	Zinc SHG 99.995% ingot premium, cif Taiwan \$/tonne	05 Oct 2021	125 - 135	4.00%	Sep 2021	120 - 130
MB-ZN-0119	Zinc min 99.995% ingot premium, in-whs Shanghai, \$/tonne	12 Oct 2021	90 - 110	0.00%	Sep 2021	90 - 110
MB-ZN-0106	Zinc SHG min 99.995% ingot premium, cif Shanghai, \$/per tonne	12 Oct 2021	90 - 110	0.00%	Sep 2021	90 - 110
MB-ZN-0102	Zinc SHG min 99.995% ingot premium, ddp Italy, \$/per tonne	05 Oct 2021	200 - 230	6.17%	Sep 2021	190 - 205
MB-ZN-0103	Zinc SHG min 99.995% ingot premium, fca dp Italy, \$/tonne	05 Oct 2021	180 - 190	2.78%	Sep 2021	167.5 - 177.5
MB-ZN-0099	Zinc SHG min 99.995% ingot premium, dp fca Antwerp, \$/tonne	12 Oct 2021	160 - 180	0.00%	Sep 2021	141.25 - 165
MB-ZN-0001	Zinc SHG min 99.995% ingot premium, dp fca Rotterdam, \$/tonne	12 Oct 2021	160 - 180	0.00%	Sep 2021	141.25 - 165
MB-ZN-0082	Zinc SHG min 99.995% ingot premium monthly average, delivered UK, £/tonne	01 Oct 2021	2398	3.23%	Sep 2021	2323
MB-ZN-0005	Zinc SHG min 99.995% ingot premium, ddp Midwest US, US cents/lb	12 Oct 2021	12 - 14	30.00%	Sep 2021	9.19 - 10.25
MB-ZN-0061	Zinc SHG min 99.995% ingot all-in price, ddp Midwest US, US cents/lb	13 Oct 2021	166.56 - 168.56	4.56%	Sep 2021	147.08 - 148.18
MB-ZN-0104	Zinc SHG min 99.995% warrant premium, in-whs US, \$/per tonne	13 Oct 2021	10 - 15	0.00%	Sep 2021	10 - 15
MB-ZN-0117	Zinc SHG min 99.995% warrant premium, in-whs North Europe, \$/tonne	13 Oct 2021	80 - 100	0.00%	Sep 2021	68 - 84
MB-ZN-0123	Zinc SHG min 99.995% warrant premium, in-whs Southeast Asia, \$/tonne	13 Oct 2021	10 - 20	-14.29%	Sep 2021	12 - 21
MB-ZN-0083	Zinc import arbitrage, \$/tonne	13 Oct 2021	(171.05)		Sep 2021	(105.03)
MB-ZN-0084	Zinc import arbitrage, yuan/tonne	13 Oct 2021	(1105.81)		Sep 2021	(679.62)
MB-ZN-0072	Zinc rand fixing price for LME trade, rand/tonne	13 Oct 2021	50930.06	4.15%	Sep 2021	44217.46

Zinc concentrate & zinc alloy prices

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-ZN-0121	Zinc concentrate TC spot, delivered South China, yuan/tonne	24 Sep 2021	3900 - 4200	-1.22%	Sep 2021	3900 - 4200
MB-ZN-0120	Zinc concentrate TC spot, delivered North China, yuan/tonne	24 Sep 2021	4000 - 4500	-2.30%	Sep 2021	4000 - 4500
MB-ZN-0110	Zinc spot concentrate TC, cif China, \$/per tonne	08 Oct 2021	75 - 88	0.00%	Sep 2021	75 - 90
MB-ZN-0111	Zinc concentrate TC annual benchmark, cif China, \$/per tonne	24 Jul 2019	245	66.67%	Sep 2021	245

Minor metals prices

Source: dashboard.fastmarkets.com/m/1fa335bf-a37e-4af1-90ad-ddc3eb8d0576

Global cobalt metal & intermediate prices

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-CO-0005	Cobalt standard grade, in-whs Rotterdam, \$/lb	13 Oct 2021	26.2 - 26.95	0.00%	Sep 2021	24.4 - 24.98
MB-CO-0004	Cobalt alloy grade, in-whs Rotterdam, \$/lb	13 Oct 2021	26.2 - 26.95	0.00%	Sep 2021	24.38 - 24.98
MB-CO-0001	Cobalt 99.8% Co min, ex-works China, yuan/tonne	13 Oct 2021	390000 - 406000	3.38%	Sep 2021	363444.44 - 386222.22
MB-CO-0017	Cobalt sulfate 20.5% Co basis, exw China, yuan/tonne	13 Oct 2021	88000 - 92000	4.65%	Sep 2021	79666.67 - 81555.56
MB-CO-0012	Cobalt tetroxide 72.6% Co min, delivered China, yuan/tonne	13 Oct 2021	310000 - 320000	0.80%	Sep 2021	280666.67 - 290000
MB-CO-0020	Cobalt hydroxide index 30% Co min, cif China, \$/lb	08 Oct 2021	23.02	2.22%	Sep 2021	21.41
MB-CO-0021	Cobalt hydroxide payable indicator, min 30% Co, cif China, % payable of Fastmarkets' standard-grade cobalt price (low-end)	13 Oct 2021	89 - 91	0.00%	Sep 2021	88 - 90.11

Europe minor metals prices

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-CO-0004	Cobalt alloy grade, in-whs Rotterdam, \$/lb	13 Oct 2021	26.2 - 26.95	0.00%	Sep 2021	24.38 - 24.98
MB-CO-0005	Cobalt standard grade, in-whs Rotterdam, \$/lb	13 Oct 2021	26.2 - 26.95	0.00%	Sep 2021	24.4 - 24.98
MB-AS-0001	Arsenic 99% min As, in-whs Rotterdam, \$/lb	08 Oct 2021	1.4 - 1.7	0.00%	Sep 2021	1.4 - 1.7
MB-SB-0002	Antimony MMTA standard grade II, in-whs Rotterdam, \$/tonne	13 Oct 2021	12700 - 13100	0.00%	Sep 2021	12188.89 - 12666.67
MB-SB-0001	Antimony max 100 ppm Bi, in-whs Rotterdam, \$/tonne	13 Oct 2021	13200 - 13500	0.00%	Sep 2021	12255.56 - 12794.44
MB-BI-0001	Bismuth 99.99% Bi min, in-whs Rotterdam, \$/lb	13 Oct 2021	3.7 - 4.1	0.00%	Sep 2021	3.7 - 4.04
MB-CR-0001	Chromium alumino-thermic 99% min, in-whs Rotterdam, \$/tonne	08 Oct 2021	10250 - 10550	0.00%	Sep 2021	10175 - 10437.5
MB-GA-0001	Gallium 99.99% Ga min, in-whs Rotterdam, \$/kg	13 Oct 2021	310 - 335	0.00%	Sep 2021	308.89 - 333.89
MB-GER-0003	Germanium 99.99% Ge, in-whs Rotterdam, \$/kg	13 Oct 2021	1230 - 1350	0.00%	Sep 2021	1281.11 - 1350
MB-IN-0002	Indium 99.99%, in-whs Rotterdam, \$/kg	13 Oct 2021	260 - 285	0.00%	Sep 2021	238 - 275.56
MB-MG-0001	Magnesium 99.9%, in-whs Rotterdam, \$/tonne	08 Oct 2021	16000 - 16500	0.00%	Sep 2021	5775 - 6612.5
MB-MN-0001	Manganese 99.7% electrolytic manganese flake, in-whs Rotterdam, \$/tonne	13 Oct 2021	7200 - 7400	2.10%	Sep 2021	5372.22 - 5583.33
MB-RE-0001	Rhenium APR catalytic grade, in-whs dup Rotterdam, \$/kg	08 Oct 2021	890 - 1050	0.00%	Sep 2021	890 - 1050
MB-RE-0002	Rhenium metal pellets 99.9% Re min, in-whs dup, Rotterdam \$/lb	08 Oct 2021	450 - 700	0.00%	Sep 2021	450 - 700
MB-SE-0002	Selenium 99.5% Se min, in-whs Rotterdam, \$/lb	13 Oct 2021	9.35 - 11	0.00%	Sep 2021	9.58 - 10.6
MB-SI-0004	Silicon grade 5-5-3 98.5% Si min, in-whs Rotterdam, €/tonne	08 Oct 2021	8500 - 8650	31.92%	Sep 2021	3675 - 4050
MB-SI-0001	Silicon grade 4-4-1 99% Si min, in-whs Rotterdam, €/tonne	08 Oct 2021	8500 - 8650	31.92%	Sep 2021	3675 - 4050
MB-TE-0001	Tellurium 99.9-99.99% Te min, in-whs Rotterdam, \$/kg	13 Oct 2021	68 - 75	0.00%	Sep 2021	68 - 80

China minor metals prices

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-CO-0001	Cobalt 99.8% Co min, ex-works China, yuan/tonne	13 Oct 2021	390000 - 406000	3.38%	Sep 2021	363444.44 - 386222.22



Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-CO-0021	Cobalt hydroxide payable indicator, min 30% Co, cif China, % payable of Fastmarkets' standard-grade cobalt price (low-end)	13 Oct 2021	89 - 91	0.00%	Sep 2021	88 - 90.11
MB-CO-0020	Cobalt hydroxide index 30% Co min, cif China, \$/lb	08 Oct 2021	23.02	2.22%	Sep 2021	21.41
MB-CO-0017	Cobalt sulfate 20.5% Co basis, exw China, yuan/tonne	13 Oct 2021	88000 - 92000	4.65%	Sep 2021	79666.67 - 81555.56
MB-CO-0012	Cobalt tetroxide 72.6% Co min, delivered China, yuan/tonne	13 Oct 2021	310000 - 320000	0.80%	Sep 2021	280666.67 - 290000
MB-SB-0003	Antimony MMTA standard grade II, ddp China, yuan/tonne	08 Oct 2021	74000 - 75000	1.71%	Sep 2021	70875 - 71875
MB-BI-0002	Bismuth 99.99% Bi min, in-whs China, yuan/tonne	08 Oct 2021	47000 - 47500	0.53%	Sep 2021	46000 - 47125
MB-GA-0002	Gallium 99.99% Ga min, in-whs China, yuan/kg	08 Oct 2021	1930 - 1950	0.00%	Sep 2021	1930 - 1950
MB-GER-0004	Germanium 99.999% Ge min, in-whs China, yuan/kg	08 Oct 2021	8750 - 8900	0.00%	Sep 2021	8712.5 - 8900
MB-GER-0001	Germanium dioxide, in-whs China, \$/kg	13 Oct 2021	880 - 890	0.00%	Sep 2021	850 - 871.56
MB-IN-0003	Indium 99.99%, exw China, yuan/kg	08 Oct 2021	1700 - 1800	6.06%	Sep 2021	1612.5 - 1725
MB-MG-0002	Magnesium 99.9% Mg min, fob China main ports, \$/tonne	08 Oct 2021	7830 - 8000	-24.62%	Sep 2021	6480 - 6882.5
MB-MG-0003	Magnesium 99.9%, exw China, yuan/tonne	08 Oct 2021	48000 - 50000	-27.41%	Sep 2021	41500 - 44250
MB-MN-0007	Manganese 99.7% electrolytic manganese flake, fob China, \$/tonne	08 Oct 2021	5500 - 5800	13.00%	Sep 2021	4675 - 4862.5
MB-SI-0002	Silicon export 98.5% Si min, fob China, \$/tonne	08 Oct 2021	8500 - 9500	-5.26%	Sep 2021	5500 - 5980
MB-SE-0003	Selenium 99.9% Se min, in-whs China, yuan/kg	08 Oct 2021	130 - 170	-1.64%	Sep 2021	120 - 173.75
MB-TE-0002	Tellurium 99.99% Te min, in-whs China, yuan/kg	08 Oct 2021	490 - 515	0.00%	Sep 2021	497.5 - 525
MB-TA-0001	Tantalite, basis 25% min Ta2O5, cif China, \$ per lb Ta2O5	08 Oct 2021	80 - 85	0.00%	Sep 2021	84.75 - 89.5

US minor metals prices

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-CR-0002	Chromium alumino-thermic 99% min ex-US warehouse \$/lb	07 Oct 2021	4.85 - 5	0.00%	Sep 2021	4.85 - 5
MB-SI-0003	Silicon, ddp US, US cents/lb	07 Oct 2021	290 - 350	34.74%	Sep 2021	178.8 - 200
MB-TI-0007	Titanium plate commercially pure, fob shipping point US, \$/lb	12 Oct 2021	11 - 13	0.00%	Sep 2021	11 - 13
MB-TI-0006	Titanium bar alloy AMS 4928, fob shipping point US, \$/lb	12 Oct 2021	24 - 25	0.00%	Sep 2021	24 - 25
MB-TI-0004	Titanium ingot 6Al-4V, fob shipping point US, \$/lb	12 Oct 2021	8 - 8.5	0.00%	Sep 2021	8 - 8.5
MB-TI-0008	Titanium sheet commercially pure, fob shipping point US, \$/lb	12 Oct 2021	13 - 15	0.00%	Sep 2021	13 - 15
MB-TI-0005	Titanium plate alloy AMS 4911, fob shipping point US, \$/lb	12 Oct 2021	27 - 28	0.00%	Sep 2021	27 - 28

Global location minor metals prices

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-CD-0001	Cadmium 99.95% min, cif global ports, cents/lb	13 Oct 2021	95 - 122	0.00%	Sep 2021	91.11 - 117.44
MB-CD-0002	Cadmium 99.99% min, cif global ports, cents/lb	13 Oct 2021	95 - 122	0.00%	Sep 2021	91.11 - 117.44
MB-HF-0001	Hafnium, max 1% Zr, in-whs global locations, \$/kg	08 Oct 2021	850 - 950	0.00%	Sep 2021	850 - 950

Non-ferrous scrap prices

 Source: dashboard.fastmarkets.com/m/3ca714c4-9cae-418e-9e78-581721ebe93d

US aluminium scrap prices

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-AL-0364	Aluminum scrap 63S aluminum solids, dealer buying price, delivered to yard US, US cents/lb	01 Oct 2021	55	0.00%	Sep 2021	57.5
MB-AL-0370	Aluminum scrap old aluminum sheet & cast, dealer buying price, delivered to yard US, US cents/lb	01 Oct 2021	45	0.00%	Sep 2021	45
MB-AL-0371	Aluminum scrap painted aluminum siding, dealer buying price, delivered to yard US, US cents/lb	01 Oct 2021	56	1.82%	Sep 2021	55
MB-AL-0367	Aluminum scrap litho sheets, dealer buying price, delivered to yard US, US cents/lb	01 Oct 2021	70	0.00%	Sep 2021	75.5
MB-AL-0372	Aluminum scrap segregated low copper clips, dealer buying price, delivered to yard US, US cents/lb	01 Oct 2021	60	0.00%	Sep 2021	60.5
MB-AL-0037	Aluminum scrap segregated low copper alloy clips 3105, mills specialty consumers' buying price, delivered consumer US, US cents/lb	07 Oct 2021	92 - 94	2.20%	Sep 2021	89.2 - 91.2
MB-AL-0369	Aluminum scrap mixed low copper clips, dealer buying price, delivered to yard US, US cents/lb	01 Oct 2021	60	0.00%	Sep 2021	60.5
MB-AL-0366	Aluminum scrap industrial castings, dealer buying price, delivered to yard US, US cents/lb	01 Oct 2021	48	0.00%	Sep 2021	47.5
MB-AL-0365	Aluminum scrap aluminum borings, turnings, clean & dry, dealer buying price, delivered to yard US, US cents/lb	01 Oct 2021	25	0.00%	Sep 2021	22.5
MB-AL-0031	Aluminum scrap turnings clean dry high grade buying price, delivered to Midwest secondary smelters, US cents/lb	07 Oct 2021	65 - 69	0.00%	Sep 2021	64.2 - 68.2
MB-AL-0032	Aluminum scrap turnings clean dry mixed grade (max 5% Zn) buying price, delivered to Midwest secondary smelters, US cents/lb	07 Oct 2021	57 - 61	0.00%	Sep 2021	55.8 - 59.8
MB-AL-0033	Aluminum scrap aluminium-copper radiators buying price, delivered to Midwest secondary smelters, US cents/lb	07 Oct 2021	196 - 206	0.50%	Sep 2021	196.2 - 206.2
MB-AL-0030	Aluminum scrap old cast buying price, delivered to Midwest secondary smelters, US cents/lb	07 Oct 2021	67 - 71	1.47%	Sep 2021	65.6 - 69.6
MB-AL-0029	Aluminum scrap old sheet buying price, delivered to Midwest secondary smelters, US cents/lb	07 Oct 2021	68 - 72	2.94%	Sep 2021	64.8 - 68.8
MB-AL-0027	Aluminum scrap siding buying price, delivered Midwest secondary smelters, US cents/lb	07 Oct 2021	71 - 74	1.40%	Sep 2021	69 - 72
MB-AL-0368	Aluminum scrap mixed clips, dealer buying price, delivered to yard US, US cents/lb	01 Oct 2021	60	0.00%	Sep 2021	60.5
MB-AL-0028	Aluminum scrap mixed clips buying price, delivered to Midwest secondary smelters, US cents/lb	07 Oct 2021	68 - 71	0.00%	Sep 2021	66.4 - 69.4
MB-AL-0024	Aluminum scrap mixed high copper clips, buying price, delivered Midwest secondary smelters, US cents/lb	07 Oct 2021	74 - 77	1.34%	Sep 2021	71.4 - 74.4
MB-AL-0038	Aluminum scrap mixed low copper clips, specialty consumers' buying price, delivered consumer US, US cents/lb	07 Oct 2021	89 - 92	2.26%	Sep 2021	86.6 - 89.4
MB-AL-0023	Aluminum scrap mixed low copper clips, buying price, delivered Midwest secondary smelters, US cents/lb	07 Oct 2021	77 - 79	1.30%	Sep 2021	74.4 - 77
MB-AL-0025	Aluminum scrap mixed high zinc clips buying price, delivered Midwest secondary smelters, US cents/lb	07 Oct 2021	65 - 67	0.00%	Sep 2021	64.2 - 66.8
MB-AL-0026	Aluminum scrap 1-1-3 sows buying price, delivered Midwest secondary smelters, US cents/lb	07 Oct 2021	72 - 74	1.39%	Sep 2021	70 - 72



Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-AL-0036	Aluminum scrap segregated low copper alloy clips 5052, mills specialty consumers' buying price, fob shipping point US, US cents/lb	07 Oct 2021	140 - 144	1.43%	Sep 2021	137.2 - 141.2
MB-AL-0039	Aluminum scrap painted siding, specialty consumers' buying price, delivered consumer US, US cents/lb	07 Oct 2021	88 - 91	2.29%	Sep 2021	85.2 - 88.2
MB-AL-0373	Aluminum scrap used beverage cans, clean & dry, dealer buying price, delivered to yard US, US cents/lb	01 Oct 2021	45	0.00%	Sep 2021	47
MB-AL-0035	Aluminum scrap used beverage cans, domestic aluminum producer buying price, fob shipping point US, US cents/lb	07 Oct 2021	84 - 88	0.00%	Sep 2021	81.2 - 85.4
MB-AL-0034	Aluminum scrap non-ferrous auto shred (90% Al) buying price, delivered to Midwest secondary smelters, US cents/lb	07 Oct 2021	78 - 83	3.87%	Sep 2021	72 - 77
MB-AL-0375	Zorba 95/3 min, basis delivered US facility, US cents/lb	07 Oct 2021	66 - 68	1.52%	Sep 2021	62 - 64
MB-AL-0161	Aluminum scrap 63S aluminum solids, dealer buying price, delivered to yard Toronto, Canadian cents/lb	01 Oct 2021	185	2.78%	Sep 2021	154.5
MB-AL-0117	Aluminum scrap old aluminum sheet & cast, dealer buying price, delivered to yard Montreal, Canadian cents/lb	01 Oct 2021	40	0.00%	Sep 2021	40
MB-AL-0101	Aluminum scrap borings, turnings, clean & dry, dealer buying price, delivered to yard Montreal, Canadian cents/lb	01 Oct 2021	20	0.00%	Sep 2021	20
MB-AL-0118	Aluminum scrap old aluminum sheet & cast, dealer buying price, delivered to yard Toronto, Canadian cents/lb	01 Oct 2021	75	7.14%	Sep 2021	67.5
MB-AL-0102	Aluminum scrap borings, turnings, clean & dry, dealer buying price, delivered to yard Toronto, Canadian cents/lb	01 Oct 2021	53	0.00%	Sep 2021	47.5
MB-AL-0160	Aluminum scrap 63S aluminum solids, dealer buying price, delivered to yard Montreal, Canadian cents/lb	01 Oct 2021	60	0.00%	Sep 2021	60
MB-AL-0085	Aluminum scrap mixed clips, dealer buying price, delivered to yard Montreal, Canadian cents/lb	01 Oct 2021	50	0.00%	Sep 2021	50
MB-AL-0054	Aluminum scrap segregated low copper clips, dealer buying price, delivered to yard Toronto, Canadian cents/lb	01 Oct 2021	100	-21.26%	Sep 2021	115
MB-AL-0149	Aluminum scrap industrial castings, dealer buying price, delivered to yard Montreal, Canadian cents/lb	01 Oct 2021	40	0.00%	Sep 2021	40
MB-AL-0150	Aluminum scrap industrial castings, dealer buying price, delivered to yard Toronto, Canadian cents/lb	01 Oct 2021	69	-1.43%	Sep 2021	62.5
MB-AL-0133	Aluminum scrap used beverage cans, clean & dry, dealer buying price, delivered to yard Montreal, Canadian cents/lb	01 Oct 2021	15	0.00%	Sep 2021	15
MB-AL-0134	Aluminum scrap used beverage cans, clean & dry, dealer buying price, delivered to yard Toronto, Canadian cents/lb	01 Oct 2021	98	15.29%	Sep 2021	80
MB-AL-0203	Aluminum scrap painted aluminum siding, dealer buying price, delivered to yard Montreal, Canadian cents/lb	01 Oct 2021	47	0.00%	Sep 2021	47
MB-AL-0204	Aluminum scrap painted aluminum siding, dealer buying price, delivered to yard Toronto, Canadian cents/lb	01 Oct 2021	94	0.00%	Sep 2021	87
MB-AL-0070	Aluminum scrap mixed low copper clips, dealer buying price, delivered to yard Toronto, Canadian cents/lb	01 Oct 2021	101	3.06%	Sep 2021	91
MB-AL-0069	Aluminum scrap mixed low copper clips, dealer buying price, delivered to yard Montreal, Canadian cents/lb	01 Oct 2021	53	6.00%	Sep 2021	47.5
MB-AL-0053	Aluminum scrap segregated low copper clips, dealer buying price, delivered to yard Montreal, Canadian cents/lb	01 Oct 2021	60	0.00%	Sep 2021	60

Canadian aluminium scrap prices

Symbol	Description	Date	Price	+/-	Month	Monthly Average
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Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-AL-0161	Aluminum scrap 63S aluminum solids, dealer buying price, delivered to yard Toronto, Canadian cents/lb	01 Oct 2021	185	2.78%	Sep 2021	154.5
MB-AL-0117	Aluminum scrap old aluminum sheet & cast, dealer buying price, delivered to yard Montreal, Canadian cents/lb	01 Oct 2021	40	0.00%	Sep 2021	40
MB-AL-0101	Aluminum scrap borings, turnings, clean & dry, dealer buying price, delivered to yard Montreal, Canadian cents/lb	01 Oct 2021	20	0.00%	Sep 2021	20
MB-AL-0118	Aluminum scrap old aluminum sheet & cast, dealer buying price, delivered to yard Toronto, Canadian cents/lb	01 Oct 2021	75	7.14%	Sep 2021	67.5
MB-AL-0102	Aluminum scrap borings, turnings, clean & dry, dealer buying price, delivered to yard Toronto, Canadian cents/lb	01 Oct 2021	53	0.00%	Sep 2021	47.5
MB-AL-0160	Aluminum scrap 63S aluminum solids, dealer buying price, delivered to yard Montreal, Canadian cents/lb	01 Oct 2021	60	0.00%	Sep 2021	60
MB-AL-0085	Aluminum scrap mixed clips, dealer buying price, delivered to yard Montreal, Canadian cents/lb	01 Oct 2021	50	0.00%	Sep 2021	50
MB-AL-0054	Aluminum scrap segregated low copper clips, dealer buying price, delivered to yard Toronto, Canadian cents/lb	01 Oct 2021	100	-21.26%	Sep 2021	115
MB-AL-0149	Aluminum scrap industrial castings, dealer buying price, delivered to yard Montreal, Canadian cents/lb	01 Oct 2021	40	0.00%	Sep 2021	40
MB-AL-0150	Aluminum scrap industrial castings, dealer buying price, delivered to yard Toronto, Canadian cents/lb	01 Oct 2021	69	-1.43%	Sep 2021	62.5
MB-AL-0133	Aluminum scrap used beverage cans, clean & dry, dealer buying price, delivered to yard Montreal, Canadian cents/lb	01 Oct 2021	15	0.00%	Sep 2021	15
MB-AL-0134	Aluminum scrap used beverage cans, clean & dry, dealer buying price, delivered to yard Toronto, Canadian cents/lb	01 Oct 2021	98	15.29%	Sep 2021	80
MB-AL-0203	Aluminum scrap painted aluminum siding, dealer buying price, delivered to yard Montreal, Canadian cents/lb	01 Oct 2021	47	0.00%	Sep 2021	47
MB-AL-0204	Aluminum scrap painted aluminum siding, dealer buying price, delivered to yard Toronto, Canadian cents/lb	01 Oct 2021	94	0.00%	Sep 2021	87
MB-AL-0070	Aluminum scrap mixed low copper clips, dealer buying price, delivered to yard Toronto, Canadian cents/lb	01 Oct 2021	101	3.06%	Sep 2021	91
MB-AL-0069	Aluminum scrap mixed low copper clips, dealer buying price, delivered to yard Montreal, Canadian cents/lb	01 Oct 2021	53	6.00%	Sep 2021	47.5
MB-AL-0053	Aluminum scrap segregated low copper clips, dealer buying price, delivered to yard Montreal, Canadian cents/lb	01 Oct 2021	60	0.00%	Sep 2021	60

European aluminium scrap prices

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-AL-0286	Aluminium scrap group 7 turnings, LME discount, delivered consumer works, UK, £/tonne	13 Oct 2021	1252 - 1302	2.90%	Sep 2021	1146 - 1186
MB-AL-0015	Aluminium scrap group 7 turnings, delivered consumer UK, £/tonne	13 Oct 2021	700 - 750	0.69%	Sep 2021	632 - 672
MB-AL-0012	Aluminium scrap commercial turnings, delivered consumer UK, £/tonne	13 Oct 2021	900 - 950	0.54%	Sep 2021	840 - 888
MB-AL-0285	Aluminium scrap commercial turnings, LME discount, delivered consumer UK, £/tonne	13 Oct 2021	1052 - 1102	3.46%	Sep 2021	930 - 978
MB-AL-0010	Aluminium scrap commercial cast, delivered consumer UK, £/tonne	13 Oct 2021	1200 - 1280	3.77%	Sep 2021	1062 - 1110
MB-AL-0283	Aluminium scrap commercial cast, LME discount, delivered consumer UK, £/tonne	13 Oct 2021	722 - 802	-0.52%	Sep 2021	708 - 756
MB-AL-0011	Aluminium scrap commercial pure cuttings, delivered consumer UK, £/tonne	13 Oct 2021	1300 - 1350	1.92%	Sep 2021	1204 - 1258



Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-AL-0279	Aluminium scrap commercial pure cuttings, LME discount, delivered consumer UK, £/tonne	13 Oct 2021	847 - 897	6.21%	Sep 2021	787.6 - 841.6
MB-AL-0017	Aluminium scrap LM6/LM25 gravity diecasting ingot, delivered consumer UK, £/tonne	13 Oct 2021	2400 - 2580	7.10%	Sep 2021	2034 - 2106
MB-AL-0284	Aluminium scrap cast wheels, LME discount, delivered consumer UK, £/tonne	13 Oct 2021	202 - 262	-18.88%	Sep 2021	276 - 346
MB-AL-0007	Aluminium scrap cast wheels, delivered consumer UK, £/tonne	13 Oct 2021	1740 - 1800	5.67%	Sep 2021	1472 - 1542
MB-AL-0008	Aluminium scrap cast, delivered consumer Europe, €/tonne	08 Oct 2021	1500 - 1570	5.86%	Sep 2021	1352.5 - 1407.5
MB-AL-0278	Aluminium scrap group 1 pure 99% & litho, LME discount, delivered consumer UK, £/tonne	13 Oct 2021	147 - 247	-14.72%	Sep 2021	245.6 - 295.6
MB-AL-0014	Aluminium scrap group 1 pure 99% & litho, delivered consumer UK, £/tonne	13 Oct 2021	1950 - 2050	5.82%	Sep 2021	1750 - 1800
MB-AL-0281	Aluminium scrap loose old rolled cuttings, LME discount, delivered consumer UK, £/tonne	13 Oct 2021	952 - 1002	1.14%	Sep 2021	858 - 904
MB-AL-0018	Aluminium scrap loose old rolled cuttings, delivered consumer UK, £/tonne	13 Oct 2021	1000 - 1050	3.02%	Sep 2021	914 - 960
MB-AL-0282	Aluminium scrap baled old rolled, LME discount, delivered consumer UK, £/tonne	13 Oct 2021	852 - 952	1.23%	Sep 2021	758 - 816
MB-AL-0006	Aluminium scrap baled old rolled, delivered consumer UK, £/tonne	13 Oct 2021	1050 - 1150	2.80%	Sep 2021	1002 - 1060
MB-AL-0280	Aluminium scrap clean HE9 extrusions, LME discount, delivered consumer UK, £/tonne	13 Oct 2021	147 - 247	-14.72%	Sep 2021	245.6 - 295.6
MB-AL-0013	Aluminium scrap floated frag, delivered consumer Europe, €/tonne	08 Oct 2021	1650 - 1700	6.35%	Sep 2021	1465 - 1520
MB-AL-0019	Aluminium scrap mixed turnings, delivered consumer Europe, €/tonne	08 Oct 2021	1320 - 1380	1.89%	Sep 2021	1260 - 1317.5
MB-AL-0009	Aluminium scrap clean HE9 extrusions, delivered consumer UK, £/tonne	13 Oct 2021	1950 - 2050	5.82%	Sep 2021	1750 - 1800
MB-AL-0016	Aluminium scrap LM24 pressure diecasting ingot, delivered consumer UK, £/tonne	13 Oct 2021	1970 - 2050	3.08%	Sep 2021	1782 - 1840

Secondary aluminium alloy prices

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-AL-0005	Aluminium pressure diecasting ingot DIN226/A380, delivered Europe, €/tonne	08 Oct 2021	2550 - 2700	12.18%	Sep 2021	2052.5 - 2112.5
MB-AL-0040	Aluminum alloy A380.1, delivered Midwest, US cents/lb	07 Oct 2021	122 - 126	0.00%	Sep 2021	120.2 - 123.4
MB-AL-0233	Aluminum alloy A380.1, delivered Midwest, \$/lb	07 Oct 2021	1.22 - 1.26	0.00%	Sep 2021	
MB-AL-0041	Aluminum alloy 319.1, delivered Midwest, cents/lb	07 Oct 2021	130 - 133	0.00%	Sep 2021	128.6 - 131.6
MB-AL-0042	Aluminum alloy 356.1, delivered Midwest, cents/lb	07 Oct 2021	150 - 154	0.00%	Sep 2021	146.4 - 148.8
MB-AL-0043	Aluminum alloy A360.1, delivered Midwest, cents/lb	07 Oct 2021	150 - 155	0.00%	Sep 2021	145 - 147.6
MB-AL-0044	Aluminum alloy A413.1, delivered Midwest, cents/lb	07 Oct 2021	151 - 156	0.00%	Sep 2021	146 - 148.6
MB-AL-0292	Aluminium ingot ADC 12 spot (MJP), cfr Japan, \$/tonne	13 Oct 2021	3000 - 3400	3.23%	Sep 2021	2754 - 2910
MB-AL-0350	Aluminium ingot ADC 12, exw dp China, yuan/tonne	13 Oct 2021	23600 - 24000	-0.63%	Sep 2021	22400 - 22940

Copper scrap No1 & No2 prices

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-CU-0417	Copper scrap No1 heavy copper & wire, dealer buying price, delivered to yard US, US cents/lb	01 Oct 2021	335	0.00%	Sep 2021	339



Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-CU-0295	Copper scrap No1 copper, discount, buying price, delivered to brass ingot makers, US cents/lb	13 Oct 2021	(26) - (23)		Sep 2021	(26.2) - (23.2)
MB-CU-0292	Copper scrap No1 copper, discount, buying price, delivered to refiners, US cents/lb	13 Oct 2021	(22) - (18)		Sep 2021	(23.2) - (19.4)
MB-CU-0291	Copper scrap No1 copper, discount, buying price, delivered to brass mill US, US cents/lb	13 Oct 2021	(14) - (12)		Sep 2021	(19.2) - (14.6)
MB-CU-0294	Copper scrap No1 bare bright, discount, buying price, delivered to brass ingot makers, US cents/lb	13 Oct 2021	(13) - (11)		Sep 2021	(13.4) - (11.4)
MB-CU-0305	Copper scrap No1 bare bright, buying price, delivered to brass ingot makers, US cents/lb	13 Oct 2021	439 - 441	4.51%	Sep 2021	413.38 - 415.38
MB-CU-0306	Copper scrap No1 copper, buying price, delivered to brass ingot makers, US cents/lb	13 Oct 2021	426 - 429	4.65%	Sep 2021	400.62 - 403.62
MB-CU-0302	Copper scrap No1 copper, buying price, delivered to brass mill US, US cents/lb	13 Oct 2021	439	4.65%	Sep 2021	409.62
MB-CU-0298	Copper scrap No1 comp solids, buying price, delivered to brass ingot makers, US cents/lb	13 Oct 2021	325 - 330	-0.15%	Sep 2021	327.6 - 332
MB-CU-0303	Copper scrap No1 copper, buying price, delivered to refiners, US cents/lb	13 Oct 2021	432	4.60%	Sep 2021	405.45
MB-CU-0010	Copper scrap No1 heavy copper & wire, dealer buying price, delivered to yard Toronto, Canadian cents/lb	01 Oct 2021	462	-1.07%	Sep 2021	463.5
MB-CU-0009	Copper scrap No1 heavy copper & wire, dealer buying price, delivered to yard Montreal, Canadian cents/lb	01 Oct 2021	330	3.13%	Sep 2021	315
MB-CU-0512	No1 copper material, RCu-2A,1B (candy/berry), cif China, LME/Comex discount, US cents per lb	27 Sep 2021	8.5 - 11	-29.09%	Sep 2021	8.5 - 11
MB-CU-0360	No2 copper material, RCu-2B (birch/cliff), cif China, LME/Comex discount, US cents per lb	27 Sep 2021	25 - 30	-36.78%	Sep 2021	25 - 30
MB-CU-0025	Copper scrap No2 heavy copper & wire, dealer buying price, delivered to yard Montreal, Canadian cents/lb	01 Oct 2021	283	-0.70%	Sep 2021	279
MB-CU-0418	Copper scrap No2 heavy copper & wire, dealer buying price, delivered to yard US, US cents/lb	01 Oct 2021	313	-3.10%	Sep 2021	319
MB-CU-0304	Copper scrap No2 copper, buying price, delivered to refiners, US cents/lb	13 Oct 2021	398.5	5.15%	Sep 2021	368.38
MB-CU-0307	Copper scrap No2 copper, buying price, delivered to brass ingot makers, US cents/lb	13 Oct 2021	395 - 397	5.04%	Sep 2021	367.57 - 370.9
MB-CU-0293	Copper scrap No2 copper, discount, buying price, delivered to refiners, US cents/lb	13 Oct 2021	(55) - (52)		Sep 2021	(59.6) - (56.4)
MB-CU-0296	Copper scrap No2 copper, discount, buying price, delivered to brass ingot makers, US cents/lb	13 Oct 2021	(57) - (55)		Sep 2021	(59) - (55.8)
MB-CU-0026	Copper scrap No2 heavy copper & wire, dealer buying price, delivered to yard Toronto, Canadian cents/lb	01 Oct 2021	435	0.00%	Sep 2021	432.5

US copper scrap solids, turnings, light, radiators & clips prices

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-CU-0421	Copper scrap yellow brass solids, dealer buying price, delivered to yard US, US cents/lb	01 Oct 2021	190	0.00%	Sep 2021	192.5
MB-CU-0301	Copper scrap yellow brass solids, buying price, delivered to brass ingot makers, US cents/lb	13 Oct 2021	258 - 260	0.58%	Sep 2021	252 - 258
MB-CU-0416	Copper scrap mixed yellow brass turnings, borings, dealer buying price, delivered to yard US, US cents/lb	01 Oct 2021	167	0.00%	Sep 2021	173
MB-CU-0414	Copper scrap auto radiators (unsweated), dealer buying price, delivered to yard US, US cents/lb	01 Oct 2021	160	-7.51%	Sep 2021	179



Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-CU-0300	Copper scrap radiators, buying price, delivered to brass ingot makers, US cents/lb	13 Oct 2021	252 - 255	-0.39%	Sep 2021	253.2 - 258.2
MB-CU-0413	Copper scrap 70-30 brass clips, dealer buying price, delivered to yard US, US cents/lb	01 Oct 2021	249	0.00%	Sep 2021	249.5
MB-CU-0415	Copper scrap light copper, dealer buying price, delivered to yard US, US cents/lb	01 Oct 2021	295	0.00%	Sep 2021	297.5
MB-CU-0297	Copper scrap light copper, discount, buying price, delivered to brass ingot makers, US cents/lb	13 Oct 2021	(62) - (58)		Sep 2021	(62.8) - (58.2)
MB-CU-0308	Copper scrap light copper, buying price, delivered to brass ingot makers, US cents/lb	13 Oct 2021	390 - 394	5.09%	Sep 2021	363.9 - 368.57
MB-CU-0299	Copper scrap comp borings, turnings, buying price, delivered to brass ingot makers, US cents/lb	13 Oct 2021	320 - 323	0.31%	Sep 2021	319 - 324.6
MB-CU-0419	Copper scrap red brass solids, dealer buying price, delivered to yard US, US cents/lb	01 Oct 2021	230	0.00%	Sep 2021	236.5
MB-CU-0420	Copper scrap red brass turnings, borings, dealer buying price, delivered to yard US, US cents/lb	01 Oct 2021	222	0.00%	Sep 2021	229

