

# Non-ferrous Metals



Methodology and price  
specifications – January 2026

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## Mission statement

Fastmarkets Metals, Minerals And Mining is the leading global provider of pricing intelligence for the non-ferrous metal, steel, steelmaking raw materials, industrial minerals, ferrous and non-ferrous scrap markets, producing price assessments via Fastmarkets MB and Fastmarkets AMM since 1913 and 1882 respectively.

Fastmarkets Forest Products is the leading global provider of pricing intelligence for the global forest products industry, incorporating Fastmarkets RISI, Fastmarkets FOEX and Random Lengths.

And Fastmarkets Agriculture Products has delivered pricing transparency to opaque agriculture and energy markets in the form of market-moving reporting and commentary, trusted pricing and price forecasting since 1865.

Our mission is to meet our markets' data requirements honestly and independently, acting with integrity and care to ensure that the trust and confidence placed in the reliability of our pricing methodologies is maintained. We do not have a vested interest in the markets on which we report.

## Introduction

Fastmarkets' reporters are required to abide by a **code of conduct** and clear pricing procedures during their market reporting and pricing activities. Fastmarkets is completely independent and has no vested commercial interest in any of the markets it prices.

We are the world's largest dedicated price-reporting team for metals and minerals, agricultural products and forest products. We have hubs in London, New York, Boston, San Francisco, Eugene, Charlottesville, Atlanta, Pittsburgh, Memphis, Sao Paulo, Beijing, Shanghai, Hong Kong, Singapore, Malaysia, Melbourne, Mumbai, Istanbul, Brussels and Helsinki.

The aim of this document is to provide a clear overview of Fastmarkets' methodology and specifications for the prices it assesses. If you have any questions, please use the contacts portion of this guide to reach out to us directly.

# Price discovery and methodology

## Methodology rationale

Fastmarkets produces independent, fair and representative price assessments and indices of metals and forest products prices on a daily, bi-weekly, weekly, monthly or quarterly basis. Fastmarkets' rationale for adopting the price-discovery process described in this methodology document is to produce consistent and representative indicators of value for specific markets over defined trading periods.

## Assessment objective

The assessor's intended aim is to reflect Fastmarkets' assessment price definition:

'The prevailing level at which a commodity of stated specification has, or could be expected to have transacted over a defined period of time.'

We summarize this for effective use as the prevailing 'tradeable level' of the market.

## Time window

The time period, or window, identified to assess a market (e.g., daily, bi-weekly, weekly, fortnightly, monthly) is determined by Fastmarkets after considering the number of data points that Fastmarkets can reasonably expect to collect on a consistent basis over the selected period to support the price assessment process.

Unless otherwise specified, the assessed timeframe will be the period since the conclusion of the previous price quotation. If, for instance, the last price assessment published by Fastmarkets was on Friday 2-3pm London time and our next assessment is due on the following Friday at 2-3pm London time, we will accept price data for business conducted and reported to Fastmarkets between Friday afternoon of the last price assessment and the following Friday afternoon. Where deemed appropriate for a particular market, Fastmarkets may specify a narrower window of time closer to the publication date where activity is given greater consideration in the price assessment, though this is stated in the specifications relating to those prices.

## Data contribution

Fastmarkets reporters aim to collect data from a broad sample of market participants specifically involved in the buying and selling of the metal or forest product of interest, with a good representation of both sides of the market, including producers and consumers, as well as

traders and intermediaries.

Data is collected from industry participants directly involved in the relevant market primarily by telephone but also by email, digital messaging, face-to-face interaction or by direct submission. All data supplied to Fastmarkets is kept confidential and stored in our secure online pricing database system MInD (Market Information Database). Fastmarkets may sign a Data Submitter Agreement (DSA) with any data provider, if requested to do so, to maximize the number of data points collected for inclusion in the assessment process. Any data received subject to a DSA will be used in the pricing assessment but will not be commented on.

Market participants may contribute data following a review by Fastmarkets of their activities. The aim is to ensure that submitters have sufficient visibility and understanding of the market in question to be able to provide reliable price data. We expect that data submitters taking part in the pricing process are authorized to report market data on behalf of their organizations. Fastmarkets encourages organizations to submit all their pricing data, especially all the concluded transactions. Price reporters generally speak to, and collect data from, front office staff directly involved in the commercial activity of buying and selling the relevant product(s). Fastmarkets also welcomes organizations to submit transaction data from authorized back-office functions. Fastmarkets' **Data Submitter Policy** provides guidelines to ensure the high level of data quality and integrity we expect from contributing organizations providing pricing data. The policy can be found on Fastmarkets' website, or is available on request.

Depending on market liquidity, Fastmarkets reserves the right to also base its prices on bids, offers, deals heard and market participant indications of prevailing tradeable values or other indications such as trigger prices that might prompt a sale or purchase.

## Price specifications and reference units

Fastmarkets has clear specifications for all the price points that it covers. All the reference units, such as currency and volume, are in line with the trading conventions used in the recognized metals, minerals and forest products markets.

Fastmarkets' specifications detail the material's characteristics or quality, location, incoterm, payment terms and the minimum volume accepted. These specifications are determined in consultation with market participants and follow industry convention. Reporters ensure that the information they receive meet these specifications. Any data that does not fall within the stated ranges of the specification will not be eligible for consideration in the assessment.

## Data analysis and producing the price assessment

### Establishing a data hierarchy

To produce the price assessment, a consideration hierarchy is established based on an evaluation of first, the reporter's confidence in the data's reliability, and second, the significance of the data.

The confidence level, or trustworthiness, of a data point is generally based on the transparency of the activity, whether it was reported by a party directly involved or was 'heard' activity, corroboration by other market participants and the level of detail provided by the data submitter, although there may be other contributory factors.

For indications of tradeable levels or other indication of willingness to sell or purchase, confidence may be determined based on the justification provided by the submitter, their visibility and activity level in the market, and their prior reliability. Factors that Fastmarkets may consider during times of low liquidity include, but are not limited to: market fundamentals such as changes in inventory levels, shipments, operating rates and export volumes; relative fundamentals of similar commodities in the same region; relative values of the same commodity in different regions; and changes in the value of the commodity's primary feedstock(s) or primary derived product(s).

The significance of a data point is determined based on its effectiveness in identifying the tradeable level of the market under assessment. Transactions are considered highest in the significance hierarchy, 'tight' bids/offers are of secondary importance, followed by data sources' own indications of a tradeable level when they have no business to report. Tight bids/offers are typically defined as those being within the range of transaction and/or indication data points, thereby helping narrow our assessment of the tradeable range. More speculative bids/offers, outside of the range of other data, would typically be of lowest significance. In some circumstances, firm bids higher than transactions or offers lower than transactions may be considered of high significance if deemed to demonstrate a clear directional change in market floor or ceiling levels.

The published assessment will typically be reflective of the highest-confidence and highest-significance data collected in that pricing session. In pricing sessions with little or no data of sufficient quality, extra caution will be applied and reporters may exercise their judgment to keep a price assessment unchanged as a fallback until activity can be confirmed with greater certainty.

All Fastmarkets price specifications define the minimum lot size accepted. When volume information is available, this is also taken into consideration in the assessment process. For instance, a deal with a bigger volume may typically be considered more significant than a smaller-volume transaction. But price reporters will also consider, for instance, normalizing or discarding a reported deal where it is suspected an abnormally large or small volume may have unduly distorted its price.

Fastmarkets will also compare the information received from a single source with the information provided by the same source in the previous pricing cycle. This way, if a source consistently gives lower or higher indications than the consensus, Fastmarkets can still use the data for directional context without it unduly influencing the assessment.

### Normalization

Where necessary in certain assessments, data that falls within the stated specification ranges for consideration may be normalized to determine the equivalent price for the respective base specification if one exists. This may include, for instance, variances in material type or quality, delivery terms of location, payment terms or cargo size.

Data may be normalized to the base specification using either a statistical or judgement based method. Where

patterns can be established over time, such as for price differences between product qualities, data may be normalized using in-house developed models based on regression analysis of collected data. The analysis allows Fastmarkets to capture the value-in-use applied by the market to different qualities or terms and to normalize to a single base specification. Where a statistically derived adjustment factor is not possible for a particular variable, editorial judgment may be applied to normalize prices using third party data (such as broker rates for freight adjustments or exchange prices for QP adjustments), or by surveying market participants for an appropriate adjustment.

Where prices cannot be normalized with sufficient confidence or precision, such data may be discarded from the assessment. Fastmarkets' aim is to balance the requirement to keep assessments reflective of their base specifications with the need to source a sufficiently robust data set for consideration.

#### **Minimum data threshold**

Since commodity markets differ in liquidity levels at different periods, the methodology does not set any minimum number, or threshold, of transactions to be gathered on which to base the assessment.

In each pricing session, reporters aim to source data from a suitably diverse set of market participants. In the unlikely situation that more than half of the pricing data collected in a session is provided by a single source, the assessor may refer to data collected in the previous pricing session to avoid a dependency on a single entity providing an unacceptably significant (50% or more) proportion of data. In markets where, to satisfy their jurisdictional antitrust guidelines, certain companies require us to adhere to a maximum of 25% data concentration from a single entity, Fastmarkets will comply with this stricter threshold.

#### **Criteria for discarding pricing data and the removal of outliers**

Fastmarkets price assessments are intended to reflect the 'open and competitive' market level. Reporters therefore may apply expert judgment to exclude data deemed unrepresentative, questionable or unreliable prior to consideration in the final assessment. Data that falls outside of the respective assessment specifications, or which cannot be normalized to a base specification with sufficient confidence, is also discarded. Decisions to discard data points are recorded in the form of a written rationale in our internal pricing database, where they are reviewed and approved under the two-tier peer review process.

Data may be discarded as outliers based on the identification of external factors that may be distorting the price. Price-affecting side terms, inconsistencies in information reported, or suspected motivation to unfairly influence the price discovery process would typically be grounds for removal of data, as would activity not considered to have taken place at 'arm's length'. Outliers will be investigated; more detail may be requested to determine possible reasons behind an anomalous price, and efforts will be made to identify the counterparty to cross-verify information. Suspected attempts to influence the assessment unfairly may result in the data provider being warned or excluded. Fastmarkets reserves the right to see contracts and signed paperwork before inclusion of the data in the assessment. If this is refused, the data supplied may be excluded from the assessment process.

Fastmarkets follows international sanctions regarding the suspension of brands from its price reporting process.

This means that if exchanges or jurisdictions decide to ban or restrict trade in a brand or with a particular country of origin without any international sanctions being imposed, Fastmarkets will continue to accept the material in the price reporting process.

## **Data publication**

#### **Peer review process**

All Fastmarkets' price assessments are set by a first reporter who covers that specific market, peer reviewed by a second reporter, and always signed-off by a senior reporter or editor prior to publication. This peer review process, which takes place in Fastmarkets' MInD system and is fully auditable, is in place to make sure that pricing procedures and methodologies are correctly and consistently applied and to ensure integrity and quality of the published prices. Relevant information, including all price inputs and editorial judgements, are securely retained in MInD for at least five years to maintain a full audit trail. Price reporters are formally trained in the price discovery process and must abide by a written Code of Conduct and Pricing Procedures.

For certain prices Fastmarkets also publishes pricing rationales to explain the assessment, describing why a particular price or range was determined based on the market information collected. These notes explain for instance whether any data has been excluded and why, information on the data collected and whether fallback procedures have been applied.

**Publication**

At the end of the peer review process, Fastmarkets MB and AMM publish their price assessments via MInD and on the Fastmarkets Dashboard and on product-specific websites and in the Price Book. Fastmarkets RISI, FOEX and Random Lengths publish their price assessments on the Intelligence Center, mobile app and in dedicated newsletters.

Most Fastmarkets assessments (aside from a small number of single-figure assessments) are quoted as ranges reflecting Fastmarkets' evaluation of the market's prevailing tradeable level over the observation window.

To enhance market transparency and to provide evidence of data inputs that support the price discovery process, Fastmarkets may publish trade logs in accordance with industry demand (while maintaining full counterparty confidentiality) detailing pricing data and volumes received from data contributors. Prices that have undergone an IOSCO assurance review will be published with a concise, written rationale on how the price was set.

Fastmarkets' price assessments are published at the time and frequency stated under each individual specification. The pricing schedules vary according to markets and locations in which they are assessed. For more details on the pricing holiday calendar and alternative pricing dates for each assessment or index, refer to **Fastmarkets' Pricing Holidays** schedule on Fastmarkets.com or on the RISI, FOEX and Random Lengths websites.

**Corrections and delays**

If an assessment is published incorrectly, it will be rectified and republished as soon as possible. A pricing notice explaining the reasons for the correction will also be published promptly.

Fastmarkets uses several procedures and measures to avoid delays in the publication of its assessments. In the event of a delay, however, Fastmarkets will inform subscribers as soon as possible.

In the event of late publication, only data that has been received within the correct standard timeframe will be included in the assessment. No assessment will be amended due to the emergence of new data or market activity after the initial publication. Retrospective changes to the published values will only be made in cases of technical, administrative or interpretation error in line with **Fastmarkets' Correction Policy**.

# Methodology and price specification review process

**Methodology review and pricing notices**

Fastmarkets aims to continually develop and periodically review its methodologies in consultation with industry participants, with the objective to adopt product specifications, trading terms and conditions that reflect and are representative of typical working practices in the industries it serves.

Fastmarkets carries out a formal review and approval of its methodology and price specifications on an annual basis. The process is initiated by Fastmarkets publishing on its website an open consultation at least one month (or around 20 working days) before the annual methodology review is due, inviting market feedback over the duration of that period. The timeframe for the consultation and method of submission are both clearly stated.

Following a review of market participants' feedback, comments and suggestions, Fastmarkets concludes the consultation by publishing a notice stating whether or not any methodology changes are proposed. If suggested, changes are classified either as 'material' or 'immaterial'. Material changes are those that, once implemented, may result in fundamental changes to the published price. These include specification changes or structural changes to assessments. Immortal changes are those that will not result in a different price level once they are implemented.

If a material change to the methodology is required, Fastmarkets includes in its pricing notice: the outline of the proposed change; the rationale or motivation for proposing such a change; and a proposed timetable for the date on which, if the change goes ahead, it would be implemented. If received feedback is considered insufficient to support a material change, Fastmarkets publishes a new notice extending the consultation and inviting comments on the new proposal.

A record of the methodology review is sent to the Risk & Compliance team. All comments received from the market are assumed to be confidential and are treated as such unless stated otherwise.

When Fastmarkets proposes a change to the methodology, it should be understood that no decision has yet been made and that the proposal to make a

change should not automatically be understood as confirmation that the change will happen.

For prices subject to EU Benchmark Regulation (BMR), any change to the methodology requires approval from the Managing Director of our benchmark administrator, Fastmarkets Benchmark Administration Oy.

Outside of the formal methodology review process, editors may from time to time suggest changes or additions to reflect market developments. As with the formal review, changes to the existing methodology will either be classed as 'material' or 'immaterial'. The process for implementing the change will be the same as outlined above for formal reviews. The minimum duration of one month (or around 20 working days) for the consultation process normally provides market participants sufficient opportunity to analyze and comment on the impact of the proposed change.

For more details on the formal review of the methodology and the consultation process to propose changes to the methodology, refer to Fastmarkets' **Methodology Review and Change Consultation Process** available on the Fastmarkets website.

## Queries and complaints

Fastmarkets encourages engagement from the market on its pricing principles and methodology. The company promotes understanding of its pricing procedures and is committed to responding to requests for further information and clarification on a timely basis.

There are multiple channels for interaction with the pricing team including email, telephone and instant messenger services.

If a subscriber has an issue with the published prices, then they may contact the pricing team. In the event that the response is not satisfactory the issue may be escalated to the internal compliance department. For more details refer to Fastmarkets' **Complaint Handling Policy** available on Fastmarkets' website.

Fastmarkets takes all queries and complaints seriously and will seek to provide an explanation of the prices wherever possible. It is important to note, however, that input data remain confidential and cannot be provided to third parties.

## Become a contributor to the price discovery process

Fastmarkets continually seeks to increase the number of market sources willing to take part in the price discovery process. The main condition Fastmarkets requires from contributors is for them to be active participants in the relevant market being priced.

Fastmarkets' Data Submitter Policy provides guidelines defining the high level of data quality and integrity that Fastmarkets expects from contributing organizations providing pricing data. Market participants that wish to provide pricing data and be part of the price discovery process should first read the Data Submitter Policy available on the Fastmarkets website. The Policy is communicated to all data submitters at least on an annual basis.

All data sources are subject to review before their data submitted is fully taken into account in the pricing process. Our Contributor Approval Policy (CAP) requires this review or probation period to last no more than three months. The aim is to make sure that submitters are trustworthy and have sufficient visibility and understanding of the market to be able to provide viable price data.

## Third-party price data

Fastmarkets also publishes prices from external sources including: Exchange prices – London Metal Exchange, Comex and the Shanghai Futures Exchange

For contract specifications and pricing information on these prices please refer to the individual company' website.

Fastmarkets does not redistribute exchange-proprietary prices as part of Fastmarkets prices. Users do not require an LME market-data licence to view or circulate this index.

# Base metals

## Alumina

### CHINA

<b>MB-ALU-0001</b>	<b>Alumina metallurgical grade, exw China, yuan/tonne</b>
Quality:	Metallurgical-grade alumina
Quantity:	Min 1,000 tonnes
Location:	Ex-works China
Unit:	RMB/tonne
Payment terms:	Cash, within one week
Publication:	Weekly. Thursday 2-3pm London time

### AUSTRALIA

<b>MB-ALU-0002</b>	<b>Alumina index, fob Australia, \$/tonne</b>
Quality:	Smelter-grade alumina, minimum purity of 98.5% Al2O3
Quantity:	5,000 tonnes
Location:	fob Bunbury/Kwinana, Australia (other Pacific origins normalized)
Timing:	Within 2 months
Unit:	US\$ per dry metric tonne (dmt)
Payment Terms:	30 days after loading
Publication:	Daily at 4pm London time
Notes:	Bulk carrier. Data history from August 2010. Full methodology available <a href="#">here</a> .

### BRAZIL

<b>MB-ALU-0003</b>	<b>Alumina index adjustment to fob Australia index, Brazil, \$/dmt</b>
Quality:	Smelter-grade alumina, minimum purity of 98.5% Al2O3
Quantity:	Min 5,000 tonnes
Location:	fob Vila do Conde, Brazil (other Pacific origins normalized)
Timing:	Within two months
Unit:	US\$ per dry metric tonne (dmt)
Payment terms:	30 days after loading
Publication:	Weekly. Thursday, 4pm London time
Notes	Bulk carrier. Full methodology available <a href="#">here</a> .

### **MB-ALU-0010**

#### **Alumina index inferred, fob Brazil, \$/dmt**

Quality:	Smelter grade alumina, minimum purity of 98.5% Al2O3
Quantity:	5,000 tonnes
Location:	fob Vila do Conde, Brazil (other ports normalized)
Timing:	Within 2 months
Unit:	USD/dry metric tonne
Payment terms:	30 days after loading
Publication:	Daily 4pm London time
Notes:	Bulk carrier. Full methodology available <a href="#">here</a> .

## Bauxite

Please see **Ores** section.

## Aluminium P1020A

### JAPAN

### **MB-AL-0001**

#### **Aluminium P1020A (MJP) quarterly premium, cif Japan, \$/tonne**

Quality:	P1020A or 99.7 % Minimum Al purity (Si 0.10% max, Fe 0.20% max). Ingot, T-bar, sow
Quantity:	500 tonnes
Location:	cif main Japanese ports (Yokohama, Nagoya and Osaka), premium on top of LME cash prices
Timing:	Within the quarter
Unit:	USD/tonne
Payment terms:	Cash against documents (2 days after Bill of lading date)
Publication:	Quarterly
Note:	Full methodology available <a href="#">here</a> .

**MB-AL-0343**

Quality:	<b>Aluminium P1020A (MJP) spot premium, cif Japan, \$/tonne</b>
P1020A or 99.7 % Minimum Al purity (Si 0.10% max, Fe 0.20% max) in line with LME specifications. Ingot, T-bar, sow	
Quantity:	Min 100 tonnes
Location:	cif in main Japanese ports at Yokohama, Nagoya and Osaka, premium on top of exchange-listed aluminium price
Timing:	Within two calendar months
Unit:	USD/tonne
Payment terms:	Cash against documents (2 days after Bill of lading date)
Publication:	Daily by 4pm London time
Notes:	Excluding metal from LME warehouses and metal subject to international sanctions. Assessed by Fastmarkets' Singapore office. Full methodology available <a href="#">here</a> .

**SOUTH KOREA**
**MB-AL-0344**

Quality:	<b>Aluminium P1020A premium, cif South Korea, \$/tonne</b>
P1020A or 99.7 % Minimum Al purity (Si 0.10% max, Fe 0.20% max). Ingot, T-bar, sow	
Quantity:	Min 100 tonnes
Location:	Cif in main South Korean ports (Gwangyang, Busan or Incheon), premium on top of LME cash prices
Timing:	Within 4 weeks
Unit:	USD/tonne
Payment terms:	Cash against documents (2 days after Bill of lading date)
Publication:	Weekly. Tuesday 3-4pm London time

**MB-AL-0307**

Quality:	<b>Aluminium P1020A premium, fca South Korea, \$/tonne</b>
P1020A or 99.7 % Minimum Al purity (Si 0.10% max, Fe 0.20% max). Ingot, T-bar, sow	
Quantity:	Min 100 tonnes
Location:	FCA South Korea (Gwangyang, Busan or Incheon), premium on top of LME cash prices
Timing:	Within 4 weeks
Unit:	USD/tonne
Payment terms:	Cash against documents (2 days after Bill of lading date)
Publication:	Weekly. Tuesday 3-4pm London time

**CHINA**
**MB-AL-0345**

Quality:	<b>Aluminium P1020A premium, cif Shanghai, \$/tonne</b>
P1020A or 99.7 % Minimum Al purity (Si 0.10% max, Fe 0.20% max). Ingot	
Quantity:	Min 100 tonnes
Location:	cif Shanghai, premium on top of LME cash prices
Unit:	USD/tonne
Timing:	Within 4 weeks
Payment terms:	Letter of Credit or Telegraphic Transfer, other payment terms normalized
Publication:	Fortnightly, Tuesday 3-4pm London time

**MB-AL-0328**

Quality:	<b>Aluminium P1020A premium, bonded in-whs, Shanghai, \$/tonne</b>
P1020A or 99.7 % Minimum Al purity (Si 0.10% max, Fe 0.20% max) Ingot	
Quantity:	100 tonnes
Location:	In-bonded warehouse in Shanghai, premium on top of LME cash prices
Unit:	USD/tonne
Timing:	Within 4 weeks
Form:	Ingot
Payment terms:	Letter of Credit or Telegraphic Transfer, other payment terms normalized
Publication:	Fortnightly, Tuesday 3-4pm London time

**TAIWAN**

<b>MB-AL-0329</b>	<b>Aluminium P1020A premium, cif Taiwan, \$/tonne</b>
Quality:	P1020A or 99.7 % Minimum Al purity (Si 0.10% max, Fe 0.20% max). Ingot
Quantity:	Min 100 tonnes
Location:	Cif main Taiwanese ports (Taipei, Kaohsiung or Keelung), premium on top of LME cash prices
Unit:	USD/tonne
Payment terms:	Letter of Credit or Telegraphic Transfer, other payment terms normalized
Publication:	Once every two weeks. Tuesday 3-4pm London time

**EUROPE**

<b>MB-AL-0346</b>	<b>Aluminium P1020A premium, in-whs dup Rotterdam, \$/tonne</b>
Quality:	P1020A or 99.7 % Minimum Al purity (Si 0.10% max, Fe 0.20% max). Ingot
Quantity:	Min 100 tonnes
Location:	In-warehouse Rotterdam duty-unpaid, premium on top of exchange-listed aluminium prices
Unit:	USD/tonne
Timing:	Within 4 weeks
Payment terms:	Cash against documents (7 days after bill of lading date); other terms normalized
Publication:	Daily 4pm London time
Note:	Full methodology available <a href="#">here</a> . Not inclusive of CBAM costs

**SOUTHEAST ASIA & EAST ASIA**

<b>MB-AL-0333</b>	<b>Aluminium P1020A warrant premium, in-whs Southeast Asia, \$/tonne</b>
Quality:	P1020A or 99.7 % Minimum Al purity (Si 0.10% max, Fe 0.20% max). Ingot, T-bar, sow
Quantity:	Min 25 tonnes
Location:	In any LME-approved warehouse in Singapore and in Malaysia (Johor, Port Klang), premium on top of LME cash prices
Timing:	Prompt release
Unit:	USD/tonne other terms normalized
Payment terms:	Cash against documents (7 days after bill of lading date);
Publication:	Fortnightly. Weds 3-4pm London time

<b>MB-AL-0004</b>	<b>Aluminium P1020A premium, in-whs dp Rotterdam, \$/tonne</b>
Quality:	P1020A or 99.7 % Minimum Al purity (Si 0.10% max, Fe 0.20% max). Ingot
Quantity:	Min 100 tonnes
Location:	In-warehouse Rotterdam duty-paid, premium on top of exchange-listed aluminium price
Unit:	USD/tonne
Timing:	Within 4 weeks
Payment terms:	Cash against documents (7 days after bill of lading date); other terms normalized
Publication:	Twice weekly. Tuesday and Friday 4pm London time
Note:	Full methodology available <a href="#">here</a> . Inclusive of CBAM certificate costs, effective January 1, 2026

<b>MB-AL-0334</b>	<b>Aluminium P1020A, warrant premium, in-whs East Asia, \$/tonne</b>
Quality:	P1020A or 99.7 % Minimum Al purity (Si 0.10% max, Fe 0.20% max). Ingot, T-bar, sow
Quantity:	Min 25 tonnes
Location:	In any LME-approved warehouse in Taiwan (Kaohsiung) and South Korea (Gwangyang, Busan or Incheon), premium on top of LME cash prices
Timing:	Prompt release
Unit:	USD/tonne
Payment terms:	Cash against documents (7 days after bill of lading date); other terms normalized
Publication:	Fortnightly. Weds 3-4pm London time

<b>MB-AI-0384</b>	<b>Aluminium P1020A Rotterdam premium P0610 netback rate</b>
Quality:	P0610 ingot
Location:	In-warehouse Rotterdam, netback to aluminium P1020A premium in-whs dup/dp Rotterdam
Unit:	USD/tonne
Publication:	Monthly, first working day of the month, 3-4pm London time
Note:	Published as a single number

<b>MB-AL-0386</b>	<b>Aluminium primary ingot premium, in-whs dp Rotterdam, inferred P0610 midpoint, \$/tonne</b>	<b>TURKEY</b>
<b>MB-AL-0385</b>	<b>Aluminium primary ingot premium, in-whs dup Rotterdam, inferred P0610 midpoint, \$/tonne</b>	<b>MB-AL-0337</b> <b>Aluminium P1020A premium, cif dup Turkey, \$/tonne</b>
Quality:	Quality:	P1020A or 99.7 % Minimum Al purity (Si 0.10% max, Fe 0.20% max). Ingot
Quantity:	Quantity:	Min 100 tonnes
Location:	Location:	CIF duty-unpaid Turkey (Marmara region), premium on top of LME cash prices
Timing:	Timing:	Within 4 weeks
Unit:	Unit:	USD/tonne
Payment terms:	Payment terms:	Cash against documents (7 days after bill of lading date); other terms normalized
Publication:	Publication:	Once every two weeks. Tuesday, 3-4pm London time
Note:		
<b>MB-AL-0316</b>	<b>Aluminium P1020A premium, fca dp Italy, \$/tonne</b>	<b>UNITED STATES</b>
Quality:	P1020A or 99.7 % Minimum Al purity (Si 0.10% max, Fe 0.20% max). Ingot	<b>MB-AL-0338</b> <b>Aluminium P1020A warrant premium, in-whs US, \$/tonne</b>
Quantity:	Min 100 tonnes	Quality:
Location:	Free-carrier duty-paid Italy (north and south of country), premium on top of exchange-listed aluminium price	P1020A or 99.7 % Minimum Al purity (Si 0.10% max, Fe 0.20% max). Ingot, T-bar, sow
Timing:	Within 4 weeks	Quantity:
Unit:	USD/tonne	Min 25 tonnes
Payment terms:	Cash against documents (7 days after bill of lading date); other terms normalized	Location:
Publication:	Weekly. Tuesday 3-4pm London time	In any LME-approved warehouse in the USA (10 delivery points in June 2017), premium on top of LME cash prices
Note:	Full methodology available <a href="#">here</a> . Inclusive of CBAM certificate costs, effective January 1, 2026	Timing:
<b>MB-AL-0319</b>	<b>Aluminium P1020A premium, fca dp Spain, \$/tonne</b>	Unit:
Quality:	P1020A or 99.7 % Minimum Al purity (Si 0.10% max, Fe 0.20% max). Ingot	Payment terms:
Quantity:	Min 100 tonnes	Cash against documents (7 days after bill of lading date); other terms normalized
Location:	free-carrier duty-paid Spain, premium on top of LME cash prices	Publication:
Timing:	Within 4 weeks	Fortnightly. Weds 3-4pm London time
Unit:	USD/tonne	
Payment terms:	Cash against documents (7 days after bill of lading date); other terms normalized	
Publication:	Once every two weeks. Tuesday 3-4pm London time	<b>MB-AL-0020</b> <b>Aluminium P1020A premium, ddp Midwest US, cents/lb</b>
Notes:	Inclusive of CBAM certificate costs, effective January 1, 2026	Quality:
		P1020A or 99.7% minimum Al purity (silicon 0.10% max, iron 0.20% max, zinc 0.03%, gallium 0.04%, vanadium 0.03%). Ingot, T-bar, Sow.
		Quantity:
		Min 100 tonnes
		Location:
		Delivered consumer works Midwest, premium on top of exchange-listed aluminium price
		Unit:
		US cents per pound
		Timing:
		Within four weeks
		Payment terms:
		30 days, other payment terms normalized
		Publication:
		Daily. 3-4pm London time
		Note:
		Full methodology available <a href="#">here</a> .

<b>BRAZIL</b>		
<b>MB-AL-0231</b>	<b>Aluminium P1020A all-in price, LME-based, delivered Midwest US, US cents/lb</b>	<b>MB-AL-0022</b>
Quality:	London Metal Exchange specification P1020A or 99.7% minimum Al purity (silicon 0.10% max, iron 0.20% max, zinc 0.03%, gallium 0.04%, vanadium 0.03%)	Quality:
Location:	Delivered consumer works Midwest	Quantity:
Unit:	US cents per pound	Location:
Quantity:	100 tonnes	Timing:
Publication:	Daily	Unit:
Notes:	London Metal Exchange cash aluminium AM bid price plus Fastmarkets Midwest aluminium premium	Payment terms:
<b>MEXICO</b>		
<b>MB-AL-0407</b>	<b>Aluminium P1020A premium, cif Mexico, \$ per tonne</b>	<b>MB-AL-0394</b>
Quality:	P1020A or 99.7% minimum Al purity (Si 0.10% max, Fe 0.20% max). Ingot, T-bar, sow	Quality:
Quantity:	Min 100 tonnes	Quantity:
Location:	CIF Mexico main ports Veracruz, Altamira or Manzanillo (other ports normalized); premium on top of LME exchange-listed aluminium price	Location:
Unit:	USD per tonne	Timing:
Timing:	Any transaction data concluded within 4 weeks	Unit:
Payment terms:	Cash against documents (within 7 days after bill of lading date), other payment terms normalized	Payment terms:
Publication:	Fortnightly, Tuesday, 3-4pm London time	Publication:

**MB-AL-0395**
**Aluminium P1020A premium,  
high-VAT market, delivered  
São Paulo region, \$/tonne**

Quality:	P1020A or 99.7% minimum Al purity (Si 0.10% max, Fe 0.20% max) ingot
Quantity:	Min 100 tonnes
Location:	Delivered in São Paulo region with 12% ICMS state tax, duty-paid, VAT removed, premium on top of LME cash prices
Timing:	Within 4 weeks
Unit:	USD/tonne
Payment terms:	Cash against documents (7 days after bill of lading date); other payment terms normalized
Publication:	Once every two weeks. Tuesday, 3-4pm London time

**Aluminium billet**

# Aluminium billet

**EUROPE**
**MB-AL-0002**
**Aluminium 6063 extrusion billet  
premium, in-whs dp Rotterdam,  
\$/tonne**

Quality:	Aluminium Assn specification AA6063: Si 0.2-0.6% max, Mg 0.45-0.9% max, Fe 0.35% max, Cu 0.1% max, Cr 0.1% max, Zn 0.1% max, Ti 0.1% max, Others each 0.05% max, total 0.15% max. Extrusion billet with outside diameter of 6", 7" and 8"
Quantity:	Min 100 tonnes
Location:	In-warehouse Rotterdam duty-paid premium on top of LME cash prices
Timing:	Within 3 months
Unit:	USD/tonne
Payment terms:	Cash against documents (7 days after bill of lading date)
Publication:	Weekly. Friday 3-4pm London time
Notes:	Inclusive of CBAM certificate costs, effective January 1, 2026.

**MB-AL-0302**
**Aluminium 6063 extrusion billet  
premium, ddp North Germany  
(Ruhr region), \$/tonne**

Quality:	Extrusion billet AA6063: Si 0.2-0.6% max, Mg 0.45-0.9% max, Fe 0.35% max, Cu 0.1% max, Cr 0.1% max, Zn 0.1% max, Ti 0.1% max, others each 0.05% max, total 0.15% max. Billet with diameter of 6", 7" and 8"
Quantity:	Min 100 tonnes
Location:	Delivered in North Germany (Ruhr region) duty-paid premium on top of LME cash price
Timing:	Within 3 months
Unit:	USD/tonne
Payment terms:	30-day payment terms, other payment terms normalized
Publication:	Weekly. Friday 3-4pm London time
Notes:	Full methodology available <a href="#">here</a> . Inclusive of CBAM certificate costs, effective January 1, 2026.

**MB-AL-0299**
**Aluminium 6063 extrusion billet premium, ddp Spain, \$/tonne**

Quality:	Extrusion billet AA6063. Billet with diameter of 6", 7" and 8"
Quantity:	Min 100 tonnes
Location:	Delivered in Spain (Bilbao region), duty-paid premium on top of LME cash prices
Timing:	Within 3 months
Unit:	USD/tonne
Payment terms:	60-day payment terms, other payment terms normalized
Publication:	Once every two weeks. Friday 3-4pm London time
Notes:	Inclusive of CBAM certificate costs, effective January 1, 2026

**MB-AL-0300**
**Aluminium 6063 extrusion billet premium, ddp Italy (Brescia region), \$/tonne**

Quality:	Extrusion billet AA6063: Si 0.2-0.6% max, Mg 0.45-0.9% max, Fe 0.35% max, Cu 0.1% max, Cr 0.1% max, Zn 0.1% max, Ti 0.1% max, others each 0.05% max, total 0.15% max. Billet with diameter of 6", 7" and 8"
Quantity:	Min 100 tonnes
Location:	Delivered in Italy (Brescia region), duty-paid premium on top of LME cash price
Timing:	Within 3 months
Unit:	USD/tonne
Payment terms:	60-day payment terms, other payment terms normalized
Publication:	Weekly. Friday 3-4pm London time
Notes:	Full methodology available <a href="#">here</a> . Inclusive of CBAM certificate costs, effective January 1, 2026

**UNITED STATES**
**MB-AL-0052**
**Aluminum 6063 extrusion billet premium, delivered Midwest US, US cents/lb**

Quality:	Extrusion billet AA6063. Billet with diameter of 6", 7" and 8"
Quantity:	Min 100 tonnes
Location:	Delivered into US Midwest region, duty-unpaid premium on top of the P1020A ingot Midwest premium and LME cash prices
Timing:	Within 2 months
Unit:	US cents/lb
Payment terms:	30-day payment, other payments terms normalized
Publication:	Once a month. Fourth Friday of the month, 3-4pm London time

**MEXICO**
**MB-AL-0406**
**Aluminium 6063 extrusion billet premium, cif Mexico, \$ per tonne**

Quality:	Extrusion billet AA6063. Billet with diameter of 7in, 8in, 9in and 10in
Quantity:	Min 100 tonnes
Location:	CIF Mexico main ports Veracruz, Altamira or Manzanillo (other ports normalized); premium on top of LME exchange-listed aluminium price
Unit:	USD per tonne
Timing:	Any transaction data concluded within 3 months
Payment terms:	Cash against documents (within 7 days after bill of lading date), other payment terms normalized
Publication:	Fortnightly, Tuesday, 3-4pm London time

**SOUTHEAST ASIA**

<b>MB-AL-0297</b>	<b>Aluminium 6063 extrusion billet premium, cif Thailand, \$/tonne</b>
Quality:	Extrusion billet AA6063. Billet with diameter of 6", 7" and 8"
Quantity:	100 tonnes
Location:	Cif delivery into main Thai ports, duty-paid premium on top of LME cash prices.
Timing:	Within 2 months
Unit:	USD/tonne
Payment terms:	Cash against documents (7 days after bill of lading date), other payments terms normalized
Publication:	Every 28 days. Friday 3-4pm London time

**TURKEY**

<b>MB-AL-0296</b>	<b>Aluminium 6063 extrusion billet premium, cif Turkey (Marmara region), \$/tonne</b>
Quality:	Extrusion billet AA6063. Billet with diameter of 6", 7" and 8"
Quantity:	100 tonnes
Location:	cif Turkey (Marmara region), duty unpaid premium on top of LME cash prices
Timing:	Within 3 months
Unit:	USD/tonne
Payment terms:	Cash, other payments terms normalized
Publication:	Once every two weeks. Friday 3-4pm London time

**JAPAN**

<b>MB-AL-0298</b>	<b>Aluminium 6063 extrusion quarterly billet premium, cif MJP, \$/tonne</b>
Quality:	Extrusion billet AA6063. Billet with diameter of 6", 7" and 8"
Quantity:	Min 100 tonnes
Location:	cif in Major Japanese Ports (MJP), duty-paid premium on top of the P1020A ingot MJP premium and LME cash prices
Timing:	Within 2 months
Unit:	USD/tonne
Payment terms:	Cash against documents (7 days after bill of lading date), other payments terms normalized
Publication:	Quarterly on the third Friday of the first month of the quarter. 3-4pm London time

**BRAZIL**

<b>MB-AL-0287</b>	<b>Aluminium 6063 &amp; 6060 extrusion billet premium, cif Brazilian main ports, \$/tonne</b>
Quality:	Extrusion billet AA6063 and AA6060. Billet with diameter of 6", 7" and 8"
Quantity:	100 tonnes
Location:	cif Brazil
Timing:	Within 2 months
Unit:	USD/tonne
Payment terms:	Cash against documents (7 days after bill of lading date), other payments terms normalized
Publication:	Once every two weeks. Friday 3-4pm London time

<b>MB-AL-0425</b>	<b>Aluminium 6063 &amp; 6060 extrusion billet premium, ddp São Paulo, \$/tonne</b>
Quality:	Extrusion billet AA6063 and AA6060. Billet with diameter of 6in, 7in, 8in
Quantity:	Min 100 tonnes
Location:	Delivered in São Paulo region, duty-paid, premium on top of LME cash prices
Timing:	Any transaction data concluded within 3 months
Unit:	USD/tonne
Payment terms:	30-day payment terms, other payment terms normalized
Publication:	Once every two weeks. Tuesday 3-4pm London time

# Secondary Aluminium Billet

## EUROPE

**MB-AL-0383**
**Secondary aluminium billet premium, ddp Europe**

Quality:	Max 30% primary aluminium, min 20% recovered post-consumer aluminium scrap
Quantity:	Minimum 100 tonnes
Location:	Delivered duty-paid Europe, premium on top of LME cash price
Timing:	Within 3 months
Unit:	USD per tonne
Payment terms:	30 days after loading (other payment terms normalized)
Publication:	Monthly, first Friday of the month, 3-4pm London time
Notes:	All types of aluminium scrap included. Other scrap-to-primary ratios normalized. Inclusive of CBAM certificate costs, effective January 1, 2026

**MB-AL-0340**
**Aluminium primary foundry alloy silicon 7 ingot premium, ddp Eastern Europe, \$/tonne**

Quality:	Primary Foundry Alloy silicon 7 AlSi7Mg0.3-0.6 for wheel production. Ingot
Quantity:	Min 100 tonnes
Location:	Delivered in Eastern Europe (Poland, Slovakia, Austria, Hungary, Czech Republic), duty-paid premium on top of LME cash prices
Timing:	Within 2 months
Unit:	USD/tonne
Payment terms:	30-day payment terms, other payments terms normalized
Publication:	Twice monthly. Second and last Friday of the month between 3pm and 4pm London time
Notes:	Inclusive of CBAM certificate costs, effective January 1, 2026

## EAST ASIA

**MB-AL-0348**
**Aluminium primary foundry alloy silicon 7 ingot annual premium, cif main South Korean ports, \$/tonne**

Quantity:	Min 500 tonnes
Quality:	Primary Foundry Alloy silicon 7 A356.2 for wheel production
Location:	cif in main South Korean ports at Busan, Gwangyang and Incheon, duty-unpaid premium on top of P1020 ingot premium and LME cash prices
Timing:	Within 4 weeks
Unit:	USD per tonne
Payment terms:	Letter of Credit or Telegraphic Transfer, other payments terms normalized
Publication:	Annual. After deals for long-term contracts completed between major South Korean buyers and international producers and traders with negotiations starting in October through to December

# Aluminium foundry alloys

## EUROPE

**MB-AL-0339**
**Aluminium foundry alloy silicon 7 ingot premium, ddp Germany, \$/tonne**

Quality:	Primary Foundry Alloy silicon 7 AlSi7Mg0.3-0.6 for wheel production. Ingot
Quantity:	100 tonnes
Location:	Delivered in Germany, duty paid premium on top of LME cash prices
Timing:	Within 2 months
Unit:	USD/tonne
Payment terms:	30-day payment terms, other payments terms normalized
Publication:	Twice monthly. Second and last Friday of the month between 3pm and 4pm London time
Notes:	Inclusive of CBAM certificate costs, effective January 1, 2026.