Canadian copper scrap solids, turnings, light, radiators & clips prices

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-CU-0119	Copper scrap yellow brass solids, dealer buying price, delivered to yard Montreal, Canadian cents/lb	01 Oct 2021	175	-2.78%	Sep 2021	177.5
MB-CU-0120	Copper scrap yellow brass solids, dealer buying price, delivered to yard Toronto, Canadian cents/lb	01 Oct 2021	313	0.00%	Sep 2021	294
MB-CU-0135	Copper scrap mixed yellow brass turnings, borings, dealer buying price, delivered to yard Montreal, Canadian cents/lb	01 Oct 2021	110	0.00%	Sep 2021	110
MB-CU-0136	Copper scrap mixed yellow brass turnings, borings, dealer buying price, delivered to yard Toronto, Canadian cents/lb	01 Oct 2021	284	-0.35%	Sep 2021	256.5
MB-CU-0196	Copper scrap auto radiators (unsweated), dealer buying price, delivered to yard Montreal, Canadian cents/lb	01 Oct 2021	150	0.00%	Sep 2021	150
MB-CU-0197	Copper scrap auto radiators (unsweated), dealer buying price, delivered to yard Toronto, Canadian cents/lb	01 Oct 2021	262	3.56%	Sep 2021	243.5
MB-CU-0181	Copper scrap 70-30 brass clips, dealer buying price, delivered to yard Montreal, Canadian cents/lb	01 Oct 2021	180	0.00%	Sep 2021	180
MB-CU-0042	Copper scrap light copper, dealer buying price, delivered to yard Toronto, Canadian cents/lb	01 Oct 2021	444	-5.53%	Sep 2021	427.5
MB-CU-0041	Copper scrap light copper, dealer buying price, delivered to yard Montreal, Canadian cents/lb	01 Oct 2021	260	6.12%	Sep 2021	245
MB-CU-0058	Copper scrap red brass solids, dealer buying price, delivered to yard Toronto, Canadian cents/lb	01 Oct 2021	388	0.52%	Sep 2021	367
MB-CU-0073	Copper scrap red brass turnings, borings, dealer buying price, delivered to yard Montreal, Canadian cents/lb	01 Oct 2021	120	0.00%	Sep 2021	120
MB-CU-0074	Copper scrap red brass turnings, borings, dealer buying price, delivered to yard Toronto, Canadian cents/lb	01 Oct 2021	380	0.00%	Sep 2021	344.5
MB-CU-0057	Copper scrap red brass solids, dealer buying price, delivered to yard Montreal, Canadian cents/lb	01 Oct 2021	210	0.00%	Sep 2021	210

Chicago nickel scrap prices

Symbol	Description	Date	Price	+/-	Month	Monthly Average
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Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-NI-0202	Nickel alloy scrap Inconel 601 scrap solids, broker buying price, delivered to yard Chicago, US cents/lb	06 Oct 2021	435 - 480	-2.87%	Sep 2021	440 - 501
MB-NI-0198	Nickel alloy scrap 309 stainless steel scrap solids, broker buying price, delivered to yard Chicago, US cents/lb	06 Oct 2021	115 - 122	-5.20%	Sep 2021	120 - 127.5
MB-NI-0152	Nickel alloy scrap 330 stainless steel scrap solids, dealer buying price, delivered to yard Chicago, US cents/lb	06 Oct 2021	182 - 195	-3.08%	Sep 2021	189 - 200
MB-NI-0197	Nickel alloy scrap Inconel 600 scrap, solids, broker buying price, delivered to yard Chicago, US cents/lb	06 Oct 2021	535 - 571	-4.57%	Sep 2021	547.5 - 602
MB-NI-0154	Nickel alloy scrap Inconel 601 scrap solids, dealer buying price, delivered to yard Chicago, US cents/lb	06 Oct 2021	305 - 335	-1.54%	Sep 2021	310 - 340
MB-NI-0151	Nickel alloy scrap 310 stainless steel scrap solids, dealer buying price, delivered to yard Chicago, US cents/lb	06 Oct 2021	119 - 125	-2.79%	Sep 2021	121 - 130
MB-NI-0200	Nickel alloy scrap 330 stainless steel scrap solids, broker buying price, delivered to yard Chicago, US cents/lb	06 Oct 2021	260 - 281	-5.25%	Sep 2021	270 - 295.5
MB-NI-0199	Nickel alloy scrap 310 stainless steel scrap solids, broker buying price, delivered to yard Chicago, US cents/lb	06 Oct 2021	170 - 180	-2.78%	Sep 2021	171.5 - 187
MB-NI-0150	Nickel alloy scrap 309 stainless steel scrap solids, dealer buying price, delivered to yard Chicago, US cents/lb	06 Oct 2021	83 - 85	-1.18%	Sep 2021	84 - 86
MB-NI-0149	Nickel alloy scrap Inconel 600 scrap, solids, dealer buying price, delivered to yard Chicago, US cents/lb	06 Oct 2021	375 - 400	-2.15%	Sep 2021	382 - 410
MB-NI-0155	Nickel scrap 17-4PH stainless steel scrap solids, dealer buying price, delivered to yard Chicago, US cents/lb	06 Oct 2021	28 - 32	-1.64%	Sep 2021	28 - 33
MB-NI-0201	Nickel scrap Invar scrap solids, clips, broker buying price, delivered to yard Chicago, US cents/lb	06 Oct 2021	245 - 281	-6.57%	Sep 2021	262.5 - 292
MB-NI-0153	Nickel scrap Invar scrap solids, clips, dealer buying price, delivered to yard Chicago, US cents/lb	06 Oct 2021	170 - 185	-7.79%	Sep 2021	185 - 200
MB-NI-0193	Nickel scrap nickel turnings, broker buying price, delivered to yard Chicago, US cents/lb	06 Oct 2021	650 - 740	-5.44%	Sep 2021	687.5 - 797.5
MB-NI-0145	Nickel scrap nickel turnings, dealer buying price, delivered to yard Chicago, US cents/lb	06 Oct 2021	455 - 515	-5.64%	Sep 2021	482 - 546
MB-NI-0192	Nickel scrap solids, broker buying price, delivered to yard Chicago, US cents/lb	06 Oct 2021	695 - 760	-5.21%	Sep 2021	732.5 - 822.5
MB-NI-0144	Nickel scrap solids, dealer buying price, delivered to yard Chicago, US cents/lb	06 Oct 2021	485 - 530	-5.41%	Sep 2021	508 - 565
MB-NI-0196	Nickel-copper scrap Monel K-500 (castings) solids, clips, broker buying price, delivered to yard Chicago, US cents/lb	06 Oct 2021	400 - 440	-6.15%	Sep 2021	405 - 479
MB-NI-0148	Nickel-copper scrap Monel K-500 (castings) solids, clips, dealer buying price, delivered to yard Chicago, US cents/lb	06 Oct 2021	275 - 294	-6.41%	Sep 2021	301 - 307
MB-NI-0194	Nickel-copper scrap Monel R-400 scrap solids, clips, broker buying price, delivered to yard Chicago, US cents/lb	06 Oct 2021	420 - 490	-5.21%	Sep 2021	450 - 529
MB-NI-0146	Nickel-copper scrap Monel R-400 scrap solids, clips, dealer buying price, delivered to yard Chicago, US cents/lb	06 Oct 2021	290 - 315	-4.12%	Sep 2021	315 - 316
MB-NI-0195	Nickel-copper scrap Monel scrap turnings, broker buying price, delivered to yard Chicago, US cents/lb	06 Oct 2021	300 - 325	-8.09%	Sep 2021	300 - 396.5
MB-NI-0147	Nickel-copper scrap Monel scrap turnings, dealer buying price, delivered to yard Chicago, US cents/lb	06 Oct 2021	210 - 225	-2.90%	Sep 2021	210 - 238
MB-NI-0203	Nickel scrap 17-4PH stainless steel scrap solids, broker buying price, delivered to yard Chicago, US cents/lb	06 Oct 2021	35 - 45	-5.88%	Sep 2021	39.5 - 46.5

Detroit nickel scrap prices

Symbol	Description	Date	Price	+/-	Month	Monthly Average
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Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-NI-0212	Nickel alloy scrap 330 stainless steel scrap solids, broker buying price, delivered to yard Detroit, US cents/lb	06 Oct 2021	255 - 278	-5.66%	Sep 2021	275 - 290
MB-NI-0162	Nickel alloy scrap 309 stainless steel scrap solids, dealer buying price, delivered to yard Detroit, US cents/lb	06 Oct 2021	70 - 85	-8.82%	Sep 2021	84 - 86
MB-NI-0167	Nickel scrap 17-4PH stainless steel scrap solids, dealer buying price, delivered to yard Detroit, US cents/lb	06 Oct 2021	28 - 32	-1.64%	Sep 2021	28 - 33
MB-NI-0214	Nickel alloy scrap Inconel 601 scrap solids, broker buying price, delivered to yard Detroit, US cents/lb	06 Oct 2021	435 - 480	-2.87%	Sep 2021	446 - 495
MB-NI-0211	Nickel alloy scrap 310 stainless steel scrap solids, broker buying price, delivered to yard Detroit, US cents/lb	06 Oct 2021	165 - 180	-5.99%	Sep 2021	177.5 - 187
MB-NI-0164	Nickel alloy scrap 330 stainless steel scrap solids, dealer buying price, delivered to yard Detroit, US cents/lb	06 Oct 2021	152 - 195	-10.80%	Sep 2021	189 - 200
MB-NI-0161	Nickel alloy scrap Inconel 600 scrap, solids, dealer buying price, delivered to yard Detroit, US cents/lb	06 Oct 2021	309 - 400	-10.48%	Sep 2021	382 - 410
MB-NI-0210	Nickel alloy scrap 309 stainless steel scrap solids, broker buying price, delivered to yard Detroit, US cents/lb	06 Oct 2021	117 - 122	-5.91%	Sep 2021	123.5 - 127.5
MB-NI-0209	Nickel alloy scrap Inconel 600 scrap, solids, broker buying price, delivered to yard Detroit, US cents/lb	06 Oct 2021	515 - 570	-5.24%	Sep 2021	555 - 587.5
MB-NI-0166	Nickel alloy scrap Inconel 601 scrap solids, dealer buying price, delivered to yard Detroit, US cents/lb	06 Oct 2021	245 - 335	-10.77%	Sep 2021	310 - 340
MB-NI-0163	Nickel alloy scrap 310 stainless steel scrap solids, dealer buying price, delivered to yard Detroit, US cents/lb	06 Oct 2021	99 - 125	-10.76%	Sep 2021	121 - 130
MB-NI-0213	Nickel scrap Invar scrap solids, clips, broker buying price, delivered to yard Detroit, US cents/lb	06 Oct 2021	245 - 265	-6.42%	Sep 2021	265 - 280
MB-NI-0165	Nickel scrap Invar scrap solids, clips, dealer buying price, delivered to yard Detroit, US cents/lb	06 Oct 2021	147 - 185	-13.77%	Sep 2021	185 - 200
MB-NI-0205	Nickel scrap nickel turnings, broker buying price, delivered to yard Detroit, US cents/lb	06 Oct 2021	518 - 740	-12.03%	Sep 2021	642.5 - 797.5
MB-NI-0157	Nickel scrap nickel turnings, dealer buying price, delivered to yard Detroit, US cents/lb	06 Oct 2021	345 - 515	-16.34%	Sep 2021	482 - 546
MB-NI-0204	Nickel scrap solids, broker buying price, delivered to yard Detroit, US cents/lb	06 Oct 2021	575 - 760	-9.18%	Sep 2021	672.5 - 812.5
MB-NI-0156	Nickel scrap solids, dealer buying price, delivered to yard Detroit, US cents/lb	06 Oct 2021	360 - 530	-17.06%	Sep 2021	508 - 565
MB-NI-0208	Nickel-copper scrap Monel K-500 (castings) solids, clips, broker buying price, delivered to yard Detroit, US cents/lb	06 Oct 2021	400 - 420	-6.29%	Sep 2021	405 - 420
MB-NI-0160	Nickel-copper scrap Monel K-500 (castings) solids, clips, dealer buying price, delivered to yard Detroit, US cents/lb	06 Oct 2021	275 - 294	-6.41%	Sep 2021	301 - 307
MB-NI-0206	Nickel-copper scrap Monel R-400 scrap solids, clips, broker buying price, delivered to yard Detroit, US cents/lb	06 Oct 2021	420 - 455	-5.41%	Sep 2021	450 - 480
MB-NI-0158	Nickel-copper scrap Monel R-400 scrap solids, clips, dealer buying price, delivered to yard Detroit, US cents/lb	06 Oct 2021	258 - 315	-9.19%	Sep 2021	315 - 316
MB-NI-0207	Nickel-copper scrap Monel scrap turnings, broker buying price, delivered to yard Detroit, US cents/lb	06 Oct 2021	300 - 350	-1.52%	Sep 2021	300 - 370
MB-NI-0159	Nickel-copper scrap Monel scrap turnings, dealer buying price, delivered to yard Detroit, US cents/lb	06 Oct 2021	210 - 225	-2.90%	Sep 2021	210 - 238
MB-NI-0215	Nickel scrap 17-4PH stainless steel scrap solids, broker buying price, delivered to yard Detroit, US cents/lb	06 Oct 2021	42 - 50	4.55%	Sep 2021	39 - 51

Houston nickel scrap prices

Symbol	Description	Date	Price	+/-	Month	Monthly Average
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Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-NI-0222	Nickel alloy scrap 309 stainless steel scrap solids, broker buying price, delivered to yard Houston, US cents/lb	06 Oct 2021	100 - 110	-4.11%	Sep 2021	106 - 115
MB-NI-0178	Nickel alloy scrap Inconel 601 scrap solids, dealer buying price, delivered to yard Houston, US cents/lb	06 Oct 2021	359 - 360	-4.01%	Sep 2021	374 - 375
MB-NI-0175	Nickel alloy scrap 310 stainless steel scrap solids, dealer buying price, delivered to yard Houston, US cents/lb	06 Oct 2021	139 - 140	9.41%	Sep 2021	120 - 135
MB-NI-0227	Nickel scrap 17-4PH stainless steel scrap solids, broker buying price, delivered to yard Houston, US cents/lb	06 Oct 2021	42 - 43	-4.49%	Sep 2021	44 - 45
MB-NI-0174	Nickel alloy scrap 309 stainless steel scrap solids, dealer buying price, delivered to yard Houston, US cents/lb	06 Oct 2021	79 - 80	6.00%	Sep 2021	74 - 76
MB-NI-0224	Nickel alloy scrap 330 stainless steel scrap solids, broker buying price, delivered to yard Houston, US cents/lb	06 Oct 2021	258 - 280	-4.44%	Sep 2021	273 - 296
MB-NI-0221	Nickel alloy scrap Inconel 600 scrap, solids, broker buying price, delivered to yard Houston, US cents/lb	06 Oct 2021	618 - 619	0.00%	Sep 2021	596 - 597
MB-NI-0179	Nickel scrap 17-4PH stainless steel scrap solids, dealer buying price, delivered to yard Houston, US cents/lb	06 Oct 2021	18 - 19	-13.95%	Sep 2021	21 - 22
MB-NI-0226	Nickel alloy scrap Inconel 601 scrap solids, broker buying price, delivered to yard Houston, US cents/lb	06 Oct 2021	474 - 475	-6.13%	Sep 2021	505 - 506
MB-NI-0223	Nickel alloy scrap 310 stainless steel scrap solids, broker buying price, delivered to yard Houston, US cents/lb	06 Oct 2021	157 - 175	-3.49%	Sep 2021	165.5 - 182
MB-NI-0176	Nickel alloy scrap 330 stainless steel scrap solids, dealer buying price, delivered to yard Houston, US cents/lb	06 Oct 2021	200 - 235	0.00%	Sep 2021	200 - 235
MB-NI-0173	Nickel alloy scrap Inconel 600 scrap, solids, dealer buying price, delivered to yard Houston, US cents/lb	06 Oct 2021	395 - 450	7.10%	Sep 2021	394 - 395
MB-NI-0225	Nickel scrap Invar scrap solids, clips, broker buying price, delivered to yard Houston, US cents/lb	06 Oct 2021	258 - 275	-3.62%	Sep 2021	276.5 - 278
MB-NI-0177	Nickel scrap Invar scrap solids, clips, dealer buying price, delivered to yard Houston, US cents/lb	06 Oct 2021	200 - 230	0.00%	Sep 2021	200 - 230
MB-NI-0217	Nickel scrap nickel turnings, broker buying price, delivered to yard Houston, US cents/lb	06 Oct 2021	579 - 580	0.00%	Sep 2021	579 - 580
MB-NI-0169	Nickel scrap nickel turnings, dealer buying price, delivered to yard Houston, US cents/lb	06 Oct 2021	409 - 410	0.00%	Sep 2021	409 - 410
MB-NI-0216	Nickel scrap solids, broker buying price, delivered to yard Houston, US cents/lb	06 Oct 2021	689 - 690	0.00%	Sep 2021	689 - 690
MB-NI-0168	Nickel scrap solids, dealer buying price, delivered to yard Houston, US cents/lb	06 Oct 2021	514 - 515	0.00%	Sep 2021	514 - 515
MB-NI-0220	Nickel-copper scrap Monel K-500 (castings) solids, clips, broker buying price, delivered to yard Houston, US cents/lb	06 Oct 2021	517 - 520	-3.71%	Sep 2021	537 - 548
MB-NI-0172	Nickel-copper scrap Monel K-500 (castings) solids, clips, dealer buying price, delivered to yard Houston, US cents/lb	06 Oct 2021	364 - 365	-5.94%	Sep 2021	385 - 390
MB-NI-0218	Nickel-copper scrap Monel R-400 scrap solids, clips, broker buying price, delivered to yard Houston, US cents/lb	06 Oct 2021	532 - 545	-3.67%	Sep 2021	559 - 567
MB-NI-0170	Nickel-copper scrap Monel R-400 scrap solids, clips, dealer buying price, delivered to yard Houston, US cents/lb	06 Oct 2021	269 - 270	-33.87%	Sep 2021	400 - 415
MB-NI-0219	Nickel-copper scrap Monel scrap turnings, broker buying price, delivered to yard Houston, US cents/lb	06 Oct 2021	330 - 430	-5.00%	Sep 2021	350 - 450
MB-NI-0171	Nickel-copper scrap Monel scrap turnings, dealer buying price, delivered to yard Houston, US cents/lb	06 Oct 2021	319 - 320	10.17%	Sep 2021	250 - 330

Pittsburgh nickel scrap prices

Symbol	Description	Date	Price	+/-	Month	Monthly Average
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Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-NI-0238	Nickel alloy scrap Inconel 601 scrap solids, broker buying price, delivered to yard Pittsburgh, US cents/lb	06 Oct 2021	425 - 480	-4.74%	Sep 2021	450 - 500.5
MB-NI-0235	Nickel alloy scrap 310 stainless steel scrap solids, broker buying price, delivered to yard Pittsburgh, US cents/lb	06 Oct 2021	150 - 183	-8.77%	Sep 2021	177.5 - 187.5
MB-NI-0188	Nickel alloy scrap 330 stainless steel scrap solids, dealer buying price, delivered to yard Pittsburgh, US cents/lb	06 Oct 2021	125 - 200	0.00%	Sep 2021	125 - 200
MB-NI-0185	Nickel alloy scrap Inconel 600 scrap, solids, dealer buying price, delivered to yard Pittsburgh, US cents/lb	06 Oct 2021	370 - 475	-0.59%	Sep 2021	375 - 475
MB-NI-0191	Nickel scrap 17-4PH stainless steel scrap solids, dealer buying price, delivered to yard Pittsburgh, US cents/lb	06 Oct 2021	22 - 32	-1.82%	Sep 2021	22 - 33
MB-NI-0187	Nickel alloy scrap 310 stainless steel scrap solids, dealer buying price, delivered to yard Pittsburgh, US cents/lb	06 Oct 2021	75 - 125	-2.44%	Sep 2021	75 - 130
MB-NI-0234	Nickel alloy scrap 309 stainless steel scrap solids, broker buying price, delivered to yard Pittsburgh, US cents/lb	06 Oct 2021	105 - 122	-7.35%	Sep 2021	115 - 127.5
MB-NI-0239	Nickel scrap 17-4PH stainless steel scrap solids, broker buying price, delivered to yard Pittsburgh, US cents/lb	06 Oct 2021	35 - 45	-6.98%	Sep 2021	36.5 - 46.5
MB-NI-0236	Nickel alloy scrap 330 stainless steel scrap solids, broker buying price, delivered to yard Pittsburgh, US cents/lb	06 Oct 2021	260 - 285	-4.39%	Sep 2021	275 - 295
MB-NI-0233	Nickel alloy scrap Inconel 600 scrap, solids, broker buying price, delivered to yard Pittsburgh, US cents/lb	06 Oct 2021	525 - 575	-1.35%	Sep 2021	540 - 593
MB-NI-0190	Nickel alloy scrap Inconel 601 scrap solids, dealer buying price, delivered to yard Pittsburgh, US cents/lb	06 Oct 2021	305 - 375	-2.16%	Sep 2021	245 - 450
MB-NI-0186	Nickel alloy scrap 309 stainless steel scrap solids, dealer buying price, delivered to yard Pittsburgh, US cents/lb	06 Oct 2021	65 - 85	-0.66%	Sep 2021	65 - 86
MB-NI-0237	Nickel scrap Invar scrap solids, clips, broker buying price, delivered to yard Pittsburgh, US cents/lb	06 Oct 2021	245 - 281	-7.72%	Sep 2021	270 - 295
MB-NI-0189	Nickel scrap Invar scrap solids, clips, dealer buying price, delivered to yard Pittsburgh, US cents/lb	06 Oct 2021	150 - 200	0.00%	Sep 2021	150 - 200
MB-NI-0229	Nickel scrap nickel turnings, broker buying price, delivered to yard Pittsburgh, US cents/lb	06 Oct 2021	650 - 740	-8.85%	Sep 2021	712.5 - 800
MB-NI-0181	Nickel scrap nickel turnings, dealer buying price, delivered to yard Pittsburgh, US cents/lb	06 Oct 2021	400 - 525	-7.50%	Sep 2021	400 - 600
MB-NI-0228	Nickel scrap solids, broker buying price, delivered to yard Pittsburgh, US cents/lb	06 Oct 2021	695 - 775	-6.67%	Sep 2021	745 - 825
MB-NI-0180	Nickel scrap solids, dealer buying price, delivered to yard Pittsburgh, US cents/lb	06 Oct 2021	485 - 585	-5.56%	Sep 2021	508 - 625
MB-NI-0232	Nickel-copper scrap Monel K-500 (castings) solids, clips, broker buying price, delivered to yard Pittsburgh, US cents/lb	06 Oct 2021	375 - 425	-3.61%	Sep 2021	377.5 - 462.5
MB-NI-0184	Nickel-copper scrap Monel K-500 (castings) solids, clips, dealer buying price, delivered to yard Pittsburgh, US cents/lb	06 Oct 2021	275 - 325	-10.45%	Sep 2021	301 - 369
MB-NI-0230	Nickel-copper scrap Monel R-400 scrap solids, clips, broker buying price, delivered to yard Pittsburgh, US cents/lb	06 Oct 2021	400 - 455	-1.72%	Sep 2021	410 - 490
MB-NI-0182	Nickel-copper scrap Monel R-400 scrap solids, clips, dealer buying price, delivered to yard Pittsburgh, US cents/lb	06 Oct 2021	290 - 350	-7.25%	Sep 2021	315 - 375
MB-NI-0231	Nickel-copper scrap Monel scrap turnings, broker buying price, delivered to yard Pittsburgh, US cents/lb	06 Oct 2021	275 - 330	-6.92%	Sep 2021	300 - 350
MB-NI-0183	Nickel-copper scrap Monel scrap turnings, dealer buying price, delivered to yard Pittsburgh, US cents/lb	06 Oct 2021	175 - 225	-14.89%	Sep 2021	210 - 260

**Lead scrap prices**

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-PB-0004	Lead scrap buying price, delivered smelters US, \$/cwt	05 Oct 2021	80 - 85	0.00%	Sep 2021	80 - 85
MB-PB-0003	Lead scrap remelt buying price, delivered smelters US, \$/cwt	05 Oct 2021	87 - 90	0.00%	Sep 2021	87 - 90
MB-PB-0002	Lead scrap cable buying price, delivered smelters US, \$/cwt	05 Oct 2021	86 - 90	0.00%	Sep 2021	86 - 90
MB-PB-0111	Lead scrap heavy soft lead, dealer buying price, delivered to yard US, US cents/lb	01 Oct 2021	45	0.00%	Sep 2021	44
MB-PB-0112	Lead scrap undrained whole batteries, dealer buying price, delivered to yard US, US cents/lb	01 Oct 2021	19	0.00%	Sep 2021	19
MB-PB-0005	Lead scrap whole batteries buying price, delivered smelters US, \$/cwt	05 Oct 2021	29 - 32	0.00%	Sep 2021	29.5 - 32.5
MB-PB-0009	Lead scrap heavy soft lead, dealer buying price, delivered to yard Montreal, Canadian cents/lb	01 Oct 2021	50	0.00%	Sep 2021	50
MB-PB-0010	Lead scrap heavy soft lead, dealer buying price, delivered to yard Toronto, Canadian cents/lb	01 Oct 2021	72	-2.70%	Sep 2021	74
MB-PB-0033	Lead scrap undrained whole batteries, dealer buying price, delivered to yard Montreal, Canadian cents/lb	01 Oct 2021	18	0.00%	Sep 2021	18

Zinc scrap prices

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-ZN-0122	Zinc scrap old zinc scrap, dealer buying price, delivered to yard US, US cents/lb	01 Oct 2021	30	0.00%	Sep 2021	34
MB-ZN-0004	Zinc scrap old zinc (clean), buying price, delivered smelters US, US cents/lb	05 Oct 2021	65 - 68	0.00%	Sep 2021	65 - 68
MB-ZN-0003	Zinc scrap new zinc clippings buying price, delivered smelters US, US cents/lb	05 Oct 2021	84 - 87	0.00%	Sep 2021	84 - 87
MB-ZN-0002	Zinc scrap galvanizers dross buying price, delivered smelters US, US cents/lb	05 Oct 2021	85 - 88	0.00%	Sep 2021	82.5 - 85.5
MB-ZN-0050	Zinc scrap old zinc, dealer buying price, delivered to yard Montreal, Canadian cents/lb	01 Oct 2021	30	0.00%	Sep 2021	30

Titanium scrap prices

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-TI-0002	Titanium scrap turnings, unprocessed type 90/6/4, 0.5-2% Sn max, cif Europe, \$/lb	13 Oct 2021	1.8 - 1.9	0.00%	Sep 2021	1.8 - 1.9
MB-TI-0001	Titanium scrap turnings, unprocessed type 90/6/4, 0.5% Sn max, cif Europe, \$/lb	13 Oct 2021	1.8 - 2	0.00%	Sep 2021	1.8 - 2

Ores and alloys prices

Source: dashboard.fastmarkets.com/m/6c3ef6d0-3976-4705-9af1-f3423ca64ee1

Chrome ore and ferro-chrome prices

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-CHO-0002	Chrome ore Turkish lumpy 40-42%, cfr main Chinese ports, \$/tonne	12 Oct 2021	290 - 310	0.00%	Sep 2021	290 - 310
MB-CHO-0003	Chrome ore South Africa UG2 concentrates index basis 42%, cif China, \$/tonne	12 Oct 2021	163	-0.61%	Sep 2021	164.25
MB-FEC-0001	Ferro-chrome low phosphorous, min 65% Cr, max 0.015% P, delivered Europe, \$/lb	12 Oct 2021	1.71 - 1.88	2.27%	Sep 2021	1.65 - 1.82
MB-FEC-0002	Ferro-chrome low carbon, 65% Cr, max 0.06% C, delivered Europe, \$/lb Cr	12 Oct 2021	3.09 - 3.29	3.57%	Sep 2021	2.88 - 3.18
MB-FEC-0003	Ferro-chrome 0.10% C, average 65-70% Cr, delivered Europe, \$/lb Cr	12 Oct 2021	3.05 - 3.25	3.62%	Sep 2021	2.84 - 3.14
MB-FEC-0004	Ferro-chrome high carbon 6-8.5% C, basis 60-70% Cr, max 1.5% Si, delivered Europe, \$/lb Cr	12 Oct 2021	1.62 - 1.8	0.00%	Sep 2021	1.54 - 1.75
MB-FEC-0005	Ferro-chrome contract 6-8% C, basis 50% Cr, ddp China, yuan/tonne	12 Oct 2021	9745 - 9995	0.00%	Sep 2021	9745 - 9995
MB-FEC-0006	Ferro-chrome spot 6-8% C, basis 50% Cr, ddp China, yuan/tonne	12 Oct 2021	11100 - 12000	2.21%	Sep 2021	10225 - 10575
MB-FEC-0007	Ferro-chrome high carbon 6-8% C, basis 60-65% Cr, max 2% Si, in-whs Pittsburgh, US cents/lb	07 Oct 2021	182 - 193	9.01%	Sep 2021	168 - 176
MB-FEC-0008	Ferro-chrome low carbon 0.05%C, 65% Cr min, in-whs Pittsburgh, US cents/lb	07 Oct 2021	325 - 330	1.55%	Sep 2021	304 - 309
MB-FEC-0009	Ferro-chrome low carbon 0.10%C, 62% Cr min, in-whs Pittsburgh, US cents/lb	07 Oct 2021	315 - 320	1.60%	Sep 2021	294 - 299
MB-FEC-0010	Ferro-chrome low carbon 0.15%C, 60% Cr min, in-whs Pittsburgh, US cents/lb	07 Oct 2021	310 - 315	3.31%	Sep 2021	286 - 291
MB-FEC-0011	Ferro-chrome 50% Cr import, cif main Chinese ports, \$/lb contained Cr	12 Oct 2021	1.32	0.00%	Sep 2021	1.26
MB-FEC-0012	Ferro-chrome high carbon 6-8% C, basis 60-65% Cr, max 2% Si, in-whs Pittsburgh, \$/lb	07 Oct 2021	1.82 - 1.93	9.30%	Sep 2021	
MB-FEC-0013	Ferro-chrome low carbon 0.05%C, 65% Cr min, in-whs Pittsburgh, \$/lb	07 Oct 2021	3.25 - 3.3	1.55%	Sep 2021	
MB-FEC-0014	Ferro-chrome low carbon 0.10%C, 62% Cr min, in-whs Pittsburgh, \$/lb	07 Oct 2021	3.15 - 3.2	1.60%	Sep 2021	
MB-FEC-0015	Ferro-chrome low carbon 0.15%C, 60% Cr min, in-whs Pittsburgh, \$/lb	07 Oct 2021	3.1 - 3.15	3.30%	Sep 2021	
MB-FEC-0016	Ferro-chrome lumpy Cr charge quarterly, basis 52% Cr (and high carbon), delivered Europe, \$/lb Cr (rounded to the closest 2 decimal places)	01 Oct 2021	1.8	15.38%	Sep 2021	1.56
MB-FEC-0017	Ferro-chrome high carbon 57-65% Cr, cif dup Japan, \$/lb	07 Oct 2021	1.22 - 1.25	0.00%	Sep 2021	1.22 - 1.25
MB-FEC-0018	Ferro-chrome high carbon 57-65% Cr, cif dup South Korea, \$/lb	07 Oct 2021	1.21 - 1.24	0.00%	Sep 2021	1.21 - 1.24
MB-FEC-0019	Ferro-chrome lumpy Cr benchmark indicator, charge basis 52% (and high carbon), Europe, \$/lb	12 Oct 2021	1.86	0.00%	Sep 2021	1.83
MB-FEC-0020	Ferro-chrome high carbon 6-8.5% C, basis 60-64.9% Cr, max 3% Si, cif Europe, \$/lb Cr	12 Oct 2021	1.41 - 1.47	0.00%	Sep 2021	1.36 - 1.46
MB-FEC-0021	Ferro-chrome high carbon 6-8.5% C, basis 65-70% Cr, max 1.5% Si, delivered Europe, \$/lb Cr	12 Oct 2021	1.62 - 1.8	0.00%	Sep 2021	1.54 - 1.75

Manganese ore and alloy prices

Symbol	Description	Date	Price	+/-	Month	Monthly Average
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Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-FEM-0001	Ferro-manganese high carbon 78% Mn, standard 7.5% C, in-whs Pittsburgh, \$/long ton	07 Oct 2021	2500 - 2550	2.02%	Sep 2021	2450 - 2500
MB-FEM-0002	Ferro-manganese low carbon 80% Mn, max 0.80% C, in-whs Pittsburgh, US cents/lb	07 Oct 2021	235 - 240	0.00%	Sep 2021	219.8 - 228
MB-FEM-0004	Ferro-manganese medium carbon 80% Mn, max 1.50% C, in-whs Pittsburgh, \$/lb	07 Oct 2021	1.95 - 2	0.00%	Sep 2021	
MB-FEM-0006	Ferro-manganese basis 78% Mn max, standard 7.5% C, delivered Europe, €/tonne	08 Oct 2021	1800 - 2000	12.59%	Sep 2021	1575 - 1675
MB-FEM-0007	Ferro-manganese 65% Mn min, max 7% C, in-whs China, yuan/tonne	08 Oct 2021	11500 - 12000	2.17%	Sep 2021	8875 - 9275
MB-MNO-0001	Manganese ore 44% Mn, cif Tianjin, \$/dmtu	08 Oct 2021	5.35	-0.74%	Sep 2021	5.2
MB-MNO-0002	Manganese ore 37% Mn, fob Port Elizabeth, \$/dmtu	08 Oct 2021	2.91	-0.68%	Sep 2021	2.89
MB-MNO-0003	Manganese ore index 37% Mn, cif Tianjin, \$/dmtu	08 Oct 2021	4.59	0.00%	Sep 2021	4.52
MB-MNO-0004	Manganese ore port index, base 37% Mn, range 35-39%, fot Tianjin China, yuan/dmtu	08 Oct 2021	34.6	0.00%	Sep 2021	34.3
MB-MNO-0005	Manganese ore port index, base 44% Mn, range 42-48%, fot Tianjin China, yuan/dmtu	08 Oct 2021	41.4	0.24%	Sep 2021	40.08
MB-SIM-0001	Silico-manganese 65% Mn min, max 17% Si, in-whs China, yuan/tonne	08 Oct 2021	12000 - 12500	16.67%	Sep 2021	8875 - 9300
MB-SIM-0002	Silico-manganese lumpy 65-75% Mn, basis 15-19% Si (scale pro rata), major European destinations €/tonne	08 Oct 2021	1900 - 2000	20.00%	Sep 2021	1585 - 1635
MB-SIM-0004	Silico-manganese 65% Mn min, min 16% Si, fob India, \$/tonne	08 Oct 2021	1900 - 2000	27.87%	Sep 2021	1410 - 1440
MB-SIM-0005	Silico-manganese 65% Mn min, min 16% Si, in-whs Pittsburgh, \$/lb	07 Oct 2021	1.18 - 1.2	0.00%	Sep 2021	

Ferro-silicon prices

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-FES-0001	Ferro-silicon 75% Si min, in-whs China, yuan/tonne	13 Oct 2021	20000 - 21000	-8.89%	Sep 2021	14660 - 15500
MB-FES-0002	Ferro-silicon 75% Si, in-whs Pittsburgh, US cents/lb	07 Oct 2021	275 - 285	6.67%	Sep 2021	215 - 224.4
MB-FES-0003	Ferro-silicon 75% Si, in-whs Pittsburgh, \$/lb	07 Oct 2021	2.75 - 2.85	6.46%	Sep 2021	
MB-FES-0004	Ferro-silicon 75% Si min export, fob China, \$/tonne	13 Oct 2021	4300 - 4400	-3.33%	Sep 2021	2964 - 3090
MB-FES-0005	Ferro-silicon lumpy basis 75% Si (scale pro rata), delivered Europe, €/tonne	08 Oct 2021	4000 - 4200	36.67%	Sep 2021	2072.5 - 2250
MB-FES-0006	Ferro-silicon 75% Si min, cif Japan, \$/tonne	13 Oct 2021	4330 - 4430	-2.67%	Sep 2021	2990 - 3126

Tungsten prices

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-FEU-0001	Ferro-tungsten basis 75% W, in-whs dup Rotterdam, \$/kg W	13 Oct 2021	37 - 38.5	0.00%	Sep 2021	38.89 - 40.44
MB-FEU-0003	Ferro-tungsten export, min 75% fob China, \$/kg W	13 Oct 2021	38.5 - 40	-1.51%	Sep 2021	39.32 - 40.28
MB-W-0001	Tungsten APT 88.5% WO3 min cif Rotterdam and Baltimore duty-free, \$/mtu WO3	08 Oct 2021	315 - 320	0.00%	Sep 2021	311 - 316.5
MB-W-0002	Tungsten concentrate 65% WO3, in-whs China, yuan/tonne	13 Oct 2021	111000 - 113000	0.90%	Sep 2021	110400 - 111600
MB-W-0003	Tungsten APT 88.5% WO3 min, fob main ports China, \$/mtu WO3	13 Oct 2021	309 - 319	1.62%	Sep 2021	303.2 - 308.8

Vanadium & niobium prices



Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-FEV-0003	Ferro-vanadium 78% V min, fob China, \$/kg V	07 Oct 2021	27.74 - 28.54	0.00%	Sep 2021	31.61 - 32.21
MB-FEV-0001	Ferro-vanadium basis 78% V min, 1st grade, ddp Western Europe, \$/kg V	13 Oct 2021	31 - 31.5	0.39%	Sep 2021	34 - 35.89
MB-FEV-0002	Ferro-vanadium 70-80% V, in-whs Pittsburgh, \$/lb	07 Oct 2021	14.85 - 15.5	-3.62%	Sep 2021	16.26 - 16.7
MB-V-0001	Vanadium pentoxide 98% V2O5 min, in-whs Rotterdam, \$/lb V2O5	08 Oct 2021	7.5 - 8.5	1.27%	Sep 2021	8.65 - 9.45
MB-V-0002	Vanadium pentoxide 98% V2O5 min, fob China, \$/lb V2O5	07 Oct 2021	6.38 - 6.45	0.00%	Sep 2021	7.4 - 7.51
MB-V-0004	Vanadium pentoxide 98% V2O5 min, exw China, yuan/tonne	07 Oct 2021	91000 - 92000	0.00%	Sep 2021	105400 - 107000
MB-V-0003	Vanadium nitrogen, basis 77%V, 16% N, exw China, yuan/tonne	07 Oct 2021	138000 - 142000	0.00%	Sep 2021	157200 - 160200
MB-FN-0001	Ferro-niobium 63-67% delivered consumer works, dp, Europe \$ per kg Nb	13 Oct 2021	44 - 46	0.00%	Sep 2021	45 - 47.8

Ferro-nickel & ferro-titanium prices

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-FEN-0003	Ferro-nickel premium/discount, 26-32% Ni contained, cif China, \$/tonne	27 Sep 2021	(600) - (400)		Sep 2021	(600) - (400)
MB-FET-0001	Ferro-titanium 70% Ti, max 4.5% Al, ddp Europe, \$/kg Ti	13 Oct 2021	7.7 - 8.2	0.63%	Sep 2021	7.7 - 8.1
MB-FET-0002	Ferro-titanium 68-72% Ti, ex-whs US, \$/lb	07 Oct 2021	3.6 - 3.7	0.00%	Sep 2021	3.56 - 3.7

Molybdenum prices

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-FEO-0001	Ferro-molybdenum 65% Mo min, in-whs Rotterdam, \$/kg Mo	13 Oct 2021	44.5 - 45.2	1.59%	Sep 2021	44.48 - 45.56
MB-FEO-0002	Ferro-molybdenum 65-70% Mo, in-whs Pittsburgh, \$/lb	07 Oct 2021	21.75 - 22	2.96%	Sep 2021	21.3 - 22.11
MB-FEO-0003	Molybdenum drummed molybdic oxide 57% Mo min, in-whs Rotterdam, \$/lb Mo	13 Oct 2021	19.5 - 19.7	0.51%	Sep 2021	20.12 - 20.32
MB-FEO-0004	Molybdenum MB drummed molybdic oxide Mo, in-whs Busan, \$/lb	13 Oct 2021	18.9 - 19.1	1.71%	Sep 2021	18.91 - 19.19
MB-MO-0001	Molybdenum canned molybdic oxide, in-whs Pittsburgh, \$/lb	07 Oct 2021	18.5 - 19.5	2.70%	Sep 2021	19.23 - 20.14