<b>MB-AL-0349</b>	<b>Aluminium primary foundry alloy silicon 7 ingot annual premium, cif MJP, \$/tonne</b>	<b>MB-AL-0277</b>	<b>Aluminum alloy C355.2 ingot, delivered, \$/lb</b>
Quality:	Primary Foundry Alloy silicon 7 A356.2 for wheel production	Quality:	Silicon 4.50-5.50%, iron 0.13%, copper 1.00-1.50%, manganese 0.05%, magnesium 0.50-0.60%, zinc 0.05%, titanium 0.20%, aluminium remainder
Quantity:	Min 500 tonnes	Location:	Delivered. Domestic producer estimated price.
Location:	cif in main Japanese ports at Yokohama, Nagoya and Osaka, duty-unpaid premium on top of P1020 ingot premium and LME cash prices	Unit:	US dollars per pound
Timing:	Within 4 weeks	Quantity:	20 tons
Unit:	USD per tonne	Publication:	Daily
Payment terms:	Letter of Credit or Telegraphic Transfer, other payments terms normalized	Formula:	Calculated. Formula: LME cash aluminium official price (ask) + Fastmarkets AMM Midwest aluminium premium (average) + Fastmarkets AMM alloy surcharge assessment.
Publication:	Annual. After deals for long-term contracts are completed between major Japanese buyers and international producers and traders with negotiations starting in October through to December		
<hr/>			
<b>UNITED STATES</b>			
<b>MB-AL-0342</b>	<b>Aluminium primary foundry alloy silicon 7 ingot/T-bar premium dlvd dup over P1020A Midwest US, US cents/lb</b>	<b>MB-AL-0276</b>	<b>Aluminum alloy A356.2 ingot, delivered, \$/lb</b>
Quality:	Primary Foundry Alloy silicon 7 A356.2 for wheel production. Ingot or T-bar	Location:	Silicon 6.50-7.50%, iron 0.12%, copper 0.10%, manganese 0.05%, magnesium 0.30-0.45%, zinc 0.05%, titanium 0.20%, aluminium remainder
Quantity:	Min 100 tonnes	Unit:	Delivered. Domestic producer estimated price.
Location:	Delivered in US Midwest region, duty-unpaid premium on top of P1020A ingot Midwest premium and LME cash prices	Quantity:	US dollars per pound
Timing:	Within 2 months	Publication:	20 tons
Unit:	US cents /lb	Formula:	Daily
Payment terms:	7-30 day payment, other terms normalized		LME cash aluminium official price (ask) + Fastmarkets AMM Midwest aluminium premium (average) + Fastmarkets AMM alloy surcharge assessment.
Publication:	Monthly. Second Friday of the month, 3-4pm London time		
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<b>MB-AL-0045</b>		<b>MB-AL-0045</b>	<b>Aluminum 6061 alloyed ingot, \$/lb</b>
Quality:		Quality:	Aluminium 99.45%, silicon 0.40-0.80%, iron 0.70%, copper 0.15-0.40%, manganese 0.15%, magnesium 0.80-1.20%, chromium 0.15-0.35%, zinc 0.25%, titanium 0.15%
Location:		Location:	Delivered. Domestic producer estimated price.
Unit:		Unit:	US dollars per pound
Quantity:		Quantity:	20 tons
Publication:		Publication:	Monthly

<b>MB-AL-0046</b>	<b>Aluminum 6063 alloyed ingot, \$lb</b> Aluminium 99.45%, silicon 0.20-0.60%, iron 0.35%, copper 0.10%, manganese 0.10%, magnesium 0.45-0.90%, chromium 0.10%, zinc 0.10%, titanium 0.10%	<b>MB-AL-0043</b>	<b>Aluminum alloy A360.1, delivered Midwest, cents/lb</b> Copper 0.60%, iron 1.00%, magnesium 0.45-0.60%, manganese 0.35%, nickel 0.50%, silicon 9.0-10.0%, tin 0.15%, zinc 0.40%
Quality:	Aluminium 99.45%, silicon 0.20-0.60%, iron 0.35%, copper 0.10%, manganese 0.10%, magnesium 0.45-0.90%, chromium 0.10%, zinc 0.10%, titanium 0.10%	Quality:	Copper 0.60%, iron 1.00%, magnesium 0.45-0.60%, manganese 0.35%, nickel 0.50%, silicon 9.0-10.0%, tin 0.15%, zinc 0.40%
Quantity:	20 tons	Quantity:	Min 20 tons
Location:	Delivered	Location:	Delivered Midwest
Unit:	US dollars per pound	Unit:	US cents per pound
Publication:	Monthly	Publication:	Weekly, Thursday
<b>MB-AL-0040</b>	<b>Aluminum alloy A380.1, delivered Midwest, US cents/lb</b> Copper 3.00-4.00%, iron 1.00%, magnesium 0.10%, manganese 0.50%, nickel 0.50%, silicon 7.50-9.50%, tin 0.35%, zinc 2.90%, aluminium remainder. Form: Ingot	<b>MB-AL-0044</b>	<b>Aluminum alloy A413.1, delivered Midwest, cents/lb</b> Copper 1.00%, iron 1.00%, magnesium 0.10%, manganese 0.35%, nickel 0.50%, silicon 11.0-13.0%, tin 0.15%, zinc 0.40%
Quality:	Copper 3.00-4.00%, iron 1.00%, magnesium 0.10%, manganese 0.50%, nickel 0.50%, silicon 7.50-9.50%, tin 0.35%, zinc 2.90%, aluminium remainder. Form: Ingot	Quality:	Copper 1.00%, iron 1.00%, magnesium 0.10%, manganese 0.35%, nickel 0.50%, silicon 11.0-13.0%, tin 0.15%, zinc 0.40%
Location:	Delivered Midwest	Quantity:	Min 20 tons
Unit:	US cents per pound	Location:	Delivered Midwest
Quantity:	Truckload/20 tons	Unit:	US cents per pound
Payment terms:	Net 30 days post delivery	Publication:	Weekly, Thursday
Publication:	Weekly, Thursday		
<b>MB-AL-0041</b>	<b>Aluminum alloy 319.1, delivered Midwest, cents/lb</b> Copper 3.00-4.00%, iron 0.80%, magnesium 0.10%, manganese 0.50%, nickel 0.35%, silicon 5.50-6.50%, titanium 0.25%, zinc 1.00%	<b>MEXICO</b>	
Quality:	Copper 3.00-4.00%, iron 0.80%, magnesium 0.10%, manganese 0.50%, nickel 0.35%, silicon 5.50-6.50%, titanium 0.25%, zinc 1.00%	<b>MB-AL-0421</b>	<b>Aluminium alloy A380.1, delivered to consumer Monterrey, Mexico, pesos/lb</b> Copper 3.00-4.00%, iron 1.00%, magnesium 0.10%, manganese 0.50%, nickel 0.50%, silicon 7.50-9.50%, tin 0.35%, zinc 2.90%, aluminium remainder.
Location:	Delivered Midwest	Quality:	Copper 3.00-4.00%, iron 1.00%, magnesium 0.10%, manganese 0.50%, nickel 0.50%, silicon 7.50-9.50%, tin 0.35%, zinc 2.90%, aluminium remainder.
Unit:	US cents per pound	Form:	Ingot
Quantity:	20 tons	Quantity:	Truckload, 20 - 25 tonnes (44,000-55,000 lbs approx.)
Publication:	Weekly, Thursday	Location:	Delivered to consumer, Monterrey, Mexico
		Unit:	Mexican pesos per pound
		Publication:	Weekly, Monday, 2-3pm New York time
<b>MB-AL-0042</b>	<b>Aluminum alloy 356.1, delivered Midwest, cents/lb</b> Copper 0.25%, iron 0.50%, magnesium 0.25-0.45%, manganese 0.50%, silicon 6.50-7.50%, titanium 0.25%, zinc 0.35%	Notes:	16% VAT withholding inclusive assessment
Quality:	Copper 0.25%, iron 0.50%, magnesium 0.25-0.45%, manganese 0.50%, silicon 6.50-7.50%, titanium 0.25%, zinc 0.35%		
Quantity:	min 20 tons		
Location:	Delivered Midwest		
Unit:	US cents per pound		
Publication:	Weekly, Thursday		

<b>MB-AL-0422</b>	<b>Aluminium alloy A356.1, delivered to consumer Monterrey, Mexico, pesos/lb</b>
Quality:	Copper 0.25%, iron 0.50%, magnesium 0.25-0.45%, manganese 0.50%, silicon 6.50-7.50%, titanium 0.25%, zinc 0.35%
Quantity:	Truckload, 20 - 25 tonnes (44,000-55,000 lbs approx.)
Location:	Delivered to consumer, Monterrey, Mexico
Unit:	Mexican pesos per pound
Publication:	Weekly, Monday, 2-3pm New York time
Notes:	16% VAT withholding inclusive assessment

## Low-carbon aluminium differentials

### EAST ASIA

<b>MB-AL-0393</b>	<b>Aluminium low-carbon differential P1020A, Japan, South Korea, \$/tonne</b>
Carbon limit:	4tCO2e per tonne of aluminium produced, Scope 1 and 2 emissions
Quality:	P1020A or 99.7% minimum Al purity (Si 0.10% max, Fe 0.20% max). Ingot, T-bar, sow
Quantity:	Min 100 tonnes
Location:	Japan & South Korea
Unit:	USD/tonne
Timing:	Within three months
Publication:	Monthly, first Friday of the month, 4pm London time

### EUROPE

<b>MB-AL-0381</b>	<b>Aluminium low-carbon differential P1020A, Europe, \$/tonne</b>
Carbon limit:	4tCO2e per tonne of aluminium produced, Scope 1 and 2 emissions
Quality:	P1020A or 99.7% minimum Al purity (Si 0.10% max, Fe 0.20% max). Ingot
Quantity:	Min 100 tonnes
Location:	Europe
Unit:	USD/tonne
Timing:	Up to 18 months
Publication:	Monthly, first Friday of the month, 4pm London time
Note:	Includes spot and contract liquidity Full methodology available <a href="#">here</a>

**MB-AL-0391**

	<b>Aluminium low-carbon differential billet, Europe, \$/tonne</b>
Carbon limit:	4tCO2e per tonne of aluminium produced, Scope 1 and Scope 2 emissions.
Type:	Extrusion billet
Quantity:	Minimum 100 tonnes
Location:	Europe
Unit:	USD/tonne
Timing:	Within three months
Publication:	Monthly, first Friday of the month, 4pm London
Note:	Does not include other value-added products

**MB-AL-0392**

	<b>Aluminium low-carbon differential value-added product ex-billet, Europe, \$/tonne</b>
Carbon limit:	4tCO2e per tonne of aluminium produced, Scope 1 and Scope 2 emissions.
Type:	Primary foundry alloy, wire rod and slab
Quantity:	Minimum 100 tonnes
Location:	Europe
Unit:	USD/tonne
Timing:	Within 12 months
Publication:	Monthly, first Friday of the month, 4pm London
Note:	Does not include aluminium billet

**UNITED STATES**
**MB-AL-0389**

	<b>Aluminium low-carbon differential P1020A, US Midwest, US cents/lb</b>
Carbon limit:	4tCO2e per tonne of aluminium produced, Scope 1 and 2 emissions.
Quality:	P1020A or 99.7% minimum Al purity (Si 0.10% max, Fe 0.20% max). Ingot, T-bar, sow
Quantity:	Min 100 tonnes
Location:	Delivered consumer works Midwest, differential on top of P1020A premium and exchange-listed aluminum price.
Unit:	US cents per pound
Timing:	Up to 18 months
Publication:	Monthly. First Friday of the month. 3-4pm London time

**MB-AL-0390**

	<b>Aluminium low-carbon differential value-added product, US Midwest, US cents/lb</b>
Carbon limit:	4tCO2e per tonne of aluminium produced, Scope 1 and 2 emissions.
Type:	Extrusion billet, primary foundry alloy, wire rod, slab
Quantity:	Min 100 tonnes
Location:	Delivered into US Midwest region, differential on top of value-added product premium and exchange-listed aluminum price
Unit:	US cents per pound
Timing:	Up to 18 months
Publication:	Monthly. First Friday of the month. 3-4pm London time

**MEXICO**
**MB-AL-0408**

	<b>Aluminium low-carbon differential P1020A, cif Mexico, \$ per tonne</b>
Carbon limit:	4 tCO2e per tonne of aluminium produced, Scope 1 and 2 emissions
Quality:	P1020A or 99.7% minimum Al purity (Si 0.10% max, Fe 0.20% max). Ingot, T-bar, sow
Quantity:	Min 100 tonnes
Location:	CIF Mexico main ports Veracruz, Altamira or Manzanillo (other ports normalized); differential on top of P1020A premium and LME exchange-listed aluminium price
Unit:	USD per tonne
Timing:	Any transaction data concluded within 18 months
Publication:	Monthly, last Tuesday of the month, 3-4pm London time

# Copper concentrate Blister copper

## ASIA PACIFIC

<b>MB-CU-0287</b>	<b>Copper concentrates TC index, cif Asia Pacific, \$/dmtu</b>
Quality:	Concentrate. Copper content 26%; Au 1.1g/dmt; Ag 75g/dmt; S 32%; Fe 28%; Pb 0.07%; Zn 1%; As 0.17%; Sb 0.018%; Hg 2.5ppm; Bi 145ppm
Quantity:	Min 5,000 tonnes
Location:	cif Asia Pacific
Unit:	USD/tonne
Timing:	Within 13 weeks
Payment terms:	Letter of credit, quotation period M+3
Publication:	Weekly. Friday at 4pm London time
Notes:	Full methodology available <a href="#">here</a> .

  

<b>MB-CU-0288</b>	<b>Copper concentrates RC index, cif Asia Pacific, \$/dmtu</b>
Quality:	Concentrate. Copper content 26%; Au 1.1g/dmt; Ag 75g/dmt; S 32%; Fe 28%; Pb 0.07%; Zn 1%; As 0.17%; Sb 0.018%; Hg 2.5ppm; Bi 145ppm
Quantity:	Min 5,000 tonnes
Location:	cif Asia Pacific
Unit:	US cents/lb
Timing:	Within 13 weeks
Payment terms:	Letter of credit, quotation period M+3
Publication:	Weekly. Friday at 4pm London time
Notes:	Full methodology available <a href="#">here</a> .

## CHINA

<b>MB-CU-0408</b>	<b>Copper blister 98-99% RC spot, cif China, \$/tonne</b>
Quality:	Blister copper of 98-99% copper content, with varying payables
Location:	CIF China
Timing:	Within 2 months
Unit:	USD per tonne
Publication:	Monthly. Last day of the month, 3-4pm London time

  

<b>MB-CU-0409</b>	<b>Copper blister 98-99% RC annual benchmark, cif China, \$/tonne</b>
Quality:	Blister copper of 98-99% copper content, with varying payables
Location:	CIF China
Unit:	USD per tonne
Publication:	Annually. January or February

# Refined copper

## CHINA

<b>MB-CU-0405</b>	<b>Copper grade A cathode premium, in-whs Shanghai, \$/tonne</b>
Quality:	Grade A cathode 99.9935% min copper conforming to LME specifications BS EN 1978:1998 – Cu-CATH-1
Quantity:	Min 25 tonnes
Location:	In-warehouse Shanghai port, duty-unpaid premium on top of LME cash prices
Timing:	Within 6 weeks
Unit:	USD/tonne
Payment terms:	Letter of credit, telegraphic transfer or documents against payment, other payment terms normalized
Publication:	Daily. 3-4pm London time
Note:	Exchange deliverable units

<b>MB-CU-0383</b>	<b>Copper grade A cathode ER premium, bonded in-whs Shanghai, \$/tonne</b>	<b>MB-CU-0403</b>	<b>Copper grade A cathode premium, cif Shanghai, \$/tonne</b>
Quality:	Electro-Refined Grade A cathode 99.9935% min conforming to LME specifications BS EN 1978:1998 (Cu-CATH-1).	Quality:	Grade A cathode 99.9935% min copper conforming to LME specifications BS EN 1978:1998 – Cu CATH-1
Quantity:	Min 25 tonnes	Quantity:	Min 25 tonnes
Location:	In-warehouse Shanghai port, duty-unpaid premium on top of LME cash prices	Location:	CIF Shanghai port, duty-unpaid premium on top of LME cash prices
Timing:	Within 6 weeks	Timing:	Within 6 weeks
Unit:	USD/tonne	Unit:	USD/tonne
Payment terms:	Letter of credit, telegraphic transfer or documents against payment, other payment terms normalized	Payment terms:	Letter of credit, telegraphic transfer or documents against payment, other payment terms normalized
Publication:	Daily. 3-4pm London time	Publication:	Daily. 3-4pm London time
Note:	Exchange deliverable units	Notes:	Full methodology available <a href="#">here</a> . Exchange deliverable units
<b>MB-CU-0382</b>	<b>Copper grade A cathode SX-EW premium, bonded in-whs Shanghai, \$/tonne</b>	<b>MB-CU-0380</b>	<b>Copper grade A cathode ER premium, cif Shanghai, \$/tonne</b>
Quality:	Solvent Extraction-Electro winning Grade A cathode 99.9935% min conforming to LME specifications BS EN 1978:1998 (Cu-CATH-1)	Quality:	Electro-Refined Grade A 99.9935% min conforming to LME specifications BS EN 1978:1998 (Cu-CATH-1)
Quantity:	25 tonnes	Quantity:	Min 25 tonnes
Location:	In-warehouse Shanghai port, duty-unpaid premium on top of LME cash prices	Location:	CIF Shanghai port, duty-unpaid premium on top of LME cash prices
Timing:	Within 6 weeks	Timing:	Within 6 weeks
Unit:	USD/tonne	Unit:	USD/tonne
Payment terms:	Letter of credit, telegraphic transfer or documents against payment, other payment terms normalized	Payment terms:	Letter of credit, telegraphic transfer or documents against payment, other payment terms normalized
Publication:	Daily. 3-4pm London time	Publication:	Daily. 3-4pm London time
Note:	Exchange deliverable units	Note:	Exchange deliverable units
<b>MB-CU-0384</b>	<b>Copper grade A cathode SX-EW premium, cif Shanghai, \$/tonne</b>		
Quality:	Solvent Extraction-Electro winning Grade A cathode 9.9935% min conforming to LME specifications BS EN 1978:1998 (Cu-CATH-1)	Quality:	Solvent Extraction-Electro winning Grade A cathode 9.9935% min conforming to LME specifications BS EN 1978:1998 (Cu-CATH-1)
Quantity:	Min 25 tonnes	Quantity:	Min 25 tonnes
Location:	cif Shanghai port, duty-unpaid premium on top of LME cash prices	Location:	cif Shanghai port, duty-unpaid premium on top of LME cash prices
Timing:	Within 6 weeks	Timing:	Within 6 weeks
Unit:	USD/tonne	Unit:	USD/tonne
Payment terms:	LC, TT or documents against payment, other terms normalized	Payment terms:	LC, TT or documents against payment, other terms normalized
Publication:	Daily. 3-4pm London time	Publication:	Daily. 3-4pm London time
Note:	Exchange deliverable units	Note:	Exchange deliverable units

<b>MB-CU-0412</b>	<b>Copper EQ cathode premium, cif Shanghai, \$/tonne</b>	<b>MB-CU-0513</b>	<b>Copper EQ cathode premium, cif Southeast Asia, \$/tonne</b>
Quality:	99.9935% min copper conforming to LME specifications; Ag: 0.0025% max, As: 0.0005% max, Bi: 0.00020% max, Fe: 0.0010% max, Pb: 0.0005% max, S: 0.0015% max, Se: 0.00020% max, Te: 0.00020% max	Quality:	99.9935% min copper conforming to LME specifications; Ag: 0.0025% max, As: 0.0005% max, Bi: 0.00020% max, Fe: 0.0010% max, Pb: 0.0005% max, S: 0.0015% max, Se: 0.00020% max, Te: 0.00020% max
Quantity:	Min 25 tonnes	Quantity:	25 tonnes
Location:	cif Shanghai	Location:	cif ports of Vietnam (Ho Chi Minh/ Haiphong), Thailand (Bangkok, Laem Chabang), Malaysia (Johor, Port Klang), Indonesia (Jakarta), duty-unpaid premium on top of LME cash prices
Timing:	Within 6 weeks	Timing:	Within 6 weeks
Unit:	USD per tonne	Unit:	USD per tonne
Payment terms:	LC, TT or DP other payments normalized to cash	Payment terms:	LC, TT, DP or other payments normalized.
Publication:	Weekly, Tuesday 4pm London time	Publication:	Weekly, Tuesday 4pm London time
Note:	Non-exchange deliverable units	Note:	Non-exchange deliverable units
<b><u>SOUTHEAST ASIA &amp; EAST ASIA</u></b>			
<b>MB-CU-0399</b>	<b>Copper grade A cathode premium, cif Southeast Asia, \$/tonne</b>	<b>MB-CU-0386</b>	<b>Copper grade A cathode premium, cif Taiwan, \$/tonne</b>
Quality:	Grade A 99.9935% min copper cathode conforming to LME specifications BS EN 1978:1998 – Cu-CATH-1	Quality:	Grade A 99.9935% min copper cathode conforming to LME specifications BS EN 1978:1998 – Cu-CATH-1
Quantity:	Min 25 tonnes	Quantity:	Min 25 tonnes
Location:	cif ports of Vietnam (Ho Chi Minh/ Haiphong), Thailand (Bangkok, Laem Chabang), Malaysia (Johor, Port Klang), Indonesia (Jakarta), duty-unpaid premium on top of LME cash prices	Location:	cif delivery in Taiwanese ports, duty-unpaid premium on top of LME cash prices
Timing:	Within 6 weeks	Timing:	Within 6 weeks
Unit:	USD/tonne	Unit:	USD/tonne
Payment terms:	Letter of credit, telegraphic transfer or documents against payment, other payment terms normalized	Payment terms:	Letter of credit, telegraphic transfer or documents against payment, other payment terms normalized
Publication:	Weekly, Tuesday 3-4pm London time	Publication:	Once every two weeks. Tuesday 3-4pm London time
Note:	Exchange deliverable units	Note:	Exchange deliverable units

		<b>EUROPE</b>	
<b>MB-CU-0397</b>	<b>Copper grade A cathode warrant premium, in-whs Southeast Asia, \$/tonne</b>	<b>MB-CU-0369</b>	<b>Copper grade A cathode premium, cif Rotterdam, \$/tonne</b>
Quality:	Grade A 99.9935% min copper cathode conforming to LME specifications BS EN 1978:1998 – Cu-CATH-1	Quality:	Grade A cathode 99.9935% min copper conforming to LME specifications BS EN 1978:1998 – Cu-CATH-1
Quantity:	Min 25 tonnes	Quantity:	Min 25 tonnes
Location:	In any LME-approved warehouse in Singapore and in Malaysia (Johor, Port Klang), premium on top of LME cash prices	Location:	cif delivery in Rotterdam, duty unpaid premium on top of LME cash prices
Timing:	Prompt release	Timing:	Within 4 weeks
Unit:	USD/tonne	Unit:	USD/tonne
Payment terms:	Cash, other payment terms normalized	Payment terms:	Cash, other payment terms normalized
Publication:	Fortnightly. Weds 3-4pm London time	Publication:	Weekly. Tuesday 3-4pm London time
		Note:	Exchange deliverable units
<b>MB-CU-0398</b>	<b>Copper grade A cathode warrant premium, in-whs East Asia \$/tonne</b>	<b>MB-CU-0406</b>	<b>Copper grade A cathode premium, cif Leghorn, \$/tonne</b>
Quality:	Grade A cathode 99.9935% min copper conforming to LME specifications BS EN 1978:1998 – Cu-CATH-1	Quality:	Grade A cathode 99.9935% min copper conforming to LME specifications BS EN 1978:1998 – Cu-CATH-1
Quantity:	Min 25 tonnes	Quantity:	Min 25 tonnes
Location:	In any LME-approved warehouse in Taiwan (Kaohsiung) and South Korea (Gwangyang, Busan or Incheon), premium on top of LME cash prices	Location:	cif delivery in Leghorn (Italy), duty unpaid premium on top of LME cash prices
Timing:	Prompt release	Timing:	Within 4 weeks
Unit:	USD/tonne	Unit:	USD/tonne
Payment terms:	Cash, other payment terms normalized	Payment terms:	Cash, other payment terms normalized
Publication:	Fortnightly. Weds 3-4pm London time	Publication:	Weekly. Tuesday 3-4pm London time
		Notes:	Assessed range and single number Exchange deliverable units
<b>MB-CU-0404</b>	<b>Copper grade A cathode premium, cif South Korea, \$/tonne</b>	<b>MB-CU-0372</b>	<b>Copper grade A cathode premium, delivered Germany, \$/tonne</b>
Quality:	Grade A cathode 99.9935% min copper conforming to LME specifications BS EN 1978:1998 – Cu-CATH-1	Quality:	Grade A cathode 99.9935% min copper conforming to LME specifications BS EN 1978:1998 – Cu-CATH-1
Quantity:	Min 25 tonnes	Quantity:	Min 25 tonnes
Location:	Cif delivery in main South Korean ports (Busan, Incheon, Gwangyang, Onsan), duty-unpaid premium on top of LME cash prices	Location:	Delivered consumer works in Germany, duty unpaid premium on top of LME cash prices
Timing:	Within 6 weeks	Timing:	Within 4 weeks
Unit:	USD/tonne	Unit:	USD/tonne
Payment terms:	Letter of credit or telegraphic transfer, other payment terms normalized	Payment terms:	Cash, other payment terms normalized
Publication:	Weekly. Tuesday 3-4pm London time	Publication:	Weekly. Tuesday 3-4pm London time
Notes:	Assessed range and single number. Exchange deliverable units	Note:	Exchange deliverable units

		<b>UNITED STATES</b>
<b>MB-CU-0400</b>	<b>Copper grade A cathode warrant premium, in-whs North Europe, \$/tonne</b>	
Quality:	Grade A cathode 99.9935% min copper conforming to LME specifications BS EN 1978:1998 – Cu-CATH-1	Quality:
Quantity:	Min 25 tonnes	Quantity:
Location:	In any LME-approved warehouse in North Europe (Belgium, Germany, the Netherlands, Sweden and the UK), premium on top of LME cash prices	Location:
Timing:	Prompt release	Timing:
Unit:	USD/tonne	Unit:
Payment terms:	Cash, other payment terms normalized	Payment:
Publication:	Fortnightly. Weds 3-4pm London time	Publication:
<b>MB-CU-0401</b>	<b>Copper grade A cathode warrant premium, in-whs South Europe, \$/tonne</b>	<b>MB-CU-0309</b>
Quality:	Grade A cathode 99.9935% min copper conforming to LME specifications BS EN 1978:1998 – Cu-CATH-1	Quality:
Quantity:	Min 25 tonnes	Location:
Location:	In any LME-approved warehouse in South Europe (Spain, Italy), premium on top of LME cash prices	Unit:
Timing:	Prompt release	Publication:
Unit:	USD/tonne	Notes:
Payment terms:	Cash, other payment terms normalized	Notes: Comex spot close price plus Fastmarkets copper premium
Publication:	Fortnightly. Weds 3-4pm London time	
<b>MB-CU-0411</b>	<b>Copper EQ cathode premium, cif Europe, \$/tonne.</b>	<b>MB-CU-0377</b>
Quality:	99.9935% min copper conforming to LME specifications; Ag: 0.0025% max, As: 0.0005% max, Bi: 0.00020% max, Fe: 0.0010% max, Pb: 0.0005% max, S: 0.0015% max, Se: 0.00020% max, Te: 0.00020% max	Location:
Quantity:	Min 25 tonnes	Quality:
Location:	cif Europe	Unit:
Timing:	Within 4 weeks	Quantity:
Unit:	USD per tonne	Payment terms:
Payment terms:	Cash payment, other terms normalized	Timing:
Publication:	Weekly. Tuesday 3-4pm London time	Publication:
Note:	Non-exchange deliverable units	Notes: Any LME-approved warehouse in the US, premium on top of LME cash prices Grade A 99.9935% min copper cathode conforming to LME specifications BS EN 1978:1998 – Cu-CATH-1 USD/tonne 25 tonnes Cash, other payment terms normalized Prompt release Fortnightly. Weds 3-4pm London time

## Lead concentrate

### CHINA

<b>MB-PB-0104</b>	<b>Lead spot concentrate TC, high silver, cif China, \$/tonne</b>
Quality:	55-65% lead content concentrate, high silver 2-4kg, arsenic below 0.7%, mercury below 0.05%
Quantity:	Min 2,000 tonnes
Location:	Treatment Charge on cif basis delivery to Chinese ports
Timing:	Within 13 weeks
Unit:	USD/tonne
Payment terms:	Letter of Credit, quotation period M+3
Publication:	Monthly. Last Friday of the month, 3-4pm London time

  

<b>MB-PB-0103</b>	<b>Lead spot concentrate TC, low silver, cif China, \$/tonne</b>
Quality:	55-65% lead content concentrate, low silver below 1kg, arsenic below 0.7%, mercury below 0.05%
Quantity:	2,000 tonnes
Location:	Treatment Charge on cif basis delivery to Chinese ports
Timing:	Within 13 weeks
Unit:	USD/tonne
Payment terms:	Letter of Credit, quotation period M+3
Publication:	Monthly. Last Friday of the month, 3-4pm London time

## Refined lead

### INDIA

<b>MB-PB-0087</b>	<b>Lead 99.97% ingot premium, cif India, \$/tonne</b>
Quality:	Lead ingot 99.97% to 99.99% purity to LME specification BS EN 12659:1999, GB/T 469/2005 or ASTM B29-03 (2009)
Quantity:	Min 25 tonnes
Location:	cif delivery in Nhava Sheva (India), premium on top of LME cash prices
Timing:	Within 5 weeks
Unit:	USD/tonne
Payment terms:	Letter of credit, telegraphic transfer or cash against documents, other terms normalized
Publication:	Once every two weeks. Tuesday 3-4pm London time

  

<b>MB-PB-0086</b>	<b>Lead 99.99% ingot premium, cif India, \$/tonne</b>
Quality:	Lead ingot of 99.99% minimum purity conforming to LME specification BS EN 12659:1999, GB/T 469/2005 or ASTM B29-03 (2009)
Quantity:	Min 25 tonnes
Location:	cif Nhava Sheva (India), duty-unpaid premium on top of LME cash prices
Timing:	Within 5 weeks
Unit:	USD/tonne
Payment terms:	Letter of credit, telegraphic transfer or cash against documents, other terms normalized
Publication:	Once every two weeks. Tuesday 3-4pm London time

**SOUTHEAST ASIA & EAST ASIA**

<b>MB-PB-0107</b>	<b>Lead 99.97% ingot premium, cif Southeast Asia, \$/tonne</b>
Quality:	Lead ingot of 99.97-99.99% purity conforming to LME specification BS EN 12659:1999, GB/T 469/2005 or ASTM B29-03 (2009)
Quantity:	25 tonnes
Location:	cif to ports of Vietnam (Ho Chi Minh/Haiphong), Thailand (Bangkok, Laem Chabang), Malaysia (Johor, Port Klang), Indonesia (Jakarta), duty-unpaid premium on top of LME cash prices
Timing:	Within 5 weeks
Unit:	USD/tonne
Payment terms:	Letter of credit, telegraphic transfer or cash against documents, other terms normalized
Publication:	The first Tuesday of every month, 3-4pm London time

  

<b>MB-PB-0108</b>	<b>Lead 99.99% ingot premium, cif Southeast Asia, \$/tonne</b>
Quality:	Lead ingot of 99.99% min purity to LME specification BS EN 12659:1999, GB/T 469/2005 or ASTM B29-03 (2009)
Quantity:	25 tonnes
Location:	cif ports of Vietnam (Ho Chi Minh/Haiphong), Thailand (Bangkok, Laem Chabang), Malaysia (Johor, Port Klang), Indonesia (Jakarta), duty-unpaid premium on top of LME cash prices
Timing:	Within 5 weeks
Unit:	USD/tonne
Payment terms:	Letter of credit, telegraphic transfer or cash against documents, other terms normalized
Publication:	The first Tuesday of every month, 3-4pm London time

**MB-PB-0084**
**Lead 99.97% ingot premium, cif Taiwan, \$/tonne**

Quality:	Lead of 99.97% to 99.99% purity conforming to LME specification BS EN 12659:1999, GB/T 469/2005 or ASTM B29-03 (2009)
Quantity:	25 tonnes
Location:	cif delivery main Taiwan ports (Taipei, Kaohsiung or Keelung), duty-unpaid premium on top of LME cash prices
Timing:	Within 5 weeks
Unit:	USD/tonne
Payment terms:	Letter of credit, telegraphic transfer or cash against documents, other terms normalized
Publication:	Once every two weeks. Tuesday 3-4pm London time

**MB-PB-0083**
**Lead 99.99% ingot premium, cif Taiwan, \$/tonne**

Quality:	Lead ingot 99.99% min purity to LME specification BS EN 12659:1999, GB/T 469/2005 or ASTM B29-03 (2009)
Quantity:	25 tonnes
Location:	cif main Taiwanese ports (Taipei, Kaohsiung or Keelung), duty-unpaid premium on top of LME cash prices
Timing:	Within 5 weeks
Unit:	USD/tonne
Payment terms:	Letter of credit, telegraphic transfer or cash against documents, other terms normalized
Publication:	Once every two weeks. Tuesday 3-4pm London time

**MB-PB-0105**
**Lead min 99.97% ingot warrant premium, in-whs Southeast Asia \$/tonne**

Quality:	Lead ingot of 99.97% to 99.99% purity conforming to LME specification BS EN 12659:1999, GB/T 469/2005 or ASTM B29-03 (2009)
Quantity:	25 tonnes
Location:	In any LME-approved warehouse in Singapore and in Malaysia (Johor, Port Klang), premium on top of LME cash prices
Timing:	Prompt release
Unit:	USD/tonne
Payment terms:	Cash, other payment terms normalized
Publication:	Fortnightly. Weds 3-4pm London time

<b>MB-PB-0106</b>	<b>Lead min 99.97% ingot warrant premium, in-whs East Asia \$/tonne</b>	<b>MB-PB-0110</b>	<b>Lead 99.97% ingot warrant premium, in-whs South Europe, \$/tonne</b>
Quality:	Lead ingot of 99.97% to 99.99% purity conforming to LME specification BS EN 12659:1999, GB/T 469/2005 or ASTM B29-03 (2009)	Quality:	Lead cathode of 99.97% to 99.99% purity conforming to LME specification BS EN 12659:1999, GB/T 469/2005 or ASTM B29-03 (2009)
Quantity:	25 tonnes	Quantity:	Min 25 tonnes
Location:	In any LME-approved warehouse in Taiwan (Kaohsiung) and South Korea (Gwangyang, Busan or Incheon), premium on top of LME cash prices	Location:	In any LME-approved warehouse in South Europe (Spain, Italy), premium on top of LME cash prices
Timing:	Prompt release	Timing:	Prompt release
Unit:	USD/tonne	Unit:	USD/tonne
Payment terms:	Cash, other terms normalized	Payment terms:	Cash, other payment terms normalized
Publication:	Fortnightly. Weds 3-4pm London time	Publication:	Fortnightly. Weds 3-4pm London time

**EUROPE**

<b>MB-PB-0109</b>	<b>Lead 99.97% ingot warrant premium, in-whs North Europe, \$/tonne</b>
Location:	In any LME-approved warehouse in North Europe (Belgium, Germany, the Netherlands, Sweden and the UK), premium on top of LME cash prices
Quality:	Lead of 99.97% to 99.99% purity conforming to LME specification BS EN 12659:1999, GB/T 469/2005 or ASTM B29-03 (2009)
Unit:	USD/tonne
Quantity:	Min 25 tonnes
Payment terms:	Cash, other payment terms normalized
Timing:	Prompt release
Form:	Cathode
Publication:	Fortnightly. Weds 3-4pm London time

**UNITED STATES**

<b>MB-PB-0006</b>	<b>Lead 99.97% ingot premium, ddp Midwest US, US cents/lb</b>
Quality:	Lead ingot of 99.97% to 99.99% purity conforming to LME specification BS EN 12659:1999, GB/T 469/2005 or ASTM B29-03 (2009)
Quantity:	Min 20 tonnes
Location:	ddp Midwest US
Timing:	Within 5 weeks
Unit:	US cents/lb
Payment terms:	30 days, other payment terms normalized
Publication:	Monthly. First Tuesday 3-4pm London time
<b>MB-PB-0056</b>	<b>Lead 99.97% ingot all-in price, ddp Midwest US, US cents/lb</b>
Quality:	Lead ingot of 99.97% to 99.99% purity conforming to LME specification BS EN 12659:1999, GB/T 469/2005 or ASTM B29-03 (2009)
Quantity:	Min 20 tonnes
Location:	ddp Midwest US
Delivery:	Within 5 weeks
Unit:	US cents per pound
Payment terms:	30 days, other payment terms normalized
Publication:	Daily
Notes:	London Metal Exchange cash lead AM bid price plus Fastmarkets lead premium

**MB-PB-0097**

**Lead 99.97% ingot warrant premium, in-whs US, \$/tonne**  
 Lead cathode of 99.97% to 99.99% purity conforming to LME specification BS EN 12659:1999, GB/T 469/2005 or ASTM B29-03 (2009)

**Quantity:** Min 25 tonnes  
**Location:** In any LME-approved warehouse in the USA, premium on top of LME cash prices

**Timing:** Prompt release  
**Unit:** USD/tonne  
**Payment terms:** Cash, other payment terms normalized

**Publication:** Fortnightly. Weds 3-4pm London time

**Lead 99.97% ingot warrant premium, in-whs US, \$/tonne**

## Nickel ore

Please see **Ores** section.

## Nickel

### CHINA

**MB-NI-0143**
**Nickel min 99.8% full plate premium, in-whs Shanghai, \$/tonne**

**Quality:** Full plate. 99.80% min primary nickel conforming to LME specification: ASTM B39-79 (2013) or GB/T 6516-2010 - Ni9990 grade

**Quantity:** Min 60 tonnes  
**Location:** In-warehouse Shanghai bonded zone, premium on top of LME cash prices

**Timing:** Within 2 weeks  
**Unit:** USD/tonne  
**Payment terms:** Cash against document, Letter of credit, telegraphic transfer, other terms normalized

**Publication:** Weekly. Tuesday 3-4pm London time  
**Notes:** Assessed range and single number

**MB-NI-0142**
**Nickel min 99.8% full plate premium, cif Shanghai, \$/tonne**

**Type:** Assessed range and single number  
**Quality:** Full plate. 99.80% min primary nickel conforming to LME specification: ASTM B39-79 (2013) or GB/T 6516-2010 - Ni9990 grade

**Quantity:** Min 60 tonnes  
**Location:** cif delivery basis Shanghai port, premium on top of LME cash prices

**Timing:** Within 6 weeks  
**Unit:** USD/tonne  
**Payment terms:** Cash against document, Letter of credit, telegraphic transfer, and other terms normalized

**Publication:** Weekly. Tuesday 3-4pm London time

<b>MB-NI-0245</b>	<b>Shanghai, Nickel premium, 99.80% purity, briquette, duty free, cif, \$ per tonne</b>	<b>MB-NI-0139</b>	<b>Nickel min 99.8% full plate warrant premium, in-whs East Asia, \$/tonne</b>
Quality:	Nickel content 99.8% in line with LME specifications	Quality:	Full-plate cathode. 99.80% min primary nickel conforming to LME specification: ASTM B39-79 (2013) or GB/T 6516-2010 - Ni9990 grade
Quantity:	Min 6 tonnes	Quantity:	6 tonnes
Location:	cif China	Location:	In any LME-approved warehouse in Taiwan (Kaohsiung) and South Korea (Gwangyang, Busan or Incheon),
Timing:	Within 8 weeks	Timing:	premium on top of LME cash prices
Unit:	USD/tonne	Unit:	Prompt release
Payment terms:	Letter of credit and telegraphic transfer	Payment terms:	USD/tonne
Publication:	Last Tuesday of each month	Publication:	Cash, other terms normalized
Notes:	Origin = Australia and Madagascar		Fortnightly. Weds 3-4pm London time
<b><u>SOUTHEAST ASIA &amp; EAST ASIA</u></b>			
<b>MB-NI-0137</b>	<b>Nickel min 99.8% full plate warrant premium, in-whs Southeast Asia, \$/tonne</b>	<b>MB-NI-0140</b>	<b>Nickel min 99.8% briquette warrant premium, in-whs East Asia, \$/tonne</b>
Quality:	Full-plate cathode. 99.80% min primary nickel conforming to LME specification: ASTM B39-79 (2013) or GB/T 6516-2010 - Ni9990 grade	Quality:	Briquette. 99.80% min primary nickel conforming to LME specification: ASTM B39-79 (2013) or GB/T 6516-2010 - Ni9990 grade
Quantity:	6 tonnes	Quantity:	6 tonnes
Location:	Any LME-approved warehouse in Singapore and Malaysia (Johor, Port Klang), premium on top of LME cash prices	Location:	In any LME-approved warehouse in Taiwan (Kaohsiung) and South Korea (Gwangyang, Busan or Incheon),
Timing:	Prompt release	Timing:	premium on top of LME cash prices
Unit:	USD/tonne	Unit:	Prompt release
Payment terms:	Cash, other terms normalized	Payment terms:	USD/tonne
Publication:	Fortnightly. Weds 3-4pm London time	Publication:	Cash, other payment terms normalized
			Fortnightly. Weds 3-4pm London time
<b>MB-NI-0138</b>	<b>Nickel min 99.8% briquette warrant premium, in-whs Southeast Asia, \$/tonne</b>	<b><u>EUROPE</u></b>	
Quality:	Briquette. 99.80% min primary nickel conforming to LME specification: ASTM B39-79 (2013) or GB/T 6516-2010 - Ni9990 grade	<b>MB-NI-0003</b>	<b>Nickel uncut cathode premium, in-whs Rotterdam, \$/tonne</b>
Quantity:	6 tonnes	Quality:	Full-plate cathode. 99.80% min primary nickel conforming to LME specification: ASTM B39-79 (2013) or GB/T 6516-2010 - Ni9990 grade
Location:	Any LME-approved warehouse in Singapore/Malaysia (Johor, Port Klang), premium on top of LME cash prices	Quantity:	20 tonnes
Timing:	Prompt release	Location:	In-warehouse Rotterdam, premium on top of LME cash prices
Unit:	USD/tonne	Timing:	Within one week
Payment terms:	Cash, other terms normalized	Unit:	USD/tonne
Publication:	Fortnightly. Weds 3-4pm London time	Payment terms:	Cash, other payment terms normalized
		Publication:	Weekly. Tuesday 3-4pm London time