Steel prices

Source: dashboard.fastmarkets.com/m/2089d493-5d4f-446e-9c96-317d1b54c262

Hot-rolled steel prices

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-STE-0028	Steel hot-rolled coil index domestic, exw Northern Europe, €/tonne	13 Oct 2021	1007	-1.60%	Sep 2021	1089.45
MB-STE-0046	Steel hot-rolled coil import, cfr main port Northern Europe, €/tonne	13 Oct 2021	850 - 870	1.18%	Sep 2021	925 - 950
MB-STE-0047	Steel hot-rolled coil import, cfr main port Southern Europe, €/tonne	13 Oct 2021	800 - 850	0.00%	Sep 2021	821 - 868
MB-STE-0532	Steel hot-rolled coil domestic, exw Central Europe, €/tonne	13 Oct 2021	900 - 970	0.00%	Sep 2021	1018 - 1052
MB-STE-0892	Steel hot-rolled coil index domestic, exw Italy, €/tonne	13 Oct 2021	910	-1.97%	Sep 2021	994.89
MB-STE-0893	Steel hot-rolled coil domestic, exw Spain, €/tonne	13 Oct 2021	1000 - 1050	-3.30%	Sep 2021	1080 - 1114
MB-STE-0107	Steel hot-rolled coil export, fob main port Turkey, \$/tonne	08 Oct 2021	870 - 885	-1.40%	Sep 2021	915 - 952.5
MB-STE-0105	Steel hot-rolled coil import, cfr main port Turkey, \$/tonne	08 Oct 2021	820 - 830	-3.51%	Sep 2021	878.75 - 902.5
MB-STE-0108	Steel hot-rolled coil domestic, exw Turkey, \$/tonne	08 Oct 2021	860 - 880	-2.25%	Sep 2021	915 - 947.5
MB-STE-0014	Steel hot-rolled coil export, fob Black Sea, CIS, \$/tonne	11 Oct 2021	800 - 820	0.00%	Sep 2021	846.25 - 868.75
MB-STE-0065	Steel hot-rolled sheet domestic, cpt Moscow, Russia, rubles/tonne incl. VAT	11 Oct 2021	67000 - 70000	1.48%	Sep 2021	73000
MB-STE-0468	Steel hot-rolled coil index, fob mill US, \$/short ton	13 Oct 2021	1935.8	-0.10%	Sep 2021	
MB-STE-0184	Steel hot-rolled coil index, fob mill US, \$/cwt	13 Oct 2021	96.79	-0.10%	Sep 2021	97.46
MB-STE-0180	Steel hot-rolled coil, import, ddp Houston, \$/short ton	13 Oct 2021	1480 - 1540	0.67%	Sep 2021	1490 - 1550
MB-STE-0007	Steel hot-rolled coil domestic monthly, exw Brazil, reais/tonne	08 Oct 2021	6865 - 7505	-6.08%	Sep 2021	7500 - 7800
MB-STE-0133	Steel hot-rolled coil (dry) export, fob main port Latin America, \$/tonne	08 Oct 2021	950 - 1020	-0.51%	Sep 2021	1038.75 - 1055
MB-STE-0102	Steel hot-rolled coil import, cfr main ports South America, \$/tonne	08 Oct 2021	1030 - 1100	-0.93%	Sep 2021	1027.5 - 1108.75
MB-STE-0444	Steel hot-rolled coil import, cfr main port India, \$/tonne	08 Oct 2021	740 - 745	0.00%	Sep 2021	740 - 745
MB-STE-0445	Steel hot-rolled coil (CR grade) import, cfr main port India, \$/tonne	08 Oct 2021	745 - 750	0.00%	Sep 2021	745 - 750
MB-STE-0442	Steel hot-rolled coil (commodity) export, fob main port India, \$/tonne	08 Oct 2021	835 - 855	-0.88%	Sep 2021	845 - 865
MB-STE-0436	Steel hot-rolled coil domestic, ex-whse India, rupees/tonne	08 Oct 2021	66500 - 67550	1.55%	Sep 2021	65500 - 66500
MB-STE-0158	Steel hot-rolled coil domestic, exw Northern China, yuan/tonne	08 Oct 2021	5780 - 5800	1.05%	Sep 2021	5718 - 5760
MB-STE-0144	Steel hot-rolled coil index export, fob main port China, \$/tonne	13 Oct 2021	921.78	0.00%	Sep 2021	922.15
MB-STE-0154	Steel hot-rolled coil domestic, ex-whs Eastern China, yuan/tonne	13 Oct 2021	5700 - 5880	0.61%	Sep 2021	5746.5 - 5797.5
MB-STE-0139	Steel hot-rolled coil import, cfr Vietnam, \$/tonne	08 Oct 2021	870 - 880	-1.13%	Sep 2021	885 - 897.5
MB-STE-0888	Steel hot-rolled coil (Japan, Korea, Taiwan-origin), import, cfr Vietnam, \$/tonne	08 Oct 2021	930	-1.06%	Sep 2021	930 - 932.5
MB-STE-0125	Steel hot-rolled coil import, cfr Jebel Ali, UAE, \$/tonne	12 Oct 2021	900 - 930	2.23%	Sep 2021	932.5 - 947.5
MB-STE-0113	Steel hot-rolled coil import, cfr Saudi Arabia, \$/tonne	12 Oct 2021	910 - 930	-0.54%	Sep 2021	940 - 972.5

Cold-rolled steel prices

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-STE-0005	Steel cold-rolled coil domestic monthly, exw Brazil, reais/tonne	08 Oct 2021	7915 - 8510	-4.12%	Sep 2021	8510 - 8620
MB-STE-0012	Steel cold-rolled coil export, fob Black Sea, CIS, \$/tonne	11 Oct 2021	900 - 910	0.00%	Sep 2021	963.75 - 972.5



Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-STE-0026	Steel cold-rolled coil domestic, exw Northern Europe, €/tonne	13 Oct 2021	1150 - 1180	-2.51%	Sep 2021	1268 - 1288
MB-STE-0027	Steel cold-rolled coil domestic, exw Southern Europe, €/tonne	13 Oct 2021	1120 - 1150	-2.99%	Sep 2021	1212 - 1246
MB-STE-0044	Steel cold-rolled coil import, cfr main port Northern Europe, €/tonne	13 Oct 2021	960 - 1000	2.62%	Sep 2021	1053 - 1063
MB-STE-0045	Steel cold-rolled coil import, cfr main port Southern Europe, €/tonne	13 Oct 2021	950 - 1000	5.41%	Sep 2021	1020 - 1050
MB-STE-0064	Steel cold-rolled sheet domestic, cpt Moscow, Russia, rubles/tonne incl. VAT	11 Oct 2021	76700 - 77000	-2.10%	Sep 2021	84250 - 84500
MB-STE-0103	Steel cold-rolled coil import, cfr main ports South America, \$/tonne	08 Oct 2021	1130 - 1180	-0.22%	Sep 2021	1135 - 1170
MB-STE-0106	Steel cold-rolled coil import, cfr main port Turkey, \$/tonne	08 Oct 2021	990 - 1000	0.00%	Sep 2021	997.5 - 1005
MB-STE-0109	Steel cold-rolled coil domestic, exw Turkey, \$/tonne	08 Oct 2021	990 - 1020	0.00%	Sep 2021	1080 - 1097.5
MB-STE-0124	Steel cold-rolled coil import, cfr Jebel Ali, UAE, \$/tonne	12 Oct 2021	1030 - 1050	4.52%	Sep 2021	1015 - 1027.5
MB-STE-0132	Steel cold-rolled coil export, fob main port Latin America, \$/tonne	08 Oct 2021	1050 - 1080	0.00%	Sep 2021	1176.25 - 1245
MB-STE-0145	Steel cold-rolled coil export, fob China main port, \$/tonne	12 Oct 2021	1015 - 1030	1.24%	Sep 2021	1012.5 - 1027.5
MB-STE-0153	Steel cold-rolled coil domestic, delivered Eastern China domestic, yuan/tonne	08 Oct 2021	6500 - 6530	0.62%	Sep 2021	6436 - 6488
MB-STE-0181	Steel cold-rolled coil, import, ddp Houston, \$/short ton	13 Oct 2021	1530 - 1610	-1.26%	Sep 2021	1600 - 1640
MB-STE-0185	Steel cold-rolled coil, fob mill US, \$/cwt	07 Oct 2021	110	0.00%	Sep 2021	109.1
MB-STE-0435	Steel cold-rolled coil domestic, ex-whse India, rupees/tonne	08 Oct 2021	76250 - 78000	1.15%	Sep 2021	76625 - 78250
MB-STE-0443	Steel cold-rolled coil import, cfr main port India, \$/tonne	08 Oct 2021	960 - 970	0.00%	Sep 2021	960 - 970
MB-STE-0469	Steel cold-rolled coil, fob mill US, \$/short ton	07 Oct 2021	2200	0.00%	Sep 2021	

Galvanized steel prices

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-STE-0883	Steel hot-dipped galvanized coil (hot-rolled base), fob mill US, \$/cwt	07 Oct 2021	109.5	0.00%	Sep 2021	109.1
MB-STE-0780	Steel hot-dipped galvanized export, fob Turkey, \$/tonne	08 Oct 2021	1150 - 1160	0.00%	Sep 2021	1205 - 1222.5
MB-STE-0434	Steel hot-dipped galvanized coil domestic, ex-whse India, rupees/tonne	08 Oct 2021	80500 - 81500	0.00%	Sep 2021	81625 - 82625
MB-STE-0470	Steel hot-dipped galvanized (base) steel coil, fob mill US, \$/short ton	07 Oct 2021	2200	0.00%	Sep 2021	
MB-STE-0031	Steel hot-dipped galvanized coil domestic, exw Southern Europe, €/tonne	13 Oct 2021	1130 - 1160	-3.78%	Sep 2021	1228 - 1260
MB-STE-0104	Steel hot-dipped galvanized coil import, cfr main ports South America, \$/tonne	08 Oct 2021	1220 - 1255	0.20%	Sep 2021	1212.5 - 1247.5
MB-STE-0091	Steel hot-dipped galvanized coil import, cfr main port Northern Europe, €/tonne	13 Oct 2021	1040 - 1125	-4.63%	Sep 2021	1128 - 1178
MB-STE-0021	Steel hot-dipped galvanized coil domestic, ex-whs Eastern China, yuan/tonne	08 Oct 2021	6800 - 6850	0.66%	Sep 2021	6764 - 6802
MB-STE-0110	Steel hot-dipped galvanized coil domestic, exw Turkey, \$/tonne	08 Oct 2021	1150 - 1160	0.00%	Sep 2021	1200 - 1225
MB-STE-0048	Steel hot-dipped galvanized coil import, cfr main port Southern Europe, €/tonne	13 Oct 2021	1030 - 1100	-0.93%	Sep 2021	1082 - 1154
MB-STE-0030	Steel hot-dipped galvanized coil domestic, exw Northern Europe, €/tonne	13 Oct 2021	1160 - 1180	-2.90%	Sep 2021	1276 - 1308
MB-STE-0123	Steel hot-dipped-galvanized coil import, cfr Jebel Ali, UAE, \$/tonne	12 Oct 2021	1150 - 1200	1.08%	Sep 2021	1173.75 - 1260
MB-STE-0186	Steel hot-dipped galvanized coil (cold-rolled base), fob mill US, \$/cwt	07 Oct 2021	110	0.00%	Sep 2021	109.6
MB-STE-0006	Steel hot-dipped galvanized coil domestic monthly, exw Brazil, reais/tonne	08 Oct 2021	9560 - 10190	0.00%	Sep 2021	9560 - 10190



Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-STE-0441	Steel hot-dipped galvanized coil export, fob main port India, \$/tonne	08 Oct 2021	1200 - 1220	0.00%	Sep 2021	1212.5 - 1235
MB-STE-0182	Steel hot-dipped galvanized 0.012 inch G30, ddp Houston, \$/short ton	13 Oct 2021	1700 - 1760	-3.35%	Sep 2021	1820 - 1886.67
MB-STE-0212	Steel hot-dipped galvanized coil 0.03-0.13 inch G90 (cold-rolled base), fob mill US, \$/cwt	07 Oct 2021	114.75	0.00%	Sep 2021	114.35
MB-STE-0009	Steel galvanized coil 1mm export, fob main port China, \$/tonne	12 Oct 2021	1055 - 1070	0.47%	Sep 2021	1052.5 - 1071.25
MB-STE-0111	Steel prepainted galvanized domestic, exw Turkey, \$/tonne	08 Oct 2021	1250 - 1260	0.00%	Sep 2021	1280 - 1292.5
MB-STE-0187	Steel coil Galvalume, fob mill US, \$/cwt	21 Sep 2021	106	3.92%	Sep 2021	106
MB-STE-0850	Steel coil Galvalume import, cfr main ports South America, \$/tonne	08 Oct 2021	1330 - 1370	0.00%	Sep 2021	1297.5 - 1340

Steel plate prices

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-STE-0013	Steel heavy plate 8-50mm export, fob Black Sea, CIS, \$/tonne	11 Oct 2021	900 - 910	0.00%	Sep 2021	963.75 - 985
MB-STE-0034	Steel domestic plate 8-40mm, exw Northern Europe, €/tonne	13 Oct 2021	940 - 970	-1.55%	Sep 2021	980 - 1012
MB-STE-0035	Steel domestic plate 8-40mm, exw Southern Europe, €/tonne	13 Oct 2021	850 - 860	-1.16%	Sep 2021	894 - 914
MB-STE-0049	Steel plate (8-40mm) import, cfr main port Northern Europe, €/tonne	13 Oct 2021	820 - 840	-1.78%	Sep 2021	850 - 864
MB-STE-0050	Steel plate (8-40mm) import, cfr main port Southern Europe, €/tonne	13 Oct 2021	820 - 840	-1.78%	Sep 2021	850 - 864
MB-STE-0101	Steel plate import, cfr main ports South America, \$/tonne	08 Oct 2021	1070 - 1090	0.00%	Sep 2021	1050 - 1085
MB-STE-0134	Steel heavy plate (thicker than 10mm) export, fob main port Latin America, \$/tonne	08 Oct 2021	990 - 1010	0.00%	Sep 2021	1000 - 1050
MB-STE-0146	Steel heavy plate export, fob China main port, \$/tonne	12 Oct 2021	925 - 940	3.32%	Sep 2021	903.75 - 916.25
MB-STE-0155	Steel plate domestic, delivered whs Eastern China, yuan/tonne	08 Oct 2021	5770 - 5850	2.29%	Sep 2021	5620 - 5672
MB-STE-0172	Steel cut-to-length plate carbon grade, fob mill US, \$/cwt	08 Oct 2021	89	0.00%	Sep 2021	87.25
MB-STE-0179	Steel medium plate, import, ddp Houston, \$/short ton	13 Oct 2021	1560 - 1620	-2.75%	Sep 2021	1536.67 - 1593.33
MB-STE-0437	Steel heavy plate domestic, ex-whse India, rupees/tonne	08 Oct 2021	65000 - 67500	4.74%	Sep 2021	61250 - 65000
MB-STE-0439	Steel heavy plate 12-40mm export, fob main port India, \$/tonne	08 Oct 2021	875 - 885	0.28%	Sep 2021	873.75 - 880
MB-STE-0446	Steel heavy plate 10-40mm import, cfr main port India, \$/tonne	08 Oct 2021	730 - 735	0.00%	Sep 2021	730 - 735
MB-STE-0467	Steel cut-to-length plate carbon grade, fob mill US, \$/short ton	08 Oct 2021	1780	0.00%	Sep 2021	
MB-STE-0514	Steel plate domestic, cpt Moscow, Russia, rubles/tonne incl. VAT	11 Oct 2021	70000	4.48%	Sep 2021	73000 - 77500

Reinforcing bar (rebar) prices

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-STE-0008	Steel reinforcing bar (rebar) domestic monthly, delivered Brazil, reais/tonne	08 Oct 2021	5055 - 5100	-2.45%	Sep 2021	5100 - 5310
MB-STE-0015	Steel reinforcing bar (rebar) export, fob Black Sea, CIS, \$/tonne	11 Oct 2021	680 - 690	0.74%	Sep 2021	698.75 - 710
MB-STE-0036	Steel reinforcing bar (rebar) domestic, delivered Northern Europe, €/tonne	13 Oct 2021	780 - 800	0.00%	Sep 2021	858 - 880
MB-STE-0037	Steel reinforcing bar (rebar) domestic, delivered Southern Europe, €/tonne	13 Oct 2021	730 - 750	2.07%	Sep 2021	744 - 775
MB-STE-0051	Steel reinforcing bar (rebar) import, cfr main EU port Northern Europe, €/tonne	13 Oct 2021	720 - 750	0.00%	Sep 2021	724 - 780
MB-STE-0052	Steel reinforcing bar (rebar) import, cfr main EU port Southern Europe, €/tonne	13 Oct 2021	660 - 700	0.00%	Sep 2021	685 - 708



Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-STE-0066	Steel reinforcing bar (rebar) domestic, cpt Moscow, Russia, rubles/tonne incl. VAT	11 Oct 2021	60000 - 62000	6.55%	Sep 2021	55750 - 57000
MB-STE-0073	Steel reinforcing bar (rebar) export, fob main port Southern Europe, €/tonne	13 Oct 2021	630 - 700	-1.48%	Sep 2021	733 - 758
MB-STE-0092	Steel reinforcing bar (rebar) domestic, exw Poland, zloty/tonne	08 Oct 2021	3600 - 3700	-2.67%	Sep 2021	3925 - 4000
MB-STE-0112	Steel reinforcing bar (rebar) domestic, exw Egypt, E£/tonne	07 Oct 2021	14300 - 14600	0.00%	Sep 2021	14300 - 14600
MB-STE-0119	Steel reinforcing bar (rebar) export, fob main port Turkey, \$/tonne	07 Oct 2021	675 - 690	4.20%	Sep 2021	659 - 668
MB-STE-0126	Steel reinforcing bar (rebar) domestic, exw UAE, dirhams/tonne	12 Oct 2021	2300 - 2346	-2.19%	Sep 2021	2407.5 - 2510
MB-STE-0127	Steel reinforcing bar (rebar) import, cfr Jebel Ali, UAE, \$/tonne	12 Oct 2021	633 - 635	0.32%	Sep 2021	655.5 - 664.75
MB-STE-0142	Steel reinforcing bar (rebar) import, cfr Singapore, \$/tonne	11 Oct 2021	720 - 725	0.00%	Sep 2021	725.75 - 726.25
MB-STE-0147	Steel reinforcing bar (rebar) index export, fob China main port, \$/tonne	12 Oct 2021	959.29	3.66%	Sep 2021	916.05
MB-STE-0152	Steel reinforcing bar (rebar) domestic, ex-whs Eastern China, yuan/tonne	13 Oct 2021	5720 - 5760	-3.37%	Sep 2021	5539 - 5577
MB-STE-0162	Steel reinforcing bar (rebar) domestic, ex-whs Northern China, yuan/tonne	08 Oct 2021	5800 - 5850	1.84%	Sep 2021	5374 - 5410
MB-STE-0170	Steel reinforcing bar (rebar), fob mill US, \$/cwt	13 Oct 2021	49.25	0.00%	Sep 2021	49.25
MB-STE-0171	Steel reinforcing bar (rebar), import, loaded truck Port of Houston for immediate delivery, \$/short ton	13 Oct 2021	940 - 960	0.00%	Sep 2021	942 - 964
MB-STE-0438	Steel rebar domestic, exw India, rupees/tonne	08 Oct 2021	51600 - 51800	0.78%	Sep 2021	46700 - 46900
MB-STE-0465	Steel reinforcing bar (rebar), fob mill US, \$/short ton	13 Oct 2021	985	0.00%	Sep 2021	
MB-STE-0784	Steel reinforcing bar (rebar) domestic, exw Turkey, lira/tonne	07 Oct 2021	7050 - 7150	2.16%	Sep 2021	6625 - 6727

Wire rod prices

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-STE-0017	Steel wire rod (mesh quality) export, fob Black Sea, CIS, \$/tonne	11 Oct 2021	760 - 790	0.00%	Sep 2021	775 - 810
MB-STE-0042	Steel wire rod (mesh quality) domestic, delivered Northern Europe, €/tonne	13 Oct 2021	800 - 820	0.00%	Sep 2021	870 - 892
MB-STE-0043	Steel wire rod (mesh quality) domestic, delivered Southern Europe, €/tonne	13 Oct 2021	750 - 780	0.00%	Sep 2021	802 - 834
MB-STE-0053	Steel wire rod (mesh quality) import, main port Northern Europe, €/tonne	13 Oct 2021	740 - 780	0.00%	Sep 2021	752 - 810
MB-STE-0054	Steel wire rod (mesh quality) import, main port Southern Europe, €/tonne	13 Oct 2021	720 - 750	0.00%	Sep 2021	736 - 758
MB-STE-0074	Steel wire rod export, fob main port Southern Europe, €/tonne	13 Oct 2021	700 - 720	-0.35%	Sep 2021	784 - 804
MB-STE-0120	Steel wire rod (mesh quality) export, fob main port Turkey, \$/tonne	07 Oct 2021	770 - 790	1.96%	Sep 2021	766 - 780
MB-STE-0130	Steel wire rod (mesh quality) export, fob main port Latin America, \$/tonne	08 Oct 2021	800 - 820	0.00%	Sep 2021	800 - 820
MB-STE-0143	Steel wire rod (low carbon) import, cfr Southeast Asia, \$/tonne	11 Oct 2021	760	1.33%	Sep 2021	741.25 - 748.75
MB-STE-0148	Steel wire rod (mesh quality) export, fob China main port, \$/tonne	12 Oct 2021	920 - 930	6.94%	Sep 2021	850 - 860
MB-STE-0164	Steel wire rod (mesh quality) domestic, ex-whs Eastern China, yuan/tonne	08 Oct 2021	5900 - 5970	0.17%	Sep 2021	5768 - 5816
MB-STE-0192	Steel wire rod (low carbon) industrial quality, fob mill US, \$/cwt	21 Sep 2021	57.5 - 60.5	2.61%	Sep 2021	57.5 - 60.5
MB-STE-0193	Steel wire rod (high carbon), fob mill US, \$/cwt	21 Sep 2021	64.75	1.97%	Sep 2021	64.75
MB-STE-0194	Steel wire rod cold-heading quality, ddp, \$/cwt	21 Sep 2021	65	2.36%	Sep 2021	65
MB-STE-0195	Steel wire rod (low carbon) import, loaded truck Port of Houston for immediate delivery, \$/short ton	21 Sep 2021	1130 - 1230	2.61%	Sep 2021	1130 - 1230
MB-STE-0785	Steel wire rod (mesh quality) domestic, exw Turkey, lira/tonne	07 Oct 2021	8120 - 8200	3.95%	Sep 2021	7497 - 7787



Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-STE-0891	Steel wire rod (drawing quality), domestic, delivered Poland, zloty/tonne	08 Oct 2021	3800 - 3900	0.00%	Sep 2021	4025 - 4107.5

Steel beams, sections & bar prices

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-FE-0001	Steel merchant bar export, fob main port Turkey, \$/tonne	07 Oct 2021	730 - 740	5.00%	Sep 2021	698 - 718
MB-STE-0020	Steel hollow sections ASTM A500 Grade B domestic, fob mill US, \$/short ton	07 Oct 2021	2425 - 2475	0.00%	Sep 2021	2425 - 2475
MB-STE-0024	Steel beams domestic, delivered Northern Europe, €/tonne	13 Oct 2021	980 - 1020	0.00%	Sep 2021	1036 - 1064
MB-STE-0025	Steel beams domestic, delivered Southern Europe, €/tonne	13 Oct 2021	980 - 1010	0.00%	Sep 2021	1036 - 1062
MB-STE-0038	Steel sections (medium) domestic, delivered Northern Europe, €/tonne	13 Oct 2021	1275 - 1330	0.00%	Sep 2021	1370 - 1404
MB-STE-0039	Steel sections (medium) domestic, delivered Southern Europe, €/tonne	13 Oct 2021	1275 - 1330	0.00%	Sep 2021	1368 - 1404
MB-STE-0161	Steel sections domestic, ex-whs Eastern China, yuan/tonne	08 Oct 2021	5800 - 5850	1.84%	Sep 2021	5574 - 5614
MB-STE-0199	Steel bar 2 x 2 x 1/4-inch angle merchant products, fob mill US, \$/cwt	24 Sep 2021	58.3	0.00%	Sep 2021	58.3
MB-STE-0200	Steel bar 3 x 3 x 1/4-inch angle merchant products, fob mill US, \$/cwt	24 Sep 2021	58.75	0.00%	Sep 2021	58.75
MB-STE-0201	Steel bar 8 x 11.5-inch channels merchant products, fob mill US, \$/cwt	24 Sep 2021	58	0.00%	Sep 2021	58
MB-STE-0202	Steel bar 1/2 x 4-inch flat merchant products, fob mill US, \$/cwt	24 Sep 2021	58.5	0.00%	Sep 2021	58.5
MB-STE-0203	Steel merchant bar, loaded truck Port of Houston for immediate delivery, \$/short ton	24 Sep 2021	1105 - 1145	0.00%	Sep 2021	1105 - 1145
MB-STE-0204	Steel bar cold-finished 1-inch round 4140 (alloy), fob mill US, \$/cwt	17 Sep 2021	110.5	1.38%	Sep 2021	110.5
MB-STE-0205	Steel bar cold-finished 1-inch round 1018 (carbon), fob mill US, \$/cwt	17 Sep 2021	89.25	0.85%	Sep 2021	89.25
MB-STE-0206	Steel bar cold-finished 1-inch round 12L14 (carbon), fob mill US, \$/cwt	17 Sep 2021	105.25	1.20%	Sep 2021	105.25
MB-STE-0207	Steel bar hot-rolled special bar quality (SBQ) 1-inch round 4100 series (alloy), fob mill US, \$/cwt	17 Sep 2021	78.5	0.00%	Sep 2021	78.5
MB-STE-0208	Steel bar hot-rolled special bar quality (SBQ) 1-inch round 1000 series (carbon), fob mill US, \$/cwt	17 Sep 2021	68	0.00%	Sep 2021	68
MB-STE-0209	Steel beams 8 x 8-inch, fob mill US, \$/cwt	30 Sep 2021	68	3.82%	Sep 2021	68
MB-STE-0210	Steel beams medium sections, loaded truck Port of Houston for immediate delivery, \$/short ton	30 Sep 2021	1315 - 1355	3.89%	Sep 2021	1315 - 1355
MB-STE-0851	Steel hollow sections ASTM 500 Grade B import, ddp US port of entry, \$/short ton	28 Sep 2021	1850 - 1900	-2.60%	Sep 2021	1850 - 1900

Steel billet prices

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-STE-0782	Steel billet export, fob ports Iran, \$/tonne	13 Oct 2021	640 - 642.5	0.59%	Sep 2021	625.8 - 630.2
MB-STE-0558	Steel billet index export, fob Black Sea, CIS, \$/tonne	13 Oct 2021	621	-0.64%	Sep 2021	599.91
MB-STE-0516	Steel billet import, cfr main port Egypt, \$/tonne	07 Oct 2021	620 - 630	0.00%	Sep 2021	620 - 630
MB-STE-0433	Steel billet domestic, exw India, rupees/tonne	08 Oct 2021	46300 - 46500	-0.64%	Sep 2021	41800 - 42000
MB-STE-0440	Steel billet export, fob main port India, \$/tonne	08 Oct 2021	625 - 630	0.00%	Sep 2021	623.75 - 628.75
MB-STE-0141	Steel billet import, cfr Manila, \$/tonne	13 Oct 2021	700 - 710	0.00%	Sep 2021	682.05 - 690
MB-STE-0157	Steel billet domestic, exw Tangshan, Northern China, yuan/tonne	13 Oct 2021	5300	-0.56%	Sep 2021	5172
MB-STE-0890	Steel billet, import, cfr China, \$/tonne	12 Oct 2021	705 - 715	0.71%	Sep 2021	697.5 - 710.5



Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-STE-0116	Steel billet import, cfr main port Turkey, \$/tonne	07 Oct 2021	630 - 640	4.10%	Sep 2021	611 - 623
MB-STE-0117	Steel billet export, fob main port Turkey, \$/tonne	07 Oct 2021	650 - 660	5.22%	Sep 2021	623 - 629
MB-STE-0115	Steel billet domestic, exw Turkey, \$/tonne	07 Oct 2021	650 - 655	4.82%	Sep 2021	623 - 628.6
MB-STE-0128	Steel billet export, fob main port Latin America, \$/tonne	08 Oct 2021	590 - 600	0.00%	Sep 2021	590 - 600
MB-STE-0122	Steel billet import, cfr Jebel Ali, UAE, \$/tonne	12 Oct 2021	620 - 625	0.00%	Sep 2021	623.75 - 628.75

Steel slab prices

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-STE-0781	Steel slab export, fob ports Iran, \$/tonne	13 Oct 2021	658.5 - 662	0.27%	Sep 2021	678 - 694
MB-STE-0566	Steel slab export, fob main port Brazil, \$/tonne	08 Oct 2021	760 - 780	-2.53%	Sep 2021	847.5 - 865
MB-STE-0140	Steel slab import, cfr Southeast Asia/East Asia, \$/tonne	11 Oct 2021	720 - 730	-1.36%	Sep 2021	752.5 - 761.25
MB-STE-0016	Steel slab export, fob Black Sea, CIS, \$/tonne	11 Oct 2021	680 - 690	1.48%	Sep 2021	717.5 - 728.75

Steel tube & pipe prices

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-STE-0022	Steel ERW standard pipe A53 Grade A, fob mill US, \$/short ton	28 Sep 2021	2300 - 2350	0.00%	Sep 2021	2300 - 2350
MB-STE-0023	Steel ERW standard pipe A53 Grade B, fob mill US, \$/short ton	28 Sep 2021	2450 - 2500	2.06%	Sep 2021	2450 - 2500
MB-STE-0056	Steel ERW standard pipe A53 Grade A import, cif Houston, \$/short ton	28 Sep 2021	1950 - 2000	0.00%	Sep 2021	1950 - 2000
MB-STE-0057	Steel ERW standard pipe A53 Grade B import, cif Houston, \$/short ton	28 Sep 2021	2025 - 2075	1.23%	Sep 2021	2025 - 2075
MB-STE-0059	Steel seamless line pipe - API 5LB import, cif Houston, \$/short ton	12 Oct 2021	1750 - 1800	0.00%	Sep 2021	1750 - 1800
MB-STE-0062	Steel seamless OCTG API 5CT - Casing P110, import, cif Houston, \$/short ton	12 Oct 2021	1825 - 1925	0.00%	Sep 2021	1825 - 1925
MB-STE-0063	Steel OCTG API 5CT - Casing J55, fob mill US, \$/short ton	12 Oct 2021	2250 - 2350	4.55%	Sep 2021	2150 - 2250
MB-STE-0071	Steel seamless OCTG API 5CT - Casing P110, fob mill US, \$/short ton	12 Oct 2021	2150 - 2250	7.32%	Sep 2021	2000 - 2100
MB-STE-0090	Steel welded mechanical tubing ASTM A513, fob mill US, \$/short ton	28 Sep 2021	2475 - 2525	0.00%	Sep 2021	2475 - 2525
MB-STE-0166	Steel structural pipe export S235JR grade EN10219 2mm wall thickness, fob main port Turkey, \$/tonne	13 Oct 2021	930 - 940	-4.10%	Sep 2021	960 - 990
MB-STE-0545	Steel ERW line pipe (X52), fob mill US, \$/short ton	12 Oct 2021	2475 - 2525	0.00%	Sep 2021	2475 - 2525
MB-STE-0561	Steel ERW line pipe (X65), fob mill US, \$/short ton	12 Oct 2021	2600 - 2650	0.00%	Sep 2021	2600 - 2650
MB-STE-0564	Steel welded OCTG API 5CT - Casing P110, fob mill US, \$/short ton	12 Oct 2021	2125 - 2175	0.00%	Sep 2021	2125 - 2175
MB-STE-0565	Steel welded OCTG API 5CT - Casing P110, import, cif Houston, \$/short ton	12 Oct 2021	1850 - 1900	0.00%	Sep 2021	1850 - 1900
MB-STE-0869	Steel OCTG API 5CT - Casing J55 import South Korean-made, cif Houston, \$/short ton	12 Oct 2021	1675 - 1725	0.00%	Sep 2021	1675 - 1725
MB-STE-0870	Steel OCTG API 5CT - Casing J55 import non-South Korean-made, cif Houston, \$/short ton	12 Oct 2021	1750 - 1800	0.00%	Sep 2021	1750 - 1800
MB-STE-0871	Steel ERW line pipe (X52) import South Korean-made, cif Houston, \$/short ton	12 Oct 2021	1700 - 1800	0.00%	Sep 2021	1700 - 1800
MB-STE-0872	Steel ERW line pipe (X52) import non-South Korean-made, cif Houston, \$/short ton	12 Oct 2021	2100 - 2200	0.00%	Sep 2021	2100 - 2200
MB-STE-0873	Steel ERW line pipe (X70), fob mill US, \$/short ton	12 Oct 2021	2650 - 2700	0.00%	Sep 2021	2650 - 2700



Stainless & special steel prices

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-ST5-0281	Stainless steel cold-rolled sheet 2mm grade 304 transaction domestic, delivered North Europe, €/tonne	08 Oct 2021	4100 - 4200	0.00%	Sep 2021	4025 - 4200
MB-ST5-0035	Stainless steel 304 cold-rolled sheet, fob mill US, \$/cwt	11 Oct 2021	188	1.76%	Sep 2021	184.75
MB-ST5-0034	Stainless steel 304L cold-rolled sheet, fob mill US, \$/cwt	11 Oct 2021	190	1.74%	Sep 2021	186.75
MB-ST5-0037	Stainless steel 316L cold-rolled sheet, fob mill US, \$/cwt	11 Oct 2021	257.5	2.49%	Sep 2021	251.25
MB-ST5-0005	Stainless steel bright bar grade 304 base price domestic, delivered Europe, €/tonne	08 Oct 2021	1050 - 1100	0.00%	Sep 2021	1000 - 1050
MB-ST5-0004	Stainless steel bright bar grade 304 alloy surcharge domestic, Europe, €/tonne	08 Oct 2021	2682 - 2889	0.00%	Sep 2021	2668 - 2815
MB-ST5-0282	Stainless steel cold-rolled coil 2mm grade 304 export, fob China, \$/tonne	13 Oct 2021	3480 - 3640	1.86%	Sep 2021	3290 - 3388
MB-ST5-0018	Stainless steel cold-rolled coil, Asia grade 304 (2mm 2B), cif East Asian port, \$/tonne	13 Oct 2021	3400 - 3450	0.44%	Sep 2021	3310 - 3386
MB-ST5-0015	Stainless steel cold-rolled coil 2mm grade 304 domestic, ex-whs China, yuan/tonne	13 Oct 2021	21000 - 21200	-0.47%	Sep 2021	19960 - 20480
MB-ST5-0016	Stainless steel cold-rolled coil 2mm grade 430 domestic, ex-whs China, yuan/tonne	13 Oct 2021	11100 - 11150	0.00%	Sep 2021	11260 - 11310
MB-ST5-0283	Stainless steel hot-rolled coil grade 304 export, fob China, \$/tonne	13 Oct 2021	3340 - 3370	1.51%	Sep 2021	3196 - 3224
MB-ST5-0280	Stainless steel hot-rolled coil Asia grade 304, cif port East Asia, \$/tonne	13 Oct 2021	3000 - 3030	1.52%	Sep 2021	3028 - 3050
MB-ST5-0001	Stainless steel cold-rolled sheet 316 2mm alloy surcharge domestic, Europe, €/tonne	08 Oct 2021	3333 - 3426	0.00%	Sep 2021	3283 - 3350
MB-ST5-0002	Stainless steel cold-rolled sheet base price 316 2mm domestic, delivered Europe, €/tonne	08 Oct 2021	2050 - 2150	0.00%	Sep 2021	2037.5 - 2125
MB-ST5-0006	Stainless steel cold-rolled sheet 2mm grade 304 alloy surcharge domestic, Europe, €/tonne	08 Oct 2021	2120 - 2193	0.00%	Sep 2021	2109 - 2166
MB-ST5-0007	Stainless steel cold-rolled sheet 2mm grade 304 base price domestic, delivered Northern Europe, €/tonne	08 Oct 2021	1800 - 1850	0.00%	Sep 2021	1787.5 - 1837.5

Steel raw materials prices

Source: dashboard.fastmarkets.com/m/2741a719-e91d-4e5e-b9b9-29225e060f7c

Iron ore prices

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-IRO-0008	Iron ore 62% Fe fines, cfr Qingdao, \$/tonne	13 Oct 2021	124.17	-3.74%	Sep 2021	120.16
MB-IRO-0009	Iron ore 65% Fe Brazil-origin fines, cfr Qingdao, \$/tonne	13 Oct 2021	148.4	-2.56%	Sep 2021	142.83
MB-IRO-0010	Iron ore 63% Fe Australia-origin lump ore premium, cfr Qingdao, US cents/dmtu	13 Oct 2021	22	-4.35%	Sep 2021	5.98
MB-IRO-0011	Iron ore 62% Fe fines, fot Qingdao, yuan/wet tonne	13 Oct 2021	904	-1.74%	Sep 2021	912.41
MB-IRO-0012	Iron ore 65% Fe blast furnace pellet, cfr Qingdao, \$/tonne	08 Oct 2021	182.76	1.52%	Sep 2021	181.85
MB-IRO-0013	Iron ore 66% Fe concentrate, cfr Qingdao, \$/tonne	08 Oct 2021	138.51	1.44%	Sep 2021	144.12
MB-IRO-0015	Iron ore 58% Fe fines, cfr Qingdao, \$/tonne	13 Oct 2021	80.04	-4.16%	Sep 2021	82.51
MB-IRO-0016	Iron ore 58% Fe fines high-grade premium, cfr Qingdao, \$/tonne	13 Oct 2021	13	-13.33%	Sep 2021	9.32
MB-IRO-0017	Iron ore 58% Fe fines high-grade premium index, cfr Qingdao, \$/tonne	13 Oct 2021	93.04	-5.55%	Sep 2021	91.83
MB-IRO-0018	Iron ore 62% Fe fines, % Fe VIU, cfr Qingdao, \$/tonne	11 Oct 2021	2.57	4.90%	Sep 2021	2.27
MB-IRO-0019	Iron ore 65% Fe fines, % Fe VIU, cfr Qingdao \$/tonne	11 Oct 2021	2.68	-1.11%	Sep 2021	2.76
MB-IRO-0020	Iron ore 62% Fe fines, % Si VIU, cfr Qingdao, \$/tonne	11 Oct 2021	(5.24)		Sep 2021	(5.31)
MB-IRO-0021	Iron ore 62% Fe fines, % Al2O3 VIU, cfr Qingdao, \$/tonne	11 Oct 2021	(6.37)		Sep 2021	(6.15)
MB-IRO-0022	Iron ore 62% Fe fines, fot Qingdao, \$/tonne conversion	13 Oct 2021	129.81	-1.86%	Sep 2021	130.91
MB-IRO-0024	Iron ore 62% Fe fines, 0.01% P VIU, cfr Qingdao, \$/tonne	11 Oct 2021	(0.84)		Sep 2021	(0.69)
MB-IRO-0076	Iron ore product differential - 62% Fe Pilbara Blend Fines, cfr Qingdao, \$/tonne	13 Oct 2021	(1.3)		Sep 2021	(0.48)
MB-IRO-0077	Iron ore DR-grade pellet premium to 65% Fe fines index, Middle East reference, \$/tonne	30 Sep 2021	70	0.00%	Sep 2021	70
MB-IRO-0114	Iron ore 62% Fe Pilbara blend fines, cfr Qingdao, \$/tonne	13 Oct 2021	122.87	-3.78%	Sep 2021	119.67
MB-IRO-0144	Iron ore 62% Fe low-alumina fines, cfr Qingdao, \$/tonne	13 Oct 2021	125.09	-3.90%	Sep 2021	121.26
MB-IRO-0177	Iron ore pellet premium over 65% Fe fines, cfr China, \$/tonne	08 Oct 2021	41.9	1.70%	Sep 2021	34.48