		<b>UNITED STATES</b>
<b>MB-NI-0001</b>	<b>Nickel 4x4 cathode premium, in-whs Rotterdam, \$/tonne</b>	
Quality:	4x4 cut cathode. 99.80% min primary nickel conforming to LME specification: ASTM B39-79 (2013) or GB/T 6516-2010 - Ni9990 grade	
Quantity:	Min 20 tonnes	
Location:	In-warehouse Rotterdam, premium on top of LME cash prices	
Timing:	Within one week	
Unit:	USD/tonne	
Payment terms:	Cash, other payment terms normalized	
Publication:	Weekly. Tuesday 3-4pm London time	
<b>MB-NI-0002</b>	<b>Nickel briquette premium, in-whs Rotterdam, \$/tonne</b>	
Quality:	Briquette. 99.80% min primary nickel conforming to LME specification: ASTM B39-79 (2013) or GB/T 6516-2010 - Ni9990 grade	
Quantity:	20 tonnes	
Location:	In-warehouse Rotterdam, premium on top of LME cash prices	
Timing:	Within one week	
Unit:	USD/tonne	
Payment terms:	Cash, other payment terms normalized	
Publication:	Weekly. Tuesday 3-4pm London time	
<b>MB-NI-0141</b>	<b>Nickel min 99.8% warrant premium, in-whs North Europe, \$/tonne</b>	
Quality:	Cathode (full-plate, cut), pellet or briquette. 99.80% min primary nickel conforming to LME specification: ASTM B39-79 (2013) or GB/T 6516-2010 - Ni9990 grade	
Quantity:	Min 6 tonnes	
Location:	Any LME-approved warehouse in North Europe (Belgium, Germany, the Netherlands, Sweden and the UK), premium on top of LME cash prices	
Timing:	Prompt release	
Unit:	USD/tonne	
Payment terms:	Cash, other terms normalized	
Publication:	Fortnightly. Weds 3-4pm London time	
<b>MB-NI-0240</b>	<b>Nickel 4x4 cathode premium, delivered consumer works US, US cents/lb</b>	
Quality:	4x4 cut cathode. 99.8% minimum primary nickel conforming to LME specification: ASTM B39-79 (2013) or GB/T 6516-2010 - Ni9990 grade specification: ASTM B39-79 (2013) or GB/T 6516-2010 - Ni9990 grade	
Quantity:	Min 20 tonnes	
Location:	Delivered consumer works US	
Timing:	Within four weeks	
Unit:	US cents per lb	
Payment terms:	30 days, other payment terms normalized	
Publication:	Monthly. First Tuesday 3-4pm London time	
<b>MB-NI-0242</b>	<b>Nickel 4x4 cathode all-in price, delivered consumer works US, US cents/lb</b>	
Quality:	99.8% minimum primary 4x4 cut cathodes conforming to LME specification: ASTM B39-79 (2013) or GB/T 6516-2010 - Ni9990 grade specification: ASTM B39-79 (2013) or GB/T 6516-2010 - Ni9990 grade. Smaller cut cathode dimensions may be normalized.	
Quantity:	Min 20 tonnes	
Location:	Delivered consumer works US	
Delivery:	Within four weeks	
Unit:	US cents per lb	
Payment terms:	30 days, other terms normalized	
Publication:	Daily	
Notes:	London Metal Exchange cash nickel AM bid price plus Fastmarkets nickel 4x4 cathode premium	

<b>MB-NI-0241</b>	<b>Nickel briquette premium, delivered consumer works US, US cents/lb</b>	<b>GLOBAL</b>
Quality:	Briquette. 99.8% minimum primary nickel conforming to LME specification: ASTM B39-79 (2013) or GB/T 6516-2010 - Ni9990 grade specification: ASTM B39-79 (2013) or GB/T 6516-2010 - Ni9990 grade	
Quantity:	Min 20 tonnes	
Location:	Delivered consumer works US	
Timing:	Within four weeks	
Unit:	US cents per lb	
Payment terms:	30 days, other payment terms normalized	
Publication:	Monthly. First Tuesday 3-4pm London time	
<b>MB-NI-0243</b>	<b>Nickel briquette all-in price, delivered consumer works US, US cents/lb</b>	
Quality:	99.8% minimum primary nickel briquettes conforming to LME specification: ASTM B39-79 (2013) or GB/T 6516-2010 - Ni9990 grade specification: ASTM B39-79 (2013) or GB/T 6516-2010 - Ni9990 grade	
Quantity:	Min 20 tonnes	
Location:	Delivered consumer works US	
Delivery:	Within four weeks	
Unit:	US cents per lb.	
Payment terms:	30 days, other terms normalized	
Publication:	Daily	
Notes:	London Metal Exchange cash nickel AM bid price plus Fastmarkets nickel briquette premium	
<b>MB-NI-0256</b>	<b>Nickel low-carbon metal premium, cif global, \$/tonne</b>	
Quality:	Briquette, 99.80% min primary nickel: ASTM B39-79 (2013) or GB/T 6516-2010 - Ni9990 grade Carbon Limit: 18tCO2e per tonne of nickel briquette produced, Scope 1 and 2 emissions, measured following ISO14040 standards or via an independent third party lifecycle assessment (LCA). Additional ESG factors: All assets and third-party feeds should be in compliance to ICMM's Mining Principles and Towards Sustainable Mining, as well as the Initiative for Responsible Mining (IRMA).	
Quantity:	Min 20 tonnes	
Location:	cif global premium, premium on top of exchange or trade platform listed nickel price	
Timing:	Up to 12 months	
Unit:	USD/tonne	
Publication:	Monthly, first working day of the month, 4pm London time	
Notes:	Price will follow the UK pricing calendar and will be assessed from London. Sanctioned material will not be considered for the price assessment.	

# Tin

## SOUTHEAST ASIA & EAST ASIA

<b>MB-SN-0038</b>	<b>Tin 99.9% ingot premium, cif Taiwan, \$/tonne</b>
Quality:	Ingot. 99.9% tin purity conforming to LME specification: BS EN 610:1996 with 100-300 ppm lead content
Quantity:	Min 5 tonnes
Location:	cif delivery basis Taiwanese ports (Taipei, Kaohsiung or Keelung), premium on top of LME cash prices
Timing:	Within 2 weeks
Unit:	USD/tonne
Payment terms:	Cash against document, telegraphic transfer, other terms normalized
Publication:	Once every two weeks. Tuesday 3-4pm London time

<b>MB-SN-0045</b>	<b>Tin 99.9% ingot premium, fob Singapore, \$/tonne</b>
Quality:	Ingot. 99.9% tin purity conforming to LME specification: BS EN 610:1996 with 200-300 ppm lead content
Quantity:	Min 5 tonnes
Location:	fob Singapore, premium on top of LME cash prices
Timing:	Within 2 weeks
Unit:	USD/tonne
Payment terms:	Cash against document, telegraphic transfer, other terms normalized
Publication:	Once every two weeks. Tuesday, 3-4pm London time

<b>MB-SN-0042</b>	<b>Tin min 99.85% ingot warrant premium, in-whs Southeast Asia, \$/tonne</b>
Quality:	Ingot. Minimum 99.85% tin purity conforming to LME specification: BS EN 610:1996, max 500ppm lead
Quantity:	Min 5 tonnes
Location:	In any LME-approved warehouse in Singapore and in Malaysia (Johor, Port Klang), premium on top of LME cash prices
Timing:	Prompt release
Unit:	USD/tonne
Payment terms:	Cash, other payment terms normalized
Publication:	Fortnightly. Weds 3-4pm London time

## EUROPE

<b>MB-SN-0002</b>	<b>Tin 99.9% ingot premium, in-whs Rotterdam, \$ per tonne</b>
Quality:	Ingot. 99.9% tin purity conforming to LME specification: BS EN 610:1996 with 100-300 ppm lead content
Quantity:	Min 20 tonnes
Location:	In-warehouse Rotterdam, premium on top of LME cash prices
Timing:	Within 2 weeks
Unit:	USD/tonne
Payment terms:	Cash against conditional release, other payment terms normalized
Publication:	Once every two weeks. Tuesday 3-4pm London time

<b>MB-SN-0029</b>	<b>Tin 99.9% low lead ingot premium, in-whs Rotterdam, \$/tonne</b>
Quality:	Ingot. 99.9% tin purity conforming to LME specification: BS EN 610:1996 with less than 100 ppm lead content
Quantity:	Min 20 tonnes
Location:	In-warehouse Rotterdam, premium on top of LME cash prices
Timing:	Within 2 weeks
Unit:	USD/tonne
Payment terms:	Cash against conditional release, other payment terms normalized
Publication:	Once every two weeks. Tuesday 3-4pm London time

## UNITED STATES

<b>MB-SN-0036</b>	<b>Tin 99.85% ingot premium, in-whs Baltimore, \$/tonne</b>
Quality:	Ingot. Min 99.85% tin purity conforming to LME specification: BS EN 610:1996, max 500ppm lead, total impurities must not exceed 0.15%
Quantity:	Min 20 tonnes
Location:	In-warehouse Baltimore, premium on top of LME cash prices
Unit:	USD/tonne
Payment terms:	Cash against documents, other payment terms normalized
Publication:	Monthly. First Tuesday 3-4pm London time

<b>MB-SN-0011</b>	<b>Tin grade A min 99.85% ingot premium, ddp Midwest US, \$/tonne</b>
Quality:	Delivered premium over cost of tin of 99.85% purity (min) conforming to BS EN 610:1996, max 500ppm lead, total impurities must not exceed 0.15%
Quantity:	Min 20 tonnes
Location:	ddp Midwest US
Timing:	Within 2 weeks
Unit:	US dollars per tonne
Payment terms:	30-days, other terms normalized
Publication:	Monthly. First Tuesday 3-4pm London time
<b>MB-SN-0012</b>	<b>Tin grade A min 99.85% ingot all-in price, ddp Midwest US, \$/tonne</b>
Quality:	Ingot. Min 99.85% tin purity conforming to LME specification BS EN 610:1996 and ASTM grade A, max 500ppm lead, total impurities must not exceed 0.15%
Quantity:	Min 20 tonnes
Location:	ddp Midwest US
Timing:	Within 2 weeks
Unit:	USD/tonne
Payment terms:	30 days, other payment terms normalized
Publication:	Daily
Notes:	London Metal Exchange cash tin AM bid price plus Fastmarkets tin grade A premium

## Zinc concentrate

### CHINA

<b>MB-ZN-0110</b>	<b>Zinc spot concentrate TC, cif China, \$/per tonne</b>
Quality:	45-55% zinc content, low silver (0-170g/t), silica 3.5-4.5%, copper below 3% (high copper 4-5%), lead below 3.5% (total copper, lead, silica at max 6-7%), arsenic below 0.6%, cadmium below 0.33% and mercury below 0.06%
Quantity:	Min 2,000 tonnes
Location:	cif Chinese ports
Timing:	Within 13 weeks
Unit:	USD/tonne
Payment terms:	Letter of Credit, quotation period M+3
Publication:	Second and last Friday of each month
<b>MB-ZN-0120</b>	<b>Zinc concentrate TC spot, delivered North China, yuan/tonne</b>
Quality:	Concentrate. Zn 50%, As <0.4%, Hg <100ppm, Si <6%, S >26%, Pb <3%, Fe <8%.
Quantity:	Min 100 tonnes
Location:	Treatment Charge on delivered basis
Unit:	CNY/tonne
Payment terms:	Cash against document or prepayment
Publication:	Monthly. Last Friday of every month.
<b>MB-ZN-0121</b>	<b>Zinc concentrate TC spot, delivered South China, yuan/tonne</b>
Quality:	Concentrate. Zn content 50%, As <0.4%, Hg <100ppm, Si <6%, S >26%, Pb <3%, Fe <8%.
Quantity:	Min 100 tonnes
Location:	Treatment Charge on delivered basis
Unit:	CNY/tonne
Payment terms:	Cash against document or prepayments
Publication:	Monthly. Last Friday of every month.

# Refined zinc

## CHINA

<b>MB-ZN-0119</b>	<b>Zinc min 99.995% ingot premium, in-whs Shanghai, \$/tonne</b>
Quality:	Special High Grade zinc ingot of minimum 99.995% purity, conforming to LME specifications and relevant standards: BS EN 1179:2003, ISO 752:2004 - ZN-1 grade, ASTM B6-12 - LME grade or GB/T 470-2008
Quantity:	Min 25 tonnes
Location:	In-warehouse Shanghai bonded zone, premium on top of LME cash prices
Timing:	Within 4 weeks
Unit:	USD/tonne
Payment terms:	Letter of credit, telegraphic transfer or documents against payment, other payment terms normalized
Publication:	Weekly. Tuesday 3-4pm London time
Notes:	Assessed range and assessed single number
<b>MB-ZN-0106</b>	<b>Zinc SHG min 99.995% ingot premium, cif Shanghai, \$/per tonne</b>
Quality:	Special High Grade zinc ingot of minimum 99.995% purity, conforming to LME specifications and relevant standards: BS EN 1179:2003, ISO 752:2004 - ZN-1 grade, ASTM B6-12 - LME grade or GB/T 470-2008
Quantity:	Min 25 tonnes
Location:	cif Shanghai port, premium on top of LME cash prices
Timing:	Within 4 weeks
Unit:	USD/tonne
Payment terms:	Letter of credit, telegraphic transfer or documents against payment, other payment terms normalized
Publication:	Once every two weeks. Tuesday 3-4pm London time

**MB-ZN-0116**
**Zinc SHG 99.995% ingot premium, cif Taiwan \$/tonne**

Quality:	Special High Grade zinc ingot of minimum 99.995% purity, conforming to LME specifications and relevant standards: BS EN 1179:2003, ISO 752:2004 - ZN-1 grade, ASTM B6-12 - LME grade or GB/T 470-2008
Quantity:	Min 25 tonnes
Location:	cif Taiwanese ports, premium on top of LME cash prices
Timing:	Within 4 weeks
Unit:	USD/tonne
Payment terms:	Letter of credit, telegraphic transfer or documents against payment, other payment terms normalized
Publication:	Once every two weeks. Tuesday 3-4pm London time

## SOUTHEAST ASIA & EAST ASIA

<b>MB-ZN-0113</b>	<b>Zinc SHG 99.995% ingot premium, fca Singapore, \$/per tonne</b>
Quality:	Special High Grade zinc ingot of minimum 99.995% purity, conforming to LME specifications and relevant standards: BS EN 1179:2003, ISO 752:2004 - ZN-1 grade, ASTM B6-12 - LME grade or GB/T 470-2008
Quantity:	Min 25 tonnes
Location:	fca Singapore, premium on top of LME cash price
Timing:	Within 4 weeks
Unit:	USD/tonne
Payment terms:	Letter of credit or telegraphic transfer, other terms normalized
Publication:	Once every two weeks. Tuesday 3-4pm London time

<b>MB-ZN-0115</b>	<b>Zinc SHG 99.995% ingot premium, fca Malaysia, \$/per tonne</b>	<b>MB-ZN-0123</b>	<b>Zinc SHG min 99.995% warrant premium, in-whs Southeast Asia, \$/tonne</b>
Quality:	Special High Grade zinc ingot of minimum 99.995% purity, conforming to LME specifications and relevant standards: BS EN 1179:2003, ISO 752:2004 - ZN-1 grade, ASTM B6-12 - LME grade or GB/T 470-2008	Quality:	Special High Grade zinc ingot of minimum 99.995% purity, conforming to LME specifications and relevant standards: BS EN 1179:2003, ISO 752:2004 - ZN-1 grade, ASTM B6-12 - LME grade or GB/T 470-2008
Quantity:	Min 25 tonnes	Quantity:	Min 100 tonnes
Location:	fca main Malaysian ports (Johor, Port Klang), premium on top of LME cash price	Location:	Any LME-approved warehouse in Singapore/Malaysia (Johor, Port Klang), premium on top of LME cash prices
Timing:	Within 4 weeks	Timing:	Prompt release
Unit:	USD/tonne	Unit:	USD/tonne
Payment terms:	Letter of credit or telegraphic transfer, other terms normalized	Payment terms:	Cash, other payment terms normalized
Publication:	Once every two weeks. Tuesday 3-4pm London time	Publication:	Fortnightly. Weds 3-4pm London time
<b>MB-ZN-0093</b>	<b>Zinc SHG min 99.995% ingot premium, cif Southeast Asia, \$/tonne</b>	<b>EUROPE</b>	
Quality:	Special High Grade zinc ingot of minimum 99.995% purity, conforming to LME specifications and relevant standards: BS EN 1179:2003, ISO 752:2004 - ZN-1 grade, ASTM B6-12 - LME grade or GB/T 470-2008	<b>MB-ZN-0001</b>	<b>Zinc SHG min 99.995% ingot premium, dp fca Rotterdam, \$/tonne</b>
Quantity:	Min 25 tonnes	Quality:	Special High Grade zinc ingot of minimum 99.995% purity, conforming to LME specifications and relevant standards: BS EN 1179:2003, ISO 752:2004 - ZN-1 grade, ASTM B6-12 - LME grade or GB/T 470-2008
Location:	cif ports in Vietnam (Ho Chi Minh/ Haiphong), Thailand (Bangkok, Laem Chabang), Malaysia (Johor, Port Klang), Indonesia (Jakarta), duty-unpaid premium on top of LME cash prices	Quantity:	Min 100 tonnes
Timing:	Within 4 weeks	Location:	Free-carrier basis delivery in Rotterdam, duty-paid premium on top of LME cash prices
Unit:	USD/tonne	Timing:	Within 4 weeks
Payment terms:	Letter of credit or telegraphic transfer, other terms normalized	Unit:	USD/tonne
Publication:	Once every two weeks Tuesday 3-4pm London time	Payment terms:	Cash, other payment terms normalized
		Publication:	Weekly. Tuesday 3-4pm London time

<b>MB-ZN-0099</b>	<b>Zinc SHG min 99.995% ingot premium, dp fca Antwerp, \$/tonne</b> Special High Grade zinc ingot of minimum 99.995% purity, conforming to LME specifications and relevant standards: BS EN 1179:2003, ISO 752:2004 - ZN-1 grade, ASTM B6-12 - LME grade or GB/T 470-2008 Min 100 tonnes Free-carrier basis delivery in Antwerp, duty-unpaid premium on LME cash prices Within 4 weeks USD/tonne Cash, other terms normalized Weekly. Tuesday 3-4pm London time	<b>MB-ZN-0117</b> Quality: Special High Grade zinc ingot of minimum 99.995% purity, conforming to LME specifications and relevant standards: BS EN 1179:2003, ISO 752:2004 - ZN-1 grade, ASTM B6-12 - LME grade or GB/T 470-2008 Min 100 tonnes In any LME-approved warehouse in North European locations (Belgium, Germany, the Netherlands, Sweden and the UK), premium on top of LME cash prices Prompt release USD/tonne Cash, other payment terms normalized Fortnightly. Weds 3-4pm London time	<b>Zinc SHG min 99.995% warrant premium, in-whs North Europe, \$/tonne</b> Special High Grade zinc ingot of minimum 99.995% purity, conforming to LME specifications and relevant standards: BS EN 1179:2003, ISO 752:2004 - ZN-1 grade, ASTM B6-12 - LME grade or GB/T 470-2008 Min 100 tonnes In any LME-approved warehouse in North European locations (Belgium, Germany, the Netherlands, Sweden and the UK), premium on top of LME cash prices Prompt release USD/tonne Cash, other payment terms normalized Fortnightly. Weds 3-4pm London time
<b>MB-ZN-0103</b>	<b>Zinc SHG min 99.995% ingot premium, fca dp Italy, \$/tonne</b> Special High Grade zinc ingot of minimum 99.995% purity, conforming to LME specifications and relevant standards: BS EN 1179:2003, ISO 752:2004 - ZN-1 grade, ASTM B6-12 - LME grade or GB/T 470-2008 Min 100 tonnes Free-carrier basis delivery in Italy, duty-paid premium on top of LME cash prices Within 4 weeks USD/tonne Cash, other terms normalized Fortnightly. Tuesday 3-4pm London time	<b>MB-ZN-0082</b> Quality: Special High Grade zinc ingot of minimum 99.995% purity, conforming to LME specifications and relevant standards: BS EN 1179:2003, ISO 752:2004 - ZN-1 grade, ASTM B6-12 - LME grade or GB/T 470-2008 Min 25 tonnes Delivered customer works basis in the UK; all-in price including average of LME GBP cash settlements for the last ten days of the previous month and assessed term premiums for UK delivery (either delivered customer works or FCA Rotterdam plus transport, warehousing, delivery and financing costs) GBP/tonne Cash, other payment terms normalized Monthly. 1st working day of the month between 1pm and 2pm London time	<b>Zinc SHG min 99.995% ingot premium monthly average, delivered UK, £/tonne</b> Special High Grade zinc ingot of minimum 99.995% purity, conforming to LME specifications and relevant standards: BS EN 1179:2003, ISO 752:2004 - ZN-1 grade, ASTM B6-12 - LME grade or GB/T 470-2008 Min 25 tonnes Delivered customer works basis in the UK; all-in price including average of LME GBP cash settlements for the last ten days of the previous month and assessed term premiums for UK delivery (either delivered customer works or FCA Rotterdam plus transport, warehousing, delivery and financing costs) GBP/tonne Cash, other payment terms normalized Monthly. 1st working day of the month between 1pm and 2pm London time
<b>MB-ZN-0102</b>	<b>Zinc SHG min 99.995% ingot premium, ddp Italy, \$/per tonne</b> Special High Grade zinc ingot of minimum 99.995% purity, conforming to LME specifications and relevant standards: BS EN 1179:2003, ISO 752:2004 - ZN-1 grade, ASTM B6-12 - LME grade or GB/T 470-2008 Min 100 tonnes Delivered duty paid consumer works in Italy, premium on LME cash prices Within 4 weeks USD/tonne Cash, other terms normalized Fortnightly. Tuesday 3-4pm London time	 Unit: Payment terms: Publication: Notes:	 Notes: This partly-assessed single number was launched in 2013 as a replacement to the Thyssenkrupp Metallurgie UK SHG zinc price, which had been discontinued.

**UNITED STATES**

<b>MB-ZN-0005</b>	<b>Zinc SHG min 99.995% ingot premium, ddp Midwest US, US cents/lb</b>
Quality:	Min 99.995% special high grade zinc ingot, conforming to LME specifications and relevant BS EN 1179: 2003 standards
Quantity:	Min 20 tonnes
Location:	ddp Midwest US
Timing:	Within 4 weeks
Unit:	US cents per pound
Payment terms:	30 days, other payment terms normalized
Publication:	Weekly. Tuesday 3-4pm London time
<b>MB-ZN-0061</b>	<b>Zinc SHG min 99.995% ingot all-in price, ddp Midwest US, US cents/lb</b>
Quality:	Min 99.995% special high grade zinc ingot, conforming to BS EN 1179: 2003
Quantity:	Min 20 tonnes
Location:	ddp Midwest US
Unit:	US cents per pound
Payment terms:	30 days, other payment terms normalized
Publication:	Daily
Notes:	London Metal Exchange cash zinc AM bid price plus Fastmarkets zinc premium
<b>MB-ZN-0104</b>	<b>Zinc SHG min 99.995% warrant premium, in-whs US, \$/per tonne</b>
Quality:	Special High Grade zinc ingot of minimum 99.995% purity, conforming to LME specifications and relevant standards: BS EN 1179:2003, ISO 752:2004 - ZN-1 grade, ASTM B6-12 - LME grade or GB/T 470-2008
Quantity:	25 tonnes
Location:	In any LME-approved warehouse in the US, premium on top of LME cash prices
Timing:	Prompt release
Unit:	USD/tonne
Payment terms:	Cash, other payment terms normalized
Publication:	Fortnightly. Weds 3-4pm London time

**Bulk alloys**
**Ferro-chrome**
**CHINA**

<b>MB-FEC-0011</b>	<b>Ferro-chrome 50% Cr import, cif main Chinese ports, \$/lb contained Cr</b>
Quality:	10-100mm lump. Chrome base 50%, range 48-52%; carbon base 7%, max 9%; silicon base 3%, max 6%; phosphorous max 0.03%; sulphur max 0.06%.
Quantity:	Min 1,000 tonnes
Location:	cif main Chinese ports
Timing:	Within 6 weeks
Unit:	USD per lb
Payment terms:	LC at sight
Publication:	Weekly. Tuesday 2-3pm London time
Notes:	Seaborne, all origins. Data history from May 2012
<b>MB-FEC-0005</b>	<b>Ferro-chrome contract 6-8% C, basis 50% Cr, ddp China, yuan/tonne</b>
Quality:	Lump. Cr 50% min; C 6-8%; Si: 5% max; P 0.04% max; S 0.04% max
Quantity:	Min 1,000 tonnes
Location:	ddp China
Unit:	CNY/tonne, normalized to Cr 50%
Payment terms:	Cash, other payment terms normalized
Publication:	Weekly. Tuesday 5-6pm Shanghai time
<b>MB-FEC-0006</b>	<b>Ferro-chrome spot 6-8% C, basis 50% Cr, ddp China, yuan/tonne</b>
Quality:	Lump. Cr 50% min, C 6-8%, Si 5% max, P 0.04% max, S 0.04% max
Quantity:	Min 1,000 tonnes
Location:	ddp China
Unit:	CNY/tonne, normalized to Cr 50%
Payment terms:	Cash, other payment terms normalized
Publication:	Weekly. Tuesday 5-6pm Shanghai time

**SOUTHEAST ASIA & EAST ASIA**
**MB-FEC-0017 Ferro-chrome high carbon 57-65%**
**Cr, cif dup Japan, \$/lb**

Quality: 10-50mm lump. Cr 57% min, 65% max; C 6% min, 9% max; Si 2% min, 4% max; P 0.04% max; S 0.05% max

Quantity: Min 100 tonnes

Location: cif Japan

Unit: USD per lb of chrome contained

Payment terms: LC at sight and TT

Publication: Every other week. Thursday 5-6pm Shanghai time

**MB-FEC-0018 Ferro-chrome high carbon 57-65%**
**Cr, cif dup South Korea, \$/lb**

Quality: 10-50mm lump. Cr 57% min, 65% max; C 6% min, 9% max; Si 2% min, 4% max; P 0.04% max; S 0.05% max

Quantity: Min 100 tonnes

Location: cif South Korea

Unit: USD per lb of chrome contained

Payment terms: LC at sight and TT

Publication: Every other week. Thursday 5-6pm Shanghai time

**MB-FEC-0023 Ferro-chrome 50% Cr import, cif Indonesia, \$/lb**

Quality: 10-100mm lump. Chrome base 50%, range 48-52%; carbon case 7%, max 9%; silicon base 3%, max 6%; phosphorous max 0.03%; sulphur max 0.06%

Quantity: Min 100 tonnes

Location: cif Indonesian main ports

Timing: Within 6 weeks

Unit: USD per lb

Payment terms: LC/DP

Publication: Fortnightly. Thursday 5-6pm Shanghai time

**MB-FEC-0025**
**Green ferroalloy domestic, ferro-chrome 6-8% C, 50% Cr, differential to FeCr assessment, ddp China, yuan/tonne**

Quality: Scope 1-3 emissions of 0-3 tonnes of CO<sub>2</sub>, composite energy intensity: ≤850 kilogram coal equivalent per tonne, electricity consumption: ≤3300 kWh per tonne, chrome element usage rate: ≥90%, water recycling rate: ≥95%, allowable emission concentration: ≤30 milligram per cubic meter, slag treatment: 100%, 0 wastewater discharge

Quantity: Min 3 tonnes

Location: ddp China

Timing: Open

Unit: CNY/tonne, normalized to Cr 50%

Publication: Weekly. Tuesday 5-6pm Shanghai time

**MB-FEC-0026**
**Green ferroalloy domestic, ferro-chrome 6-8% C, 50% Cr, weekly inferred price, ddp China, yuan/tonne**

Quality: Scope 1-3 emissions of 0-3 tonnes of CO<sub>2</sub>, composite energy intensity: ≤850 kilogram coal equivalent per tonne, electricity consumption: ≤3300 kWh per tonne, chrome element usage rate: ≥90%, water recycling rate: ≥95%, allowable emission concentration: ≤30 milligram per cubic meter, slag treatment: 100%, 0 wastewater discharge

Quantity: Min 3 tonnes

Location: ddp China

Timing: Open

Unit: CNY/tonne, normalized to Cr 50%

Publication: Weekly. Tuesday 5-6pm Shanghai time

**EUROPE**
**MB-FEC-0021**
**Ferro-chrome, high carbon,  
6-8.5% C, basis 65-70% Cr, max  
1.5% Si, delivered Europe, \$ per lb  
Cr**

Quality: Lump, Cr 65-70%, C 6-8.5%, Si 1.5%.  
 Quantity: Min 24 tonnes  
 Location: ddp consumer works Europe (other  
 incoterms will be normalized)  
 Unit: USD per lb of chrome contained  
 Payment terms: 30 days, other payment terms  
 normalized  
 Publication: Weekly, Tuesday at 2-3pm London  
 time  
 Notes: CBAM costs, if any, are included as a  
 duty paid.

**MB-FEC-0020**
**Ferro-chrome, high carbon,  
6-8.5% C, basis 60-64.9% Cr,  
max 3% Si, cif Europe, \$ per lb Cr**

Quality: Lump, Cr 60-64.9%, C 6-8.5%, Si 3%  
 max.  
 Quantity: Min 24 tonnes  
 Location: cif major European ports (other  
 incoterms will be normalized)  
 Unit: USD per lb of chrome contained  
 Payment terms: 30 days, other payment terms  
 normalized  
 Publication: Weekly, Tuesday at 2-3pm London  
 time

**MB-FEC-0024**
**Ferro-chrome 50% Cr, delivered  
Europe, \$/lb Cr**

Quality: Lump. Chrome base 50%, range  
 47-56%; carbon base 6.5%, max  
 9%; silicon base 3%, max 6%;  
 phosphorous max 0.03%; sulphur  
 max 0.06%.  
 Quantity: Min 100 tonnes  
 Location: ddp consumer works Europe (other  
 incoterms will be normalized)  
 Unit: USD per lb contained Cr  
 Payment terms: 30 days, other payment terms  
 normalized  
 Publication: Weekly, Tuesday 2-3pm London time  
 Notes: CBAM costs, if any, are included as a  
 duty paid.

**MB-FEC-0002**
**Ferro-chrome low carbon, 65% Cr,  
max 0.06% C, delivered Europe,  
\$/lb Cr**

Quality: Lump. Cr 65% basis (range 60-70%  
 Cr), C 0.06% max, Si 1.5% max, P  
 0.05% max, S 0.05% max  
 Quantity: Min 25 tonnes  
 Location: ddp consumer works Europe  
 Unit: USD per lb of chrome contained  
 Payment terms: 30 days, other payment terms  
 normalized  
 Publication: Fortnightly. Tuesday between 2pm  
 and 3pm London time  
 Notes: CBAM costs, if any, are included as a  
 duty paid.

**MB-FEC-0003**
**Ferro-chrome 0.10% C, average  
65-70% Cr, delivered Europe,  
\$/lb Cr**

Quality: Lump. Cr 65% basis (range 65-70%  
 Cr), C 0.10% excluding material up to  
 0.06% C, Si 1.5% max, P 0.03% max,  
 S 0.03% max  
 Quantity: Min 25 tonnes  
 Location: ddp consumer works Europe  
 Unit: USD per lb of chrome contained  
 Payment terms: 30 days, other payment terms  
 normalized  
 Publication: Fortnightly. Tuesday 2-3pm London  
 time  
 Notes: CBAM costs, if any, are included as a  
 duty paid.

**MB-FEC-0022**
**Ferro-chrome low carbon, 0.10%  
C, basis 60-64.9% Cr, CIF Europe,  
\$ per lb Cr**

Quality: Lump, Cr 60-64.9%, C 0.10%, Si 1.5%  
 max, P 0.03% max, S 0.03% max  
 Quantity: Min 25 tonnes  
 Location: CIF Europe  
 Unit: USD per lb of chrome contained  
 Payment terms: 30 days, other payment terms  
 normalized  
 Publication: Fortnightly. Tuesday 2-3pm London  
 time

<b>MB-FEC-0001</b>	<b>Ferro-chrome low phosphorous, min 65% Cr, max 0.015% P, delivered Europe, \$/lb</b>	<b>MB-FEC-0019</b>	<b>Ferro-chrome lumpy Cr benchmark indicator, charge basis 52% (and high carbon), Europe, \$/lb</b>
Quality:	Lump. Cr 65% min, Si 1% max, C 6-8%, P 0.015% max, Ti 0.05%	Quality:	Ferro-chrome lumpy, basis 52% chrome content
Quantity:	Min 25 tonnes	Unit:	US cents per lb of chrome content to major European destinations
Location:	ddp consumer works Europe	Publication:	Weekly. Tuesday 2-3pm London time
Unit:	USD per lb of chrome contained	Notes:	The price indicates a representative level for the European ferro-chrome benchmark if it were to be settled on that Tuesday. It does so by using a proprietary Fastmarkets formula based on the historical relationship between the European ferro-chrome benchmark and Fastmarkets market data.
Payment terms:	30 days, other payment terms normalized		
Publication:	Fortnightly. Tuesday 2-3pm London time		
Notes:	CBAM costs, if any, are included as a duty paid.		
<b>MB-FEC-0016</b>	<b>Ferro-chrome lumpy Cr charge quarterly, basis 52% Cr (and high carbon), delivered Europe, \$/lb Cr</b>		
Quality:	Lump. Basis 52% Cr, high carbon		
Quantity:	Min not specified		
Location:	Delivered consumer works Europe		
Unit:	US cents per lb of chrome contained		
Payment terms:	Not specified		
Publication:	Quarterly as per industry announcement to Johannesburg Stock Exchange		
Notes:	Fastmarkets does not independently assess this price, but publishes it as a reference. The price is settled every quarter by leading ferro-chrome producers and consumers and is then announced by a leading producer to the Johannesburg Stock Exchange. Fastmarkets obtains the benchmark number from market participants and/or from the official announcement.		
		<b>UNITED STATES</b>	
		<b>MB-FEC-0007</b>	<b>Ferro-chrome high carbon 6-8% C, basis 60-65% Cr, max 2% Si, in-whs Pittsburgh, US cents/lb</b>
		Quality:	Cr min: 62.00%, si: max. 3.00%, C: 6.00- 8.00%
		Quantity:	Min 20 tons
		Location:	fob Pittsburgh
		Unit:	US cents per pound
		Publication:	Weekly. Thursday
		<b>MB-FEC-0008</b>	<b>Ferro-chrome low carbon 0.05% C, 65% Cr min, in-whs Pittsburgh, US cents/lb</b>
		Quality:	Cr min: 65.00%, Ca: 0.05%, Si: max 1.00%
		Quantity:	20 tons
		Location:	In-whs Pittsburgh
		Unit:	US cents per pound
		Publication:	Weekly. Thursday
		<b>MB-FEC-0009</b>	<b>Ferro-chrome low carbon 0.10% C, 62% Cr min, in-whs Pittsburgh, US cents/lb</b>
		Type:	Assessed range
		Currency:	US cents per pound
		Location:	In-whs Pittsburgh
		Quality:	Cr min 62.00%, C: 0.10%, Si max: 1.00%
		Minimum lot size:	20 tons
		Publication:	Weekly. Thursday

<b>MB-FEC-0010</b>	<b>Ferro-chrome low carbon 0.15%C, 60% Cr min, in-whs Pittsburgh, US cents/lb</b>
Type:	Assessed range
Currency:	US cents per pound
Location:	In-whs Pittsburgh
Quality:	Cr: min. 60.00%, C: 0.15%, Si: max. 1.00%
Minimum lot size:	20 tons
Publication:	Weekly. Thursday

**MB-FEM-0008**
**Green ferroalloy domestic, ferro-manganese max 7% C, 65% Mn min, differential to FeMn assessment, in-whs China, yuan/tonne**

Quality:	Scope 1-3 emissions of 0-3 tonnes of CO2, composite energy intensity: ≤660 kilogram coal equivalent per tonne, electricity consumption: ≤2400 kWh per tonne, manganese element usage rate: ≥95%, water recycling rate: ≥95%, allowable emission concentration: ≤30 milligram per cubic meter, slag treatment: 100%, 0 wastewater discharge
Quantity:	Min 3 tonnes
Location:	In-whs China
Timing:	Open
Unit:	CNY/tonne, normalized to Mn 65%
Publication:	Weekly. Friday 5-6pm Shanghai time

## Ferro-manganese

**EUROPE**

<b>MB-FEM-0006</b>	<b>Ferro-manganese basis 78% Mn max, standard 7.5% C, delivered Europe, €/tonne</b>
Quality:	Lump in the range of 10-100mm, 90% min. Mn 75% min, 78% max; Si 2% max; C 6% min 8% max; P 0.35% max; S 0.04% max
Quantity:	Min 100 tonnes
Location:	Delivered consumer works Europe
Unit:	EUR/tonne
Payment terms:	Cash, other payment terms normalized
Publication:	Weekly. Friday between 2pm and 3pm London time

**MB-FEM-0009**
**Green ferroalloy domestic, ferro-manganese max 7% C, 65% Mn min, weekly inferred price, in-whs China, yuan/tonne**

Quality:	Scope 1-3 emissions of 0-3 tonnes of CO2, composite energy intensity: ≤660 kilogram coal equivalent per tonne, electricity consumption: ≤2400 kWh per tonne, manganese element usage rate: ≥95%, water recycling rate: ≥95%, allowable emission concentration: ≤30 milligram per cubic meter, slag treatment: 100%, 0 wastewater discharge
Quantity:	Min 3 tonnes
Location:	In-whs China
Timing:	Open
Unit:	CNY/tonne, normalized to Mn 65%
Publication:	Weekly. Friday 5-6pm Shanghai time

**CHINA**

<b>MB-FEM-0007</b>	<b>Ferro-manganese 65% Mn min, max 7% C, in-whs China, yuan/tonne</b>
Quality:	Lump. Mn 65-72%, Si 4.5% max, C 7.0% max, P 0.4% max, S 0.03% max
Quantity:	Min 100 tonnes
Location:	In-whs China
Unit:	CNY/tonne, all Mn grades normalized to 65% on pro rata basis
Payment terms:	Cash, other payment terms normalized
Publication:	Weekly, Friday 5-6pm Shanghai time

**UNITED STATES**

<b>MB-FEM-0001</b>	<b>Ferro-manganese high carbon 78% Mn, standard 7.5% C, in-whs Pittsburgh, \$/long ton</b>
Quality:	Mn 780%, C 7.5%
Quantity:	Min 20 tons
Unit:	US dollars per long ton
Location:	In-warehouse Pittsburgh
Frequency:	Weekly, Thursday
<b>MB-FEM-0002</b>	<b>Ferro-manganese low carbon 80% Mn, max 0.80% C, in-whs Pittsburgh, US cents/lb</b>
Quality:	Manganese min. 80.00%, carbon max. 0.80%
Quantity:	Min 20 tons
Location:	In-warehouse Pittsburgh
Unit:	US cents per pound
Publication:	Once a week, every Thursday
<b>MB-FEM-0003</b>	<b>Ferro-manganese medium carbon 80% Mn, max 1.50% C, in-whs Pittsburgh, US cents/lb</b>
Quality:	Manganese min 80%, carbon max 1.50%
Quantity:	Min 20 tons
Unit:	US cents per pound
Location:	In-whs Pittsburgh
Frequency:	Weekly, Thursday

**Ferro-silicon**
**UNITED STATES**

<b>MB-FES-0002</b>	<b>Ferro-silicon 75% Si, in-whs Pittsburgh, US cents/lb</b>
Quality:	Silicon 75.00%
Quantity:	Min 20 tons
Location:	In-warehouse Pittsburgh
Unit:	US cents per pound
Publication:	Weekly. Thursday

**CHINA**

<b>MB-FES-0001</b>	<b>Ferro-silicon 75% Si min, in-whs China, yuan/tonne</b>
Quality:	Lump. Si 75-80%, Mn 0.4% max, Al: 2% max, Cr 0.3% max, P 0.035% max, S 0.02% max, C 0.1% max
Quantity:	100 tonnes
Location:	In-whs China
Unit:	CNY/tonne, price for all Si grades normalized to 75% on pro rata basis
Payment terms:	Cash, other payment terms normalized
Publication:	Weekly. Wednesday 2-3pm London time
<b>MB-FES-0004</b>	<b>Ferro-silicon 75% Si min export, fob China, \$/tonne</b>
Quality:	Lump. Si 75-80%, Mn 0.4% max, Al 2% max, Cr 0.3% max, P 0.035% max, S 0.02% max, C 0.1% max
Quantity:	100 tonnes
Location:	fob China main ports
Unit:	USD/tonne, normalized to 75% Si on pro rata basis
Payment terms:	Cash, other payment terms normalized
Publication:	Weekly. Wednesday 2-3pm London time

**JAPAN**

<b>MB-FES-0006</b>	<b>Ferro-silicon 75% Si min, cif Japan, \$/tonne</b>
Quality:	Lump. Si 75-80%; Al 2% max; P 0.05% max; S 0.02% max; C 0.2% max; size: 10-50mm
Quantity:	Min 100 tonnes
Location:	cif Japan
Unit:	USD per tonne
Payment terms:	Cash or letter of credit
Publication:	Weekly. Wednesday 2-3pm London time

**EUROPE**

<b>MB-FES-0005</b>	<b>Ferro-silicon lumpy basis 75% Si (scale pro rata), delivered Europe, €/tonne</b>
Quality:	Lump. Si 75% basis (scale pro rata), Al 1.5% max, C 0.10-0.15% max, Ca 0.6% max, Ti 0.15% max, P 0.02% max, S 0.025% max
Quantity:	Min 100 tonnes
Location:	Delivered consumer works Europe
Unit:	EUR/tonne
Payment terms:	Cash, other terms normalized
Publication:	Weekly. Friday 2-3pm London time

# Silico-manganese

**EUROPE**

<b>MB-SIM-0002</b>	<b>Silico-manganese lumpy 65-75% Mn, basis 15-19% Si (scale pro rata), major European destinations €/tonne</b>
Quality:	Lump. Mn 65-75% (Scale pro rata), Si 15-19%, C 2-2.5%, P 0.3%, S 0.03%
Quantity:	Min 100 tonnes
Location:	Delivered consumer works Europe
Unit:	EUR/tonne
Payment terms:	Cash, other terms normalized
Publication:	Weekly. Friday 2-3pm London time

**CHINA**

<b>MB-SIM-0001</b>	<b>Silico-manganese 65% Mn min, max 17% Si, in-whs China, yuan/tonne</b>
Quality:	Lump. Mn 65-72%, Si 17%, C 1.8% max, P 0.25% max, S 0.04% max
Quantity:	Min 100 tonnes
Location:	ddp China
Unit:	CNY/tonne, all Mn grades normalized to 65% basis on pro rata basis
Payment terms:	Cash, other terms normalized
Publication:	Weekly. Friday 5-6pm Shanghai time

**INDIA**

<b>MB-SIM-0004</b>	<b>Silico-manganese 65% Mn min, min 16% Si, fob India, \$/tonne</b>
Quality:	Lump. Mn: 65% Si: 16% C: 2% P:0.35% S:0.03%
Quantity:	Min 100 tonnes
Location:	fob India
Unit:	USD/tonne
Payment terms:	Letter of Credit
Publication:	Weekly. Friday 2-3pm London time

**UNITED STATES**

<b>MB-SIM-0003</b>	<b>Silico-manganese 65% Mn min, min 16% Si, in-whs Pittsburgh, US cents/lb</b>
Quality:	Manganese min 65%, Si min 16%
Quantity:	20 tons
Location:	In-warehouse Pittsburgh
Unit:	US cents per pound
Publication:	Weekly. Thursday

## Ferro-nickel

### CHINA

<b>MB-FEN-0003</b>	<b>Ferro-nickel premium/discount, 26-32% Ni contained, cif China, \$/tonne</b>
Quality:	Ni typical 30% (range 26%-32%), P 0.0045% max, S 0.060% max
Quantity:	Min 100 nickel metal tonnes per lot
Location:	cif China
Unit:	USD/tonne
Payment terms:	Cash, other payment terms normalized
Publication:	Fortnightly, Monday 7pm Shanghai time
Notes:	Ferro-nickel price = (LME Ni price + premium/ discount) x nickel content
<b>MB-FEN-0006</b>	<b>Ferro-nickel 20-25% nickel contained, outright price, cif China, \$/tonne</b>
Quality:	Ferro-nickel, 20-25% Ni, S 0.07% max, P 0.05% max
Quantity:	Min 100 nickel metal tonnes per lot
Location:	CIF China
Unit:	USD/tonne
Payment terms:	Cash, other payment terms normalized
Publication:	Fortnightly, Monday 7pm Shanghai time
Notes:	In the absence of data, Fastmarkets will calculate this price based upon the premium/discount to London Metal Exchange nickel price.
<b>MB-FEN-0007</b>	<b>Ferro-nickel 20-25% nickel contained, premium/discount, cif China, \$/tonne</b>
Quality:	Ferro-nickel, 20-25% Ni, S 0.07% max, P 0.05% max
Quantity:	Min 100 nickel metal tonnes per lot
Location:	CIF China
Unit:	USD/tonne
Payment terms:	Cash, other payment terms normalized
Publication:	Fortnightly, Monday 7pm Shanghai time