Coking coal, coke & PCI prices

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-COA-0001	Hard coking coal domestic China spot market, Shanxi-origin, delivered Tangshan, yuan/tonne	11 Oct 2021	3700 - 4350	-2.78%	Sep 2021	3752.5 - 4492.5
MB-COA-0002	Hard coking coal, cfr Jingtang, \$/dmt	13 Oct 2021	559.46	0.21%	Sep 2021	479.84
MB-COA-0003	Premium hard coking coal, fob DBCT, \$/dmt	13 Oct 2021	405.55	-0.18%	Sep 2021	351.58
MB-COA-0004	Hard coking coal, fob DBCT, \$/dmt	13 Oct 2021	347.34	0.00%	Sep 2021	293.13
MB-COA-0005	Premium hard coking coal, cfr Jingtang, \$/dmt	13 Oct 2021	608.85	-0.02%	Sep 2021	528.61
MB-COA-0006	Coke 65% CSR, fob China, \$/tonne	12 Oct 2021	680 - 695	-2.48%	Sep 2021	657.5 - 678.75
MB-COA-0007	PCI low-vol, cfr Jingtang, \$/dmt	08 Oct 2021	284.62	0.70%	Sep 2021	262.99
MB-COA-0008	PCI low-vol, fob DBCT, \$/dmt	08 Oct 2021	255.44	1.00%	Sep 2021	228.26



Pig iron, DRI & HBI prices

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-FE-0002	Hot-briquetted iron export, fob main port Venezuela, \$/tonne	08 Oct 2021	370 - 390	0.00%	Sep 2021	422.5 - 435
MB-FE-0003	Hot-briquetted iron, fob New Orleans, \$/tonne	11 Oct 2021	430 - 440	0.00%	Sep 2021	430 - 440
MB-FE-0004	Hot-briquetted iron, cfr Italian ports, \$/tonne	07 Oct 2021	460	0.00%	Sep 2021	466 - 468
MB-FEN-0001	Nickel pig iron, high-grade NPI content 10-15%, contract, ddp China, yuan/nickel unit price	08 Oct 2021	1430 - 1450	0.00%	Sep 2021	1430 - 1450
MB-FEN-0002	Nickel pig iron, high-grade NPI content 10-15%, spot, ddp China, yuan/nickel unit price	08 Oct 2021	1440 - 1460	0.00%	Sep 2021	1435 - 1457.5
MB-FEN-0004	Pig iron foundry grade, Brazil, fob New Orleans, \$/tonne	11 Oct 2021	670 - 700	0.00%	Sep 2021	685 - 715
MB-IRO-0001	Pig iron export, fob main port Baltic Sea, CIS, \$/tonne	07 Oct 2021	570 - 600	2.63%	Sep 2021	572 - 584
MB-IRO-0002	Pig iron export, fob main port Black Sea, CIS, \$/tonne	07 Oct 2021	490 - 510	-0.50%	Sep 2021	487 - 509.6
MB-IRO-0004	Pig iron import, cfr Gulf of Mexico, US, \$/tonne	08 Oct 2021	540	0.93%	Sep 2021	530 - 538.75
MB-IRO-0005	Pig iron export, fob port of Vitoria/Rio, Brazil, \$/tonne	08 Oct 2021	480 - 485	0.52%	Sep 2021	477.5 - 491.25
MB-IRO-0006	Pig iron export, fob Ponta da Madeira, Brazil, \$/tonne	08 Oct 2021	520	0.00%	Sep 2021	515 - 517.5
MB-IRO-0014	Pig iron import, cfr Italy, \$/tonne	07 Oct 2021	540 - 545	-0.46%	Sep 2021	536.6 - 544.6
MB-IRO-0023	Direct reduced iron domestic, exw India, rupees/tonne	08 Oct 2021	35600 - 35800	4.08%	Sep 2021	31750 - 31950
MB-IRO-0078	Pig iron basic grade, Brazil, fob New Orleans, \$/tonne	11 Oct 2021	535 - 565	0.00%	Sep 2021	533.75 - 563.75
MB-IRO-0079	Pig iron basic grade, Ukraine/Russia, fob New Orleans, \$/tonne	11 Oct 2021	535 - 565	0.00%	Sep 2021	533.75 - 563.75
MB-IRO-0178	Pig iron, import, cfr China, \$/tonne	23 Sep 2021	540 - 560	2.33%	Sep 2021	537.5 - 550

Steel scrap prices

 Source: dashboard.fastmarkets.com/m/6310df54-51f9-4441-9a17-47f6239159d5

Alabama

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-STE-0213	Steel scrap No1 heavy melt, consumer buying price, delivered mill Alabama, \$/gross ton	07 Oct 2021	410	0.00%	Sep 2021	410
MB-STE-0214	Steel scrap No2 heavy melt, consumer buying price, delivered mill Alabama, \$/gross ton	07 Oct 2021	400	0.00%	Sep 2021	400
MB-STE-0216	Steel scrap No1 busheling, consumer buying price, delivered mill Alabama, \$/gross ton	07 Oct 2021	555	-3.48%	Sep 2021	575
MB-STE-0215	Steel scrap No1 bundles, consumer buying price, delivered mill Alabama, \$/gross ton	07 Oct 2021	547	-3.53%	Sep 2021	567
MB-STE-0218	Steel scrap machine shop turnings, consumer buying price, delivered mill Alabama, \$/gross ton	07 Oct 2021	335	0.00%	Sep 2021	335
MB-STE-0217	Steel scrap shredded auto scrap, consumer buying price, delivered mill Alabama, \$/gross ton	07 Oct 2021	468	0.00%	Sep 2021	468
MB-STE-0219	Steel scrap cut structural/plate 3ft max, consumer buying price, delivered mill Alabama, \$/gross ton	07 Oct 2021	455	0.00%	Sep 2021	455
MB-STE-0220	Steel scrap cut structural/plate 5ft max, consumer buying price, delivered mill Alabama, \$/gross ton	07 Oct 2021	430	0.00%	Sep 2021	430

Arkansas/Tennessee

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-STE-0221	Steel scrap No1 heavy melt, consumer buying price, delivered mill Arkansas/Tenn, \$/gross ton	07 Oct 2021	435	0.00%	Sep 2021	435
MB-STE-0224	Steel scrap No1 busheling, consumer buying price, delivered mill Arkansas/Tenn, \$/gross ton	07 Oct 2021	590	-3.28%	Sep 2021	610
MB-STE-0222	Steel scrap No1 bundles, consumer buying price, delivered mill Arkansas/Tenn, \$/gross ton	07 Oct 2021	585	-3.31%	Sep 2021	605
MB-STE-0223	Steel scrap No2 bundles, consumer buying price, delivered mill Arkansas/Tenn, \$/gross ton	07 Oct 2021	397	0.00%	Sep 2021	397
MB-STE-0226	Steel scrap machine shop turnings, consumer buying price, delivered mill Arkansas/Tenn, \$/gross ton	07 Oct 2021	330	0.00%	Sep 2021	330
MB-STE-0225	Steel scrap shredded auto scrap, consumer buying price, delivered mill Arkansas/Tenn, \$/gross ton	07 Oct 2021	470	0.00%	Sep 2021	470
MB-STE-0227	Steel scrap cut structural/plate 5ft max, consumer buying price, delivered mill Arkansas/Tenn, \$/gross ton	07 Oct 2021	455	0.00%	Sep 2021	455

Atlanta

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-STE-0340	Steel scrap No1 heavy melt, dealer selling price, fob dealer yard Atlanta, \$/gross ton	08 Oct 2021	376	0.00%	Sep 2021	376
MB-STE-0341	Steel scrap No1 busheling, dealer selling price, fob dealer yard Atlanta, \$/gross ton	08 Oct 2021	498	-2.92%	Sep 2021	513
MB-STE-0343	Steel scrap machine shop turnings, dealer selling price, fob dealer yard Atlanta, \$/gross ton	08 Oct 2021	230	0.00%	Sep 2021	230



Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-STE-0342	Steel scrap shredded auto scrap, dealer selling price, fob dealer yard Atlanta, \$/gross ton	08 Oct 2021	406	0.00%	Sep 2021	406
MB-STE-0344	Steel scrap cut structural/plate 5ft max, dealer selling price, fob dealer yard Atlanta, \$/gross ton	08 Oct 2021	386	0.00%	Sep 2021	386

Bajjo

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-STE-0553	Steel scrap No1 heavy melt, consumer buying price, delivered mill Bajjo, \$/tonne	12 Oct 2021	347	-7.71%	Sep 2021	434
MB-STE-0551	Steel scrap No1 busheling, consumer buying price, delivered mill Bajjo, \$/tonne	12 Oct 2021	542	-5.41%	Sep 2021	602.25
MB-STE-0552	Steel scrap No1 busheling, consumer buying price, delivered mill Bajjo, peso/tonne	12 Oct 2021	11150	-4.29%	Sep 2021	12037.5
MB-STE-0549	Steel scrap machine shop turnings, consumer buying price, delivered mill Bajjo, \$/tonne	12 Oct 2021	316	-11.98%	Sep 2021	403.25
MB-STE-0550	Steel scrap machine shop turnings, consumer buying price, delivered mill Bajjo, peso/tonne	12 Oct 2021	6500	-10.96%	Sep 2021	8062.5
MB-STE-0556	Steel scrap shredded auto scrap, consumer buying price, delivered mill Bajjo, peso/tonne	12 Oct 2021	11700	0.00%	Sep 2021	11850
MB-STE-0547	Steel scrap cut structural/plate 3ft max, consumer buying price, delivered mill Bajjo, \$/tonne	12 Oct 2021	406	-7.31%	Sep 2021	486.25
MB-STE-0548	Steel scrap cut structural/plate 3ft max, consumer buying price, delivered mill Bajjo, peso/tonne	12 Oct 2021	8350	-6.18%	Sep 2021	9725
MB-STE-0554	Steel scrap No1 heavy melt, consumer buying price, delivered mill Bajjo, peso/tonne	12 Oct 2021	7150	-6.54%	Sep 2021	8675
MB-STE-0555	Steel scrap shredded auto scrap, consumer buying price, delivered mill Bajjo, \$/tonne	12 Oct 2021	568	-1.39%	Sep 2021	592.75

Birmingham

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-STE-0698	Steel scrap No1 heavy melting, broker buying price, fob Birmingham, \$/gross ton	08 Oct 2021	273	0.00%	Sep 2021	273
MB-STE-0699	Steel scrap No2 heavy melting, broker buying price, fob Birmingham, \$/gross ton	08 Oct 2021	263	0.00%	Sep 2021	263
MB-STE-0710	Steel scrap plate and structurals 5ft and under, broker buying price, fob Birmingham \$/gross ton	08 Oct 2021	345	0.00%	Sep 2021	345
MB-STE-0704	Steel scrap machine shop turnings, broker buying price, fob Birmingham \$/gross ton	08 Oct 2021	230	0.00%	Sep 2021	230
MB-STE-0703	Steel scrap shredded scrap, broker buying price, fob Birmingham \$/gross ton	08 Oct 2021	430	0.00%	Sep 2021	430
MB-STE-0702	Steel scrap No1 busheling, broker buying price, fob Birmingham \$/gross ton	08 Oct 2021	455	-4.21%	Sep 2021	475
MB-STE-0700	Steel scrap No1 dealer bundles, broker buying price, fob Birmingham, \$/gross ton	08 Oct 2021	485	-3.96%	Sep 2021	505

Boston

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-STE-0366	Steel scrap No1 heavy melt, export yard buying price, delivered to yard Boston, \$/gross ton	11 Oct 2021	330	0.00%	Sep 2021	332.5
MB-STE-0367	Steel scrap No2 bundles, export yard buying price, delivered to yard Boston, \$/gross ton	11 Oct 2021	250	0.00%	Sep 2021	252.5



Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-STE-0370	Steel scrap auto bodies, export yard buying price, delivered to yard Boston, \$/gross ton	11 Oct 2021	225	0.00%	Sep 2021	230
MB-STE-0369	Steel scrap unstripped motor blocks, export yard buying price, delivered to yard Boston, \$/gross ton	11 Oct 2021	330	0.00%	Sep 2021	332.5
MB-STE-0368	Steel scrap mixed cast, export yard buying price, delivered to yard Boston, \$/gross ton	11 Oct 2021	315	0.00%	Sep 2021	317.5
MB-STE-0371	Steel scrap cut structural/plate 5ft max, export yard buying price, delivered to yard Boston, \$/gross ton	11 Oct 2021	340	0.00%	Sep 2021	342.5

Chicago

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-STE-0228	Steel scrap No1 heavy melt, consumer buying price, delivered mill Chicago, \$/gross ton	07 Oct 2021	430	0.00%	Sep 2021	430
MB-STE-0232	Steel scrap No1 busheling, consumer buying price, delivered mill Chicago, \$/gross ton	07 Oct 2021	560	-3.45%	Sep 2021	580
MB-STE-0230	Steel scrap No1 bundles, consumer buying price, delivered mill Chicago, \$/gross ton	07 Oct 2021	565	-3.42%	Sep 2021	585
MB-STE-0248	Steel scrap steel (tin) can bundles, consumer buying price, delivered mill Chicago, \$/gross ton	07 Oct 2021	420	0.00%	Sep 2021	420
MB-STE-0231	Steel scrap No2 bundles, consumer buying price, delivered mill Chicago, \$/gross ton	07 Oct 2021	315	0.00%	Sep 2021	315
MB-STE-0234	Steel scrap machine shop turnings, consumer buying price, delivered mill Chicago, \$/gross ton	07 Oct 2021	290	0.00%	Sep 2021	290
MB-STE-0233	Steel scrap shredded auto scrap, consumer buying price, delivered mill Chicago, \$/gross ton	07 Oct 2021	480	2.13%	Sep 2021	470
MB-STE-0578	Steel scrap low-residual, ductile-quality shredded clips, consumer buying price, delivered mill Chicago, \$/gross ton	08 Oct 2021	722	-2.70%	Sep 2021	742
MB-STE-0241	Steel scrap unstripped motor blocks, consumer buying price, delivered mill Chicago, \$/gross ton	07 Oct 2021	504	0.00%	Sep 2021	504
MB-STE-0235	Steel scrap cast iron borings, consumer buying price, delivered mill Chicago, \$/gross ton	07 Oct 2021	320	0.00%	Sep 2021	320
MB-STE-0239	Steel scrap cupola cast, consumer buying price, delivered mill Chicago, \$/gross ton	07 Oct 2021	559	0.00%	Sep 2021	559
MB-STE-0240	Steel scrap clean auto cast, consumer buying price, delivered mill Chicago, \$/gross ton	07 Oct 2021	622	0.00%	Sep 2021	622
MB-STE-0242	Steel scrap heavy breakable cast, consumer buying price, delivered mill Chicago, \$/gross ton	07 Oct 2021	502	0.00%	Sep 2021	502
MB-STE-0243	Steel scrap drop broken machinery cast, consumer buying price, delivered mill Chicago, \$/gross ton	07 Oct 2021	537	0.00%	Sep 2021	537
MB-STE-0238	Steel scrap foundry steel 2ft max, consumer buying price, delivered mill Chicago, \$/gross ton	07 Oct 2021	494	0.00%	Sep 2021	494
MB-STE-0244	Steel scrap rail crops 2ft max, consumer buying price, delivered mill Chicago, \$/gross ton	07 Oct 2021	553	0.00%	Sep 2021	553
MB-STE-0246	Steel scrap steel car wheels, consumer buying price, delivered mill Chicago, \$/gross ton	07 Oct 2021	495	0.00%	Sep 2021	495
MB-STE-0577	Steel scrap low-residual, black foundry busheling, consumer buying price, delivered mill Chicago, \$/gross ton	08 Oct 2021	722	-2.70%	Sep 2021	742
MB-STE-0236	Steel scrap cut structural/plate 2ft max, consumer buying price, delivered mill Chicago, \$/gross ton	07 Oct 2021	584	0.00%	Sep 2021	584
MB-STE-0237	Steel scrap cut structural/plate 5ft max, consumer buying price, delivered mill Chicago, \$/gross ton	07 Oct 2021	465	0.00%	Sep 2021	465



Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-STE-0579	Steel scrap low-alloy punchings, consumer buying price, delivered mill Chicago, \$/gross ton	08 Oct 2021	742	-2.62%	Sep 2021	762
MB-STE-0229	Steel scrap No2 heavy melt, consumer buying price, delivered mill Chicago, \$/gross ton	07 Oct 2021	415	0.00%	Sep 2021	415

Cincinnati

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-STE-0249	Steel scrap No1 heavy melt, consumer buying price, delivered mill Cincinnati, \$/gross ton	07 Oct 2021	410	0.00%	Sep 2021	410
MB-STE-0251	Steel scrap No1 busheling, consumer buying price, delivered mill Cincinnati, \$/gross ton	07 Oct 2021	555	-1.77%	Sep 2021	565
MB-STE-0250	Steel scrap No1 bundles, consumer buying price, delivered mill Cincinnati, \$/gross ton	07 Oct 2021	555	-1.77%	Sep 2021	565
MB-STE-0253	Steel scrap machine shop turnings, consumer buying price, delivered mill Cincinnati, \$/gross ton	07 Oct 2021	247	0.00%	Sep 2021	247
MB-STE-0252	Steel scrap shredded auto scrap, consumer buying price, delivered mill Cincinnati, \$/gross ton	07 Oct 2021	430	0.00%	Sep 2021	430
MB-STE-0254	Steel scrap cut structural/plate 5ft max, consumer buying price, delivered mill Cincinnati, \$/gross ton	07 Oct 2021	435	0.00%	Sep 2021	435

Cleveland

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-STE-0255	Steel scrap No1 heavy melt, consumer buying price, delivered mill Cleveland, \$/gross ton	08 Oct 2021	425	0.00%	Sep 2021	425
MB-STE-0257	Steel scrap No1 busheling, consumer buying price, delivered mill Cleveland, \$/gross ton	08 Oct 2021	620	0.00%	Sep 2021	620
MB-STE-0256	Steel scrap No1 bundles, consumer buying price, delivered mill Cleveland, \$/gross ton	08 Oct 2021	620	0.00%	Sep 2021	620
MB-STE-0269	Steel scrap steel (tin) can bundles, consumer buying price, delivered mill Cleveland, \$/gross ton	08 Oct 2021	410	0.00%	Sep 2021	410
MB-STE-0259	Steel scrap machine shop turnings, consumer buying price, delivered mill Cleveland, \$/gross ton	08 Oct 2021	245	0.00%	Sep 2021	245
MB-STE-0258	Steel scrap shredded auto scrap, consumer buying price, delivered mill Cleveland, \$/gross ton	08 Oct 2021	460	0.00%	Sep 2021	460
MB-STE-0260	Steel scrap cut structural/plate 5ft max, consumer buying price, delivered mill Cleveland, \$/gross ton	08 Oct 2021	440	0.00%	Sep 2021	440
MB-STE-0653	Steel scrap punchings and plate, broker buying price, fob Cleveland, \$/gross ton	08 Oct 2021	740	0.00%	Sep 2021	740

Detroit

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-STE-0272	Steel scrap No1 busheling, consumer buying price, delivered mill Detroit, \$/gross ton	07 Oct 2021	535	-3.60%	Sep 2021	555
MB-STE-0271	Steel scrap No1 bundles, consumer buying price, delivered mill Detroit, \$/gross ton	07 Oct 2021	525	-3.67%	Sep 2021	545
MB-STE-0634	Steel scrap No1 dealer bundles, broker buying price, fob Detroit, \$/gross ton	08 Oct 2021	370	-5.13%	Sep 2021	390
MB-STE-0279	Steel scrap steel (tin) can bundles, consumer buying price, delivered mill Detroit, \$/gross ton	07 Oct 2021	390	0.00%	Sep 2021	390



Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-STE-0274	Steel scrap machine shop turnings, consumer buying price, delivered mill Detroit, \$/gross ton	07 Oct 2021	165	0.00%	Sep 2021	165
MB-STE-0273	Steel scrap shredded auto scrap, consumer buying price, delivered mill Detroit, \$/gross ton	07 Oct 2021	445	0.00%	Sep 2021	445
MB-STE-0636	Steel scrap shredded scrap, broker buying price, fob Detroit, \$/gross ton	08 Oct 2021	318	0.00%	Sep 2021	318
MB-STE-0277	Steel scrap cupola cast, consumer buying price, delivered mill Detroit, \$/gross ton	07 Oct 2021	415	0.00%	Sep 2021	415
MB-STE-0278	Steel scrap clean auto cast, consumer buying price, delivered mill Detroit, \$/gross ton	07 Oct 2021	455	0.00%	Sep 2021	455
MB-STE-0276	Steel scrap foundry steel 2ft max, consumer buying price, delivered mill Detroit, \$/gross ton	07 Oct 2021	430	0.00%	Sep 2021	430
MB-STE-0640	Steel scrap cast iron borings, broker buying price, fob Detroit, \$/gross ton	08 Oct 2021	75	0.00%	Sep 2021	75
MB-STE-0275	Steel scrap cut structural/plate 5ft max, consumer buying price, delivered mill Detroit, \$/gross ton	07 Oct 2021	420	0.00%	Sep 2021	420
MB-STE-0637	Steel scrap plate and structurals 5ft and under, broker buying price, fob Detroit, \$/gross ton	08 Oct 2021	296	0.00%	Sep 2021	296
MB-STE-0633	Steel scrap No1 heavy melting, broker buying price, fob Detroit, \$/gross ton	08 Oct 2021	270	0.00%	Sep 2021	270
MB-STE-0635	Steel scrap No1 busheling, broker buying price, fob Detroit, \$/gross ton	08 Oct 2021	418	-4.57%	Sep 2021	438
MB-STE-0638	Steel scrap machine shop turnings, broker buying price, fob Detroit, \$/gross ton	08 Oct 2021	45	0.00%	Sep 2021	45
MB-STE-0270	Steel scrap No1 heavy melt, consumer buying price, delivered mill Detroit, \$/gross ton	07 Oct 2021	410	0.00%	Sep 2021	410

Hamilton

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-STE-0333	Steel scrap No1 heavy melt, consumer buying price, delivered mill Hamilton, Canadian \$/net ton	08 Oct 2021	349	0.00%	Sep 2021	349
MB-STE-0772	Steel scrap No1 heavy melting, broker buying price, fob Hamilton, Canadian \$/net ton	08 Oct 2021	294	0.00%	Sep 2021	294
MB-STE-0335	Steel scrap No1 busheling, consumer buying price, delivered mill Hamilton, Canadian \$/net ton	08 Oct 2021	572	-1.72%	Sep 2021	582
MB-STE-0774	Steel scrap No1 busheling, broker buying price, fob Hamilton, Canadian \$/net ton	08 Oct 2021	471	-2.08%	Sep 2021	481
MB-STE-0334	Steel scrap No1 bundles, consumer buying price, delivered mill Hamilton, Canadian \$/net ton	08 Oct 2021	586	-1.68%	Sep 2021	596
MB-STE-0773	Steel scrap No1 dealer bundles, broker buying price, fob Hamilton, Canadian \$/ net ton	08 Oct 2021	576	-1.71%	Sep 2021	586
MB-STE-0777	Steel scrap machine shop turnings, broker buying price, fob Hamilton, Canadian \$/ net ton	08 Oct 2021	186	0.00%	Sep 2021	186
MB-STE-0336	Steel scrap shredded auto scrap, consumer buying price, delivered mill Hamilton, Canadian \$/net ton	08 Oct 2021	533	2.90%	Sep 2021	518
MB-STE-0776	Steel scrap shredded scrap, broker buying price, fob Hamilton, Canadian \$/ net ton	08 Oct 2021	255	6.25%	Sep 2021	240
MB-STE-0337	Steel scrap cut structural/plate 5ft max, consumer buying price, delivered mill Hamilton, Canadian \$/net ton	08 Oct 2021	372	0.00%	Sep 2021	372

Houston

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-STE-0350	Steel scrap No1 heavy melt, dealer selling price, fob dealer yard Houston, \$/gross ton	07 Oct 2021	260	0.00%	Sep 2021	260



Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-STE-0765	Steel scrap No1 heavy melting, broker buying price, fob Houston \$/gross ton	08 Oct 2021	255	0.00%	Sep 2021	255
MB-STE-0766	Steel scrap No2 heavy melting, broker buying price, fob Houston \$/gross ton	08 Oct 2021	245	0.00%	Sep 2021	245
MB-STE-0351	Steel scrap No1 busheling, dealer selling price, fob dealer yard Houston, \$/gross ton	07 Oct 2021	382	-4.98%	Sep 2021	402
MB-STE-0405	Steel scrap No1 busheling, consumer buying price trend, delivered mill Houston, \$/gross ton	07 Oct 2021	(20)		Sep 2021	(50)
MB-STE-0767	Steel scrap No1 busheling, broker buying price, fob Houston \$/gross ton	08 Oct 2021	410	-4.65%	Sep 2021	430
MB-STE-0353	Steel scrap machine shop turnings, dealer selling price, fob dealer yard Houston, \$/gross ton	07 Oct 2021	185	0.00%	Sep 2021	185
MB-STE-0769	Steel scrap machine shop turnings, broker buying price, fob Houston \$/gross ton	08 Oct 2021	175	0.00%	Sep 2021	175
MB-STE-0352	Steel scrap shredded auto scrap, dealer selling price, fob dealer yard Houston, \$/gross ton	07 Oct 2021	285	0.00%	Sep 2021	285
MB-STE-0768	Steel scrap shredded scrap, broker buying price, fob Houston \$/gross ton	08 Oct 2021	275	0.00%	Sep 2021	275
MB-STE-0354	Steel scrap cut structural/plate 5ft max, dealer selling price, fob dealer yard Houston, \$/gross ton	07 Oct 2021	290	0.00%	Sep 2021	290
MB-STE-0408	Steel scrap cut structural/plate 5ft max, consumer buying price trend, delivered mill Houston, \$/gross ton	07 Oct 2021	0		Sep 2021	(20)
MB-STE-0770	Steel scrap plate and structurals 5ft and under, broker buying price, fob Houston \$/gross ton	08 Oct 2021	280	0.00%	Sep 2021	280
MB-STE-0404	Steel scrap No1 heavy melt, consumer buying price trend, delivered mill Houston, \$/gross ton	07 Oct 2021	0		Sep 2021	(20)
MB-STE-0407	Steel scrap machine shop turnings, consumer buying price trend, delivered mill Houston, \$/gross ton	07 Oct 2021	0		Sep 2021	(20)
MB-STE-0406	Steel scrap shredded auto scrap, consumer buying price trend, delivered mill Houston, \$/gross ton	07 Oct 2021	0		Sep 2021	(20)

Los Angeles

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-STE-0372	Steel scrap No1 heavy melt, export yard buying price, delivered to yard Los Angeles, \$/gross ton	11 Oct 2021	255	0.00%	Sep 2021	265
MB-STE-0425	Steel scrap HMS 1&2 (80:20), export index, fob Los Angeles, \$/tonne	13 Oct 2021	445	2.30%	Sep 2021	427.5
MB-STE-0374	Steel scrap No1 busheling, export yard buying price, delivered to yard Los Angeles, \$/gross ton	11 Oct 2021	265	0.00%	Sep 2021	275
MB-STE-0373	Steel scrap No2 bundles, export yard buying price, delivered to yard Los Angeles, \$/gross ton	11 Oct 2021	155	0.00%	Sep 2021	165
MB-STE-0375	Steel scrap machine shop turnings, export yard buying price, delivered to yard Los Angeles, \$/gross ton	11 Oct 2021	55	0.00%	Sep 2021	60
MB-STE-0378	Steel scrap cut structural/plate 5ft max, export yard buying price, delivered to yard Los Angeles, \$/gross ton	11 Oct 2021	265	0.00%	Sep 2021	275

Midwest

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-STE-0424	Steel scrap No1 heavy melt, index, delivered Midwest mill, \$/gross ton	11 Oct 2021	436.15	0.45%	Sep 2021	434.21
MB-STE-0882	Steel scrap No1 busheling, indicator, delivered Midwest mill, \$/gross ton	13 Oct 2021	580	0.00%	Sep 2021	594.29
MB-STE-0422	Steel scrap No1 busheling, index, delivered Midwest mill, \$/gross ton	11 Oct 2021	583.43	-2.97%	Sep 2021	601.31
MB-STE-0423	Steel scrap shredded, index, delivered Midwest mill, \$/gross ton	11 Oct 2021	485.52	2.14%	Sep 2021	475.35



Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-STE-0787	Steel scrap shredder feed, fob Midwest, \$/gross ton	11 Oct 2021	192.69	0.00%	Sep 2021	196.05

Monterrey

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-STE-0533	Steel scrap No1 heavy melt, consumer buying price, delivered mill Monterrey, \$/tonne	12 Oct 2021	376	-6.23%	Sep 2021	459.25
MB-STE-0534	Steel scrap No1 heavy melt, consumer buying price, delivered mill Monterrey, peso/tonne	12 Oct 2021	7750	-4.91%	Sep 2021	9175
MB-STE-0539	Steel scrap No1 busheling, consumer buying price, delivered mill Monterrey, \$/tonne	12 Oct 2021	534	-1.29%	Sep 2021	584
MB-STE-0540	Steel scrap No1 busheling, consumer buying price, delivered mill Monterrey, peso/tonne	12 Oct 2021	11000	0.00%	Sep 2021	11675
MB-STE-0541	Steel scrap machine shop turnings, consumer buying price, delivered mill Monterrey, \$/tonne	12 Oct 2021	379	-3.81%	Sep 2021	432.25
MB-STE-0542	Steel scrap machine shop turnings, consumer buying price, delivered mill Monterrey, peso/tonne	12 Oct 2021	7800	-2.50%	Sep 2021	8637.5
MB-STE-0535	Steel scrap shredded auto scrap, consumer buying price, delivered mill Monterrey, \$/tonne	12 Oct 2021	544	-2.16%	Sep 2021	576
MB-STE-0536	Steel scrap shredded auto scrap, consumer buying price, delivered mill Monterrey, peso/tonne	12 Oct 2021	11200	-0.89%	Sep 2021	11512.5
MB-STE-0537	Steel scrap cut structural/plate 3ft max, consumer buying price, delivered mill Monterrey, \$/tonne	12 Oct 2021	471	-8.01%	Sep 2021	553.5
MB-STE-0538	Steel scrap cut structural/plate 3ft max, consumer buying price, delivered mill Monterrey, peso/tonne	12 Oct 2021	9700	-6.73%	Sep 2021	11062.5

Montreal

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-STE-0789	Steel scrap No1 heavy melting, consumer buying price, fob Montreal, Canadian \$/net ton	12 Oct 2021	385	0.00%	Sep 2021	385
MB-STE-0790	Steel scrap No1 busheling, consumer buying price, fob Montreal, Canadian \$/net ton	12 Oct 2021	540	-2.70%	Sep 2021	555
MB-STE-0848	Steel scrap No2 bundles, consumer buying price, fob Montreal, Canadian \$/net ton	12 Oct 2021	295	5.36%	Sep 2021	280
MB-STE-0792	Steel scrap machine shop turnings, consumer buying price, fob Montreal, Canadian \$/net ton	12 Oct 2021	315	0.00%	Sep 2021	315
MB-STE-0793	Steel scrap cut structural/plate 5ft max, consumer buying price, fob Montreal, Canadian \$/net ton	12 Oct 2021	425	0.00%	Sep 2021	425

New York

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-STE-0379	Steel scrap No1 heavy melt, export yard buying price, delivered to yard New York, \$/gross ton	11 Oct 2021	335	0.00%	Sep 2021	337.5
MB-STE-0418	Steel scrap HMS 1&2 (80:20), export index, fob New York, \$/tonne	13 Oct 2021	412	2.26%	Sep 2021	401.33
MB-STE-0380	Steel scrap No2 bundles, export yard buying price, delivered to yard New York, \$/gross ton	11 Oct 2021	285	0.00%	Sep 2021	287.5
MB-STE-0381	Steel scrap machine shop turnings, export yard buying price, delivered to yard New York, \$/gross ton	11 Oct 2021	230	0.00%	Sep 2021	232.5



Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-STE-0419	Steel scrap shredded scrap, export index, fob New York, \$/tonne	13 Oct 2021	432.5	3.22%	Sep 2021	417.45
MB-STE-0384	Steel scrap auto bodies, export yard buying price, delivered to yard New York, \$/gross ton	11 Oct 2021	315	0.00%	Sep 2021	317.5
MB-STE-0383	Steel scrap unstripped motor blocks, export yard buying price, delivered to yard New York, \$/gross ton	11 Oct 2021	350	0.00%	Sep 2021	352.5
MB-STE-0382	Steel scrap mixed cast, export yard buying price, delivered to yard New York, \$/gross ton	11 Oct 2021	330	0.00%	Sep 2021	332.5
MB-STE-0385	Steel scrap cut structural/plate 5ft max, export yard buying price, delivered to yard New York, \$/gross ton	11 Oct 2021	345	0.00%	Sep 2021	347.5

North Carolina/Virginia

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-STE-0280	Steel scrap No1 heavy melt, consumer buying price, delivered mill North Carolina/Virginia, \$/gross ton	08 Oct 2021	420	0.00%	Sep 2021	420
MB-STE-0281	Steel scrap No1 busheling, consumer buying price, delivered mill North Carolina/Virginia, \$/gross ton	08 Oct 2021	530	-1.85%	Sep 2021	540
MB-STE-0283	Steel scrap machine shop turnings, consumer buying price, delivered mill North Carolina/Virginia, \$/gross ton	08 Oct 2021	335	0.00%	Sep 2021	335
MB-STE-0282	Steel scrap, shredded auto scrap, consumer buying price, delivered mill North Carolina/Virginia, \$/gross ton	08 Oct 2021	440	0.00%	Sep 2021	440
MB-STE-0284	Steel scrap cut structural/plate 5ft max, consumer buying price, delivered mill North Carolina/Virginia, \$/gross ton	08 Oct 2021	430	0.00%	Sep 2021	430

Philadelphia

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-STE-0285	Steel scrap No1 heavy melt, consumer buying price, delivered mill Philadelphia, \$/gross ton	08 Oct 2021	400	0.00%	Sep 2021	400
MB-STE-0386	Steel scrap No1 heavy melt, export yard buying price, delivered to yard Philadelphia, \$/gross ton	11 Oct 2021	335	0.00%	Sep 2021	337.5
MB-STE-0288	Steel scrap No1 busheling, consumer buying price, delivered mill Philadelphia, \$/gross ton	08 Oct 2021	530	0.00%	Sep 2021	530
MB-STE-0286	Steel scrap No1 bundles, consumer buying price, delivered mill Philadelphia, \$/gross ton	08 Oct 2021	530	0.00%	Sep 2021	530
MB-STE-0287	Steel scrap No2 bundles, consumer buying price, delivered mill Philadelphia, \$/gross ton	08 Oct 2021	335	0.00%	Sep 2021	335
MB-STE-0387	Steel scrap No2 bundles, export yard buying price, delivered to yard Philadelphia, \$/gross ton	11 Oct 2021	260	0.00%	Sep 2021	262.5
MB-STE-0290	Steel scrap machine shop turnings, consumer buying price, delivered mill Philadelphia, \$/gross ton	08 Oct 2021	315	0.00%	Sep 2021	315
MB-STE-0289	Steel scrap shredded auto scrap, consumer buying price, delivered mill Philadelphia, \$/gross ton	08 Oct 2021	450	0.00%	Sep 2021	450
MB-STE-0390	Steel scrap auto bodies, export yard buying price, delivered to yard Philadelphia, \$/gross ton	11 Oct 2021	300	0.00%	Sep 2021	302.5
MB-STE-0297	Steel scrap unstripped motor blocks, consumer buying price, delivered mill Philadelphia, \$/gross ton	08 Oct 2021	420	0.00%	Sep 2021	420
MB-STE-0389	Steel scrap unstripped motor blocks, export yard buying price, delivered to yard Philadelphia, \$/gross ton	11 Oct 2021	330	0.00%	Sep 2021	332.5



Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-STE-0295	Steel scrap cupola cast, consumer buying price, delivered mill Philadelphia, \$/gross ton	08 Oct 2021	415	0.00%	Sep 2021	415
MB-STE-0296	Steel scrap clean auto cast, consumer buying price, delivered mill Philadelphia, \$/gross ton	08 Oct 2021	410	0.00%	Sep 2021	410
MB-STE-0298	Steel scrap heavy breakable cast, consumer buying price, delivered mill Philadelphia, \$/gross ton	08 Oct 2021	366	0.00%	Sep 2021	366
MB-STE-0299	Steel scrap drop broken machinery, consumer buying price, delivered mill Philadelphia, \$/gross ton	08 Oct 2021	471	0.00%	Sep 2021	471
MB-STE-0300	Steel scrap rail crops 2ft max, consumer buying price, delivered mill Philadelphia, \$/gross ton	08 Oct 2021	535	0.00%	Sep 2021	535
MB-STE-0301	Steel scrap random rails, consumer buying price, delivered mill Philadelphia, \$/gross ton	08 Oct 2021	410	0.00%	Sep 2021	410
MB-STE-0291	Steel scrap cut structural/plate 2ft max, consumer buying price, delivered mill Philadelphia, \$/gross ton	08 Oct 2021	525	0.00%	Sep 2021	525
MB-STE-0292	Steel scrap cut structural/plate 3ft max, consumer buying price, delivered mill Philadelphia, \$/gross ton	08 Oct 2021	420	0.00%	Sep 2021	420
MB-STE-0293	Steel scrap cut structural/plate 5ft max, consumer buying price, delivered mill Philadelphia, \$/gross ton	08 Oct 2021	410	0.00%	Sep 2021	410
MB-STE-0391	Steel scrap cut structural/plate 5ft max, export yard buying price, delivered to yard Philadelphia, \$/gross ton	11 Oct 2021	345	0.00%	Sep 2021	347.5

Pittsburgh

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-STE-0303	Steel scrap No1 heavy melt, consumer buying price, delivered mill Pittsburgh, \$/gross ton	08 Oct 2021	420	2.44%	Sep 2021	410
MB-STE-0306	Steel scrap No1 busheling, consumer buying price, delivered mill Pittsburgh, \$/gross ton	08 Oct 2021	590	0.00%	Sep 2021	590
MB-STE-0304	Steel scrap No1 bundles, consumer buying price, delivered mill Pittsburgh, \$/gross ton	08 Oct 2021	571	0.00%	Sep 2021	571
MB-STE-0305	Steel scrap No2 bundles, consumer buying price, delivered mill Pittsburgh, \$/gross ton	08 Oct 2021	329	3.13%	Sep 2021	319
MB-STE-0307	Steel scrap No1 industrial bundles, consumer buying price, delivered mill Pittsburgh, \$/gross ton	08 Oct 2021	597	0.00%	Sep 2021	597
MB-STE-0321	Steel scrap steel (tin) can bundles, consumer buying price, delivered mill Pittsburgh, \$/gross ton	08 Oct 2021	340	3.03%	Sep 2021	330
MB-STE-0309	Steel scrap machine shop turnings, consumer buying price, delivered mill Pittsburgh, \$/gross ton	08 Oct 2021	335	0.00%	Sep 2021	335
MB-STE-0308	Steel scrap shredded auto scrap, consumer buying price, delivered mill Pittsburgh, \$/gross ton	08 Oct 2021	470	2.17%	Sep 2021	460
MB-STE-0310	Steel scrap cast iron borings, consumer buying price, delivered mill Pittsburgh, \$/gross ton	08 Oct 2021	290	0.00%	Sep 2021	290
MB-STE-0388	Steel scrap mixed cast, export yard buying price, delivered to yard Philadelphia, \$/gross ton	11 Oct 2021	335	0.00%	Sep 2021	337.5
MB-STE-0311	Steel scrap cut structural/plate 3ft max, consumer buying price, delivered mill Pittsburgh, \$/gross ton	08 Oct 2021	475	2.15%	Sep 2021	465
MB-STE-0312	Steel scrap cut structural/plate 5ft max, consumer buying price, delivered mill Pittsburgh, \$/gross ton	08 Oct 2021	455	2.25%	Sep 2021	445
MB-STE-0598	Steel scrap punchings and plate, consumer buying price, delivered mill Pittsburgh, \$/gross ton	08 Oct 2021	792	0.00%	Sep 2021	792