## Nickel Pig Iron

### CHINA

<b>MB-FEN-0001</b>	<b>Nickel pig iron, high-grade NPI content 10-15%, contract, ddp China, yuan/nickel unit price</b>
Quality:	Lump. Ni10-15%, Fe 80%, P 0.04% max, S 0.03% max, Si 4.5% max, C 4% max
Quantity:	Min 1,000 tonnes
Location:	Delivered duty paid China
Unit:	Yuan/nickel unit
Payment terms:	Cash
Publication:	Weekly, Friday 2-3pm London time
Notes:	Packaged in 1-tonne big bags
<b>MB-FEN-0002</b>	<b>Nickel pig iron, high-grade NPI content 10-15%, spot, ddp China, yuan/nickel unit price</b>
Quality:	Lump. Ni10-15%, Fe 80%, P 0.04% max, S 0.03% max, Si 4.5% max, C 4% max
Quantity:	Min 500 tonnes
Location:	ddp China
Unit:	Yuan/nickel unit
Payment terms:	Cash
Publication:	Weekly, Friday 3-4pm London time
Notes:	Packaged in 1-tonne big bags
<b>MB-FEN-0005</b>	<b>Nickel pig iron, 10-14% ni content, FOB Indonesia, \$/nickel unit</b>
Quality:	Lump, Ni 10-14%, Fe 80%, P 0.04% max, S 0.4% max, Si 4.5% max, C 4% max
Quantity:	min 500 tonnes
Location:	fob main ports Indonesia
Timing:	Spot
Unit:	US Dollar/nickel unit
Payment terms:	Cash
Publication:	Daily, 4pm London

# Noble alloys

## Molybdenum

**EUROPE**
**MB-FEO-0003** **Molybdenum drummed molybdic oxide 57% Mo min, in-whs Rotterdam, \$/lb Mo**

Quality:	Sandy powder (0-4mm). Mo 57% min, Cu 0.5% max, S 0.1% max, P 0.05% max, Pb 0.05% max, C 0.1% max. All other elements should each be 0.10% max, with the exception of Si, which should be 6% max.
Quantity:	Min 10 tonnes (+/- 2%)
Location:	In-whs Rotterdam
Unit:	USD per lb Mo
Payment terms:	Cash; other terms normalized
Publication:	Daily. 2-3pm London time

**MB-FEO-0001** **Ferro-molybdenum 65% Mo min, in-whs Rotterdam, \$/kg Mo**

Quality:	Lump 5-50mm, 90% min, Mo 65% min, Si 1.50% max, Cu 0.50% max, C 0.10% max, S 0.10% max, P 0.05% max. All other elements should be each 0.10% max, with the exception of Fe
Quantity:	Min 10 tonnes (+/- 2%)
Location:	In-whs Rotterdam
Unit:	USD per kg Mo
Payment terms:	Cash; other payment terms normalized
Publication:	Daily. 2-3pm London time

**UNITED STATES**
**MB-MO-0001** **Molybdenum canned molybdic oxide, in-whs Pittsburgh, \$/lb**

Quality:	Mo min 57.00%, copper max 0.50%, phosphorus 0.05%, lead 0.05%, sulphur 0.10%, carbon 0.10%, moisture 0.10%
Quantity:	Min 5 tonnes
Location:	In-whs US
Unit:	USD per pound
Publication:	Weekly. Thursday

**MB-FEO-0002**
**Ferro-molybdenum 65-70% Mo, in-whs Pittsburgh, \$/lb**

Quality:	Mo 65-70%
Quantity:	Min 5 tonnes
Location:	In-whs Pittsburgh
Unit:	USD per pound
Publication:	Weekly. Thursday

**SOUTH KOREA**
**MB-FEO-0004**
**Drummed molybdic oxide, in-warehouse Busan \$/lb Mo**

Quality:	Sandy powder (0-4 mm). Mo 57% min, Cu 0.5% max, S 0.1% max, P 0.05% max, Pb 0.05% max, C 0.1% max. All other elements should each be 0.10% max, with the exception of Si, which should be 6% max.
Quantity:	10 tonnes (+/- 2%)
Location:	In-whs Busan
Timing:	Spot
Unit:	USD per lb Mo
Payment terms:	Cash; other terms normalized
Publication:	Daily. 2-3pm London time

# Titanium

**EUROPE**
**MB-FET-0001**
**Ferro-titanium 70% Ti, max 4.5% Al, ddp Europe, \$/kg Ti**

Quality:	Lump. Ti 70%, Al 4.5%, V 3%, O2 2%, C 0.2%, S 0.05%, P 0.05%, Si 0.5%, N 0.5%, Sn 0.5%, Ni 0.05%, Cr 0.5%, Pb 0.01%, Bi 0.01%
Quantity:	Min 10-tonne lots (+/- 2%)
Location:	ddp Europe
Unit:	USD per kg Ti
Payment terms:	Cash (other payment terms normalized)
Publication:	Weekly. Wednesday 3pm London time

**UNITED STATES**

<b>MB-FET-0002</b>	<b>Ferro-titanium 68-72% Ti, ex-whs US, \$/lb</b>
Quality:	Titanium 68-72%, Aluminium 4-5%, Vanadium max 3%, Carbon max 0.20%, Oxygen max 2%, Nitrogen max 0.50%
Quantity:	10 tonne min
Location:	Ex-US warehouse
Unit:	US dollars per lb
Packaging:	Supersacks
Form:	Lump
Frequency:	Once a week, every Thursday

**MB-TI-0004**

	<b>Titanium ingot 6Al-4V, fob shipping point US, \$/lb</b>
Quality:	6Al-4V (aluminum 6%, vanadium 4%, titanium remainder)
Location:	fob shipping point
Unit:	US dollars per lb
Publication:	Quarterly on the 10th of the month by 5pm New York time

# Tungsten

**EUROPE**

<b>MB-W-0001</b>	<b>Tungsten APT 88.5% WO3 min Europe, cif Rotterdam and Baltimore duty-free, \$/mtu WO3</b>
Quality:	White finely divided free-flowing crystals. WO3 88.5% min, Al 0.001% max, As 0.0005% max, Bi 0.0005% max, Ca 0.001% max, Cd 0.0005% max, Co 0.0005% max, Cr 0.0005% max, Cu 0.0005% max, Fe 0.001% max, K 0.001% max, Mn 0.001% max, Mg 0.001% max, Mo 0.002% max, Na 0.001% max, Ni 0.0005% max, P 0.0007% max, Pb 0.0001% max, S 0.0008% max, Sb 0.0002% max, Si 0.001% max, Sn 0.0002% max, Ti 0.0005% max, V 0.001% max
Quantity:	Min 20 tonnes (+/- 2%)
Location:	cif Rotterdam and Baltimore, duty free
Unit:	USD per mtu WO3
Payment terms:	Cash. Delivered up to three months in advance considered spot business
Publication:	Weekly. Friday 2-3pm London time

**CHINA**

<b>MB-W-0003</b>	<b>Tungsten APT 88.5% WO3 min, fob main ports China, \$/mtu WO3</b>
Quality:	White finely divided free-flowing crystals. WO3 88.5% min, Al 0.0005% max, As 0.001% max, Bi 0.0001% max, Ca 0.001% max, Cd 0.001% max, Co 0.005% max, Cr 0.001% max, Cu 0.0005% max, Fe 0.001% max, K 0.001% max, Mn 0.0005% max, Mg 0.0005% max, Mo 0.002% max, Na 0.001% max, Ni 0.0005% max, P 0.0007% max, Pb 0.0001% max, S 0.0008% max, Sb 0.0002% max, Si 0.001% max, Sn 0.0002% max, Ti 0.0005% max, V 0.001% max
Quantity:	Min 17 tonnes
Location:	Fob China main ports
Unit:	USD per mtu WO3
Payment terms:	Cash or 30 days
Publication:	Weekly. Wednesday 2-3pm London time

**MB-W-0002**

	<b>Tungsten concentrate 65% WO3, in-whs China, yuan/tonne</b>
Quality:	Powder. WO3 65% min, S 0.8% max, P 0.10% max, As 0.15% max, Mo 0.05% max, Ca 5% max, Mn 1.5% max, Cu 0.25% max, Sn 0.25% max, SiO2 7.0% max
Quantity:	Min 50 tonnes
Location:	China
Unit:	CNY/tonne
Payment terms:	Cash or 30 days
Publication:	Weekly. Wednesday 2-3pm London time

# Ferro-tungsten

## EUROPE

	<b>Ferro-tungsten basis 75% W, in-whs dup Rotterdam, \$/kg W</b>
Quality:	Lump. W 75.00% min, C 0.40% max, S 0.08% max, Mn 0.50% max, As 0.10% max, Sn 0.08% max, P 0.05% max, Si 0.70% max, Cu 0.15% max, Sb 0.05% max
Quantity:	Min 3-tonne lots
Location:	dup Rotterdam
Unit:	USD per kg W
Payment terms:	Cash, other payment terms normalized
Publication:	Twice weekly. Wednesday and Friday 2-3pm London time
Notes:	Packaged in 1-tonne big bags

## CHINA

	<b>Ferro-tungsten basis 75% W, fob main ports China, \$/kg W</b>
Quality:	Lump. Material produced from tungsten ore and concentrate; W: 75.00% min. C: 0.40% max. S: 0.08% max. Mn: 0.50% max. As: 0.10% max. Sn: 0.08% max. P: 0.05% max. Si: 0.70% max. Cu: 0.15% max. Sb: 0.05% max
Quantity:	Min 5 tonnes
Location:	fob China main ports
Unit:	USD per kg W
Payment terms:	Cash, other terms normalized
Publication:	Weekly. Wednesday 2-3pm London time

# Vanadium

## EUROPE

	<b>Ferro-vanadium basis 78% V min, 1st grade, ddp Western Europe, \$/kg V</b>
Quality:	Lump. V 78%, Al 1.5%, Si 1.5%, C 0.25%, S 0.05%, P 0.06%, Mn 0.5%. Other elements trace only, with the exception of Fe
Quantity:	Min 5 tonnes
Location:	Delivered consumer works Europe
Unit:	USD per kg V
Payment terms:	Cash, other terms normalized
Publication:	Twice weekly. Wednesday and Friday at 2-3pm London time

## MB-V-0001

	<b>Vanadium pentoxide 98% V2O5 min, in-whs Rotterdam, \$/lb V2O5</b>
Quality:	Brown flake. V 98% min, Si 0.25% max. Fe 0.30% max, S 0.03% max. P 0.05% max, As 0.02% max, Na <sub>2</sub> K <sub>2</sub> O 1.50% max
Quantity:	Min 5 tonnes (+/- 5%)
Location:	In-warehouse Rotterdam
Unit:	USD per lb V2O5
Payment terms:	Cash, other terms normalized
Publication:	Weekly. Friday 2-3pm London time

## CHINA

	<b>Ferro-vanadium 78% V min, fob China, \$/kg V</b>
Quality:	Lump. V 78% min, Al 1.5% max, Si 2% max, C 0.06%, S 0.05%, P 0.05%, As 0.06%, Mn 0.5%, Cu 0.1%, Ni 0.15%, Mesh size 10-50mm, 90% min.
Quantity:	Min 5 tonnes (+/- 5%)
Location:	fob China (other delivery terms normalized)
Timing:	Within 20 days
Unit:	\$/kg V
Payment terms:	L/C, T/T, other payment terms normalized
Publication:	Weekly, Thursday 2-3pm London time
Notes:	Low-liquidity measures are applied when necessary

**UNITED STATES**

<b>MB-FEV-0002</b>	<b>Ferro-vanadium 70-80% V, in-whs Pittsburgh, \$/lb</b>
Quality:	V 70-80%
Quantity:	Min 10 tons
Location:	In-warehouse Pittsburgh
Unit:	USD per lb
Publication:	Weekly. Thursday

<b>MB-V-0002</b>	<b>Vanadium pentoxide 98% V<sub>2</sub>O<sub>5</sub> min, fob China, \$/lb V<sub>2</sub>O<sub>5</sub></b>
Quality:	Brown flake. V 98% min, Si, 0.25% max, Fe 0.30% max, S 0.03% max, P 0.05% max, As 0.02% max, Na <sub>2</sub> K <sub>2</sub> O 1.50% max.
Quantity:	Min 5 tonnes (+/- 5%)
Location:	fob China (other delivery terms normalized)
Timing:	Within 20 days
Unit:	\$/lb V <sub>2</sub> O <sub>5</sub>
Payment terms:	L/C, T/T, other payment terms normalized
Publication:	Weekly, Thursday, 2-3pm London time
Notes:	Low-liquidity measures are applied when necessary

<b>MB-V-0003</b>	<b>Vanadium nitrogen, basis 77%V, 16% N, ex-works China</b>
Quality:	Lump. V 77-81%, N 14-18%, C 6% max, P 0.06% max, S 0.10% max
Quantity:	Min 20 tonnes (+/- 5%)
Location:	Ex-works China
Unit:	CNY/tonne
Payment terms:	Cash, other terms normalized
Publication:	Weekly, Thursday, between 2pm and 3pm London time

<b>MB-V-0004</b>	<b>Vanadium pentoxide 98% V<sub>2</sub>O<sub>5</sub> min, ex-works China</b>
Quality:	Brown flake. V 98% min, Si, 0.25% max, Fe 0.30% max, S 0.03% max, P 0.05% max, As 0.02% max, Na <sub>2</sub> K <sub>2</sub> O 1.50% max.
Quantity:	Min 20 tonnes (+/- 5%)
Location:	Ex-works China
Unit:	CNY/tonne
Payment terms:	Cash, other terms normalized
Publication:	Weekly, Thursday, between 2pm and 3pm London time

**Ferro-niobium**

<b>MB-FN-0001</b>	<b>Ferro-niobium 63-67%, delivered consumer works Europe, duty paid, \$/kg Nb</b>
Quality:	10-50mm lump. Nb 63-67%, C 0.2% max, Si 3.0% max, Al 1-2%, S 0.15% max, P 0.20% max, Ta 0.5% max
Quantity:	Minimum 5-tonne lots
Location:	Delivered consumer works Europe
Unit:	USD per kg Nb
Payment terms:	Cash. Other payment terms normalized
Publication:	Weekly, Wednesday 2-3pm London time
Notes:	Packaged in 250kg drums or one-tonne big bags

## Ores

# Bauxite

### AFRICA

<b>MB-BX-0017</b>	<b>Bauxite, fob Guinea, \$/dmt</b>
Quality:	Total alumina 45%; total silica 3%; moisture content 15% max; Fe 27% max; dimension: 200mm lump max
Quantity:	170,000 tonnes
Location:	fob Guinea
Timing:	Loading within 60 days forward
Unit:	USD per dmt
Payment terms:	LC at sight (other payment terms normalized)
Publication:	Weekly; Friday 3-4pm London time
Notes:	Bulk carrier; low liquidity measures are applied when necessary

### CHINA

<b>MB-BX-0016</b>	<b>Bauxite, cif China, \$ per dmt</b>
Quality:	Total alumina 50%; total silica 5%; Fe 20% max; moisture content 7% min, 10% max; organic carbon 0.15% max
Quantity:	Min 40,000 tonnes
Location:	cif China
Timing:	Within two months
Unit:	USD per dmt
Payment terms:	LC (other payment terms normalized)
Publication:	Monthly; third Thursday of the month, 3-4pm London time
Notes:	Bulk carrier; accepted origins - Guinea, Australia, Indonesia

### LATIN AMERICA

<b>MB-BX-0015</b>	<b>Bauxite, fob Trombetas, Brazil, \$/dmt</b>
Quality:	Total alumina 50%; total silica 5%; Fe 20% max; moisture content 7% min, 10% max; organic carbon 0.15% max
Quantity:	Min 40,000 tonnes
Location:	fob Trombetas (other ports normalized)
Timing:	Within two months
Unit:	USD per dmt
Payment terms:	30 days after loading (other payment terms normalized)
Publication:	Monthly; third Thursday of the month, 3-4pm London time
Notes:	Bulk carrier

# Chrome ore

### AFRICA

<b>MB-CHO-0003</b>	<b>Chrome ore South Africa UG2/MG concentrates index, cif China, \$/tonne</b>
Quality:	Up to 2mm (99% min); Cr range 40-42%; Silica max 6%; Alumina max 18%; MgO max 16%; P max 0.01%; S max 0.01%; chrome iron ratio 1.27:1-1.35, basis 1.3:1
Quantity:	Min 5,000 tonnes
Location:	cif Tianjin, China (normalized for any Chinese mainland sea port)
Unit:	USD per tonne
Payment terms:	Payment at sight
Publication:	Weekly. Tuesday 2-3pm London time
Notes:	Bulk (container deals normalized)

**CHINA**

<b>MB-CHO-0002</b>	<b>Chrome ore Turkish lumpy 40-42%, cfr main Chinese ports, \$/tonne</b>
Quantity:	1,000 tonnes
Quality:	Lump. Cr 40-42; Silica 15% max; Alumina 16% max; MgO 26% max; S 0.02%; P 0.01%; chrome-iron ratio 2.6:1 (2.5:1 min)
Location:	cfr China main ports
Unit:	USD per tonne
Payment terms:	Payment at sight
Publication:	Weekly. Tuesday Between 2pm and 3pm London time

**CHINA**

<b>MB-MNO-0001</b>	<b>Manganese ore high grade index, cif Tianjin, \$ per dmtu</b>
Quality:	5.5-75mm lump. Manganese base 43.5%, range 40-47%; iron base 4.5%, max 16%; silica base 11%, max 17%; phosphorus base 0.10%, max 0.16%; alumina base 6.5%, max 14%; moisture base 5.5%, max 12%
Quantity:	Min 5,000 tonnes
Location:	CIF Tianjin, China (normalized for any Chinese mainland sea port)
Timing:	Within nine weeks
Unit:	USD per dry metric tonne unit
Payment terms:	Cash or LC on sight
Publication:	Friday 3pm, London

## Manganese ore

**SOUTH AFRICA**

<b>MB-MNO-0002</b>	<b>Manganese ore semi carbonate index, 36.5% Mn, fob Port Elizabeth, \$ per dmtu</b>
Quality:	5.5-75mm lump. Manganese base 36.5%, range 35-38%; iron base 5%, range 3-10%; silica base 5.5%, max 12%; phosphorus base 0.02%, max 0.05%; alumina base 0.2%, max 1.5%; moisture base 2%, max 12%
Quantity:	Min 5,000 tonnes
Location:	fob Port Elizabeth (South Africa)
Timing:	Within nine weeks
Unit:	US\$ per dry metric tonne unit
Payment terms:	Cash or LC on sight
Publication:	Friday, 3pm London time

<b>MB-MNO-0003</b>	<b>Manganese ore semi carbonate index, 36.5% Mn, cif Tianjin, \$ per dmtu</b>
Quality:	5.5-75mm lump. Manganese base 36.5%, range 35-38%; iron base 5%, range 3-10%; silica base 5.5%, max 12%; phosphorus base 0.02%, max 0.05%; alumina base 0.2%, max 1.5%; moisture base 2%, max 12%
Quantity:	Min 5,000 tonnes
Location:	cif Tianjin (other mainland seaports normalized)
Timing:	Within nine weeks
Unit:	US\$ per dry metric tonne unit
Payment term:	Cash or LC on sight
Publication:	Friday, 3pm London time

<b>MB-MNO-0005</b>	<b>Manganese ore high grade port index, fot Tianjin China, yuan per dmtu</b>
Quality:	5.5-75mm lump. Manganese base 43.5%, range 40-47%; iron base 4.5%, max 16%; silica base 11%, max 17%; phosphorus base 0.10%, max 0.16%; alumina base 6.5%, max 14%; moisture base 5.5%, max 12%
Quantity:	Min 1,000 tonnes
Location:	FOT Tianjin (China) - normalized for any Chinese mainland sea port
Timing:	Immediate
Unit:	CNY per dry metric tonne unit
Payment terms:	Cash or equivalent
Publication:	Friday 5-6pm, Shanghai time

<b>MB-MNO-0004</b>	<b>Manganese ore semi carbonate port index, 36.5% Mn, fot Tianjin, China, yuan/dmtu</b>
Quality:	5.5-75mm lump. Manganese base 36.5%, range 35-38%; iron base 5%, range 3-10%; silica base 5.5%, max 12%; phosphorus base 0.02%, max 0.05%; alumina base 0.2%, max 1.5%; moisture base 2%, max 12%
Quantity:	Min 1,000 tonnes
Location:	fot Tianjin (other mainland China seaports normalized)
Timing:	Immediate
Unit:	Yuan per dry metric tonne unit
Payment terms:	Cash or equivalent
Publication:	Friday, 3pm London time

<b>MB-NIO-0006</b>	<b>Laterite ore with 1.3% Ni content, cif China, \$/tonne</b>
Quality:	Nickel ore 1.3% Ni, 15-25% Fe, Si:Mg ratio 1.1-1.8, water content 35% max
Quantity:	min 50,000 tonnes
Location:	cif China
Unit:	USD per tonne
Payment terms:	LC, cash, or other payment terms normalized
Publication:	Weekly. Friday 2-3pm London time

<b>MB-NIO-0007</b>	<b>Indonesia laterite ore with 1.2% nickel content, domestic trade, delivered, \$/tonne</b>
Quality:	Nickel ore 1.2% Ni, 30-35% Fe, moisture content 35%
Quantity:	Min 50,000 tonnes
Location:	delivered to main ports Indonesia
Unit:	USD per tonne
Payment terms:	LC, cash, other payment terms normalized
Publication:	Twice a month on the 1st and 15th day at 7pm Jakarta time; if the day falls on a weekend, the price will be published the following Monday

## Nickel ore

### CHINA

<b>MB-NIO-0001</b>	<b>Nickel ore 1.8% basis 15-20% Fe water content: 30-35% Si:Mg ratio&lt;2 lot size 50,000 tonnes, cif China, \$/tonne</b>
Quality:	1.8% Ni, 15-20% Fe, Water content 30-35%, Si:Mg ratio <2
Quantity:	50,000 tonnes
Location:	cif China
Unit:	USD per tonne
Payment terms:	Letter of Credit
Publication:	Weekly. Friday 2-3pm London time

  

<b>MB-NIO-0002</b>	<b>Laterite ore with 1.5% Ni content, cif China, \$/tonne</b>
Quality:	Nickel ore 1.5% Ni, 15-20% Fe, water content 30-35%
Quantity:	50,000 tonnes
Location:	cif China
Unit:	USD per tonne
Payment terms:	Cash, other payment terms normalized
Publication:	Weekly. Friday 2-3pm London time

<b>MB-NIO-0008</b>	<b>Indonesia laterite ore with 1.6% nickel content, domestic trade, delivered, \$/tonne</b>
Quality:	Nickel ore 1.6% Ni, 15-25% Fe, moisture content 35%
Quantity:	Min 50,000 tonnes
Location:	delivered to main ports Indonesia
Unit:	USD per tonne
Payment terms:	LC, cash, other payment terms normalized
Publication:	Twice a month on the 1st and 15th day at 7pm Jakarta time; if the day falls on a weekend, the price will be published the following Monday

## Minor metals

Fastmarkets' antimony, arsenic, bismuth, cadmium, chromium, gallium, hafnium, indium, manganese, rhenium and selenium prices are produced in line with the specifications published by the Minor Metals Trade Association.