Seattle/Portland

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-STE-0409	Steel scrap No1 heavy melt, consumer buying price trend, delivered mill Seattle/Portland, \$/gross ton	07 Oct 2021	6		Sep 2021	(22)
MB-STE-0411	Steel scrap machine shop turnings, consumer buying price trend, delivered mill Seattle/Portland, \$/gross ton	07 Oct 2021	6		Sep 2021	(22)
MB-STE-0410	Steel scrap shredded auto scrap, consumer buying price trend, delivered mill Seattle/Portland, \$/gross ton	07 Oct 2021	6		Sep 2021	(21)
MB-STE-0412	Steel scrap cut structural/plate 5ft max, consumer buying price trend, delivered mill Seattle/Portland, \$/gross ton	07 Oct 2021	6		Sep 2021	(22)

South Carolina

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-STE-0322	Steel scrap No1 heavy melt, consumer buying price, delivered mill South Carolina, \$/gross ton	08 Oct 2021	420	0.00%	Sep 2021	420
MB-STE-0323	Steel scrap No1 busheling, consumer buying price, delivered mill South Carolina, \$/gross ton	08 Oct 2021	530	-1.85%	Sep 2021	540
MB-STE-0324	Steel scrap shredded auto scrap, consumer buying price, delivered mill South Carolina, \$/gross ton	08 Oct 2021	440	0.00%	Sep 2021	440
MB-STE-0326	Steel scrap cut structural/plate 5ft max, consumer buying price, delivered mill South Carolina, \$/gross ton	08 Oct 2021	430	0.00%	Sep 2021	430
MB-STE-0325	Steel scrap machine shop turnings, consumer buying price, delivered mill South Carolina, \$/gross ton	08 Oct 2021	335	0.00%	Sep 2021	335

St Louis

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-STE-0355	Steel scrap No1 heavy melt, dealer selling price, fob dealer yard St Louis, \$/gross ton	07 Oct 2021	353	0.00%	Sep 2021	353
MB-STE-0621	Steel scrap No1 heavy melting, broker buying price, fob St Louis, \$/gross ton	08 Oct 2021	385	0.00%	Sep 2021	385
MB-STE-0622	Steel scrap No2 heavy melting, broker buying price, fob St Louis, \$/gross ton	08 Oct 2021	375	0.00%	Sep 2021	375
MB-STE-0357	Steel scrap No1 busheling, dealer selling price, fob dealer yard St Louis, \$/gross ton	07 Oct 2021	528	-3.65%	Sep 2021	548
MB-STE-0623	Steel scrap No1 busheling, broker buying price, fob St Louis, \$/gross ton	08 Oct 2021	545	-3.54%	Sep 2021	565
MB-STE-0356	Steel scrap No1 bundles, dealer selling price, fob dealer yard St Louis, \$/gross ton	07 Oct 2021	528	-3.65%	Sep 2021	548
MB-STE-0624	Steel scrap No1 dealer bundles, broker buying price, fob St Louis, \$/gross ton	08 Oct 2021	540	-3.57%	Sep 2021	560
MB-STE-0359	Steel scrap machine shop turnings, dealer selling price, fob dealer yard St Louis, \$/gross ton	07 Oct 2021	225	0.00%	Sep 2021	225
MB-STE-0627	Steel scrap machine shop turnings, broker buying price, fob St Louis, \$/gross ton	08 Oct 2021	230	0.00%	Sep 2021	230
MB-STE-0358	Steel scrap shredded auto scrap, dealer selling price, fob dealer yard St Louis, \$/gross ton	07 Oct 2021	396	0.00%	Sep 2021	396
MB-STE-0360	Steel scrap cut structural/plate 5ft max, dealer selling price, fob dealer yard St Louis, \$/gross ton	07 Oct 2021	373	0.00%	Sep 2021	373
MB-STE-0631	Steel scrap plate and structurals 5ft and under, broker buying price, fob St Louis, \$/gross ton	08 Oct 2021	400	0.00%	Sep 2021	400
MB-STE-0626	Steel scrap shredded scrap, broker buying price, fob St Louis, \$/gross ton	08 Oct 2021	410	0.00%	Sep 2021	410



Composite

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-STE-0528	Steel scrap No1 heavy melt, consumer buying price, delivered mill Chicago, \$/gross ton, weekly composite	08 Oct 2021	430	0.00%	Sep 2021	
MB-STE-0529	Steel scrap No1 heavy melt, consumer buying price, delivered mill Philadelphia, \$/gross ton, weekly composite	08 Oct 2021	400	0.00%	Sep 2021	
MB-STE-0530	Steel scrap No1 heavy melt, consumer buying price, delivered mill Pittsburgh, \$/gross ton, weekly composite	08 Oct 2021	412	0.49%	Sep 2021	
MB-STE-0531	Steel scrap No1 heavy melt, consumer buying price, delivered mill, \$/gross ton, weekly composite	08 Oct 2021	414	0.16%	Sep 2021	
MB-STE-0524	Steel scrap No1 busheling, consumer buying price, delivered mill Chicago, \$/gross ton, weekly composite	08 Oct 2021	572	-1.38%	Sep 2021	
MB-STE-0525	Steel scrap No1 busheling, consumer buying price, delivered mill Cleveland, \$/gross ton, weekly composite	08 Oct 2021	620	0.00%	Sep 2021	
MB-STE-0526	Steel scrap No1 busheling, consumer buying price, delivered mill Pittsburgh, \$/gross ton, weekly composite	08 Oct 2021	590	0.00%	Sep 2021	
MB-STE-0527	Steel scrap No1 busheling, consumer buying price, delivered mill, \$/gross ton, weekly composite	08 Oct 2021	594	-0.45%	Sep 2021	
MB-STE-0427	Steel scrap Shredded auto, daily composite, delivered mill US, \$/gross ton	13 Oct 2021	467	0.00%	Sep 2021	464.86
MB-STE-0519	Steel scrap shredded auto scrap, consumer buying price, delivered mill Alabama, \$/gross ton, weekly composite	08 Oct 2021	468	0.00%	Sep 2021	
MB-STE-0520	Steel scrap shredded auto scrap, consumer buying price, delivered mill Chicago, \$/gross ton, weekly composite	08 Oct 2021	474	0.85%	Sep 2021	
MB-STE-0521	Steel scrap shredded auto scrap, consumer buying price, delivered mill Philadelphia, \$/gross ton, weekly composite	08 Oct 2021	450	0.00%	Sep 2021	
MB-STE-0522	Steel scrap shredded auto scrap, consumer buying price, delivered mill Pittsburgh, \$/gross ton, weekly composite	08 Oct 2021	462	0.43%	Sep 2021	
MB-STE-0523	Steel scrap shredded auto scrap, consumer buying price, delivered mill, \$/gross ton, weekly composite	08 Oct 2021	463.5	0.32%	Sep 2021	
MB-STE-0426	Steel scrap No1 heavy melt, daily composite, delivered mill US, \$/gross ton	13 Oct 2021	416.67	0.00%	Sep 2021	416.9
MB-STE-0428	Steel scrap No1 busheling, daily composite, delivered mill US, \$/gross ton	13 Oct 2021	590	0.00%	Sep 2021	603.81

US steel scrap shredder feed prices

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-STE-0786	Steel scrap shredder feed, fob Ohio Valley, \$/gross ton	11 Oct 2021	202.09	0.00%	Sep 2021	200.37
MB-STE-0787	Steel scrap shredder feed, fob Midwest, \$/gross ton	11 Oct 2021	192.69	0.00%	Sep 2021	196.05
MB-STE-0788	Steel scrap shredder feed, fob Southeast, \$/gross ton	11 Oct 2021	174.11	1.79%	Sep 2021	173.73

Boston stainless steel scrap

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-STSS-0178	Stainless steel scrap 430 bundles, solids, export yard buying price, delivered to yard Boston, US cents/lb	12 Oct 2021	21 - 22	0.00%	Sep 2021	21 - 22
MB-STSS-0056	Stainless steel scrap 430 bundles, export yard buying price, delivered to yard Boston, \$/gross ton	12 Oct 2021	470 - 493	0.00%	Sep 2021	470 - 493

Chicago stainless steel scrap



Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-ST5-0185	Stainless steel scrap 304 turnings, dealer buying price, delivered to yard Chicago, \$/gross ton	05 Oct 2021	1232 - 1254	-13.29%	Sep 2021	1299 - 1568
MB-ST5-0063	Stainless steel scrap 304 turnings, dealer buying price, delivered to yard Chicago, US cents/lb	05 Oct 2021	55 - 56	-13.28%	Sep 2021	58 - 70
MB-ST5-0190	Stainless steel scrap 304 turnings, broker buying price, delivered to processor Chicago, US cents/lb	12 Oct 2021	83 - 84	5.03%	Sep 2021	83.25 - 85.75
MB-ST5-0068	Stainless steel scrap 304 turnings, broker buying price, delivered to processor Chicago, \$/gross ton	12 Oct 2021	1859 - 1882	5.03%	Sep 2021	1864.75 - 1920.75
MB-ST5-0186	Stainless steel scrap 304 new clips, dealer buying price, delivered to yard Chicago, \$/gross ton	05 Oct 2021	1344 - 1456	-10.71%	Sep 2021	1411 - 1725
MB-ST5-0064	Stainless steel scrap 304 new clips, dealer buying price, delivered to yard Chicago, US cents/lb	05 Oct 2021	60 - 65	-10.71%	Sep 2021	63 - 77
MB-ST5-0189	Stainless steel scrap 304 solids, clips, broker buying price, delivered to processor Chicago, US cents/lb	12 Oct 2021	88 - 89	4.73%	Sep 2021	87.5 - 91
MB-ST5-0067	Stainless steel scrap 304 solids, clips, broker buying price, delivered to processor Chicago, \$/gross ton	12 Oct 2021	1971 - 1994	4.73%	Sep 2021	1960 - 2038.25
MB-ST5-0184	Stainless steel scrap 304 solids, clips, dealer buying price, delivered to yard Chicago, \$/gross ton	05 Oct 2021	1344 - 1456	-10.71%	Sep 2021	1411 - 1725
MB-ST5-0062	Stainless steel scrap 304 solids, clips, dealer buying price, delivered to yard Chicago, US cents/lb	05 Oct 2021	60 - 65	-10.71%	Sep 2021	63 - 77
MB-ST5-0191	Stainless steel scrap 430 bundles, solids, broker buying price, delivered to processor Chicago, US cents/lb	12 Oct 2021	34 - 36	0.00%	Sep 2021	33.25 - 36
MB-ST5-0069	Stainless steel scrap 430 bundles, solids, broker buying price, delivered to processor Chicago, \$/gross ton	12 Oct 2021	762 - 806	0.00%	Sep 2021	745 - 806
MB-ST5-0187	Stainless steel scrap 430 new clips, dealer buying price, delivered to yard Chicago, \$/gross ton	05 Oct 2021	515 - 627	0.00%	Sep 2021	515 - 627
MB-ST5-0065	Stainless steel scrap 430 new clips, dealer buying price, delivered to yard Chicago, US cents/lb	05 Oct 2021	23 - 28	0.00%	Sep 2021	23 - 28
MB-ST5-0192	Stainless steel scrap 430 turnings, broker buying price, delivered to processor Chicago, US cents/lb	12 Oct 2021	28 - 31	1.72%	Sep 2021	28 - 32.25
MB-ST5-0070	Stainless steel scrap 430 turnings, broker buying price, delivered to processor Chicago, \$/gross ton	12 Oct 2021	627 - 694	1.69%	Sep 2021	627 - 722.5
MB-ST5-0194	Stainless steel scrap 409 turnings, broker buying price, delivered to processor Chicago, US cents/lb	12 Oct 2021	25 - 26	2.00%	Sep 2021	25 - 27.25
MB-ST5-0072	Stainless steel scrap 409 turnings, broker buying price, delivered to processor Chicago, \$/gross ton	12 Oct 2021	560 - 582	1.96%	Sep 2021	560 - 610.25
MB-ST5-0193	Stainless steel scrap 409 bundles, solids, broker buying price, delivered to processor Chicago, US cents/lb	12 Oct 2021	30 - 31	3.39%	Sep 2021	28.5 - 31.75
MB-ST5-0071	Stainless steel scrap 409 bundles, broker buying price, delivered to processor Chicago, \$/gross ton	12 Oct 2021	672 - 694	3.41%	Sep 2021	638.25 - 711.25
MB-ST5-0183	Stainless steel scrap 316 solids, clips, dealer buying price, delivered to yard Chicago, \$/gross ton	05 Oct 2021	1859 - 2128	-1.12%	Sep 2021	1792 - 2240
MB-ST5-0061	Stainless steel scrap 316 solids, dealer buying price, delivered to yard Chicago, US cents/lb	05 Oct 2021	83 - 95	-1.11%	Sep 2021	80 - 100
MB-ST5-0066	Stainless steel scrap 316 solids, broker buying price, delivered to processor Chicago, \$/gross ton	12 Oct 2021	2643 - 2688	1.27%	Sep 2021	2643.25 - 2704.75
MB-ST5-0188	Stainless steel scrap 316 solids, clips, broker buying price, delivered to processor Chicago, US cents/lb	12 Oct 2021	118 - 120	1.28%	Sep 2021	118 - 120.75

**Cleveland stainless steel scrap**

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-ST5-0197	Stainless steel scrap 304 turnings, dealer buying price, delivered to yard Cleveland, \$/gross	05 Oct 2021	896 - 1299	0.00%	Sep 2021	896 - 1299
MB-ST5-0202	Stainless steel scrap 304 turnings, broker buying price, delivered to processor Cleveland, US cents/lb	12 Oct 2021	81 - 84	2.48%	Sep 2021	81.5 - 85.75
MB-ST5-0201	Stainless steel scrap 304 solids, clips, broker buying price, delivered to processor Cleveland, US cents/lb	12 Oct 2021	86 - 89	4.79%	Sep 2021	86.5 - 91
MB-ST5-0079	Stainless steel scrap 304 solids, clips, broker buying price, delivered to processor Cleveland, \$/gross ton	12 Oct 2021	1926 - 1994	4.81%	Sep 2021	1937.5 - 2038.25
MB-ST5-0196	Stainless steel scrap 304 solids, clips, dealer buying price, delivered to yard Cleveland, \$/gross	05 Oct 2021	1120 - 1456	0.00%	Sep 2021	1120 - 1456
MB-ST5-0074	Stainless steel scrap 304 solids, clips, dealer buying price, delivered to yard Cleveland, US cents/lb	05 Oct 2021	50 - 65	0.00%	Sep 2021	50 - 65
MB-ST5-0075	Stainless steel scrap 304 turnings, dealer buying price, delivered to yard Cleveland, US cents/lb	05 Oct 2021	40 - 58	0.00%	Sep 2021	40 - 58
MB-ST5-0080	Stainless steel scrap 304 turnings, broker buying price, delivered to processor Cleveland, \$/gross ton	12 Oct 2021	1814 - 1882	2.50%	Sep 2021	1825.5 - 1920.75
MB-ST5-0198	Stainless steel scrap 304 new clips, dealer buying price, delivered to yard Cleveland, \$/gross	05 Oct 2021	1120 - 1456	0.00%	Sep 2021	1120 - 1456
MB-ST5-0076	Stainless steel scrap 304 new clips, dealer buying price, delivered to yard Cleveland, US cents/lb	05 Oct 2021	50 - 65	0.00%	Sep 2021	50 - 65
MB-ST5-0199	Stainless steel scrap 430 new clips, dealer buying price, delivered to yard Cleveland, \$/gross	05 Oct 2021	336 - 560	-4.78%	Sep 2021	381 - 560
MB-ST5-0077	Stainless steel scrap 430 new clips, dealer buying price, delivered to yard Cleveland, US cents/lb	05 Oct 2021	15 - 25	-4.76%	Sep 2021	17 - 25
MB-ST5-0195	Stainless steel scrap 316 solids, clips, dealer buying price, delivered to yard Cleveland, \$/gross	05 Oct 2021	1344 - 1904	0.00%	Sep 2021	1344 - 1904
MB-ST5-0200	Stainless steel scrap 316 solids, clips, broker buying price, delivered to processor Cleveland, US cents/lb	12 Oct 2021	118 - 121	3.91%	Sep 2021	117.5 - 120.75
MB-ST5-0078	Stainless steel scrap 316 solids, clips, broker buying price, delivered to processor Cleveland, \$/gross ton	12 Oct 2021	2643 - 2710	3.90%	Sep 2021	2632 - 2704.75
MB-ST5-0073	Stainless steel scrap 316 solids, clips, dealer buying price, delivered to yard Cleveland, US cents/lb	05 Oct 2021	60 - 85	0.00%	Sep 2021	60 - 85

Detroit stainless steel scrap

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-ST5-0205	Stainless steel scrap 304 turnings, dealer buying price, delivered to yard Detroit, \$/gross ton	05 Oct 2021	1053 - 1254	-4.63%	Sep 2021	1120 - 1299
MB-ST5-0083	Stainless steel scrap 304 turnings, dealer buying price, delivered to yard Detroit, US cents/lb	05 Oct 2021	47 - 56	-4.63%	Sep 2021	50 - 58
MB-ST5-0210	Stainless steel scrap 304 turnings, broker buying price, delivered to processor Detroit, US cents/lb	12 Oct 2021	81 - 84	3.13%	Sep 2021	82.25 - 85.75
MB-ST5-0088	Stainless steel scrap 304 turnings, broker buying price, delivered to processor Detroit, \$/gross ton	12 Oct 2021	1814 - 1882	3.13%	Sep 2021	1842.25 - 1920.75
MB-ST5-0206	Stainless steel scrap 304 new clips, dealer buying price, delivered to yard Detroit, \$/gross ton	05 Oct 2021	1142 - 1344	-6.75%	Sep 2021	1210 - 1456
MB-ST5-0084	Stainless steel scrap 304 new clips, dealer buying price, delivered to yard Detroit, US cents/lb	05 Oct 2021	51 - 60	-6.72%	Sep 2021	54 - 65



Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-ST5-0209	Stainless steel scrap 304 solids, clips, broker buying price, delivered to processor Detroit, US cents/lb	12 Oct 2021	86 - 89	3.55%	Sep 2021	87.5 - 91
MB-ST5-0087	Stainless steel scrap 304 solids, clips, broker buying price, delivered to processor Detroit, \$/gross ton	12 Oct 2021	1926 - 1994	3.54%	Sep 2021	1960 - 2038.25
MB-ST5-0204	Stainless steel scrap 304 solids, clips, dealer buying price, delivered to yard Detroit, \$/gross ton	05 Oct 2021	1142 - 1344	-6.75%	Sep 2021	1210 - 1456
MB-ST5-0082	Stainless steel scrap 304 solids, clips, dealer buying price, delivered to yard Detroit, US cents/lb	05 Oct 2021	51 - 60	-6.72%	Sep 2021	54 - 65
MB-ST5-0207	Stainless steel scrap 430 new clips, dealer buying price, delivered to yard Detroit, \$/gross ton	05 Oct 2021	493 - 560	-2.05%	Sep 2021	515 - 560
MB-ST5-0085	Stainless steel scrap 430 new clips, dealer buying price, delivered to yard Detroit, US cents/lb	05 Oct 2021	22 - 25	-2.08%	Sep 2021	23 - 25
MB-ST5-0211	Stainless steel scrap 430 bundles, solids, broker buying price, delivered to processor Detroit, US cents/lb	12 Oct 2021	35 - 36	0.00%	Sep 2021	35 - 36
MB-ST5-0089	Stainless steel scrap 430 bundles, solids, broker buying price, delivered to processor Detroit, \$/gross ton	12 Oct 2021	784 - 806	0.00%	Sep 2021	784 - 806
MB-ST5-0212	Stainless steel scrap 409 bundles, solids, broker buying price, delivered to processor Detroit, US cents/lb	12 Oct 2021	30 - 31	3.39%	Sep 2021	29.75 - 31.75
MB-ST5-0213	Stainless steel scrap 409 turnings, broker buying price, delivered to processor Detroit, US cents/lb	12 Oct 2021	25 - 26	2.00%	Sep 2021	25.25 - 27.25
MB-ST5-0091	Stainless steel scrap 409 turnings, broker buying price, delivered to processor Detroit, \$/gross ton	12 Oct 2021	560 - 582	1.96%	Sep 2021	565.5 - 610.25
MB-ST5-0090	Stainless steel scrap 409 bundles, solids, broker buying price, delivered to processor Detroit, \$/gross ton	12 Oct 2021	672 - 694	3.41%	Sep 2021	666.5 - 711.25
MB-ST5-0208	Stainless steel scrap 316 solids, clips, broker buying price, delivered to processor Detroit, US cents/lb	12 Oct 2021	118 - 121	1.70%	Sep 2021	118 - 120.75
MB-ST5-0086	Stainless steel scrap 316 solids, clips, broker buying price, delivered to processor Detroit, \$/gross ton	12 Oct 2021	2643 - 2710	1.69%	Sep 2021	2643.25 - 2704.75
MB-ST5-0203	Stainless steel scrap 316 solids, clips, dealer buying price, delivered to yard Detroit, \$/gross ton	05 Oct 2021	1568 - 1859	-1.95%	Sep 2021	1613 - 1882
MB-ST5-0081	Stainless steel scrap 316 solids, dealer buying price, delivered to yard Detroit, US cents/lb	05 Oct 2021	70 - 83	-1.92%	Sep 2021	72 - 84

East Coast stainless steel scrap

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-ST5-0297	Stainless steel scrap 304 new clips, dealer buying price, delivered to yard East Coast, \$/gross ton	05 Oct 2021	1344 - 1635	-1.49%	Sep 2021	1411 - 1613
MB-ST5-0287	Stainless steel scrap 304 new clips, dealer buying price, delivered to yard East Coast, US cents/lb	05 Oct 2021	60 - 73	-1.48%	Sep 2021	63 - 72
MB-ST5-0295	Stainless steel scrap 304 solids, clips, dealer buying price, delivered to yard East Coast, \$/gross ton	05 Oct 2021	1344 - 1635	-2.93%	Sep 2021	1456 - 1613
MB-ST5-0285	Stainless steel scrap 304 solids, clips, dealer buying price, delivered to yard East Coast, US cents/lb	05 Oct 2021	60 - 73	-2.92%	Sep 2021	65 - 72
MB-ST5-0286	Stainless steel scrap 304 turnings, dealer buying price, delivered to yard East Coast, US cents/lb	05 Oct 2021	62 - 63	5.04%	Sep 2021	57 - 62
MB-ST5-0296	Stainless steel scrap 304 turnings, dealer buying price, delivered to yard East Coast, \$/gross ton	05 Oct 2021	1389 - 1411	5.03%	Sep 2021	1277 - 1389
MB-ST5-0298	Stainless steel scrap 430 new clips, dealer buying price, delivered to yard East Coast, \$/gross ton	05 Oct 2021	582 - 627	14.92%	Sep 2021	470 - 582



Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-ST5-0288	Stainless steel scrap 430 new clips, dealer buying price, delivered to yard East Coast, US cents/lb	05 Oct 2021	26 - 28	14.89%	Sep 2021	21 - 26
MB-ST5-0294	Stainless steel scrap 316 solids, clips, dealer buying price, delivered to yard East Coast, \$/gross ton	05 Oct 2021	1882 - 2106	5.98%	Sep 2021	1792 - 1971
MB-ST5-0284	Stainless steel scrap 316 solids, clips, dealer buying price, delivered to yard East Coast, US cents/lb	05 Oct 2021	84 - 94	5.95%	Sep 2021	80 - 88

Houston stainless steel scrap

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-ST5-0218	Stainless steel scrap 304 solids, clips, broker buying price, delivered to processor Houston, US cents/lb	12 Oct 2021	84 - 86	0.00%	Sep 2021	87.5 - 89.25
MB-ST5-0096	Stainless steel scrap 304 solids, clips, broker buying price, delivered to processor Houston, \$/gross ton	12 Oct 2021	1882 - 1926	0.00%	Sep 2021	1960.25 - 1999.25
MB-ST5-0215	Stainless steel scrap 304 solids, clips, dealer buying price, delivered to yard Houston, \$/gross ton	05 Oct 2021	1344 - 1389	5.20%	Sep 2021	1254 - 1344
MB-ST5-0093	Stainless steel scrap 304 solids, clips, dealer buying price, delivered to yard Houston, US cents/lb	05 Oct 2021	60 - 62	5.17%	Sep 2021	56 - 60
MB-ST5-0219	Stainless steel scrap 304 turnings, broker buying price, delivered to processor Houston, US cents/lb	12 Oct 2021	80 - 81	-1.23%	Sep 2021	82.5 - 84.25
MB-ST5-0097	Stainless steel scrap 304 turnings, broker buying price, delivered to processor Houston, \$/gross ton	12 Oct 2021	1792 - 1814	-1.23%	Sep 2021	1848 - 1887.25
MB-ST5-0216	Stainless steel scrap 304 turnings, dealer buying price, delivered to yard Houston, \$/gross ton	05 Oct 2021	986 - 1008	-10.98%	Sep 2021	986 - 1254
MB-ST5-0094	Stainless steel scrap 304 turnings, dealer buying price, delivered to yard Houston, US cents/lb	05 Oct 2021	44 - 45	-11.00%	Sep 2021	44 - 56
MB-ST5-0220	Stainless steel scrap 430 bundles, solids, broker buying price, delivered to processor Houston, US cents/lb	12 Oct 2021	28 - 29	0.00%	Sep 2021	28.5 - 29.5
MB-ST5-0098	Stainless steel scrap 430 bundles, solids, broker buying price, delivered to processor Houston, \$/gross ton	12 Oct 2021	627 - 650	0.00%	Sep 2021	638.5 - 661
MB-ST5-0221	Stainless steel scrap 409 bundles, solids, broker buying price, delivered to processor Houston, US cents/lb	12 Oct 2021	22 - 23	0.00%	Sep 2021	22.5 - 23.5
MB-ST5-0099	Stainless steel scrap 409 bundles, solids, broker buying price, delivered to processor Houston, \$/gross ton	12 Oct 2021	493 - 515	0.00%	Sep 2021	504 - 526.5
MB-ST5-0214	Stainless steel scrap 316 solids, clips, dealer buying price, delivered to yard Houston, \$/gross ton	05 Oct 2021	1792 - 1994	8.36%	Sep 2021	1702 - 1792
MB-ST5-0092	Stainless steel scrap 316 solids, clips, dealer buying price, delivered to yard Houston, US cents/lb	05 Oct 2021	80 - 89	8.33%	Sep 2021	76 - 80
MB-ST5-0217	Stainless steel scrap 316 solids, clips, broker buying price, delivered to processor Houston, US cents/lb	12 Oct 2021	116 - 118	0.00%	Sep 2021	118 - 119.75
MB-ST5-0095	Stainless steel scrap 316 solids, clips, broker buying price, delivered to processor Houston, \$/gross ton	12 Oct 2021	2598 - 2643	0.00%	Sep 2021	2643 - 2682.25

Los Angeles stainless steel scrap

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-ST5-0227	Stainless steel scrap 304 turnings, export yard buying price, delivered to yard Los Angeles, US cents/lb	12 Oct 2021	47.99 - 50.22	2.31%	Sep 2021	50.5 - 52.74
MB-ST5-0105	Stainless steel scrap 304 turnings, export yard buying price, delivered to yard Los Angeles, \$/gross ton	12 Oct 2021	1075 - 1125	2.33%	Sep 2021	1131.25 - 1181.25



Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-ST5-0226	Stainless steel scrap 304 solids, clips, export yard buying price, delivered to yard Los Angeles, US cents/lb	12 Oct 2021	69.2 - 70.31	1.63%	Sep 2021	71.71 - 72.83
MB-ST5-0104	Stainless steel scrap 304 solids, clips, export yard buying price, delivered to yard Los Angeles, \$/gross ton	12 Oct 2021	1550 - 1575	1.63%	Sep 2021	1606.25 - 1631.25
MB-ST5-0228	Stainless steel scrap 430 bundles, solids, export yard buying price, delivered to yard Los Angeles, US cents/lb	12 Oct 2021	13.39 - 14.29	-3.15%	Sep 2021	14.18 - 15.01
MB-ST5-0106	Stainless steel scrap 430 bundles, solids, export yard buying price, delivered to yard Los Angeles, \$/gross ton	12 Oct 2021	300 - 320	-3.13%	Sep 2021	317.5 - 336.25

Montreal stainless steel scrap

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-ST5-0252	Stainless steel scrap 304 turnings, dealer buying price, delivered to yard Montreal, Canadian \$/gross ton	05 Oct 2021	1702 - 1725	-14.05%	Sep 2021	1747 - 2240
MB-ST5-0253	Stainless steel scrap 304 new clips, dealer buying price, delivered to yard Montreal, Canadian \$/gross ton	05 Oct 2021	2173 - 2195	-1.51%	Sep 2021	1971 - 2464
MB-ST5-0131	Stainless steel scrap 304 new clips, dealer buying price, delivered to yard Montreal, Canadian cents/lb	05 Oct 2021	97 - 98	-1.52%	Sep 2021	88 - 110
MB-ST5-0130	Stainless steel scrap 304 turnings, dealer buying price, delivered to yard Montreal, Canadian cents/lb	05 Oct 2021	76 - 77	-14.04%	Sep 2021	78 - 100
MB-ST5-0129	Stainless steel scrap 304 solids, clips, dealer buying price, delivered to yard Montreal, Canadian cents/lb	05 Oct 2021	97 - 98	-1.52%	Sep 2021	88 - 110
MB-ST5-0251	Stainless steel scrap 304 solids, clips, dealer buying price, delivered to yard Montreal, Canadian \$/gross ton	05 Oct 2021	2173 - 2195	-1.51%	Sep 2021	1971 - 2464
MB-ST5-0128	Stainless steel scrap 316 solids, clips, dealer buying price, delivered to yard Montreal, Canadian cents/lb	05 Oct 2021	135 - 136	6.27%	Sep 2021	115 - 140
MB-ST5-0250	Stainless steel scrap 316 solids, clips, dealer buying price, delivered to yard Montreal, Canadian \$/gross ton	05 Oct 2021	3024 - 3046	6.27%	Sep 2021	2576 - 3136

New York stainless steel scrap

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-ST5-0236	Stainless steel scrap 304 turnings, broker buying price, delivered to processor New York, US cents/lb	12 Oct 2021	81 - 84	2.48%	Sep 2021	82.5 - 85.5
MB-ST5-0114	Stainless steel scrap 304 turnings, broker buying price, delivered to processor New York, \$/gross ton	12 Oct 2021	1814 - 1882	2.50%	Sep 2021	1848 - 1915.25
MB-ST5-0116	Stainless steel scrap 304 turnings, export yard buying price, delivered to yard New York, \$/gross ton	12 Oct 2021	1299 - 1322	0.00%	Sep 2021	1299 - 1322
MB-ST5-0238	Stainless steel scrap 304 turnings, export yard buying price, delivered to yard New York, US cents/lb	12 Oct 2021	58 - 59	0.00%	Sep 2021	58 - 59
MB-ST5-0235	Stainless steel scrap 304 solids, clips, broker buying price, delivered to processor New York, US cents/lb	12 Oct 2021	86 - 89	1.74%	Sep 2021	87.5 - 91.25
MB-ST5-0113	Stainless steel scrap 304 solids, clips, broker buying price, delivered to processor New York, \$/gross ton	12 Oct 2021	1926 - 1994	1.74%	Sep 2021	1960 - 2044.25
MB-ST5-0237	Stainless steel scrap 304 solids, clips, export yard buying price, delivered to yard New York, US cents/lb	12 Oct 2021	92 - 95.5	3.02%	Sep 2021	92.63 - 93.75
MB-ST5-0115	Stainless steel scrap 304 solids, clips, export yard buying price, delivered to yard New York, \$/gross ton	12 Oct 2021	2061 - 2139	3.02%	Sep 2021	2074.75 - 2100
MB-ST5-0239	Stainless steel scrap 430 bundles, solids, export yard buying price, delivered to yard New York, US cents/lb	12 Oct 2021	21 - 22	0.00%	Sep 2021	21 - 22



Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-ST5-0117	Stainless steel scrap 430 bundles, solids, export yard buying price, delivered to yard New York, \$/gross ton	12 Oct 2021	470 - 493	0.00%	Sep 2021	470 - 493
MB-ST5-0234	Stainless steel scrap 316 solids, clips, broker buying price, delivered to processor New York, US cents/lb	12 Oct 2021	118 - 120	1.28%	Sep 2021	118 - 120.75
MB-ST5-0112	Stainless steel scrap 316 solids, clips, broker buying price, delivered to processor New York, \$/gross ton	12 Oct 2021	2643 - 2688	1.27%	Sep 2021	2643.25 - 2704.75

Philadelphia stainless steel scrap

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-ST5-0241	Stainless steel scrap 304 turnings, export yard buying price, delivered to yard Philadelphia, US cents/lb	12 Oct 2021	58 - 59	0.00%	Sep 2021	58 - 59
MB-ST5-0119	Stainless steel scrap 304 turnings, export yard buying price, delivered to yard Philadelphia, \$/gross ton	12 Oct 2021	1299 - 1322	0.00%	Sep 2021	1299 - 1322
MB-ST5-0240	Stainless steel scrap 304 solids, clips, export yard buying price, delivered to yard Philadelphia, US cents/lb	12 Oct 2021	92 - 95.5	3.02%	Sep 2021	92.63 - 93.75
MB-ST5-0118	Stainless steel scrap 304 solids, clips, export yard buying price, delivered to yard Philadelphia, \$/gross ton	12 Oct 2021	2061 - 2139	3.02%	Sep 2021	2074.75 - 2100
MB-ST5-0242	Stainless steel scrap 430 bundles, solids, export yard buying price, delivered to yard Philadelphia, US cents/lb	12 Oct 2021	21 - 22	0.00%	Sep 2021	21 - 22
MB-ST5-0120	Stainless steel scrap 430 bundles, solids, export yard buying price, delivered to yard Philadelphia, \$/gross ton	12 Oct 2021	470 - 493	0.00%	Sep 2021	470 - 493

Pittsburgh stainless steel scrap

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-ST5-0042	Stainless steel scrap 304 turnings, dealer buying price, delivered to yard Pittsburgh, US cents/lb	05 Oct 2021	45 - 56	-1.94%	Sep 2021	45 - 58
MB-ST5-0164	Stainless steel scrap 304 turnings, dealer buying price, delivered to yard Pittsburgh, \$/gross ton	05 Oct 2021	1008 - 1254	-1.95%	Sep 2021	1008 - 1299
MB-ST5-0169	Stainless steel scrap 304 turnings, broker buying price, delivered to processor Pittsburgh, US cents/lb	12 Oct 2021	81 - 84	5.77%	Sep 2021	80.5 - 85.75
MB-ST5-0047	Stainless steel scrap 304 turnings, broker buying price, delivered to processor Pittsburgh, \$/gross ton	12 Oct 2021	1814 - 1882	5.78%	Sep 2021	1803 - 1920.75
MB-ST5-0256	Stainless steel scrap 304 turnings, consumer buying price, delivered mill Pittsburgh, US cents/lb	08 Oct 2021	78 - 80	2.27%	Sep 2021	74.5 - 80
MB-ST5-0134	Stainless steel scrap 304 turnings, consumer buying price, delivered mill Pittsburgh, \$/gross ton	08 Oct 2021	1747 - 1792	2.25%	Sep 2021	1669 - 1792
MB-ST5-0168	Stainless steel scrap 304 solids, clips, broker buying price, delivered to processor Pittsburgh, US cents/lb	12 Oct 2021	86 - 89	4.79%	Sep 2021	86.5 - 91
MB-ST5-0255	Stainless steel scrap 304 solids, clips, consumer buying price, delivered mill Pittsburgh, US cents/lb	08 Oct 2021	87 - 89	6.02%	Sep 2021	81 - 85
MB-ST5-0163	Stainless steel scrap 304 solids, clips, dealer buying price, delivered to yard Pittsburgh, \$/gross ton	05 Oct 2021	1008 - 1344	-12.50%	Sep 2021	1232 - 1456
MB-ST5-0041	Stainless steel scrap 304 solids, clips, dealer buying price, delivered to yard Pittsburgh, US cents/lb	05 Oct 2021	45 - 60	-12.50%	Sep 2021	55 - 65
MB-ST5-0046	Stainless steel scrap 304 solids, clips, broker buying price, delivered to processor Pittsburgh, \$/gross ton	12 Oct 2021	1926 - 1994	4.81%	Sep 2021	1937.5 - 2038.25
MB-ST5-0133	Stainless steel scrap 304 solids, clips, consumer buying price, delivered mill Pittsburgh, \$/gross ton	08 Oct 2021	1949 - 1994	6.05%	Sep 2021	1814 - 1904



Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-ST5-0165	Stainless steel scrap 304 new clips, dealer buying price, delivered to yard Pittsburgh, \$/gross ton	05 Oct 2021	1008 - 1344	-12.50%	Sep 2021	1232 - 1456
MB-ST5-0043	Stainless steel scrap 304 new clips, dealer buying price, delivered to yard Pittsburgh, US cents/lb	05 Oct 2021	45 - 60	-12.50%	Sep 2021	55 - 65
MB-ST5-0171	Stainless steel scrap 430 turnings, broker buying price, delivered to processor Pittsburgh, US cents/lb	12 Oct 2021	30 - 31	0.00%	Sep 2021	27.5 - 32.5
MB-ST5-0049	Stainless steel scrap 430 turnings, broker buying price, delivered to processor Pittsburgh, \$/gross ton	12 Oct 2021	672 - 694	0.00%	Sep 2021	616 - 728
MB-ST5-0257	Stainless steel scrap 430 bundles, solids, consumer buying price, delivered mill Pittsburgh, US cents/lb	08 Oct 2021	32.81 - 33.71	0.00%	Sep 2021	32.81 - 33.71
MB-ST5-0170	Stainless steel scrap 430 bundles, solids, broker buying price, delivered to processor Pittsburgh, US cents/lb	12 Oct 2021	35 - 36	10.94%	Sep 2021	30.5 - 36
MB-ST5-0048	Stainless steel scrap 430 bundles, solids, broker buying price, delivered to processor Pittsburgh, \$/gross ton	12 Oct 2021	784 - 806	10.88%	Sep 2021	683.5 - 806
MB-ST5-0135	Stainless steel scrap 430 bundles, solids, consumer buying price, delivered mill Pittsburgh, \$/gross ton	08 Oct 2021	735 - 755	0.00%	Sep 2021	735 - 755
MB-ST5-0166	Stainless steel scrap 430 new clips, dealer buying price, delivered to yard Pittsburgh, \$/gross ton	05 Oct 2021	336 - 560	0.00%	Sep 2021	336 - 560
MB-ST5-0044	Stainless steel scrap 430 new clips, dealer buying price, delivered to yard Pittsburgh, US cents/lb	05 Oct 2021	15 - 25	0.00%	Sep 2021	15 - 25
MB-ST5-0172	Stainless steel scrap 409 bundles, solids, broker buying price, delivered to processor Pittsburgh, US cents/lb	12 Oct 2021	30 - 31	3.39%	Sep 2021	27.75 - 31.75
MB-ST5-0258	Stainless steel scrap 409 bundles, solids, consumer buying price, delivered mill Pittsburgh, US cents/lb	08 Oct 2021	28.35 - 28.57	0.00%	Sep 2021	28.35 - 28.57
MB-ST5-0136	Stainless steel scrap 409 bundles, solids, consumer buying price, delivered mill Pittsburgh, \$/gross ton	08 Oct 2021	635 - 640	0.00%	Sep 2021	635 - 640
MB-ST5-0173	Stainless steel scrap 409 turnings, broker buying price, delivered to processor Pittsburgh, US cents/lb	12 Oct 2021	25 - 26	2.00%	Sep 2021	24.5 - 27.25
MB-ST5-0050	Stainless steel scrap 409 bundles, broker buying price, delivered to processor Pittsburgh, \$/gross ton	12 Oct 2021	672 - 694	3.41%	Sep 2021	621.5 - 711.25
MB-ST5-0051	Stainless steel scrap 409 turnings, broker buying price, delivered to processor Pittsburgh, \$/gross ton	12 Oct 2021	560 - 582	1.96%	Sep 2021	548.75 - 610.25
MB-ST5-0167	Stainless steel scrap 316 solids, clips, broker buying price, delivered to processor Pittsburgh, US cents/lb	12 Oct 2021	118 - 121	3.91%	Sep 2021	116.5 - 120.75
MB-ST5-0254	Stainless steel scrap 316 solids, clips, consumer buying price, delivered mill Pittsburgh, US cents/lb	08 Oct 2021	128 - 130	4.03%	Sep 2021	120 - 128
MB-ST5-0162	Stainless steel scrap 316 solids, clips, dealer buying price, delivered to yard Pittsburgh, \$/gross ton	05 Oct 2021	1680 - 1859	2.58%	Sep 2021	1568 - 1882
MB-ST5-0040	Stainless steel scrap 316 solids, clips, dealer buying price, delivered to yard Pittsburgh, US cents/lb	05 Oct 2021	75 - 83	2.60%	Sep 2021	70 - 84
MB-ST5-0132	Stainless steel scrap 316 solids, clips, consumer buying price, delivered mill Pittsburgh, \$/gross ton	08 Oct 2021	2867 - 2912	4.03%	Sep 2021	2688 - 2867
MB-ST5-0045	Stainless steel scrap 316 solids, broker buying price, delivered to processor Pittsburgh, \$/gross ton	12 Oct 2021	2643 - 2710	3.90%	Sep 2021	2609.5 - 2704.75

San Francisco stainless steel scrap

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-ST5-0248	Stainless steel scrap 304 turnings, export yard buying price, delivered to yard San Francisco, US cents/lb	12 Oct 2021	47.99 - 50.22	2.31%	Sep 2021	50.5 - 52.76



Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-ST5-0126	Stainless steel scrap 304 turnings, export yard buying price, delivered to yard San Francisco, \$/gross ton	12 Oct 2021	1075 - 1125	2.33%	Sep 2021	1131.25 - 1181.75
MB-ST5-0247	Stainless steel scrap 304 solids, clips, export yard buying price, delivered to yard San Francisco, US cents/lb	12 Oct 2021	69.2 - 70.31	1.63%	Sep 2021	71.66 - 72.83
MB-ST5-0125	Stainless steel scrap 304 solids, clips, export yard buying price, delivered to yard San Francisco, \$/gross ton	12 Oct 2021	1550 - 1575	1.63%	Sep 2021	1605 - 1631.25
MB-ST5-0249	Stainless steel scrap 430 bundles, solids, export yard buying price, delivered to yard San Francisco, US cents/lb	12 Oct 2021	13.39 - 14.29	-3.15%	Sep 2021	14.18 - 15.01
MB-ST5-0127	Stainless steel scrap 430 bundles, solids, export yard buying price, delivered to yard San Francisco, \$/gross ton	12 Oct 2021	300 - 320	-3.13%	Sep 2021	317.5 - 336.25

Southeast US stainless steel scrap

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-ST5-0151	Stainless steel scrap 304 turnings, broker buying price, delivered to processor Southeast US, US cents/lb	12 Oct 2021	81 - 84	2.48%	Sep 2021	82.25 - 85.75
MB-ST5-0139	Stainless steel scrap 304 turnings, broker buying price, delivered to processor Southeast US, \$/gross ton	12 Oct 2021	1814 - 1882	2.50%	Sep 2021	1842.5 - 1920.75
MB-ST5-0147	Stainless steel scrap 304 turnings, dealer buying price, delivered to yard Southeast US, US cents/lb	05 Oct 2021	38 - 56	-2.08%	Sep 2021	38 - 58
MB-ST5-0159	Stainless steel scrap 304 turnings, dealer buying price, delivered to yard Southeast US, \$/gross ton	05 Oct 2021	851 - 1254	-2.09%	Sep 2021	851 - 1299
MB-ST5-0138	Stainless steel scrap 304 solids, clips, broker buying price, delivered to processor Southeast US, \$/gross ton	12 Oct 2021	1926 - 1994	3.54%	Sep 2021	1949 - 2038.25
MB-ST5-0150	Stainless steel scrap 304 solids, clips, broker buying price, delivered to processor Southeast US, US cents/lb	12 Oct 2021	86 - 89	3.55%	Sep 2021	87 - 91
MB-ST5-0158	Stainless steel scrap 304 solids, clips, dealer buying price, delivered to yard Southeast US, \$/gross ton	05 Oct 2021	1120 - 1344	-4.35%	Sep 2021	1120 - 1456
MB-ST5-0146	Stainless steel scrap 304 solids, clips, dealer buying price, delivered to yard Southeast US, US cents/lb	05 Oct 2021	50 - 60	-4.35%	Sep 2021	50 - 65
MB-ST5-0145	Stainless steel scrap 304 new clips, dealer buying price, delivered to yard Southeast US, US cents/lb	05 Oct 2021	50 - 60	-4.35%	Sep 2021	50 - 65
MB-ST5-0157	Stainless steel scrap 304 new clips, dealer buying price, delivered to yard Southeast US, \$/gross ton	05 Oct 2021	1120 - 1344	-4.35%	Sep 2021	1120 - 1456
MB-ST5-0161	Stainless steel scrap 430 new clips, dealer buying price, delivered to yard Southeast US, \$/gross ton	05 Oct 2021	403 - 560	0.00%	Sep 2021	403 - 560
MB-ST5-0155	Stainless steel scrap 430 bundles, solids, broker buying price, delivered to processor Southeast US, US cents/lb	12 Oct 2021	30 - 36	-4.35%	Sep 2021	32.75 - 35.75
MB-ST5-0143	Stainless steel scrap 430 bundles, solids, broker buying price, delivered to processor Southeast US, \$/gross ton	12 Oct 2021	672 - 806	-4.40%	Sep 2021	733.75 - 800.5
MB-ST5-0144	Stainless steel scrap 430 turnings, broker buying price, delivered to processor Southeast US, \$/gross ton	12 Oct 2021	672 - 694	0.00%	Sep 2021	593.5 - 728
MB-ST5-0156	Stainless steel scrap 430 turnings, broker buying price, delivered to processor Southeast US, US cents/lb	12 Oct 2021	30 - 31	0.00%	Sep 2021	26.5 - 32.5
MB-ST5-0149	Stainless steel scrap 430 new clips, dealer buying price, delivered to yard Southeast US, US cents/lb	05 Oct 2021	18 - 25	0.00%	Sep 2021	18 - 25
MB-ST5-0154	Stainless steel scrap 409 turnings, broker buying price, delivered to processor Southeast US, US cents/lb	12 Oct 2021	25 - 26	2.00%	Sep 2021	21.25 - 27.25
MB-ST5-0142	Stainless steel scrap 409 turnings, broker buying price, delivered to processor Southeast US, \$/gross ton	12 Oct 2021	560 - 582	1.96%	Sep 2021	476 - 610.25



Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-ST5-0141	Stainless steel scrap 409 bundles, solids, broker buying price, delivered to processor Southeast US, \$/gross ton	12 Oct 2021	650 - 694	1.74%	Sep 2021	649.75 - 716.75
MB-ST5-0153	Stainless steel scrap 409 bundles, solids, broker buying price, delivered to processor Southeast US, US cents/lb	12 Oct 2021	29 - 31	1.69%	Sep 2021	29 - 32
MB-ST5-0160	Stainless steel scrap 316 solids, clips, dealer buying price, delivered to yard Southeast US, \$/gross ton	05 Oct 2021	1568 - 1882	0.00%	Sep 2021	1568 - 1882
MB-ST5-0148	Stainless steel scrap 316 solids, clips, dealer buying price, delivered to yard Southeast US, US cents/lb	05 Oct 2021	70 - 84	0.00%	Sep 2021	70 - 84
MB-ST5-0152	Stainless steel scrap 316 solids, clips, broker buying price, delivered to processor Southeast US, US cents/lb	12 Oct 2021	118 - 120	1.28%	Sep 2021	118 - 120.75
MB-ST5-0140	Stainless steel scrap 316 solids, clips, broker buying price, delivered to processor Southeast US, \$/gross ton	12 Oct 2021	2643 - 2688	1.27%	Sep 2021	2643.25 - 2704.75

West Coast stainless steel scrap

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-ST5-0301	Stainless steel scrap 304 turnings, dealer buying price, delivered to yard West Coast, \$/gross ton	05 Oct 2021	672 - 717	3.35%	Sep 2021	650 - 694
MB-ST5-0291	Stainless steel scrap 304 turnings, dealer buying price, delivered to yard West Coast, US cents/lb	05 Oct 2021	30 - 32	3.33%	Sep 2021	29 - 31
MB-ST5-0302	Stainless steel scrap 304 new clips, dealer buying price, delivered to yard West Coast, \$/gross ton	05 Oct 2021	1030 - 1098	2.16%	Sep 2021	1008 - 1075
MB-ST5-0292	Stainless steel scrap 304 new clips, dealer buying price, delivered to yard West Coast, US cents/lb	05 Oct 2021	46 - 49	2.15%	Sep 2021	45 - 48
MB-ST5-0300	Stainless steel scrap 304 solids, clips, dealer buying price, delivered to yard West Coast, \$/gross ton	05 Oct 2021	1030 - 1098	2.16%	Sep 2021	1008 - 1075
MB-ST5-0290	Stainless steel scrap 304 solids, clips, dealer buying price, delivered to yard West Coast, US cents/lb	05 Oct 2021	46 - 49	2.15%	Sep 2021	45 - 48
MB-ST5-0299	Stainless steel scrap 316 solids, clips, dealer buying price, delivered to yard West Coast, \$/gross ton	05 Oct 2021	1389 - 1434	3.29%	Sep 2021	1344 - 1389
MB-ST5-0289	Stainless steel scrap 316 solids, clips, dealer buying price, delivered to yard West Coast, US cents/lb	05 Oct 2021	62 - 64	3.28%	Sep 2021	60 - 62

Europe domestic

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-STE-0431	Steel scrap 12 D new production clean shovellable steel domestic, delivered consumer UK, £/tonne	14 Sep 2021	265 - 280	-5.22%	Sep 2021	265 - 280
MB-STE-0432	Steel scrap 12 A/C new production heavy steel domestic, delivered consumer UK, £/tonne	14 Sep 2021	260 - 275	-5.31%	Sep 2021	260 - 275
MB-STE-0430	Steel scrap 7B heavy steel turnings inter-merchant, delivered to export dock UK, £/tonne	14 Sep 2021	190 - 205	-7.06%	Sep 2021	190 - 205
MB-STE-0081	Steel scrap 4C new steel bales domestic, delivered consumer UK, £/tonne	14 Sep 2021	255 - 270	-5.41%	Sep 2021	255 - 270
MB-STE-0087	Steel scrap OA plate and structural domestic, delivered consumer UK, £/tonne	14 Sep 2021	230 - 245	-5.94%	Sep 2021	230 - 245
MB-STE-0080	Steel scrap 4A new steel bales domestic, delivered consumer UK, £/tonne	14 Sep 2021	265 - 280	-5.22%	Sep 2021	265 - 280
MB-STE-0084	Steel scrap 8B new loose light cuttings domestic, delivered consumer UK, £/tonne	14 Sep 2021	240 - 255	-5.71%	Sep 2021	240 - 255



Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-STE-0085	Steel scrap 9A/10 heavy and light cast iron domestic, delivered consumer UK, £/tonne	14 Sep 2021	220 - 235	-6.19%	Sep 2021	220 - 235
MB-STE-0078	Steel scrap 11A cast iron borings (low P) domestic, delivered consumer UK, £/tonne	14 Sep 2021	180 - 190	-7.50%	Sep 2021	180 - 190
MB-STE-0086	Steel scrap 9B/C cylinder block scrap domestic, delivered consumer UK, £/tonne	14 Sep 2021	240 - 255	-5.71%	Sep 2021	240 - 255
MB-STE-0083	Steel scrap 8A new loose light cuttings domestic, delivered consumer UK, £/tonne	14 Sep 2021	255 - 270	-5.41%	Sep 2021	255 - 270
MB-STE-0077	Steel scrap 1&2 old steel domestic, delivered consumer UK, £/tonne	14 Sep 2021	210 - 225	-6.45%	Sep 2021	210 - 225
MB-ST5-0012	Steel scrap 5C loose old light domestic, delivered inter-merchant UK, £/tonne	08 Oct 2021	170 - 190	0.00%	Sep 2021	170 - 187.5
MB-STE-0167	Steel scrap No E3 (old thick scrap) domestic, delivered mill Italy, €/tonne	14 Sep 2021	380 - 410	-9.20%	Sep 2021	380 - 410
MB-STE-0169	Steel scrap No E3 (old thick steel scrap) domestic, delivered mill Germany, €/tonne	15 Sep 2021	390 - 400	-5.95%	Sep 2021	390 - 400
MB-STE-0093	Steel scrap auto bundle scrap domestic, delivered Turkey, lira/tonne	11 Oct 2021	3645 - 4355	1.14%	Sep 2021	3640 - 4205
MB-STE-0415	Steel scrap E8 thin new production steel domestic, delivered consumer Germany, €/tonne	15 Sep 2021	450 - 470	-5.15%	Sep 2021	450 - 470
MB-STE-0168	Steel scrap No E8 (thin new production steel scrap) domestic, delivered mill Italy, €/tonne	14 Sep 2021	450 - 460	-5.21%	Sep 2021	450 - 460
MB-STE-0414	Steel scrap E40 shredded domestic, delivered consumer Germany, €/tonne	15 Sep 2021	395 - 410	-9.04%	Sep 2021	395 - 410
MB-STE-0849	Steel scrap E40 shredded, delivered to mill Italy, €/tonne	14 Sep 2021	430 - 450	-4.35%	Sep 2021	430 - 450

Europe export

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-STE-0095	Steel scrap shredded import, cfr delivered Turkish port, \$/tonne	08 Oct 2021	455 - 463	1.10%	Sep 2021	452 - 460.25
MB-STE-0096	Steel scrap HMS 1&2 (75:25 mix) import, cfr delivered Turkish port, \$/tonne	08 Oct 2021	439 - 441	3.41%	Sep 2021	426.75 - 429.25
MB-STE-0097	Steel scrap HMS 1&2 (75:25 mix) export, fob Rotterdam, \$/tonne	08 Oct 2021	399 - 401	3.76%	Sep 2021	386.75 - 389.25
MB-STE-0098	Steel scrap shredded export, fob Rotterdam, \$/tonne	08 Oct 2021	414 - 416	1.34%	Sep 2021	407.5 - 409.25
MB-STE-0099	Steel scrap shredded export, fob main port UK, \$/tonne	08 Oct 2021	416 - 423	2.19%	Sep 2021	406.75 - 409.25
MB-STE-0100	Steel scrap HMS 1&2 (80:20 mix) export, fob main port UK, \$/tonne	08 Oct 2021	401 - 408	2.28%	Sep 2021	401.75 - 429.25
MB-STE-0416	Steel scrap HMS 1&2 (80:20 mix) North Europe origin, cfr Turkey, \$/tonne	13 Oct 2021	472.63	3.08%	Sep 2021	435.19
MB-STE-0894	Steel scrap, HMS 1&2 (80:20 mix), month-to-date deal-weighted average, North Europe origin, cfr Turkey, \$/tonne	13 Oct 2021	445.13	0.00%	Sep 2021	443.29
MB-STE-0417	Steel scrap HMS 1&2 (80:20 mix) US origin, cfr Turkey, \$/tonne	13 Oct 2021	479.31	3.03%	Sep 2021	440.97
MB-STE-0420	Steel scrap HMS 1&2 (80:20 mix), fob Rotterdam, \$/tonne	08 Oct 2021	401.48	3.23%	Sep 2021	397.3

European stainless steel scrap

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-ST5-0008	Stainless steel scrap 18/8 solids import, cif main European port, €/tonne	08 Oct 2021	1630 - 1670	-0.60%	Sep 2021	1660 - 1697.5
MB-ST5-0011	Stainless steel scrap 18/8 turnings domestic, delivered merchants UK, £/tonne	08 Oct 2021	1130 - 1175	0.00%	Sep 2021	1170 - 1256.25
MB-ST5-0010	Stainless steel scrap 18/8 solids domestic, delivered merchants UK, £/tonne	08 Oct 2021	1300 - 1350	0.00%	Sep 2021	1345 - 1407.5
MB-ST5-0009	Stainless steel scrap 18/8 turnings import, cif main European port, €/tonne	08 Oct 2021	1460 - 1505	-0.84%	Sep 2021	1495 - 1527.5



Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-ST5-0013	Stainless steel scrap 12-13% Cr solids domestic, delivered merchants UK, £/tonne	08 Oct 2021	350 - 370	0.00%	Sep 2021	350 - 370
MB-ST5-0014	Stainless steel scrap 16-17% Cr solids domestic, delivered merchants UK, £/tonne	08 Oct 2021	390 - 410	0.00%	Sep 2021	390 - 410
MB-ST5-0261	Stainless steel scrap 316 solids import, cif main port Europe, €/tonne	08 Oct 2021	2430	1.46%	Sep 2021	2360 - 2435
MB-ST5-0262	Stainless steel scrap 316 turnings import, cif main port Europe, €/tonne	08 Oct 2021	2180 - 2190	1.27%	Sep 2021	2125 - 2192.5
MB-ST5-0260	Stainless steel scrap 316 turnings domestic, delivered merchants UK, £/tonne	08 Oct 2021	1695 - 1845	3.06%	Sep 2021	1700 - 1768.75
MB-ST5-0259	Stainless steel scrap 316 solids domestic, delivered merchants UK, £/tonne	08 Oct 2021	2000 - 2050	2.53%	Sep 2021	1955 - 2015

Asia domestic and export

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-STE-0149	Steel scrap heavy scrap domestic, delivered mill China, yuan/tonne	08 Oct 2021	3690 - 3770	0.00%	Sep 2021	3684 - 3756
MB-STE-0889	Steel scrap, index, heavy recycled steel materials, cfr east China, \$/tonne	13 Oct 2021	525.63	0.24%	Sep 2021	522.86
MB-STE-0895	Steel scrap, index, heavy recycled steel materials, cfr north China, \$/tonne	13 Oct 2021	535.63	0.23%	Sep 2021	532.86
MB-STE-0464	Steel scrap HMS 1&2 (80:20 mix) US material import, cfr main port Taiwan, \$/tonne	13 Oct 2021	470 - 473	0.32%	Sep 2021	456.23 - 457
MB-STE-0874	Steel scrap H2 export, fob main port Japan, ¥/tonne	13 Oct 2021	52000 - 54000	4.95%	Sep 2021	46000 - 47600
MB-STE-0875	Steel scrap shredded export, fob main port Japan, ¥/tonne	13 Oct 2021	59000	0.85%	Sep 2021	56100 - 57700
MB-STE-0876	Steel scrap Shindachi export, fob main port Japan, ¥/tonne	13 Oct 2021	65000 - 66000	1.55%	Sep 2021	62800 - 64000
MB-STE-0877	Steel scrap heavy scrap (HS) export, fob main port Japan, ¥/tonne	13 Oct 2021	62000 - 63000	2.46%	Sep 2021	58200 - 60000
MB-STE-0878	Steel scrap H2 Japan-origin import, cfr Vietnam, \$/tonne	08 Oct 2021	520	4.21%	Sep 2021	473.75 - 478.75
MB-STE-0783	Steel scrap HMS 1&2 (80:20), cfr Vietnam, \$/tonne	08 Oct 2021	516 - 528	0.87%	Sep 2021	495 - 503.75
MB-STE-0879	Steel scrap H2 Japan origin import, cfr main port South Korea, ¥/tonne	08 Oct 2021	56500	6.60%	Sep 2021	49625 - 50875
MB-STE-0880	Steel scrap HMS 1&2 (80:20) deep-sea origin import, cfr South Korea, \$/tonne	08 Oct 2021	510 - 515	1.49%	Sep 2021	
MB-STE-0421	Steel scrap shredded, index, import, cfr Nhava Sheva, India \$/tonne	12 Oct 2021	535.75	1.39%	Sep 2021	517.78
MB-STE-0413	Steel scrap HMS 1&2 (80:20 mix) import, cfr Nhava Sheva, India, \$/tonne	08 Oct 2021	465 - 490	1.60%	Sep 2021	445 - 465
MB-STE-0881	Steel scrap HMS 1&2 (80:20) deep-sea origin import, cfr Bangladesh, \$/tonne	07 Oct 2021	530 - 535	2.90%	Sep 2021	511 - 517
MB-STE-0884	Steel scrap HMS 1&2 (80:20) containerized import, cfr Bangladesh, \$/tonne	07 Oct 2021	515 - 525	4.84%	Sep 2021	495.8 - 505
MB-STE-0885	Steel scrap shredded containerized import, cfr Bangladesh, \$/tonne	07 Oct 2021	550 - 555	2.79%	Sep 2021	536 - 542
MB-STE-0886	Steel scrap shredded deep-sea origin import, cfr Bangladesh, \$/tonne	07 Oct 2021	540 - 545	2.84%	Sep 2021	521 - 528
MB-STE-0887	Steel scrap shredded, index, import, cfr Port Qasim, Pakistan \$/tonne	08 Oct 2021	535.07	5.19%	Sep 2021	525.65

Base metals premiums

Source: dashboard.fastmarkets.com/m/30e12191-84d2-4805-a994-4c1c21976c25

Alumina index, aluminium premiums

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-ALU-0002	Alumina index, fob Australia, \$/tonne	13 Oct 2021	481.31	-1.16%	Sep 2021	390.9
MB-AL-0329	Aluminium P1020A premium, cif Taiwan, \$/tonne	05 Oct 2021	190 - 215	1.25%	Sep 2021	180 - 205
MB-AL-0001	Aluminium P1020A (MJP) quarterly premium, cif Japan, \$/tonne	05 Oct 2021	215 - 220	21.85%	Sep 2021	172 - 185
MB-AL-0343	Aluminium P1020A (MJP) spot premium, cif Japan, \$/tonne	12 Oct 2021	185 - 200	0.00%	Sep 2021	175.63 - 188.75
MB-AL-0328	Aluminium P1020A premium, bonded in-whs, Shanghai, \$/tonne	28 Sep 2021	170 - 190	0.00%	Sep 2021	170 - 190
MB-AL-0345	Aluminium P1020A premium, cif Shanghai, \$/tonne	28 Sep 2021	180 - 200	11.76%	Sep 2021	180 - 200
MB-AL-0307	Aluminium P1020A premium, fca South Korea, \$/tonne	12 Oct 2021	190 - 200	0.00%	Sep 2021	157.5 - 167.5
MB-AL-0344	Aluminium P1020A premium, cif South Korea, \$/tonne	12 Oct 2021	175 - 185	0.00%	Sep 2021	142.5 - 152.5
MB-AL-0316	Aluminium P1020A premium, fca dp Italy, \$/tonne	12 Oct 2021	430 - 440	0.00%	Sep 2021	433.75 - 443.75
MB-AL-0346	Aluminium P1020A premium, in-whs dup Rotterdam, \$/tonne	13 Oct 2021	295 - 305	0.00%	Sep 2021	299.77 - 310
MB-AL-0004	Aluminium P1020A premium, in-whs dp Rotterdam, \$/tonne	12 Oct 2021	365 - 380	0.00%	Sep 2021	377.5 - 388.13
MB-AL-0319	Aluminium P1020A premium, fca dp Spain, \$/tonne	05 Oct 2021	435 - 445	0.00%	Sep 2021	430 - 440
MB-AL-0337	Aluminium P1020A premium, cif dup Turkey, \$/tonne	05 Oct 2021	320 - 330	-2.99%	Sep 2021	325 - 335
MB-AL-0020	Aluminium P1020A premium, ddp Midwest US, US cents/lb	12 Oct 2021	34.75 - 36	0.00%	Sep 2021	34.5 - 36
MB-AL-0021	Aluminium P1020A premium, delivered Sao Paulo region, \$/tonne	05 Oct 2021	400 - 420	7.89%	Sep 2021	360 - 400
MB-AL-0022	Aluminium P1020A premium, cif dup Brazilian main ports, \$/tonne	05 Oct 2021	420 - 450	6.10%	Sep 2021	390 - 410
MB-AL-0381	Aluminium low-carbon differential P1020A, Europe, \$/tonne	01 Oct 2021	0 - 7	40.00%	Sep 2021	0 - 5
MB-AL-0377	Aluminium P1020A premium, in-whs dup Rotterdam, inferred low-carbon midpoint, \$/tonne	13 Oct 2021	303.5	0.00%	Sep 2021	307.39
MB-AL-0378	Aluminium P1020A premium, in-whs dp Rotterdam, inferred low-carbon midpoint, \$/tonne	12 Oct 2021	376	0.00%	Sep 2021	385.31

Copper premiums

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-CU-0386	Copper grade A cathode premium, cif Taiwan, \$/tonne	05 Oct 2021	70 - 80	0.00%	Sep 2021	70 - 80
MB-CU-0405	Copper grade A cathode premium, in-whs Shanghai, \$/tonne	13 Oct 2021	120 - 135	-1.92%	Sep 2021	91.14 - 107.05
MB-CU-0383	Copper grade A cathode ER premium, bonded in-whs Shanghai, \$/tonne	13 Oct 2021	130 - 135	-1.85%	Sep 2021	97.73 - 107.05
MB-CU-0382	Copper grade A cathode SX-EW premium, bonded in-whs Shanghai, \$/tonne	13 Oct 2021	120 - 130	0.00%	Sep 2021	91.14 - 97.95
MB-CU-0403	Copper grade A cathode premium, cif Shanghai, \$/tonne	13 Oct 2021	100 - 125	-2.17%	Sep 2021	79.59 - 97
MB-CU-0380	Copper grade A cathode ER premium, cif Shanghai, \$/tonne	13 Oct 2021	115 - 125	-2.04%	Sep 2021	88.14 - 97
MB-CU-0384	Copper grade A cathode SX-EW premium, cif Shanghai, \$/tonne	13 Oct 2021	100 - 115	0.00%	Sep 2021	79.59 - 85.73
MB-CU-0399	Copper grade A cathode premium, cif Southeast Asia, \$/tonne	12 Oct 2021	80 - 90	13.33%	Sep 2021	65 - 72.5
MB-CU-0404	Copper grade A cathode premium, cif South Korea, \$/tonne	05 Oct 2021	75 - 80	0.00%	Sep 2021	67.5 - 72.5
MB-CU-0372	Copper grade A cathode premium, delivered Germany, \$/tonne	05 Oct 2021	75 - 90	0.00%	Sep 2021	75 - 90
MB-CU-0406	Copper grade A cathode premium, cif Leghorn, \$/tonne	05 Oct 2021	70 - 80	-3.23%	Sep 2021	67.5 - 80



Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-CU-0369	Copper grade A cathode premium, cif Rotterdam, \$/tonne	05 Oct 2021	45 - 55	0.00%	Sep 2021	45 - 55
MB-CU-0002	Copper grade 1 cathode premium, ddp Midwest US, US cents/lb	12 Oct 2021	8 - 9	0.00%	Sep 2021	8 - 9
MB-CU-0411	Copper EQ cathode premium, cif Europe, \$/tonne	05 Oct 2021	10 - 30	0.00%	Sep 2021	10 - 30
MB-CU-0412	Copper EQ cathode premium, cif Shanghai, \$/tonne	05 Oct 2021	15 - 35	0.00%	Sep 2021	10 - 27.5

Lead premiums

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-PB-0084	Lead 99.97% ingot premium, cif Taiwan, \$/tonne	05 Oct 2021	100 - 115	0.00%	Sep 2021	100 - 115
MB-PB-0083	Lead 99.99% ingot premium, cif Taiwan, \$/tonne	05 Oct 2021	125 - 135	4.00%	Sep 2021	120 - 130
MB-PB-0087	Lead 99.97% ingot premium, cif India, \$/tonne	12 Oct 2021	60 - 130	0.00%	Sep 2021	60 - 130
MB-PB-0086	Lead 99.99% ingot premium, cif India, \$/tonne	12 Oct 2021	130 - 140	0.00%	Sep 2021	130 - 140
MB-PB-0107	Lead 99.97% ingot premium, cif Southeast Asia, \$/tonne	12 Oct 2021	80 - 90	0.00%	Sep 2021	80 - 90
MB-PB-0108	Lead 99.99% ingot premium, cif Southeast Asia, \$/tonne	12 Oct 2021	125 - 145	0.00%	Sep 2021	125 - 145
MB-PB-0099	Lead 99.99% ingot premium, delivered Midwest US, US cents/lb	12 Oct 2021	17 - 19	0.00%	Sep 2021	17 - 19
MB-PB-0006	Lead 99.97% ingot premium, ddp Midwest US, US cents/lb	12 Oct 2021	15 - 18	0.00%	Sep 2021	15 - 18

Tin premiums

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-SN-0038	Tin 99.9% ingot premium, cif Taiwan, \$/tonne	05 Oct 2021	350 - 450	0.00%	Sep 2021	350 - 450
MB-SN-0002	Tin 99.9% ingot premium, in-whs Rotterdam, \$ per tonne	05 Oct 2021	1200 - 1700	-3.33%	Sep 2021	1350 - 1750
MB-SN-0029	Tin 99.9% low lead ingot premium, in-whs Rotterdam, \$/tonne	05 Oct 2021	1600 - 1800	-10.53%	Sep 2021	1900 - 2100
MB-SN-0036	Tin 99.85% ingot premium, in-whs Baltimore, \$/tonne	05 Oct 2021	2300 - 3500	-17.14%	Sep 2021	3000 - 4000
MB-SN-0011	Tin grade A min 99.85% ingot premium, ddp Midwest US, \$/tonne	05 Oct 2021	2490 - 3670	-17.32%	Sep 2021	3150 - 4300

Zinc premiums

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-ZN-0116	Zinc SHG 99.995% ingot premium, cif Taiwan \$/tonne	05 Oct 2021	125 - 135	4.00%	Sep 2021	120 - 130
MB-ZN-0106	Zinc SHG min 99.995% ingot premium, cif Shanghai, \$/per tonne	12 Oct 2021	90 - 110	0.00%	Sep 2021	90 - 110
MB-ZN-0119	Zinc min 99.995% ingot premium, in-whs Shanghai, \$/tonne	12 Oct 2021	90 - 110	0.00%	Sep 2021	90 - 110
MB-ZN-0113	Zinc SHG 99.995% ingot premium, fca Singapore, \$/per tonne	05 Oct 2021	100 - 125	2.27%	Sep 2021	100 - 120
MB-ZN-0115	Zinc SHG 99.995% ingot premium, fca Malaysia, \$/per tonne	05 Oct 2021	100 - 125	2.27%	Sep 2021	100 - 120
MB-ZN-0093	Zinc SHG min 99.995% ingot premium, cif Southeast Asia, \$/tonne	05 Oct 2021	125 - 135	4.00%	Sep 2021	120 - 130
MB-ZN-0001	Zinc SHG min 99.995% ingot premium, dp fca Rotterdam, \$/tonne	12 Oct 2021	160 - 180	0.00%	Sep 2021	141.25 - 165
MB-ZN-0099	Zinc SHG min 99.995% ingot premium, dp fca Antwerp, \$/tonne	12 Oct 2021	160 - 180	0.00%	Sep 2021	141.25 - 165
MB-ZN-0103	Zinc SHG min 99.995% ingot premium, fca dp Italy, \$/tonne	05 Oct 2021	180 - 190	2.78%	Sep 2021	167.5 - 177.5
MB-ZN-0102	Zinc SHG min 99.995% ingot premium, ddp Italy, \$/per tonne	05 Oct 2021	200 - 230	6.17%	Sep 2021	190 - 205
MB-ZN-0005	Zinc SHG min 99.995% ingot premium, ddp Midwest US, US cents/lb	12 Oct 2021	12 - 14	30.00%	Sep 2021	9.19 - 10.25

**Nickel premiums**

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-NI-0245	Nickel min 99.8% briquette premium, cif Shanghai, \$/tonne	28 Sep 2021	180 - 220	14.29%	Sep 2021	180 - 220
MB-NI-0143	Nickel min 99.8% full plate premium, in-whs Shanghai, \$/tonne	12 Oct 2021	330 - 350	0.00%	Sep 2021	330 - 350
MB-NI-0142	Nickel min 99.8% full plate premium, cif Shanghai, \$/tonne	12 Oct 2021	320 - 350	0.00%	Sep 2021	320 - 350
MB-NI-0003	Nickel uncut cathode premium, in-whs Rotterdam, \$/tonne	12 Oct 2021	40 - 75	0.00%	Sep 2021	40 - 75
MB-NI-0001	Nickel 4x4 cathode premium, in-whs Rotterdam, \$/tonne	12 Oct 2021	165 - 220	0.00%	Sep 2021	165 - 220
MB-NI-0002	Nickel briquette premium, in-whs Rotterdam, \$/tonne	12 Oct 2021	130 - 150	0.00%	Sep 2021	130 - 150
MB-NI-0240	Nickel 4x4 cathode premium, delivered Midwest US, US cents/lb	12 Oct 2021	45 - 55	0.00%	Sep 2021	45 - 55
MB-NI-0241	Nickel briquette premium, delivered Midwest US, US cents/lb	12 Oct 2021	45 - 55	0.00%	Sep 2021	42.75 - 46.25

Base metals warrant premiums

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-AL-0334	Aluminium P1020A, warrant premium, in-whs East Asia, \$/tonne	13 Oct 2021	65 - 100	0.00%	Sep 2021	54 - 87
MB-AL-0333	Aluminium P1020A warrant premium, in-whs Southeast Asia, \$/tonne	13 Oct 2021	50 - 100	11.11%	Sep 2021	48 - 87
MB-AL-0338	Aluminium P1020A warrant premium, in-whs US, \$/tonne	13 Oct 2021	115 - 125	0.00%	Sep 2021	115 - 125
MB-CU-0398	Copper grade A cathode warrant premium, in-whs East Asia \$/tonne	13 Oct 2021	25 - 40	0.00%	Sep 2021	24 - 37
MB-CU-0397	Copper grade A cathode warrant premium, in-whs Southeast Asia, \$/tonne	13 Oct 2021	25 - 40	0.00%	Sep 2021	24 - 37
MB-CU-0400	Copper grade A cathode warrant premium, in-whs North Europe, \$/tonne	13 Oct 2021	5 - 10	0.00%	Sep 2021	5 - 10
MB-CU-0401	Copper grade A cathode warrant premium, in-whs South Europe, \$/tonne	13 Oct 2021	15 - 25	0.00%	Sep 2021	15 - 25
MB-CU-0377	Copper grade A cathode warrant premium, in-whs US, \$/tonne	13 Oct 2021	20 - 25	0.00%	Sep 2021	20 - 25
MB-PB-0106	Lead min 99.97% ingot warrant premium, in-whs East Asia \$/tonne	13 Oct 2021	5 - 20	0.00%	Sep 2021	14 - 24
MB-PB-0105	Lead min 99.97% ingot warrant premium, in-whs Southeast Asia \$/tonne	13 Oct 2021	5 - 20	0.00%	Sep 2021	14 - 24
MB-PB-0109	Lead 99.97% ingot warrant premium, in-whs North Europe, \$/tonne	13 Oct 2021	10 - 30	0.00%	Sep 2021	20 - 34
MB-PB-0110	Lead 99.97% ingot warrant premium, in-whs South Europe, \$/tonne	13 Oct 2021	20 - 30	0.00%	Sep 2021	22 - 36
MB-PB-0097	Lead 99.97% ingot warrant premium, in-whs US, \$/tonne	13 Oct 2021	20 - 30	0.00%	Sep 2021	20 - 30
MB-NI-0138	Nickel min 99.8% briquette warrant premium, in-whs Southeast Asia, \$/tonne	13 Oct 2021	30 - 50	6.67%	Sep 2021	36 - 52
MB-NI-0140	Nickel min 99.8% briquette warrant premium, in-whs East Asia, \$/tonne	13 Oct 2021	40 - 50	0.00%	Sep 2021	34 - 50
MB-NI-0137	Nickel min 99.8% full plate warrant premium, in-whs Southeast Asia, \$/tonne	13 Oct 2021	35 - 45	14.29%	Sep 2021	30 - 45
MB-NI-0139	Nickel min 99.8% full plate warrant premium, in-whs East Asia, \$/tonne	13 Oct 2021	30 - 40	0.00%	Sep 2021	30 - 45
MB-NI-0141	Nickel min 99.8% warrant premium, in-whs North Europe, \$/tonne	13 Oct 2021	30 - 130	0.00%	Sep 2021	44 - 146
MB-SN-0042	Tin min 99.85% ingot warrant premium, in-whs South East Asia, \$/tonne	13 Oct 2021	50 - 150	0.00%	Sep 2021	60 - 140
MB-ZN-0117	Zinc SHG min 99.995% warrant premium, in-whs North Europe, \$/tonne	13 Oct 2021	80 - 100	0.00%	Sep 2021	68 - 84
MB-ZN-0104	Zinc SHG min 99.995% warrant premium, in-whs US, \$/per tonne	13 Oct 2021	10 - 15	0.00%	Sep 2021	10 - 15
MB-ZN-0123	Zinc SHG min 99.995% warrant premium, in-whs Southeast Asia, \$/tonne	13 Oct 2021	10 - 20	-14.29%	Sep 2021	12 - 21

Coking coal/coke markets

Source: dashboard.fastmarkets.com/m/00000021-0000-4000-8000-000000000000

Coking coal/coke/PCI news

COKING COAL DAILY: Prices inch down in fob market due to weak buying interest

By Alice Li - Wednesday 13 October

Seaborne coking coal prices in the cfr China market were broadly stable on Wednesday October 13, while fob prices inched lower amid limited buying interest due to high offers, market sources said.

Fastmarkets indices

Premium hard coking coal, cfr Jingtang: \$608.85 per tonne, down \$0.10 per tonne

Hard coking coal, cfr Jingtang: \$559.46 per tonne, up \$1.16 per tonne

Premium hard coking coal, fob DBCT: \$405.55 per tonne, down \$0.75 per tonne

Hard coking coal, fob DBCT: \$347.34 per tonne, unchanged

Most market participants adopted a wait-and-see stance in the seaborne coking coal market on Wednesday.

A few mills from southern China and some traders showed buying interest for Russia K10 coking coal (VM 19%, CSR 45%) during two tenders from Tuesday, according to a Shanghai-based trader. No results had been heard at the time of publication.

Some mills received offers for a new brand hard coking coal from the United States at about \$500 per tonne cfr China on Wednesday, market sources

said.

"The offer price is very attractive [compared with] other brands, but both traders and mills are hesitant to try the new cargo," a trader source from Beijing said.

A Panamax-vessel of premium low-volatility (PLV) hard coking coal from the United States was traded at about \$605-610 per tonne cfr China on Tuesday, to be loaded in November, several sources said.

The fob Australia coking coal market was quiet on Wednesday amid elevated offer levels and weak buying interest.

The offer for PLV has been about \$410 per tonne fob Australia in the Globalcoal trading platform since October 12, with no active bids reported, market sources told Fastmarkets.

A Vietnam-based trader said they were looking for Australia coking coal resold from China's ports because those cargoes are usually cheaper than current spot prices.

"Chinese sellers would not lose money by reselling Australia coal in the current market, but they need to pay the demurrage fees at ports," the trader said.

"The PLV price may increase or stay stable by this weekend, but will drop next week because a few major buyers are trying to bid at low levels amid the high offers," an India-based mill source said.

No deals were reported in the fob Australia market on Wednesday.

Dalian Commodity Exchange

The most-traded January coking coal futures contract closed at 3,475 yuan (\$538.56) per tonne on Wednesday, up by 9.50 yuan per tonne day on day.

The most-traded January coke contract closed at 3863 yuan per tonne on Wednesday, up by 84 yuan per tonne day on day.

Coking coal/coke/PCI prices

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-COA-0003	Premium hard coking coal, fob DBCT, \$/dmt	13 Oct 2021	405.55	-0.18%	Sep 2021	351.58
MB-COA-0005	Premium hard coking coal, cfr Jingtang, \$/dmt	13 Oct 2021	608.85	-0.02%	Sep 2021	528.61
MB-COA-0004	Hard coking coal, fob DBCT, \$/dmt	13 Oct 2021	347.34	0.00%	Sep 2021	293.13
MB-COA-0002	Hard coking coal, cfr Jingtang, \$/dmt	13 Oct 2021	559.46	0.21%	Sep 2021	479.84
MB-COA-0001	Hard coking coal domestic China spot market, Shanxi-origin, delivered Tangshan, yuan/tonne	11 Oct 2021	3700 - 4350	-2.78%	Sep 2021	3752.5 - 4492.5
MB-COA-0008	PCI low-vol, fob DBCT, \$/dmt	08 Oct 2021	255.44	1.00%	Sep 2021	228.26
MB-COA-0007	PCI low-vol, cfr Jingtang, \$/dmt	08 Oct 2021	284.62	0.70%	Sep 2021	262.99
MB-COA-0006	Coke 65% CSR, fob China, \$/tonne	12 Oct 2021	680 - 695	-2.48%	Sep 2021	657.5 - 678.75

Copper raw materials

Source: dashboard.fastmarkets.com/m/00000004-0000-4000-8000-000000000000

Top stories

ENERGY TRANSITION: IEA warns that metals price volatility may slow net-zero progress or add to costs

By Andrea Hotter - Wednesday 13 October

Higher or more volatile prices for critical minerals such as lithium, cobalt, nickel, copper and rare earth elements could slow global progress toward a clean-energy future or make it more costly, according to the International Energy Agency (IEA).

In its World Energy Outlook report released on Wednesday October 13, the IEA said that price rallies for key minerals in 2021 could increase the costs of solar modules, wind turbines, batteries for electric vehicles (EV) and power lines by 5-15% this year alone.

If maintained over the period to 2030 - in a scenario targeting a transition to a net-zero carbon emissions economy by 2050 - price increases would add \$700 billion to the investment required for these technologies, the IEA noted.

"The outlook for prices for many energy transition minerals depends on the pace of economic growth and on supply responses to that growth. It also depends to a large extent on how the world's decarbonization pathway evolves," the IEA said.

The net-zero carbon emissions scenario charts a roadmap to the stabilization of rising global temperatures - preferably limiting the rise in the mean global temperature to 1.5°C above pre-industrial levels - and the achievement of other energy-related sustainable development goals, in line with the goals of the 2015 Paris Agreement.

The IEA report follows price rallies in many metals this year, with some reaching multi-year highs. Copper prices exceeded the \$10,000-per-tonne barrier in May 2021 to hit an all-time high, while nickel prices rose by 50% from pre-pandemic levels to reach almost \$19,900 per tonne in July, their highest level since 2012.

Lithium and cobalt prices also have resumed an upward trajectory.

According to the IEA, the recent price rallies were mainly driven by a combination of demand recovering faster than supply, stock-building activities, ultra-loose monetary policies and expectations for strong future demand growth as a result of accelerated energy transitions.

Substitution

The level of future prices will be determined by how well industry and governments ensure adequate investment in new supply before any imbalances emerge, and also by the extent to which consumers respond to rising prices by reducing demand and switching to substitute materials, the report noted.

Periods of high cobalt prices in the late-2010s led many EV manufacturers to look for ways to reduce cobalt use and develop batteries with higher energy density. As a result, EV batteries have shifted away from cobalt-rich chemistries in recent years toward chemistries that use more nickel.

The IEA said it expected this trend will continue, with NCA+ batteries - a nickel-rich and lower-cobalt variant of the nickel-cobalt-aluminium oxide chemistry - and NCM811 - a nickel-cobalt-manganese oxide chemistry with 80% nickel, 10% cobalt and 10% manganese - accounting for 65% of the light-duty EV market in 2050, compared with 35% in 2020.

Constraints on nickel and cobalt supplies in particular could lead to more EV batteries with lower critical mineral needs - such as lithium iron phosphate (LFP) - and manganese-rich chemistries - such as lithium nickel manganese oxide (LNMO) batteries - the IEA noted, even if these might be sub-optimal from a performance perspective.

Following the price rallies of NCM precursors in the first-half of 2021, several companies have already dissented from the consensus view that nickel-rich NCM cathode chemistries will dominate future EV chemistries, the report added.

Demand growth

According to the IEA, the projected level of demand growth for key metals in a net-zero carbon emissions by 2050 scenario is "unprecedented," and is bound to put substantial upward pressure on prices.

Achieving net-zero emissions globally by 2050 means record levels of clean energy deployment and requires up to six times more mineral inputs in 2050 than today, the report said.

The IEA forecast a more than 50-fold increase in mineral demand for EV and battery storage by 2050, while the expansion of electricity networks will lead to a doubling of demand for copper for power lines in the period to 2050.

Lithium is expected to see the fastest growth among the key minerals, with a 100-fold increase over the current demand level in the period to 2050. Copper demand is forecast to register the largest absolute growth, rising by around 14 million tonnes by 2050 and expanding the global market by 60% during that period, the IEA estimated.

"As a result, clean-energy technologies emerge as the fastest-growing segment of demand for most minerals, evolving from a niche consumer to a leading source of demand," the IEA said.

"But the prospect of a rapid increase in demand for critical minerals - well above anything seen previously in most cases - raises questions about the availability and reliability of supply," the IEA added.

Copper concentrate news

LME WEEK 2021: Supply, infrastructure charging challenges remain for EV growth, ERG CEO says

By Andrea Hotter - Wednesday 13 October

A lack of vehicle-charging infrastructure, along with constraints on the supply of battery raw materials, were the major challenges to growth in the adoption of electric vehicles (EVs), the chief executive officer of diversified mining company Eurasian Resources Group (ERG) has said.

Lithium, cobalt, nickel, manganese and graphite are critical raw materials for the production of battery cathodes and anodes, while copper is central to the EV charging infrastructure required to support the sector.

According to Benedikt Sobotka, if demand for EVs continues to increase as expected, there will be serious problems concerning the availability of materials, both cathode and anode, and with the parts of the battery and the different chemistries that are being evaluated.

“The world hasn’t produced this amount of energy materials before,” Sobotka told a webinar on Wednesday October 13 during the annual LME Week event.

“In the past,” he said, “the largest battery was the lead-acid battery, which was almost 100% recyclable. The dominance today of the lithium-ion battery is a challenge because the percentage [of the material open to] recycling is very, very small.”

Sobotka said that the lack of visibility about which battery technology would ultimately become dominant has created a tremendous amount of uncertainty about which metals would be required, the necessary quantities and the timescale involved.

“The challenge is that you can build a battery giga-factory in record time, but it takes a mining project 10-15 years to reach completion. If you, as a supplier of raw materials, wanted to respond to a supply-demand trend, you’re always late, which leads to cyclicity,” he told the webinar.

“This in turn leads to price volatility, which is something that is very bad for the midstream [part of the supply chain], the battery segment, because [participants in that sector] tend to offer batteries at a fixed price, and that’s a very difficult situation for them,” he said.

“A lot of them have historically been losing money because the price volatility in the supply of materials into that supply chain was killing profits,” Sobotka added. “This will only balance out once there’s more visibility in the forecasting of demand, which I don’t see happening... It’s very difficult to predict which materials, and in what quantities and qualities, will be required.”

Price volatility has been particularly evident in lithium, where prices have risen by 135-265% in 2021, depending on source location and type of lithium salt. Spodumene prices, meanwhile, were up by 470% since the start of the year.

This volatility will have been a wake-up call for many lithium consumers, who were not particularly active when prices last spiked higher in 2017, according to Fastmarkets analyst William Adams. This may well mean that more of them will look at managing their price risk and take an interest in the exchanges offering lithium futures that are cash-settled against Fastmarkets’ price assessment.

Fastmarkets assessed the lithium hydroxide monohydrate 56.5% LiOH.H₂O min, battery grade, spot price, cif China, Japan & Korea, at \$21-22 per kg on October 7, up by 138.89% from \$8.50-9.50 per kg at the beginning of 2021.

A report by the Global Battery Alliance, of which Sobotka is co-chair, found that, by 2030, batteries could enable the transport and power sectors to keep

their contribution to global temperature increases below the 2°C (3.6°F) Paris Agreement scenario.

The Paris Agreement was adopted in 2015 and designed to keep the rise in the mean global temperature to no more than 2°C (3.6°F) above pre-industrial levels, and preferably to limit the increase to 1.5°C. It included a commitment by governments to reduce greenhouse gas (GHG) emissions to net-zero by 2050.

Charging infrastructure

EV sales have been particularly strong this year and were expected to total around 5.8 million, up from 3.3 million in 2020 and 2.4 million in 2019.

But the use of EVs requires the creation of charging infrastructure, which has been slow to develop.

“Clearly, one of the most prominent and important challenges is the shortage of EV charging infrastructure, which is lagging consumer demand for electrification,” Sobotka said.

“It’s easy to build a charging station at a gas station on a motorway, but 80 stations in inner cities, where space is constrained, is more difficult,” he added.

“Even if you throw funding at the issue, it is incredibly difficult to deploy EV charging infrastructure quickly. The EU recently concluded that it needs to speed up construction of EV charging infrastructure to meet the Green Deal target of 1 million charging points by 2025. That’s an incredible number, and that needs to be embedded with the availability of power infrastructure linking with charging stations,” he said.

A report by Navigant Research in 2018 estimated that total copper demand from EV charging installations would be 560,000 tonnes through to 2027. The group forecast that annual sales of EV charging equipment would see new demand for copper increase from 16,500 tonnes in 2018 to 102,000 tonnes by 2027.

This forecast came as the supply pipeline for new copper mines remained relatively thin. According to information seen by Fastmarkets, the deficit in the global refined copper market deepened this year, to nearly 900,000 tonnes, following a deficit of 530,000 tonnes in 2020.

Kamoa-Kakula copper concentrator set for ahead-of-schedule Q2 22 start-up, says miner

By Sally Zhang - Wednesday 13 October

The phase-two concentrator plant at the Kamoa-Kakula copper mine in the Democratic Republic of the Congo (DRC) is expected to begin full operations ahead of schedule in the second quarter of 2022, joint-venture partner Ivanhoe Mines said on Tuesday October 12.

“Construction of the phase-two concentrator plant is progressing very well... Based on the pace of the work completed to date, we now expect to deliver first ore to the phase-two ball mills before the end of Q2 2022,” said Mark Farren, chief executive of the Kamoa-Kakula joint venture, which is owned by Canada’s Ivanhoe Mines and China’s Zijin Mining.

The phase-two expansion, which was originally expected to be completed in the summer of 2022, will double production to more than 400,000 tonnes of copper per year, the company said.

Its phase-one concentrator, which achieved steady production in July, has since then consistently achieved a run-rate throughput of 12,600 tonnes of ore per day (a rate of approximately 4.2 million tonnes per annum), according to the company.



This is 10.5% higher than the design throughput of approximately 11,400 tonnes per day, or 3.8 million-tonnes-per-year.

The Kamoā-Kakula mine is the world's fourth-largest copper deposit, and [Citic Metal \(HK\)](#) and [Zijin Mining subsidiary Gold Mountains \(HK\)](#) [International Mining Co](#) have signed offtake agreements for copper output from the mine.

Fastmarkets' [copper concentrate TC/RC index, cif Asia Pacific](#) was largely flat at \$60.7 per tonne/6.07 cents per lb on October 8, compared with \$60.9 per

tonne/6.09 cents per lb a week earlier.

Market participants are looking to start 2022 copper concentrate contractual negotiations during the annual LME Week in London, which started on Monday October 11.

In late June, Chile's [Antofagasta](#) agreed on a treatment charge in the [mid-\\$50s to supply four major Chinese smelters with copper concentrates](#) in the first half of 2022.

Key copper raw materials prices

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-CU-0287	Copper concentrates TC index, cif Asia Pacific, \$/tonne	08 Oct 2021	60.7	-0.33%	Sep 2021	60.35
MB-CU-0288	Copper concentrates RC index, cif Asia Pacific, US cents/lb	08 Oct 2021	6.07	-0.33%	Sep 2021	6.04
MB-CU-0409	Copper blister 98-99% RC annual benchmark, cif China, \$/tonne	22 Jan 2021	140 - 150	12.40%	Sep 2021	140 - 150
MB-CU-0408	Copper blister 98-99% RC spot, cif China, \$/tonne	30 Sep 2021	150 - 170	-11.11%	Sep 2021	150 - 170
MB-CU-0512	No1 copper material, RCu-2A,1B (candy/berry), cif China, LME/Comex discount, US cents per lb	27 Sep 2021	8.5 - 11	-29.09%	Sep 2021	8.5 - 11
MB-CU-0360	No2 copper material, RCu-2B (birch/cliff), cif China, LME/Comex discount, US cents per lb	27 Sep 2021	25 - 30	-36.78%	Sep 2021	25 - 30
MB-CU-0422	Copper concentrates counterparty spread, \$/tonne	30 Sep 2021	9.36	53.19%	Sep 2021	7.74
MB-CU-0423	Copper Concentrates Co-VIU, \$/tonne	30 Sep 2021	(0.1)		Sep 2021	(0.27)
MB-CU-0508	Copper concentrates TC implied smelters purchase, cif Asia Pacific, \$/tonne	08 Oct 2021	65.38	-0.31%	Sep 2021	63.41
MB-CU-0510	Copper concentrates RC implied smelters purchase, cif Asia Pacific, cents/lb	08 Oct 2021	6.54	-0.30%	Sep 2021	6.34
MB-CU-0509	Copper concentrates TC implied traders purchase, cif Asia Pacific, \$/tonne	08 Oct 2021	56.02	-0.36%	Sep 2021	57.3
MB-CU-0511	Copper concentrates RC implied traders purchase, cif Asia Pacific, cents/lb	08 Oct 2021	5.6	-0.36%	Sep 2021	5.73

Ferro-alloy markets

Source: dashboard.fastmarkets.com/m/1746b0c9-25c5-4ffd-b531-bdec474d8481

Bulk ores & alloys news

Electricity price rise adds strength to tight European ferro-chrome market [CORRECTED]

By Jon Stibbs - Wednesday 13 October

Higher electricity prices have added to the production costs of chrome alloy, especially low-carbon ferro-chrome, during the week to Tuesday October 12, at a time when the market was already short of material with prices at multi-year highs.

Fastmarkets assessed **ferro-chrome 0.10% C, average 65-70% Cr, delivered Europe** at \$3.05-3.25 per lb Cr on Tuesday, up 7-15 cents (+3.6%) from \$2.90-3.18 per lb Cr on September 28.

"Producers expect prices to keep rising to as high as \$3.50-3.60 per lb Cr in December, but for now there is very little material available on the spot market so it can be hard to even find current offers prices," one trader said.

In addition to the shortage of material in the market, producers have faced increased costs with electricity prices surging.

"Although the market is tight and this is driving prices, there is also cost support as a result of the rising electricity prices. I know electricity makes up around 40% of production costs for some producers," the trader added.

Low-carbon ferro-chrome is highly energy intensive to produce so the market is particularly susceptible to a change in energy costs.

"The market is very strong and electricity prices are starting to seriously weigh on alloy production costs," a producer said.

At the same time, the market continues to be constrained by high logistical costs that have already driven price rises.

"There are not enough containers available for our needs and sea freights are constantly increasing in price," a second producer said.

As a result of the rising costs and uncertain availability, consumers and traders have been keen to secure supply whenever possible.

"We have never had such demand for long-term contracts and we are receiving tenders from traders that we have had to reject," the producer continued.

High-carbon market firm

Meanwhile, Fastmarkets' assessment of **ferro-chrome high carbon 6-8.5% C, basis 65-70% Cr, max 1.5% Si, delivered Europe** was \$1.62-1.80 per lb Cr on Tuesday, narrowing upward by 1 cent from \$1.61-1.80 per lb one week earlier.

Fastmarkets' assessment of **ferro-chrome high carbon 6-8.5% C, basis 60-70% Cr, max 1.5% Si, delivered Europe** was also at \$1.62-1.80 per lb Cr on Tuesday, narrowing upward by 1 cent from \$1.61-1.80 per lb last week.

There is also a shortage of material available in the high-carbon ferro-chrome market and this has recently driven price rises, as well as incentivized consumers to secure their long-term contracts for 2022 earlier than usual.

The increase in electricity costs has also helped support the high-carbon ferro-chrome market, which was already at multi-year highs.

"We have all been shocked by the lurch upwards in power prices. We can certainly keep afloat but there is considerable uncertainty about how long it will last," a third producer said. "Will the current spike in prices ease quickly or will it carry on into 2022?"

"In response, we attempted to pass on the additional costs and really push up our offer prices, but this was rejected by consumers," he continued.

But traders reported consumers were more focused on the soaring ferro-silicon market rather than ferro-chrome this week.

"Everyone is more concerned about ferro-silicon - no one is really interested in ferro-chrome at the moment," a second trader said.

Fastmarkets' assessment of **ferro-silicon lumpy basis 75% Si (scale pro rata), delivered Europe** soared by 34.7% over the week to October 8 to €4,000-4,200 per tonne from €2,900-3,100 per tonne.

Meanwhile, Fastmarkets assessed **ferro-chrome high carbon 6-8.5% C, basis 60-64.9% Cr, max 3% Si, cif Europe** stable at \$1.41-1.47 per lb Cr on Tuesday.

Prices remained firm but steady this week, with some traders pointing to the unmoved **tender price from Tsingshan** in China as evidence of market stability.

Indian material continued to be uncompetitive in the European market because of the high cost of sea freight.

"To be in the market, Indian producers need to export at a low price for them and it will then still be a high price for a European importer," a third trader said.

Editor's note: The third paragraph has been corrected to read "Producers expect prices to keep rising to as high as \$3.50-3.60 per lb Cr in December". The original version had mistakenly said \$1.50-1.60 per lb Cr.

Electricity price rise adds strength to tight European ferro-chrome market

By Jon Stibbs - Wednesday 13 October

A correction has been issued for this article. The update can be found [here](#).

Spot, tender price gap develops in Chinese FeCr market

By Jon Stibbs, Siyi Liu - Wednesday 13 October

A price gap between spot and tender prices developed in China's ferro-chrome market in early October after sellers in the spot market raised their prices because of supply tightness, while major stainless steel mills decided to keep their tender prices flat from the previous month.

Offers heard in the spot market continued to rise after China's National Day holiday on October 1-7, due to limited availability caused by lasting electricity limitations.

Fastmarkets' price assessment for **ferro-chrome, spot, 6-8% C, basis 50% Cr**,



ddp China, widened upward by 500 yuan to 11,000-12,000 yuan (\$1,704-1,859) per tonne on Tuesday October 12, from 11,100-11,500 yuan per tonne on September 28. The earlier assessment was rolled over on October 5 because of the National Day holiday.

China produced around 400,000 tonnes of high-carbon ferro-chrome in September, which was an 18% drop from the previous month, according to market participants.

"There's very little spot availability," a trader said. "Many producers were focused on long-term contract delivery, leaving very few cargoes to offer in the spot [market]."

But the price surge was ignored by major stainless steel mills when they were deciding their October tender prices. On Monday, Tsingshan announced that it would keep its October-delivery high-carbon ferro-chrome price at 9,995 yuan per tonne, unchanged from the previous month.

Traditionally, spot prices are 200-300 yuan per tonne higher than major stainless steel mills' tender prices. And the unusual gap at the moment between tender and spot prices could fuel suppliers' reluctance to deliver material, market participants told Fastmarkets.

"This has placed producers and traders in a [difficult] situation," a second trader said. "Although the tenders are still profitable for producers, everyone would be eyeing the higher profits they could get by selling on the spot market."

In the meantime, some bearishness emerged in the market amid continuing production cuts in the stainless-steel sector.

"China's crude stainless steel output dropped by more than expected in September, reducing demand for upstream material," a third trader said. "And prices could face more pressure if the production curbs [among stainless steel makers persist into] the fourth quarter."

The lower-than-expected tender price also damped sentiment in the imported ferro-chrome market, where some exporters had expected there to be further price support, if tenders increased.

That said, some market participants pointed out that the unchanged tender prices could only indicate that the major stainless steel mills had sufficient stocks, while others, whose stocks were not adequate, would still have to buy material at higher prices.

"The supply and demand fundamentals remain the same – the market remains tight," a ferro-chrome producer said. "It may just be that Tsingshan does not need cargo."

Fastmarkets' price assessment for ferro-chrome 50% Cr, import, cif main Chinese ports, was stable at \$1.32 per lb contained Cr on Tuesday.

UG2 chrome ore market weakens

The market for UG2 chrome ore ticked downward in response to weakening demand, resulting in light liquidity because buyers had just returned from the week-long break.

Fastmarkets' chrome ore, South Africa UG2 concentrates index, basis 42%, cif China, dipped by \$1 per tonne on October 12 to \$163 per tonne.

The weaker demand also came after a shift in consumption patterns toward buyers that do not have sintering facilities and therefore cannot process UG2 ore.

"Suppliers all want a higher grade of ore than UG2 at the moment," an ore producer said.

Activity on the ore market has been damped by uncertainty among consumers about their requirements.

Smelters' demand for ore will be determined by their access to electricity, and the price they must pay. Smelters in Inner Mongolia told Fastmarkets that rates for electricity have increased by 0.20 yuan per kWh since late September, which added to their costs of ferro-chrome production by around 800 yuan per tonne.

"The increased production costs and unchanged tenders will lead to lower acceptance of chrome ore," a second ferro-chrome producer source said.

To encourage liquidity, producers may need to lower their offer prices, according to market participants.

High logistics costs meant that miners have added cost support to current prices so have been reluctant to reduce their prices, with one ore trader saying: "We are waiting now to hear the situation with the energy restrictions will develop."

Chrome ore

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-CHO-0003	Chrome ore South Africa UG2 concentrates index basis 42%, cif China, \$/tonne	12 Oct 2021	163	-0.61%	Sep 2021	164.25
MB-CHO-0002	Chrome ore Turkish lumpy 40-42%, cfr main Chinese ports, \$/tonne	12 Oct 2021	290 - 310	0.00%	Sep 2021	290 - 310

Ferro-chrome

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-FEC-0012	Ferro-chrome high carbon 6-8% C, basis 60-65% Cr, max 2% Si, in-whs Pittsburgh, \$/lb	07 Oct 2021	1.82 - 1.93	9.30%	Sep 2021	
MB-FEC-0004	Ferro-chrome high carbon 6-8.5% C, basis 60-70% Cr, max 1.5% Si, delivered Europe, \$/lb Cr	12 Oct 2021	1.62 - 1.8	0.00%	Sep 2021	1.54 - 1.75
MB-FEC-0001	Ferro-chrome low phosphorous, min 65% Cr, max 0.015% P, delivered Europe, \$/lb	12 Oct 2021	1.71 - 1.88	2.27%	Sep 2021	1.65 - 1.82
MB-FEC-0017	Ferro-chrome high carbon 57-65% Cr, cif dup Japan, \$/lb	07 Oct 2021	1.22 - 1.25	0.00%	Sep 2021	1.22 - 1.25



Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-FEC-0018	Ferro-chrome high carbon 57-65% Cr, cif dup South Korea, \$/lb	07 Oct 2021	1.21 - 1.24	0.00%	Sep 2021	1.21 - 1.24
MB-FEC-0021	Ferro-chrome high carbon 6-8.5% C, basis 65-70% Cr, max 1.5% Si, delivered Europe, \$/lb Cr	12 Oct 2021	1.62 - 1.8	0.00%	Sep 2021	1.54 - 1.75
MB-FEC-0020	Ferro-chrome high carbon 6-8.5% C, basis 60-64.9% Cr, max 3% Si, cif Europe, \$/lb Cr	12 Oct 2021	1.41 - 1.47	0.00%	Sep 2021	1.36 - 1.46
MB-FEC-0011	Ferro-chrome 50% Cr import, cif main Chinese ports, \$/lb contained Cr	12 Oct 2021	1.32	0.00%	Sep 2021	1.26
MB-FEC-0006	Ferro-chrome spot 6-8% C, basis 50% Cr, ddp China, yuan/tonne	12 Oct 2021	11100 - 12000	2.21%	Sep 2021	10225 - 10575
MB-FEC-0005	Ferro-chrome contract 6-8% C, basis 50% Cr, ddp China, yuan/tonne	12 Oct 2021	9745 - 9995	0.00%	Sep 2021	9745 - 9995
MB-FEC-0019	Ferro-chrome lumpy Cr benchmark indicator, charge basis 52% (and high carbon), Europe, \$/lb	12 Oct 2021	1.86	0.00%	Sep 2021	1.83
MB-FEC-0016	Ferro-chrome lumpy Cr charge quarterly, basis 52% Cr (and high carbon), delivered Europe, \$/lb Cr (rounded to the closest 2 decimal places)	01 Oct 2021	1.8	15.38%	Sep 2021	1.56
MB-FEC-0014	Ferro-chrome low carbon 0.10%C, 62% Cr min, in-whs Pittsburgh, \$/lb	07 Oct 2021	3.15 - 3.2	1.60%	Sep 2021	
MB-FEC-0013	Ferro-chrome low carbon 0.05%C, 65% Cr min, in-whs Pittsburgh, \$/lb	07 Oct 2021	3.25 - 3.3	1.55%	Sep 2021	
MB-FEC-0015	Ferro-chrome low carbon 0.15%C, 60% Cr min, in-whs Pittsburgh, \$/lb	07 Oct 2021	3.1 - 3.15	3.30%	Sep 2021	
MB-FEC-0003	Ferro-chrome 0.10% C, average 65-70% Cr, delivered Europe, \$/lb Cr	12 Oct 2021	3.05 - 3.25	3.62%	Sep 2021	2.84 - 3.14
MB-FEC-0002	Ferro-chrome low carbon, 65% Cr, max 0.06% C, delivered Europe, \$/lb Cr	12 Oct 2021	3.09 - 3.29	3.57%	Sep 2021	2.88 - 3.18

Manganese ore

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-MNO-0002	Manganese ore 37% Mn, fob Port Elizabeth, \$/dmtu	08 Oct 2021	2.91	-0.68%	Sep 2021	2.89
MB-MNO-0001	Manganese ore 44% Mn, cif Tianjin, \$/dmtu	08 Oct 2021	5.35	-0.74%	Sep 2021	5.2
MB-MNO-0003	Manganese ore index 37% Mn, cif Tianjin, \$/dmtu	08 Oct 2021	4.59	0.00%	Sep 2021	4.52
MB-MNO-0004	Manganese ore port index, base 37% Mn, range 35-39%, fot Tianjin China, yuan/dmtu	08 Oct 2021	34.6	0.00%	Sep 2021	34.3
MB-MNO-0005	Manganese ore port index, base 44% Mn, range 42-48%, fot Tianjin China, yuan/dmtu	08 Oct 2021	41.4	0.24%	Sep 2021	40.08

Ferro-manganese

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-FEM-0007	Ferro-manganese 65% Mn min, max 7% C, in-whs China, yuan/tonne	08 Oct 2021	11500 - 12000	2.17%	Sep 2021	8875 - 9275
MB-FEM-0006	Ferro-manganese basis 78% Mn max, standard 7.5% C, delivered Europe, €/tonne	08 Oct 2021	1800 - 2000	12.59%	Sep 2021	1575 - 1675
MB-FEM-0002	Ferro-manganese low carbon 80% Mn, max 0.80% C, in-whs Pittsburgh, US cents/lb	07 Oct 2021	235 - 240	0.00%	Sep 2021	219.8 - 228
MB-FEM-0004	Ferro-manganese medium carbon 80% Mn, max 1.50% C, in-whs Pittsburgh, \$/lb	07 Oct 2021	1.95 - 2	0.00%	Sep 2021	
MB-FEM-0003	Ferro-manganese medium carbon 80% Mn, max 1.50% C, in-whs Pittsburgh, US cents/lb	07 Oct 2021	195 - 200	0.00%	Sep 2021	194 - 199
MB-FEM-0001	Ferro-manganese high carbon 78% Mn, standard 7.5% C, in-whs Pittsburgh, \$/long ton	07 Oct 2021	2500 - 2550	2.02%	Sep 2021	2450 - 2500

Silico-manganese



Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-SIM-0001	Silico-manganese 65% Mn min, max 17% Si, in-whs China, yuan/tonne	08 Oct 2021	12000 - 12500	16.67%	Sep 2021	8875 - 9300
MB-SIM-0004	Silico-manganese 65% Mn min, min 16% Si, fob India, \$/tonne	08 Oct 2021	1900 - 2000	27.87%	Sep 2021	1410 - 1440
MB-SIM-0002	Silico-manganese lumpy 65-75% Mn, basis 15-19% Si (scale pro rata), major European destinations €/tonne	08 Oct 2021	1900 - 2000	20.00%	Sep 2021	1585 - 1635
MB-SIM-0005	Silico-manganese 65% Mn min, min 16% Si, in-whs Pittsburgh, \$/lb	07 Oct 2021	1.18 - 1.2	0.00%	Sep 2021	
MB-SIM-0003	Silico-manganese 65% Mn min, min 16% Si, in-whs Pittsburgh, US cents/lb	07 Oct 2021	118 - 120	0.00%	Sep 2021	112 - 118.4

Ferro-silicon

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-FES-0003	Ferro-silicon 75% Si, in-whs Pittsburgh, \$/lb	07 Oct 2021	2.75 - 2.85	6.46%	Sep 2021	
MB-FES-0005	Ferro-silicon lumpy basis 75% Si (scale pro rata), delivered Europe, €/tonne	08 Oct 2021	4000 - 4200	36.67%	Sep 2021	2072.5 - 2250
MB-FES-0004	Ferro-silicon 75% Si min export, fob China, \$/tonne	13 Oct 2021	4300 - 4400	-3.33%	Sep 2021	2964 - 3090
MB-FES-0001	Ferro-silicon 75% Si min, in-whs China, yuan/tonne	13 Oct 2021	20000 - 21000	-8.89%	Sep 2021	14660 - 15500

Noble ores & alloys news

TITANIUM SNAPSHOT: Alloy price range widens upward but trading slow

By Declan Conway - Wednesday 13 October

Key data from Fastmarkets' pricing session in Europe on Wednesday October 13.

FERRO-TITANIUM 70% TI, MAX 4.5% AL

(in \$ per kg, ddp Europe)

New price	Previous price	Change to midpoint of range	Midpoint % change
7.70-8.20	7.70-8.10	▲0.05	▲0.6

TITANIUM SCRAP TURNINGS, UNPROCESSED TYPE 90/6/4, 0.5% SN MAX

(in \$ per lb, cif Europe)

New price	Previous price	Change to midpoint of range	Midpoint % change
1.80-2.00	1.80-2.00	0	0

TITANIUM SCRAP TURNINGS, UNPROCESSED TYPE 90/6/4, 0.5-2% SN MAX

(in \$ per lb, cif Europe)

New price	Previous price	Change to midpoint of range	Midpoint % change
1.80-1.90	1.80-1.90	0	0

Source: Fastmarkets

Key drivers

- The European ferro-titanium price range widened higher in the week to Wednesday October 13 after new deals were reported, although overall trading activity was slow amid muted consumer buying interest.
- There was industry talk of some lower-priced deals, although sources said these were outliers to typical trading prices and due to some profit-taking on cheaper material sourced from abroad.
- Steelmakers have been tentative in buying ferro-titanium for prompt delivery due to uncertainty about underlying trends in consumption in the aerospace and automotive industries, which have both cut output this year. Surging energy prices have the potential to jeopardize production in both the steel and ferro-alloy sectors in the near term, sources said.
- Scrap suppliers have been holding their offer prices steady for several weeks and waiting for strong trading activity between ferro-titanium producers and steel mills before deciding what level to offer scrap prices. Renewed buying for feed from ferro-titanium producers, however, is likely because producers will need to complete their smelting schedules set for the rest of the current quarter.

**Key quotes**

- "The ferro-titanium market is still suffering from a lack of prompt demand and the persistent shortage of computer chips affecting automotive demand and automotive steels as a result. The lower-priced sales can only be explained by cash issues; either alloy producers are selling low volumes and need to sell material to finance their operations or some traders are disappointed by the poor price performance and have decided to sell their positions and switch products. Scrap remains extremely tight and very difficult to source, consequently underpinning ferro-titanium prices for this quarter and the first quarter of 2022," - European alloy producer 1

- "Titanium scrap availability is tightening by the day and so scrap merchants are demanding higher and higher prices, while ferro titanium trading is moving slowly with intermittent demand from steelworks. As a result, ferro-titanium production profit margins are almost non-existent and we are also faced with persistent increases on energy and transport costs. We need ferro-titanium prices above \$8 per kg for anything to make sense, but there is no sign that will happen anytime soon," - UK-based alloy producer

Trade log: Ferro-molybdenum 65% Mo min, in-whs Rotterdam, \$/kg Mo

By pricing@fastmarkets.com - Wednesday 13 October

The Ferro-molybdenum 65% Mo min, in-whs Rotterdam, \$/kg Mo trade log including business, bids and offers reported to Fastmarkets.

Fastmarkets publishes trades logs for its key price assessments and indices to bring more transparency into the markets it covers and the pricing process it applies.

Fastmarkets assessed Ferro-molybdenum 65% Mo min, in-whs Rotterdam, \$/kg Mo at 44.50-45.20 on Wednesday October 13, 2021.

- Sale at \$44.80 for standard tonnage
- Sale at \$45.20 for standard tonnage
- Offer at \$45.50
- Deal heard at \$44.50
- Deal heard at \$45.00
- Deal heard at \$45.10
- Prices indicated at \$44.00-45.00
- Prices indicated at \$44.00-45.00
- Prices indicated at \$44.50-46.20
- Prices indicated at \$45.00-45.50
- Prices indicated at \$45.00-45.50

Any data submitted under a Data Submitter Agreement (DSA) will not be published.

To see all Fastmarkets' pricing methodology and specification documents, go to <https://www.fastmarkets.com/about-us/methodology>.

Fastmarkets uses its expert judgment to exclude outlying or unrepresentative numbers, and discount or discard prices that it believes may otherwise be questionable and/or unreliable.

Trade log: Ferro-vanadium basis 78% V min, 1st grade, ddp Western Europe, \$/kg V

By pricing@fastmarkets.com - Wednesday 13 October

The Ferro-vanadium basis 78% V min, 1st grade, ddp Western Europe, \$/kg V trade log including business, bids and offers reported to Fastmarkets.

Fastmarkets publishes trades logs for its key price assessments and indices to bring more transparency into the markets it covers and the pricing process it applies.

Fastmarkets assessed Ferro-vanadium basis 78% V min, 1st grade, ddp Western Europe, \$/kg V at 31.00-31.50 on Wednesday October 13, 2021.

- Prices indicated at \$31.00
- Offer at \$32.00
- Sale at \$31.40
- Prices indicated at \$31.00-31.50
- Prices indicated at \$31.00-31.50
- Prices indicated at \$30.75-31.50
- Prices indicated at \$31.50
- Prices indicated at \$31.00-31.50
- Prices indicated at \$31.00-31.50
- Bid at \$30.95
- Sale at \$31.25 for 3 tonnes
- Prices indicated at \$31.50-32.50
- Prices indicated at \$32.00
- Bid at \$30.50
- Prices indicated at \$31.00-32.00

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Fastmarkets uses its expert judgment to exclude outlying or unrepresentative numbers, and discount or discard prices that it believes may otherwise be questionable and/or unreliable.

Trade log: Ferro-tungsten basis 75% W, in-whs dup Rotterdam, \$/kg W

By pricing@fastmarkets.com - Wednesday 13 October

The Ferro-tungsten basis 75% W, in-whs dup Rotterdam, \$/kg W trade log including business, bids and offers reported to Fastmarkets.

Fastmarkets publishes trades logs for its key price assessments and indices to bring more transparency into the markets it covers and the pricing process it applies.

Fastmarkets assessed Ferro-tungsten basis 75% W, in-whs dup Rotterdam, \$/kg W at 37.00-38.50 on Wednesday October 13, 2021.

- Offer at \$38.00 for 6 tonnes
- Offer at \$39.00
- Prices indicated at \$38.00
- Prices indicated at \$37.00-38.50
- Prices indicated at \$37.00-38.50
- Prices indicated at \$37.00-38.50

Any data submitted under a Data Submitter Agreement (DSA) will not be published.



To see all Fastmarkets' pricing methodology and specification documents, go to <https://www.fastmarkets.com/about-us/methodology>.

Fastmarkets uses its expert judgment to exclude outlying or unrepresentative numbers, and discount or discard prices that it believes may otherwise be questionable and/or unreliable.

Trade log: Tungsten APT 88.5% WO3 min, fob main ports China, \$/mtu WO3

By pricing@fastmarkets.com - Wednesday 13 October

The Tungsten APT 88.5% WO3 min, fob main ports China, \$/mtu WO3 trade log including business, bids and offers reported to Fastmarkets.

Fastmarkets publishes trades logs for its key price assessments and indices to bring more transparency into the markets it covers and the pricing process it applies.

Fastmarkets assessed Tungsten APT 88.5% WO3 min, fob main ports China, \$/mtu WO3 at 309.00-319.00 on Wednesday October 13, 2021.

- Offer at \$314-319
- Sale at \$311
- Sale at \$313
- Sale at \$309-312
- Sale at \$312-319
- Prices indicated at \$309
- Prices indicated at \$308-310
- Prices indicated at \$319
- Prices indicated at \$307-308

Any data submitted under a Data Submitter Agreement (DSA) will not be published.

To see all Fastmarkets' pricing methodology and specification documents, go to <https://www.fastmarkets.com/about-us/methodology>.

Fastmarkets uses its expert judgment to exclude outlying or unrepresentative numbers, and discount or discard prices that it believes may otherwise be questionable and/or unreliable.

Molybdenum/ferro-molybdenum

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-MO-0001	Molybdenum canned molybdic oxide, in-whs Pittsburgh, \$/lb	07 Oct 2021	18.5 - 19.5	2.70%	Sep 2021	19.23 - 20.14
MB-FEO-0003	Molybdenum drummed molybdic oxide 57% Mo min, in-whs Rotterdam, \$/lb Mo	13 Oct 2021	19.5 - 19.7	0.51%	Sep 2021	20.12 - 20.32
MB-FEO-0004	Molybdenum MB drummed molybdic oxide Mo, in-whs Busan, \$/lb	13 Oct 2021	18.9 - 19.1	1.71%	Sep 2021	18.91 - 19.19
MB-FEO-0002	Ferro-molybdenum 65-70% Mo, in-whs Pittsburgh, \$/lb	07 Oct 2021	21.75 - 22	2.96%	Sep 2021	21.3 - 22.11
MB-FEO-0001	Ferro-molybdenum 65% Mo min, in-whs Rotterdam, \$/kg Mo	13 Oct 2021	44.5 - 45.2	1.59%	Sep 2021	44.48 - 45.56

Ferro-niobium/ferro-titanium

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-FN-0001	Ferro-niobium 63-67% delivered consumer works, dp, Europe \$ per kg Nb	13 Oct 2021	44 - 46	0.00%	Sep 2021	45 - 47.8
MB-FET-0001	Ferro-titanium 70% Ti, max 4.5% Al, ddp Europe, \$/kg Ti	13 Oct 2021	7.7 - 8.2	0.63%	Sep 2021	7.7 - 8.1
MB-FET-0002	Ferro-titanium 68-72% Ti, ex-whs US, \$/lb	07 Oct 2021	3.6 - 3.7	0.00%	Sep 2021	3.56 - 3.7

Tungsten/ferro-tungsten

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-W-0001	Tungsten APT 88.5% WO3 min cif Rotterdam and Baltimore duty-free, \$/mtu WO3	08 Oct 2021	315 - 320	0.00%	Sep 2021	311 - 316.5
MB-W-0003	Tungsten APT 88.5% WO3 min, fob main ports China, \$/mtu WO3	13 Oct 2021	309 - 319	1.62%	Sep 2021	303.2 - 308.8
MB-W-0002	Tungsten concentrate 65% WO3, in-whs China, yuan/tonne	13 Oct 2021	110000 - 113000	0.90%	Sep 2021	110400 - 111600
MB-FEU-0001	Ferro-tungsten basis 75% W, in-whs dup Rotterdam, \$/kg W	13 Oct 2021	37 - 38.5	0.00%	Sep 2021	38.89 - 40.44
MB-FEU-0003	Ferro-tungsten export, min 75% fob China, \$/kg W	13 Oct 2021	38.5 - 40	-1.51%	Sep 2021	39.32 - 40.28

Vanadium pentoxide/ferro-vanadium

Symbol	Description	Date	Price	+/-	Month	Monthly Average
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Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-V-0001	Vanadium pentoxide 98% V2O5 min, in-whs Rotterdam, \$/lb V2O5	08 Oct 2021	7.5 - 8.5	1.27%	Sep 2021	8.65 - 9.45
MB-V-0002	Vanadium pentoxide 98% V2O5 min, fob China, \$/lb V2O5	07 Oct 2021	6.38 - 6.45	0.00%	Sep 2021	7.4 - 7.51
MB-V-0004	Vanadium pentoxide 98% V2O5 min, exw China, yuan/tonne	07 Oct 2021	91000 - 92000	0.00%	Sep 2021	105400 - 107000
MB-FEV-0002	Ferro-vanadium 70-80% V, in-whs Pittsburgh, \$/lb	07 Oct 2021	14.85 - 15.5	-3.62%	Sep 2021	16.26 - 16.7
MB-FEV-0001	Ferro-vanadium basis 78% V min, 1st grade, ddp Western Europe, \$/kg V	13 Oct 2021	31 - 31.5	0.39%	Sep 2021	34 - 35.89
MB-FEV-0003	Ferro-vanadium 78% V min, fob China, \$/kg V	07 Oct 2021	27.74 - 28.54	0.00%	Sep 2021	31.61 - 32.21

Iron ore markets

Source: dashboard.fastmarkets.com/m/74f0932b-34c8-430d-a2b6-2402986448e2

News

IRON ORE DAILY: Seaborne prices fall after official confirmation of winter restrictions in China

By Alex Theo - Wednesday 13 October

Seaborne iron ore prices continued to fall on Wednesday October 13, after a formal announcement on upcoming winter restrictions by China's Ministry of Industry & Information Technology (MIIT).

Fastmarkets iron ore indices

62% Fe fines, cfr Qingdao: \$124.17 per tonne, down \$4.83 per tonne

62% Fe low-alumina fines, cfr Qingdao: \$125.09 per tonne, down \$5.08 per tonne

58% Fe fines high-grade premium, cfr Qingdao: \$93.04 per tonne, down \$5.47 per tonne

65% Fe Brazil-origin fines, cfr Qingdao: \$148.40 per tonne, down \$3.90 per tonne

62% Fe fines, fot Qingdao: 904 yuan per wet metric tonne (implied 62% Fe China Port Price: \$129.81 per dry tonne), down by 16 yuan per wmt

Key drivers

The most-traded January iron ore futures contract on the Dalian Commodity Exchange (DCE) was on a downtrend, ending 5% lower than Tuesday's closing price of 769.50 yuan (\$119) per tonne.

Iron ore forward-month swaps contracts on the Singapore Exchange (SGX) also fell and by 5:58pm Singapore time the most-traded November contract was down \$6.11 per tonne compared with Tuesday's settlement price of \$127.71 per tonne.

A formal announcement from MIIT was made on Wednesday, with the restrictions consistent with the [draft copy issued in early September](#), which has served to depress market sentiment ever since, according to sources.

The weakness in demand for iron ore will last until the first quarter of 2022 because of the Winter Olympics in Beijing next February, a northern China trading source said.

At Chinese ports, around 1.07 million tonnes of iron ore were traded on Tuesday, down from 1.4 million tonnes on Monday, according to a Singapore-based trader, noting that trading activity generally on Wednesday was much lower than on Tuesday.

This suggests that steelmakers in China have already completed their post-holiday inventory replenishment, the trader added.

Quote of the day

"Sintering restrictions are just around the corner and this [is likely to affect] demand for iron ore. In addition, the winter restrictions will last up to February next year because of the Winter Olympic Games. Overall, sentiment in the iron ore market is still depressed," the northern China trading source said.

Trades/offers/bids heard in the market

BHP, Beijing Iron Ore Trading Center (Corex), 110,000 tonnes of 62.3% Fe Newman fines, traded at \$125.40 per tonne cfr China, laycan November 6-15.

BHP, Globalore, 80,000 tonnes of 62% Fe Mining Area C fines, traded at \$114.15 per tonne cfr China, laycan November 1-10.

BHP, Globalore, 90,000 tonnes of 62% Fe Mining Area C fines, traded at \$113.90 per tonne cfr China, laycan November 1-10.

Corex, 170,000 tonnes of 65.1% Fe Iron Ore Carajas fines, traded at the November average Fastmarkets' index for iron ore 65% Fe Brazil-origin fines, cfr Qingdao plus a premium of \$3.80 per tonne, bill of lading dated October 8.

Market participant indications

62% Fe fines, cfr Qingdao

Pilbara Blend fines: \$120.95-124 per tonne cfr China
Brazilian Blend fines: \$122-126 per tonne cfr China
Jimblebar fines: \$101.45-101.97 per tonne cfr China

65% Fe Brazil-origin fines, cfr Qingdao

Iron Ore Carajas: \$145-149 per tonne cfr China

Port prices

Pilbara Blend fines were traded at 870-900 yuan per wmt in Shandong province, Tangshan and Tianjin city on Wednesday, compared with 890-920 yuan per wmt on Tuesday.

The latest range is equivalent to about \$125-129 per tonne in the seaborne market.

Dalian Commodity Exchange

The most-traded January iron ore futures contract closed at 731 yuan (\$113) per tonne on Wednesday, down by 38.50 yuan per tonne from Tuesday's close.

Alice Li in Shanghai contributed to this article.

Cadence Minerals gets approval for restart of Amapa iron ore project

By Alice Li - Wednesday 13 October

London-listed Cadence Minerals has obtained the approval of its credit committee to put the Amapa iron ore project in Brazil back on track, according to local news reports earlier this week.

The project produces iron ore beneficiated to 65% Fe pellet feed and 62% Fe concentrate.

Based on available historical mining plans and an independent consultant review, Amapa is expected to have a full production mine life of 14 years and will be able to produce up to 5.3 million tonnes per year at capacity, according to a statement from Cadence on Monday October 11.

"We have now received the credit committee approval for the secured bank creditors to execute the settlement agreement, which means we have a clear



path and process to get Amapa re-commissioned, licensed and back into production," Cadence chief executive Kiran Morzaria said.

The Amapa project is a large-scale open-pit ore mine with associated rail, port and beneficiation facilities that started operations in December 2007.

The project produced 4.8 million tonnes of iron ore concentrate in 2011 and 6.1 million tonnes in 2012 respectively when it was owned by Anglo American.

Fastmarkets' index for iron ore 65% Fe Brazil-origin fines, cfr Qingdao was at \$152.30 per tonne on Tuesday October 12, down by \$7.70 per tonne day on day.

Port Hedland iron ore shipments climb 3% in Sep

By Alex Theo - Wednesday 13 October

Iron ore shipments from Australia's Port of Port Hedland rose by 3.1% in September from a year earlier, according to data released by the Pilbara Ports Authority on Tuesday October 12.

The port on the northern coast of Western Australia exported 47 million tonnes of iron ore last month, compared with 45.6 million tonnes a year earlier.

Last month's shipments were also 7% higher than August's 43.9 million tonnes.

Shipments to China from the Port of Port Hedland totaled 38.6 million tonnes in September, down by 2.8% from 39.7 million tonnes a year earlier but up by 7.5% from August's 35.9 million tonnes.

"September shipments into China from Australia are typically higher compared with August. This was likely driven by [the] re-stocking exercise by Chinese steelmakers ahead of the week-long Golden Week holiday which started from October 1," a trading source in Singapore said.

Fastmarkets' index for iron ore 62% Fe fines, cfr Qingdao averaged \$120.16 per tonne in September, down by \$3.39 per tonne (2.7%) from September 2020's average of \$123.55 per tonne, but down by \$39.50 per tonne (24.7%) from August's average of \$159.66 per tonne.

Daily indices price table

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-IRO-0009	Iron ore 65% Fe Brazil-origin fines, cfr Qingdao, \$/tonne	13 Oct 2021	148.4	-2.56%	Sep 2021	142.83
MB-IRO-0144	Iron ore 62% Fe low-alumina fines, cfr Qingdao, \$/tonne	13 Oct 2021	125.09	-3.90%	Sep 2021	121.26
MB-IRO-0008	Iron ore 62% Fe fines, cfr Qingdao, \$/tonne	13 Oct 2021	124.17	-3.74%	Sep 2021	120.16
MB-IRO-0017	Iron ore 58% Fe fines high-grade premium index, cfr Qingdao, \$/tonne	13 Oct 2021	93.04	-5.55%	Sep 2021	91.83
MB-IRO-0016	Iron ore 58% Fe fines high-grade premium, cfr Qingdao, \$/tonne	13 Oct 2021	13	-13.33%	Sep 2021	9.32
MB-IRO-0015	Iron ore 58% Fe fines, cfr Qingdao, \$/tonne	13 Oct 2021	80.04	-4.16%	Sep 2021	82.51
MB-IRO-0010	Iron ore 63% Fe Australia-origin lump ore premium, cfr Qingdao, US cents/dmtu	13 Oct 2021	22	-4.35%	Sep 2021	5.98
MB-IRO-0022	Iron ore 62% Fe fines, fot Qingdao, \$/tonne conversion	13 Oct 2021	129.81	-1.86%	Sep 2021	130.91
MB-IRO-0011	Iron ore 62% Fe fines, fot Qingdao, yuan/wet tonne	13 Oct 2021	904	-1.74%	Sep 2021	912.41
MB-IRO-0076	Iron ore product differential - 62% Fe Pilbara Blend Fines, cfr Qingdao, \$/tonne	13 Oct 2021	(1.3)		Sep 2021	(0.48)
MB-IRO-0114	Iron ore 62% Fe Pilbara blend fines, cfr Qingdao, \$/tonne	13 Oct 2021	122.87	-3.78%	Sep 2021	119.67

Weekly and monthly indices

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-IRO-0012	Iron ore 65% Fe blast furnace pellet, cfr Qingdao, \$/tonne	08 Oct 2021	182.76	1.52%	Sep 2021	181.85
MB-IRO-0013	Iron ore 66% Fe concentrate, cfr Qingdao, \$/tonne	08 Oct 2021	138.51	1.44%	Sep 2021	144.12
MB-IRO-0077	Iron ore DR-grade pellet premium to 65% Fe fines index, Middle East reference, \$/tonne	30 Sep 2021	70	0.00%	Sep 2021	70
MB-IRO-0177	Iron ore pellet premium over 65% Fe fines, cfr China, \$/tonne	08 Oct 2021	41.9	1.70%	Sep 2021	34.48

**Weekly value-in-use indices**

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-IRO-0021	Iron ore 62% Fe fines, % Al ₂ O ₃ VIU, cfr Qingdao, \$/tonne	11 Oct 2021	(6.37)		Sep 2021	(6.15)
MB-IRO-0018	Iron ore 62% Fe fines, % Fe VIU, cfr Qingdao, \$/tonne	11 Oct 2021	2.57	4.90%	Sep 2021	2.27
MB-IRO-0020	Iron ore 62% Fe fines, % Si VIU, cfr Qingdao, \$/tonne	11 Oct 2021	(5.24)		Sep 2021	(5.31)
MB-IRO-0024	Iron ore 62% Fe fines, 0.01% P VIU, cfr Qingdao, \$/tonne	11 Oct 2021	(0.84)		Sep 2021	(0.69)
MB-IRO-0019	Iron ore 65% Fe fines, % Fe VIU, cfr Qingdao \$/tonne	11 Oct 2021	2.68	-1.11%	Sep 2021	2.76

Manganese ore & alloys

Source: dashboard.fastmarkets.com/m/d73a1ad8-bcee-4a7e-911a-5c69669337c7

Weekly ore indices

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-MNO-0002	Manganese ore 37% Mn, fob Port Elizabeth, \$/dmtu	08 Oct 2021	2.91	-0.68%	Sep 2021	2.89
MB-MNO-0001	Manganese ore 44% Mn, cif Tianjin, \$/dmtu	08 Oct 2021	5.35	-0.74%	Sep 2021	5.2
MB-MNO-0003	Manganese ore index 37% Mn, cif Tianjin, \$/dmtu	08 Oct 2021	4.59	0.00%	Sep 2021	4.52
MB-MNO-0004	Manganese ore port index, base 37% Mn, range 35-39%, fot Tianjin China, yuan/dmtu	08 Oct 2021	34.6	0.00%	Sep 2021	34.3
MB-MNO-0005	Manganese ore port index, base 44% Mn, range 42-48%, fot Tianjin China, yuan/dmtu	08 Oct 2021	41.4	0.24%	Sep 2021	40.08

Silico-manganese prices

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-SIM-0001	Silico-manganese 65% Mn min, max 17% Si, in-whs China, yuan/tonne	08 Oct 2021	12000 - 12500	16.67%	Sep 2021	8875 - 9300
MB-SIM-0004	Silico-manganese 65% Mn min, min 16% Si, fob India, \$/tonne	08 Oct 2021	1900 - 2000	27.87%	Sep 2021	1410 - 1440
MB-SIM-0002	Silico-manganese lumpy 65-75% Mn, basis 15-19% Si (scale pro rata), major European destinations €/tonne	08 Oct 2021	1900 - 2000	20.00%	Sep 2021	1585 - 1635
MB-SIM-0005	Silico-manganese 65% Mn min, min 16% Si, in-whs Pittsburgh, \$/lb	07 Oct 2021	1.18 - 1.2	0.00%	Sep 2021	
MB-SIM-0003	Silico-manganese 65% Mn min, min 16% Si, in-whs Pittsburgh, US cents/lb	07 Oct 2021	118 - 120	0.00%	Sep 2021	112 - 118.4

Ferro-manganese prices

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-FEM-0007	Ferro-manganese 65% Mn min, max 7% C, in-whs China, yuan/tonne	08 Oct 2021	11500 - 12000	2.17%	Sep 2021	8875 - 9275
MB-FEM-0006	Ferro-manganese basis 78% Mn max, standard 7.5% C, delivered Europe, €/tonne	08 Oct 2021	1800 - 2000	12.59%	Sep 2021	1575 - 1675
MB-FEM-0002	Ferro-manganese low carbon 80% Mn, max 0.80% C, in-whs Pittsburgh, US cents/lb	07 Oct 2021	235 - 240	0.00%	Sep 2021	219.8 - 228
MB-FEM-0004	Ferro-manganese medium carbon 80% Mn, max 1.50% C, in-whs Pittsburgh, \$/lb	07 Oct 2021	1.95 - 2	0.00%	Sep 2021	
MB-FEM-0003	Ferro-manganese medium carbon 80% Mn, max 1.50% C, in-whs Pittsburgh, US cents/lb	07 Oct 2021	195 - 200	0.00%	Sep 2021	194 - 199
MB-FEM-0001	Ferro-manganese high carbon 78% Mn, standard 7.5% C, in-whs Pittsburgh, \$/long ton	07 Oct 2021	2500 - 2550	2.02%	Sep 2021	2450 - 2500

SPB

Source: dashboard.fastmarkets.com/m/74fba24b-937e-4451-9960-041bac5bbfa3

Pittsburgh

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-STE-0303	Steel scrap No1 heavy melt, consumer buying price, delivered mill Pittsburgh, \$/gross ton	08 Oct 2021	420	2.44%	Sep 2021	410
MB-STE-0304	Steel scrap No1 bundles, consumer buying price, delivered mill Pittsburgh, \$/gross ton	08 Oct 2021	571	0.00%	Sep 2021	571
MB-STE-0305	Steel scrap No2 bundles, consumer buying price, delivered mill Pittsburgh, \$/gross ton	08 Oct 2021	329	3.13%	Sep 2021	319
MB-STE-0306	Steel scrap No1 busheling, consumer buying price, delivered mill Pittsburgh, \$/gross ton	08 Oct 2021	590	0.00%	Sep 2021	590
MB-STE-0308	Steel scrap shredded auto scrap, consumer buying price, delivered mill Pittsburgh, \$/gross ton	08 Oct 2021	470	2.17%	Sep 2021	460
MB-STE-0309	Steel scrap machine shop turnings, consumer buying price, delivered mill Pittsburgh, \$/gross ton	08 Oct 2021	335	0.00%	Sep 2021	335
MB-STE-0310	Steel scrap cast iron borings, consumer buying price, delivered mill Pittsburgh, \$/gross ton	08 Oct 2021	290	0.00%	Sep 2021	290
MB-STE-0312	Steel scrap cut structural/plate 5ft max, consumer buying price, delivered mill Pittsburgh, \$/gross ton	08 Oct 2021	455	2.25%	Sep 2021	445
MB-STE-0598	Steel scrap punchings and plate, consumer buying price, delivered mill Pittsburgh, \$/gross ton	08 Oct 2021	792	0.00%	Sep 2021	792

Chicago

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-STE-0228	Steel scrap No1 heavy melt, consumer buying price, delivered mill Chicago, \$/gross ton	07 Oct 2021	430	0.00%	Sep 2021	430
MB-STE-0229	Steel scrap No2 heavy melt, consumer buying price, delivered mill Chicago, \$/gross ton	07 Oct 2021	415	0.00%	Sep 2021	415
MB-STE-0230	Steel scrap No1 bundles, consumer buying price, delivered mill Chicago, \$/gross ton	07 Oct 2021	565	-3.42%	Sep 2021	585
MB-STE-0231	Steel scrap No2 bundles, consumer buying price, delivered mill Chicago, \$/gross ton	07 Oct 2021	315	0.00%	Sep 2021	315
MB-STE-0232	Steel scrap No1 busheling, consumer buying price, delivered mill Chicago, \$/gross ton	07 Oct 2021	560	-3.45%	Sep 2021	580
MB-STE-0233	Steel scrap shredded auto scrap, consumer buying price, delivered mill Chicago, \$/gross ton	07 Oct 2021	480	2.13%	Sep 2021	470
MB-STE-0234	Steel scrap machine shop turnings, consumer buying price, delivered mill Chicago, \$/gross ton	07 Oct 2021	290	0.00%	Sep 2021	290
MB-STE-0235	Steel scrap cast iron borings, consumer buying price, delivered mill Chicago, \$/gross ton	07 Oct 2021	320	0.00%	Sep 2021	320
MB-STE-0236	Steel scrap cut structural/plate 2ft max, consumer buying price, delivered mill Chicago, \$/gross ton	07 Oct 2021	584	0.00%	Sep 2021	584
MB-STE-0237	Steel scrap cut structural/plate 5ft max, consumer buying price, delivered mill Chicago, \$/gross ton	07 Oct 2021	465	0.00%	Sep 2021	465
MB-STE-0577	Steel scrap low-residual, black foundry busheling, consumer buying price, delivered mill Chicago, \$/gross ton	08 Oct 2021	722	-2.70%	Sep 2021	742

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-STE-0578	Steel scrap low-residual, ductile-quality shredded clips, consumer buying price, delivered mill Chicago, \$/gross ton	08 Oct 2021	722	-2.70%	Sep 2021	742
MB-STE-0579	Steel scrap low-alloy punchings, consumer buying price, delivered mill Chicago, \$/gross ton	08 Oct 2021	742	-2.62%	Sep 2021	762
MB-STE-0239	Steel scrap cupola cast, consumer buying price, delivered mill Chicago, \$/gross ton	07 Oct 2021	559	0.00%	Sep 2021	559
MB-STE-0240	Steel scrap clean auto cast, consumer buying price, delivered mill Chicago, \$/gross ton	07 Oct 2021	622	0.00%	Sep 2021	622
MB-STE-0243	Steel scrap drop broken machinery cast, consumer buying price, delivered mill Chicago, \$/gross ton	07 Oct 2021	537	0.00%	Sep 2021	537
MB-STE-0246	Steel scrap steel car wheels, consumer buying price, delivered mill Chicago, \$/gross ton	07 Oct 2021	495	0.00%	Sep 2021	495
MB-STE-0244	Steel scrap rail crops 2ft max, consumer buying price, delivered mill Chicago, \$/gross ton	07 Oct 2021	553	0.00%	Sep 2021	553

Philadelphia

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-STE-0285	Steel scrap No1 heavy melt, consumer buying price, delivered mill Philadelphia, \$/gross ton	08 Oct 2021	400	0.00%	Sep 2021	400
MB-STE-0286	Steel scrap No1 bundles, consumer buying price, delivered mill Philadelphia, \$/gross ton	08 Oct 2021	530	0.00%	Sep 2021	530
MB-STE-0287	Steel scrap No2 bundles, consumer buying price, delivered mill Philadelphia, \$/gross ton	08 Oct 2021	335	0.00%	Sep 2021	335
MB-STE-0288	Steel scrap No1 busheling, consumer buying price, delivered mill Philadelphia, \$/gross ton	08 Oct 2021	530	0.00%	Sep 2021	530
MB-STE-0289	Steel scrap shredded auto scrap, consumer buying price, delivered mill Philadelphia, \$/gross ton	08 Oct 2021	450	0.00%	Sep 2021	450
MB-STE-0290	Steel scrap machine shop turnings, consumer buying price, delivered mill Philadelphia, \$/gross ton	08 Oct 2021	315	0.00%	Sep 2021	315
MB-STE-0291	Steel scrap cut structural/plate 2ft max, consumer buying price, delivered mill Philadelphia, \$/gross ton	08 Oct 2021	525	0.00%	Sep 2021	525
MB-STE-0292	Steel scrap cut structural/plate 3ft max, consumer buying price, delivered mill Philadelphia, \$/gross ton	08 Oct 2021	420	0.00%	Sep 2021	420
MB-STE-0293	Steel scrap cut structural/plate 5ft max, consumer buying price, delivered mill Philadelphia, \$/gross ton	08 Oct 2021	410	0.00%	Sep 2021	410

St Louis

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-STE-0621	Steel scrap No1 heavy melting, broker buying price, fob St Louis, \$/gross ton	08 Oct 2021	385	0.00%	Sep 2021	385
MB-STE-0622	Steel scrap No2 heavy melting, broker buying price, fob St Louis, \$/gross ton	08 Oct 2021	375	0.00%	Sep 2021	375
MB-STE-0623	Steel scrap No1 busheling, broker buying price, fob St Louis, \$/gross ton	08 Oct 2021	545	-3.54%	Sep 2021	565
MB-STE-0624	Steel scrap No1 dealer bundles, broker buying price, fob St Louis, \$/gross ton	08 Oct 2021	540	-3.57%	Sep 2021	560
MB-STE-0626	Steel scrap shredded scrap, broker buying price, fob St Louis, \$/gross ton	08 Oct 2021	410	0.00%	Sep 2021	410
MB-STE-0627	Steel scrap machine shop turnings, broker buying price, fob St Louis, \$/gross ton	08 Oct 2021	230	0.00%	Sep 2021	230
MB-STE-0631	Steel scrap plate and structurals 5ft and under, broker buying price, fob St Louis, \$/gross ton	08 Oct 2021	400	0.00%	Sep 2021	400

Detroit

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-STE-0633	Steel scrap No1 heavy melting, broker buying price, fob Detroit, \$/gross ton	08 Oct 2021	270	0.00%	Sep 2021	270
MB-STE-0634	Steel scrap No1 dealer bundles, broker buying price, fob Detroit, \$/gross ton	08 Oct 2021	370	-5.13%	Sep 2021	390
MB-STE-0635	Steel scrap No1 busheling, broker buying price, fob Detroit, \$/gross ton	08 Oct 2021	418	-4.57%	Sep 2021	438
MB-STE-0636	Steel scrap shredded scrap, broker buying price, fob Detroit, \$/gross ton	08 Oct 2021	318	0.00%	Sep 2021	318
MB-STE-0637	Steel scrap plate and structurals 5ft and under, broker buying price, fob Detroit, \$/gross ton	08 Oct 2021	296	0.00%	Sep 2021	296
MB-STE-0638	Steel scrap machine shop turnings, broker buying price, fob Detroit, \$/gross ton	08 Oct 2021	45	0.00%	Sep 2021	45
MB-STE-0640	Steel scrap cast iron borings, broker buying price, fob Detroit, \$/gross ton	08 Oct 2021	75	0.00%	Sep 2021	75

Cleveland

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-STE-0255	Steel scrap No1 heavy melt, consumer buying price, delivered mill Cleveland, \$/gross ton	08 Oct 2021	425	0.00%	Sep 2021	425
MB-STE-0256	Steel scrap No1 bundles, consumer buying price, delivered mill Cleveland, \$/gross ton	08 Oct 2021	620	0.00%	Sep 2021	620
MB-STE-0257	Steel scrap No1 busheling, consumer buying price, delivered mill Cleveland, \$/gross ton	08 Oct 2021	620	0.00%	Sep 2021	620
MB-STE-0258	Steel scrap shredded auto scrap, consumer buying price, delivered mill Cleveland, \$/gross ton	08 Oct 2021	460	0.00%	Sep 2021	460
MB-STE-0259	Steel scrap machine shop turnings, consumer buying price, delivered mill Cleveland, \$/gross ton	08 Oct 2021	245	0.00%	Sep 2021	245
MB-STE-0260	Steel scrap cut structural/plate 5ft max, consumer buying price, delivered mill Cleveland, \$/gross ton	08 Oct 2021	440	0.00%	Sep 2021	440
MB-STE-0653	Steel scrap punchings and plate, broker buying price, fob Cleveland, \$/gross ton	08 Oct 2021	740	0.00%	Sep 2021	740

Cincinnati

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-STE-0249	Steel scrap No1 heavy melt, consumer buying price, delivered mill Cincinnati, \$/gross ton	07 Oct 2021	410	0.00%	Sep 2021	410
MB-STE-0250	Steel scrap No1 bundles, consumer buying price, delivered mill Cincinnati, \$/gross ton	07 Oct 2021	555	-1.77%	Sep 2021	565
MB-STE-0251	Steel scrap No1 busheling, consumer buying price, delivered mill Cincinnati, \$/gross ton	07 Oct 2021	555	-1.77%	Sep 2021	565
MB-STE-0252	Steel scrap shredded auto scrap, consumer buying price, delivered mill Cincinnati, \$/gross ton	07 Oct 2021	430	0.00%	Sep 2021	430
MB-STE-0253	Steel scrap machine shop turnings, consumer buying price, delivered mill Cincinnati, \$/gross ton	07 Oct 2021	247	0.00%	Sep 2021	247
MB-STE-0254	Steel scrap cut structural/plate 5ft max, consumer buying price, delivered mill Cincinnati, \$/gross ton	07 Oct 2021	435	0.00%	Sep 2021	435

Birmingham

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-STE-0698	Steel scrap No1 heavy melting, broker buying price, fob Birmingham, \$/gross ton	08 Oct 2021	273	0.00%	Sep 2021	273

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-STE-0699	Steel scrap No2 heavy melting, broker buying price, fob Birmingham, \$/gross ton	08 Oct 2021	263	0.00%	Sep 2021	263
MB-STE-0700	Steel scrap No1 dealer bundles, broker buying price, fob Birmingham, \$/gross ton	08 Oct 2021	485	-3.96%	Sep 2021	505
MB-STE-0702	Steel scrap No1 busheling, broker buying price, fob Birmingham \$/gross ton	08 Oct 2021	455	-4.21%	Sep 2021	475
MB-STE-0703	Steel scrap shredded scrap, broker buying price, fob Birmingham \$/gross ton	08 Oct 2021	430	0.00%	Sep 2021	430
MB-STE-0704	Steel scrap machine shop turnings, broker buying price, fob Birmingham \$/gross ton	08 Oct 2021	230	0.00%	Sep 2021	230
MB-STE-0710	Steel scrap plate and structurals 5ft and under, broker buying price, fob Birmingham \$/gross ton	08 Oct 2021	345	0.00%	Sep 2021	345

South Carolina

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-STE-0322	Steel scrap No1 heavy melt, consumer buying price, delivered mill South Carolina, \$/gross ton	08 Oct 2021	420	0.00%	Sep 2021	420
MB-STE-0323	Steel scrap No1 busheling, consumer buying price, delivered mill South Carolina, \$/gross ton	08 Oct 2021	530	-1.85%	Sep 2021	540
MB-STE-0324	Steel scrap shredded auto scrap, consumer buying price, delivered mill South Carolina, \$/gross ton	08 Oct 2021	440	0.00%	Sep 2021	440
MB-STE-0325	Steel scrap machine shop turnings, consumer buying price, delivered mill South Carolina, \$/gross ton	08 Oct 2021	335	0.00%	Sep 2021	335
MB-STE-0326	Steel scrap cut structural/plate 5ft max, consumer buying price, delivered mill South Carolina, \$/gross ton	08 Oct 2021	430	0.00%	Sep 2021	430

New York

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-STE-0379	Steel scrap No1 heavy melt, export yard buying price, delivered to yard New York, \$/gross ton	11 Oct 2021	335	0.00%	Sep 2021	337.5
MB-STE-0380	Steel scrap No2 bundles, export yard buying price, delivered to yard New York, \$/gross ton	11 Oct 2021	285	0.00%	Sep 2021	287.5
MB-STE-0381	Steel scrap machine shop turnings, export yard buying price, delivered to yard New York, \$/gross ton	11 Oct 2021	230	0.00%	Sep 2021	232.5
MB-STE-0382	Steel scrap mixed cast, export yard buying price, delivered to yard New York, \$/gross ton	11 Oct 2021	330	0.00%	Sep 2021	332.5
MB-STE-0383	Steel scrap unstripped motor blocks, export yard buying price, delivered to yard New York, \$/gross ton	11 Oct 2021	350	0.00%	Sep 2021	352.5
MB-STE-0384	Steel scrap auto bodies, export yard buying price, delivered to yard New York, \$/gross ton	11 Oct 2021	315	0.00%	Sep 2021	317.5
MB-STE-0385	Steel scrap cut structural/plate 5ft max, export yard buying price, delivered to yard New York, \$/gross ton	11 Oct 2021	345	0.00%	Sep 2021	347.5

Boston

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-STE-0366	Steel scrap No1 heavy melt, export yard buying price, delivered to yard Boston, \$/gross ton	11 Oct 2021	330	0.00%	Sep 2021	332.5
MB-STE-0369	Steel scrap unstripped motor blocks, export yard buying price, delivered to yard Boston, \$/gross ton	11 Oct 2021	330	0.00%	Sep 2021	332.5

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-STE-0370	Steel scrap auto bodies, export yard buying price, delivered to yard Boston, \$/gross ton	11 Oct 2021	225	0.00%	Sep 2021	230
MB-STE-0371	Steel scrap cut structural/plate 5ft max, export yard buying price, delivered to yard Boston, \$/gross ton	11 Oct 2021	340	0.00%	Sep 2021	342.5

Los Angeles

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-STE-0372	Steel scrap No1 heavy melt, export yard buying price, delivered to yard Los Angeles, \$/gross ton	11 Oct 2021	255	0.00%	Sep 2021	265
MB-STE-0373	Steel scrap No2 bundles, export yard buying price, delivered to yard Los Angeles, \$/gross ton	11 Oct 2021	155	0.00%	Sep 2021	165
MB-STE-0374	Steel scrap No1 busheling, export yard buying price, delivered to yard Los Angeles, \$/gross ton	11 Oct 2021	265	0.00%	Sep 2021	275
MB-STE-0375	Steel scrap machine shop turnings, export yard buying price, delivered to yard Los Angeles, \$/gross ton	11 Oct 2021	55	0.00%	Sep 2021	60
MB-STE-0378	Steel scrap cut structural/plate 5ft max, export yard buying price, delivered to yard Los Angeles, \$/gross ton	11 Oct 2021	265	0.00%	Sep 2021	275

Seattle-Portland

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-STE-0409	Steel scrap No1 heavy melt, consumer buying price trend, delivered mill Seattle/Portland, \$/gross ton	07 Oct 2021	6		Sep 2021	(22)
MB-STE-0411	Steel scrap machine shop turnings, consumer buying price trend, delivered mill Seattle/Portland, \$/gross ton	07 Oct 2021	6		Sep 2021	(22)
MB-STE-0410	Steel scrap shredded auto scrap, consumer buying price trend, delivered mill Seattle/Portland, \$/gross ton	07 Oct 2021	6		Sep 2021	(21)
MB-STE-0412	Steel scrap cut structural/plate 5ft max, consumer buying price trend, delivered mill Seattle/Portland, \$/gross ton	07 Oct 2021	6		Sep 2021	(22)

Hamilton, Ontario

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-STE-0772	Steel scrap No1 heavy melting, broker buying price, fob Hamilton, Canadian \$/net ton	08 Oct 2021	294	0.00%	Sep 2021	294
MB-STE-0773	Steel scrap No1 dealer bundles, broker buying price, fob Hamilton, Canadian \$/ net ton	08 Oct 2021	576	-1.71%	Sep 2021	586
MB-STE-0774	Steel scrap No1 busheling, broker buying price, fob Hamilton, Canadian \$/net ton	08 Oct 2021	471	-2.08%	Sep 2021	481
MB-STE-0776	Steel scrap shredded scrap, broker buying price, fob Hamilton, Canadian \$/ net ton	08 Oct 2021	255	6.25%	Sep 2021	240
MB-STE-0777	Steel scrap machine shop turnings, broker buying price, fob Hamilton, Canadian \$/ net ton	08 Oct 2021	186	0.00%	Sep 2021	186

Houston

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-STE-0765	Steel scrap No1 heavy melting, broker buying price, fob Houston \$/gross ton	08 Oct 2021	255	0.00%	Sep 2021	255
MB-STE-0766	Steel scrap No2 heavy melting, broker buying price, fob Houston \$/gross ton	08 Oct 2021	245	0.00%	Sep 2021	245

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-STE-0767	Steel scrap No1 busheling, broker buying price, fob Houston \$/gross ton	08 Oct 2021	410	-4.65%	Sep 2021	430
MB-STE-0768	Steel scrap shredded scrap, broker buying price, fob Houston \$/gross ton	08 Oct 2021	275	0.00%	Sep 2021	275
MB-STE-0769	Steel scrap machine shop turnings, broker buying price, fob Houston \$/gross ton	08 Oct 2021	175	0.00%	Sep 2021	175
MB-STE-0770	Steel scrap plate and structurals 5ft and under, broker buying price, fob Houston \$/gross ton	08 Oct 2021	280	0.00%	Sep 2021	280

Weekly composite prices

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-STE-0531	Steel scrap No1 heavy melt, consumer buying price, delivered mill, \$/gross ton, weekly composite	08 Oct 2021	414	0.16%	Sep 2021	
MB-STE-0526	Steel scrap No1 busheling, consumer buying price, delivered mill Pittsburgh, \$/gross ton, weekly composite	08 Oct 2021	590	0.00%	Sep 2021	
MB-STE-0523	Steel scrap shredded auto scrap, consumer buying price, delivered mill, \$/gross ton, weekly composite	08 Oct 2021	463.5	0.32%	Sep 2021	

Pittsburgh stainless steel scrap

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-STSS-0046	Stainless steel scrap 304 solids, clips, broker buying price, delivered to processor Pittsburgh, \$/gross ton	12 Oct 2021	1926 - 1994	4.81%	Sep 2021	1937.5 - 2038.25
MB-STSS-0047	Stainless steel scrap 304 turnings, broker buying price, delivered to processor Pittsburgh, \$/gross ton	12 Oct 2021	1814 - 1882	5.78%	Sep 2021	1803 - 1920.75
MB-STSS-0133	Stainless steel scrap 304 solids, clips, consumer buying price, delivered mill Pittsburgh, \$/gross ton	08 Oct 2021	1949 - 1994	6.05%	Sep 2021	1814 - 1904
MB-STSS-0134	Stainless steel scrap 304 turnings, consumer buying price, delivered mill Pittsburgh, \$/gross ton	08 Oct 2021	1747 - 1792	2.25%	Sep 2021	1669 - 1792

Chicago stainless steel scrap

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-STSS-0067	Stainless steel scrap 304 solids, clips, broker buying price, delivered to processor Chicago, \$/gross ton	12 Oct 2021	1971 - 1994	4.73%	Sep 2021	1960 - 2038.25
MB-STSS-0068	Stainless steel scrap 304 turnings, broker buying price, delivered to processor Chicago, \$/gross ton	12 Oct 2021	1859 - 1882	5.03%	Sep 2021	1864.75 - 1920.75
MB-STSS-0069	Stainless steel scrap 430 bundles, solids, broker buying price, delivered to processor Chicago, \$/gross ton	12 Oct 2021	762 - 806	0.00%	Sep 2021	745 - 806

Detroit stainless steel scrap

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-STSS-0087	Stainless steel scrap 304 solids, clips, broker buying price, delivered to processor Detroit, \$/gross ton	12 Oct 2021	1926 - 1994	3.54%	Sep 2021	1960 - 2038.25
MB-STSS-0088	Stainless steel scrap 304 turnings, broker buying price, delivered to processor Detroit, \$/gross ton	12 Oct 2021	1814 - 1882	3.13%	Sep 2021	1842.25 - 1920.75
MB-STSS-0048	Stainless steel scrap 430 bundles, solids, broker buying price, delivered to processor Pittsburgh, \$/gross ton	12 Oct 2021	784 - 806	10.88%	Sep 2021	683.5 - 806

**Cleveland stainless steel scrap**

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-ST5-0196	Stainless steel scrap 304 solids, clips, dealer buying price, delivered to yard Cleveland, \$/gross	05 Oct 2021	1120 - 1456	0.00%	Sep 2021	1120 - 1456
MB-ST5-0197	Stainless steel scrap 304 turnings, dealer buying price, delivered to yard Cleveland, \$/gross	05 Oct 2021	896 - 1299	0.00%	Sep 2021	896 - 1299

New York stainless steel scrap

Symbol	Description	Date	Price	+/-	Month	Monthly Average
MB-ST5-0115	Stainless steel scrap 304 solids, clips, export yard buying price, delivered to yard New York, \$/gross ton	12 Oct 2021	2061 - 2139	3.02%	Sep 2021	2074.75 - 2100
MB-ST5-0116	Stainless steel scrap 304 turnings, export yard buying price, delivered to yard New York, \$/gross ton	12 Oct 2021	1299 - 1322	0.00%	Sep 2021	1299 - 1322
MB-ST5-0117	Stainless steel scrap 430 bundles, solids, export yard buying price, delivered to yard New York, \$/gross ton	12 Oct 2021	470 - 493	0.00%	Sep 2021	470 - 493