## Antimony

### CHINA

<b>MB-SB-0003</b>	<b>Antimony MMTA standard grade II, ddp China, yuan/tonne</b>
Quality:	Ingot. MMTA standard Grade II. Sb 99.65% min, As 0.1% max, Pb 0.2% max, Se 0.002% max, Cd 0.002% max, Sn 0.005% max, Te 0.005% max, Bi 0.01% max, Cu 0.02% max, Fe 0.02% max
Quantity:	1 tonne
Location:	Delivered duty paid China
Unit:	CNY/tonne
Payment terms:	Cash
Publication:	Monthly, last Friday of the month 2-3pm London time
<b>MB-SB-0011</b>	<b>Antimony 99.85% Sb min, in-whs China, yuan/tonne</b>
Quality:	Ingot. Sb 99.85% min, As 0.05% max, Pb 0.15% max, Bi 100ppm max, no other elements specified.
Quantity:	10 tonnes
Location:	in-whs China
Timing:	Spot
Unit:	CNY/tonne
Payment terms:	Cash, other payment terms normalized
Publication:	Weekly, Friday 7pm Shanghai time

### EUROPE

<b>MB-SB-0002</b>	<b>Antimony MMTA standard grade II, in-whs Rotterdam, \$/tonne</b>
Quality:	Ingot. Sb 99.65% min, As 0.15% max, Se 50ppm max
Quantity:	10 tonnes (+/-2%)
Location:	In-whs Rotterdam
Timing:	Prompt, within 10 calendar days
Unit:	USD per tonne
Payment terms:	Cash, other payment terms normalized
Publication:	Twice weekly. Wednesday and Friday 2-3pm London time
Notes:	Original producer packaging, on pallets or in wooden cases
<b>MB-SB-0001</b>	<b>Antimony max 100 ppm Bi, in-whs Rotterdam, \$/tonne</b>
Quantity:	Min 10 tonnes (+/-2%)
Quality:	Ingot. Sb Min 99.65% min, Bi 100ppm max, Se 50ppm max, Cu 200ppm max, Fe 200ppm max, Pb 0.2% max
Location:	In-whs Rotterdam
Timing:	Prompt, within ten calendar days
Unit:	USD/tonne
Payment terms:	Cash, other payment terms normalized
Publication:	Twice weekly. Wednesday and Friday 2-3pm London time
Notes:	Original producer packaging, on pallets or in wooden cases

# Arsenic

## EUROPE

<b>MB-AS-0001</b>	<b>Arsenic 99.7% min As, in-whs Rotterdam, \$/lb</b>
Quality:	Lumpy, fist-sized and smaller. As 99% min, no other elements specified
Quantity:	1 tonne (+/-2%)
Location:	In-whs Rotterdam
Timing:	Prompt release
Unit:	USD per lb
Payment terms:	Cash, other payment terms normalized
Publication:	Twice weekly. Friday 2-3pm London time
Notes:	Original producer poly-lined steel drums, each 50kg net, in accordance with the IMDG code and RID & ADR rules

# Bismuth

## EUROPE

<b>MB-BI-0001</b>	<b>Bismuth 99.99% Bi min, in-whs Rotterdam, \$/lb</b>
Quality:	Ingot. Bi 99.99%, no other elements specified
Quantity:	Min 1 tonne
Location:	Rotterdam
Timing:	Prompt release, within ten calendar days
Unit:	USD/lb
Payment terms:	Cash, other payment terms normalized
Publication:	Twice weekly. Wednesday and Friday 2-3pm London time
Notes:	Original producer packaging

## CHINA

<b>MB-BI-0002</b>	<b>Bismuth 99.99% Bi min, in-whs China, yuan/tonne</b>
Quality:	Ingot. Bi 99.99% min, no other elements specified
Quantity:	1 tonne
Location:	In-whs China
Unit:	CNY/tonne
Payment terms:	Cash, other payment terms normalized
Publication:	Weekly. Friday 2-3pm London time

# Cadmium

## GLOBAL

<b>MB-CD-0001</b>	<b>Cadmium 99.95% min, cif global ports, cents/lb</b>
Quality:	Sticks or ingots. Cd 99.95%, no other elements specified
Quantity:	Min 10 tonnes
Location:	CIF global port basis
Timing:	Prompt release, within ten calendar days
Unit:	US cents per lb
Payment terms:	Cash, other payment terms normalized
Publication:	Twice weekly. Wednesday and Friday 2-3pm London time

<b>MB-CD-0002</b>	<b>Cadmium 99.99% min, cif global ports, cents/lb</b>
Quality:	Sticks or ingots. Cd 99.99%, no other elements specified
Quantity:	Min 10 tonnes
Location:	CIF global port basis
Timing:	Prompt release, within ten calendar days
Unit:	US cents per lb
Payment terms:	Cash, other terms normalized
Publication:	Twice weekly. Wednesday and Friday 2-3pm London time

# Chromium

## EUROPE

<b>MB-CR-0001</b>	<b>Chromium alumino-thermic 99% min, in-whs Rotterdam, \$/tonne</b>
Quality:	Lump conforming to MMTA Chinese. Cr 99% min, Fe 0.4% max, Si 0.3% max, Al 0.3% max, Cu 0.04% max, C 0.02% max, S 0.02% max, P 0.01% max, Pb 0.005% max, Sb 0.001% max, Sn 0.001% max, Bi 0.001% max, As 0.01% max, N 0.05% max
Quantity:	Min 10 tonnes (+/-2%)
Location:	In-whs Rotterdam
Timing:	Prompt release
Unit:	USD per tonne
Payment terms:	Cash, other terms normalized
Publication:	Weekly. Friday between 2pm and 3pm London time
Notes:	Steel drums of uniform net weight, usually 300kg. Fastmarkets launched a MB-CR-00013 chromium alumino-thermic assessment on May 2, 2025, to reflect 99.4% minimum material. Consequently, the long-standing MB-CR-0001 chromium price now only reflects material that meets the 99% MMTA China grade.
<b>MB-CR-0003</b>	<b>Chromium alumino-thermic 99.4% min, in-whs Rotterdam, \$/tonne</b>
Quality:	Lump or powder. Cr 99.4% min, Fe 0.35% max, Al 0.10% max, Si 0.10% max, C 0.02% max, S 0.01% max, P 0.01% max, Pb 0.001% max, Cu 0.04% max, Sb 0.001% max, Sn 0.001% max, Bi 0.001% max, As 0.01% max, N 0.05% max
Quantity:	Min 10 tonnes (+/-2%)
Location:	In-whs Rotterdam
Timing:	Prompt release
Unit:	USD per tonne
Payment terms:	Cash, other terms normalized
Publication:	Monthly, first Friday of the month, between 2pm and 3pm London time
Notes:	Lump form: Steel drums of uniform net weight, usually 300kg; Powder form: Steel drums of uniform net weight, typically 250kg; Material produced via alumino-thermic reaction

## UNITED STATES

<b>MB-CR-0002</b>	<b>Chromium alumino-thermic 99% min ex-US warehouse \$/lb</b>
Quality:	Lump. Min 99% chromium
Quantity:	3 tonnes
Location:	Ex-warehouse, US
Unit:	USD per pound
Publication:	Once a week every Thursday
Notes:	Packaged in drums

# Cobalt

## CHINA

<b>MB-CO-0012</b>	<b>Cobalt tetroxide 72.6% Co min, delivered China, yuan/tonne</b>
Quality:	Min 72.6% Co
Location:	Delivered China
Unit:	CNY/tonne
Quantity:	Min 1 tonne
Payment terms:	Cash
Publication:	Twice weekly. Wednesday and Friday between 2pm and 3pm London time

<b>MB-CO-0001</b>	<b>Cobalt 99.8% Co min, ex-works China, yuan/tonne</b>
Quality:	Cobalt metal, Co 99.8% min
Location:	Ex-works China
Unit:	CNY/tonne
Quantity:	Min 1 tonne
Form:	Cathode
Payment terms:	Cash
Publication:	Twice weekly. Wednesday and Friday between 2pm and 3pm London time

**EUROPE**
**MB-CO-0004**
**Cobalt alloy grade,  
in-whs Rotterdam, \$/lb**

Quality:

Min 99.8% cobalt metal; standard specifications of the following brands in original packaging: Nikkelverk cut cathodes, Vale Port Colborne rounds, Vale Long Harbour alloy grade rounds (99.9% cobalt), SMM cut cathodes, Jinchuan cut cathodes

Quantity:

Minimum 1 tonne, maximum 100 tonnes

Location:

In-warehouse Rotterdam, duty-unpaid, customs uncleared

Timing:

Within 30 days, other terms normalized

Unit:

US\$ per lb

Payment terms:

Cash; other terms normalized

Publication:

Daily. Monday to Friday, at 3pm London time

**MB-CO-0005**
**Cobalt standard grade,  
in-whs Rotterdam, \$/lb**

Min 99.8% cobalt metal; standard specifications of the following brands in original packaging: Katanga cathodes, Chambishi broken cathodes, CTT broken cathodes, Minara briquettes, Ambatovy briquettes, Norilsk grade 1 and grade 2 cut cathodes (production since January 2019), Sherritt briquettes, Vale Long Harbour standard grade rounds (99.8% cobalt), Jiangsu (KLK) cut cathodes, Huayou cut cathodes, Greatpower cut cathodes, Hanrui cut cathodes, Lygend cut cathodes, and Tengyuan cut cathodes.

Quantity:

Minimum 1 tonne, maximum 100 tonnes

Location:

In-warehouse Rotterdam, duty-unpaid, customs uncleared

Timing:

Within 30 days, other terms normalized

Unit:

US\$ per lb

Payment terms:

Cash; other terms normalized

Publication:

Daily. Monday to Friday, 3pm London time

\* Fastmarkets MB changed the names of its benchmark in-warehouse Rotterdam assessments in January 2019. From January 2019, the name 'standard-grade' replaced the name 'low-grade'. The name 'alloy-grade' replaced the name 'high-grade'.

## Cobalt sulfate

Please see **Battery Raw Materials** section.

# Gallium

## EUROPE

<b>MB-GA-0001</b>	<b>Gallium 99.99% Ga min, in-whs Rotterdam, \$/kg</b>
Quality:	Ingot. Ga: 99.99% min, no other elements specified
Quantity:	Min 100kg (+/- 2%)
Location:	In-whs Rotterdam
Timing:	Prompt release
Unit:	USD/kg
Payment terms:	Cash, other terms normalized
Publication:	Twice weekly. Wednesday and Friday 2-3pm London time
Notes:	Packed in plastic sleeves, original producer cases

<b>MB-GA-0002</b>	<b>Gallium 99.99% Ga min, in-whs China, yuan/kg</b>
Quality:	Ingot. Ga: 99.99% min, no other elements specified
Quantity:	Min 50kg
Location:	China
Unit:	CNY/kg
Payment terms:	Cash, other payment terms normalized
Publication:	Weekly. Friday by 3pm London time

**MB-GER-0006**

<b>Germanium dioxide, in-whs China, yuan/kg</b>
GeO <sub>2</sub> 99.99 % min, Ge 69 % approx.
White powder
Min 100 kg (+/- 2%)
in-whs China
Prompt release
Cash, other payment terms normalized
yuan/kg
Weekly. Friday by 3pm London time
Original producer cases, normally 25kg each

## EUROPE

**MB-GER-0003**

<b>Germanium 99.999% Ge, in-whs Rotterdam, \$/kg</b>
Ingot. Ge 99.999%, no other elements specified
Min 100 kg (+/- 2%)
In-whs Rotterdam
Prompt release
USD/kg
Cash, other payment terms normalized
Twice-weekly. Wednesday and Friday between 2pm and 3pm London time
Packed in plastic sleeves, original producer cases

# Germanium

## CHINA

<b>MB-GER-0004</b>	<b>Germanium 99.999% Ge min, in-whs China, yuan/kg</b>
Quality:	Ingots with no specific dimension or weight. Ge 99.999% min, 50ohm/cm; no other elements specified
Quantity:	Min 50 kg
Location:	In-whs China
Unit:	CNY/kg
Payment terms:	Cash, other payment terms normalized
Publication:	Weekly. Friday by 3pm London time

**MB-GER-0005**

<b>Germanium dioxide, in-whs Rotterdam, \$ per kg</b>
GeO <sub>2</sub> 99.99% min, Ge 69% approx.
White powder
Min 100kg (+/- 2%)
in-whs Rotterdam
Prompt release
USD per kg
Cash, other payment terms normalized
Weekly; Wednesday between 2pm and 3pm, London time
Original producer cases, normally 25kg each.

# Hafnium

## GLOBAL

<b>MB-HF-0001</b>	<b>Hafnium, max 1% Zr, in-whs global locations, \$/kg</b>
Quality:	Hf+Zr 99.8% min; Zr 1%. Uniform lots of 5kg max cut ingot, plate, sheet or bar
Quantity:	Min 50kg
Location:	Global
Unit:	USD/per kg
Payment terms:	Cash, other payment terms normalized
Publication:	Fortnightly. Friday 2-3pm London time
Notes:	Hafnium is classed as a 'dual use' metal under the Non-proliferation of Nuclear Weapons Treaty and may require end-user statements and import/export licences

# Indium

## EUROPE

<b>MB-IN-0002</b>	<b>Indium 99.99%, in-whs Rotterdam, \$/kg</b>
Quality:	In: 99.99%, no other elements specified. Ingots, usually between 0.5kg and 3.5 kg; also 10 kg ingots
Quantity:	Min 100kg
Location:	In-whs Rotterdam
Timing:	Prompt release, within ten calendar days
Unit:	USD/kg
Payment terms:	Cash, other terms normalized
Publication:	Twice-weekly. Wednesday and Friday 2-3pm London time
Notes:	Original producer wooden cases

## CHINA

<b>MB-IN-0003</b>	<b>Indium 99.99% ex-works China CNY/kg</b>
Quality:	500g ingot. In 99.995% min, Cu 0.0005% max, Pb 0.0005% max, Zn 0.0005% max, Cd 0.0005% max, Fe 0.0005% max, Ti 0.0005% max, Sn 0.0010% max, As 0.0005% max, Al 0.0005% max
Quantity:	Min 1kg
Location:	Ex-works China
Unit:	CNY per kg
Payment terms:	Cash on spot
Publication:	Weekly. Friday between 2pm and 3pm London time

# Magnesium

## EUROPE

<b>MB-MG-0001</b>	<b>Magnesium 99.9%, in-whs Rotterdam, \$/tonne</b>
Quality:	Ingots, free from oxidation, of uniform size and weight. Mg 99.9% min, Fe 0.04% max, Si 0.02% max, Ni 0.002% max, Cu 0.01% max, Al 0.02% max, Mo 0.03% max, Cl 0.05% max, others 0.1% max
Quantity:	20 tonnes (+/- 2%)
Location:	In-whs Rotterdam
Unit:	USD/tonne
Payment terms:	Cash, other terms normalized
Publication:	Weekly. Friday 2-3pm London time

**CHINA**

<b>MB-MG-0003</b>	<b>Magnesium 99.9%, exw China, yuan/tonne</b>
Quality:	Ingot. Mg 99.9% min
Quantity:	Min 20 tonnes (+/- 2%)
Location:	Ex-works China
Unit:	CNY/tonne
Payment terms:	Cash on spot
Publication:	Weekly. Friday 2-3pm London time
<b>MB-MG-0002</b>	<b>Magnesium 99.9% Mg min, fob China main ports, \$/tonne</b>
Quality:	Ingot. Mg 99.9% min
Quantity:	Min 10 tonnes (+/-2%)
Location:	fob China main ports
Unit:	USD/tonne
Payment terms:	LC or TT
Publication:	Weekly. Friday between 2pm and 3pm London time
<b>MB-MG-0005</b>	<b>Magnesium, 99.9% min, ex-whs Baltimore, US cents/lb</b>
Quality:	Ingots and sticks. Mg 99.9% min, Fe 0.04% max, Si 0.02% max, Ni 0.002% max, Cu 0.01% max, AL 0.02% max, Mo 0.03% max, Cl 0.05% max, others 0.1% max, conforming to ASTM specifications B92/92M-11 and 9990A
Quantity:	20 tonnes
Location:	Ex-warehouse Baltimore
Timing:	Within 30 days
Units:	US cents per lb
Publication:	Monthly, first Thursday of the month

**Manganese**
**EUROPE**

<b>MB-MN-0001</b>	<b>Manganese 99.7% electrolytic manganese flake, in-whs Rotterdam, \$/tonne</b>
Quality:	Flake. Mn: 99.7% S: 500 ppm max
	P: 50 ppm max C: 400 ppm max
	Fe+Se+Si: 0.205% max
Quantity:	Min 25 tonnes (+/-2%)
Location:	Rotterdam
Timing:	Prompt, within ten calendar days
Unit:	USD/tonne
Payment terms:	Cash, other payment terms normalized
Publication:	Twice-weekly. Wednesday and Friday by 3pm London time
Notes:	Big bags or steel drums

**UNITED STATES**

<b>MB-MN-0006</b>	<b>Manganese electrolytic metal 99.7% Mn min, ex-whs US, \$/lb</b>
Quality:	Flake. Min 99.7% manganese
Quantity:	Min 10 tonnes
Location:	Ex-warehouse, US
Unit:	<b>USD per pound</b>
Payment terms:	Cash, other terms normalized
Publication:	Weekly, every Thursday
Notes:	Bulk
<b>MB-MN-0007</b>	<b>Manganese 99.7% electrolytic manganese flake, fob China, \$/tonne</b>
Quality:	Flake; Mn: 99.7% basis; S: 500 ppm max; P: 50 ppm max; C: 400 ppm max; Fe+Se+Si: 0.205% max; packaged as big bags or steel drums
Quantity:	Min 20 tonnes
Location:	fob China main ports
Timing:	Spot, within one week
Unit:	USD per tonne
Payment terms:	TT or LC
Publication:	Weekly. Friday 2-3pm London time

# Rhenium

## EUROPE

**MB-RE-0001**
**Rhenium APR catalytic grade, in-whs dup Rotterdam, \$/kg**

Quality:	White, free flowing powder/crystal ammonium perrhenate, Re 68.5 - 69.8% min
Quantity:	Min 20 kg (+/-2%)
Location:	Duty unpaid Rotterdam
Unit:	USD/kg
Delivery time:	Within one calendar month
Payment terms:	Cash, other terms normalized
Publication:	Fortnightly. Friday 2-3pm London time
Notes:	Uniform IMDG-approved containers, individually sealed and numbered

**MB-RE-0002**
**Rhenium metal pellets 99.9% Re min, in-whs dup, Rotterdam \$/lb**

Quality:	White, free flowing powder/crystal rhenium pellets, Re 99.9% min
Quantity:	Min 10 kg (+/-2%)
Location:	Rotterdam, duty unpaid
Timing:	Within one calendar month
Unit:	USD/lb
Payment terms:	Cash, other terms normalized
Publication:	Fortnightly. Friday by 3pm London time
Notes:	In uniform IMDG approved containers, individually sealed and numbered

# Selenium

## EUROPE

**MB-SE-0002**
**Selenium 99.5% Se min, in-whs Rotterdam, \$/lb**

Quality:	Powder of minus 200 mesh or granules sizing 1-5 mm. Se 99.5% min, no other elements specified
Quantity:	Min 250kg (+/-2%)
Location:	In-whs Rotterdam
Timing:	Prompt release, within ten calendar days
Unit:	USD/lb
Payment terms:	Cash, other terms normalized
Publication:	Twice-weekly. Wednesday and Friday 2-3pm London time
Notes:	Original producer packaging, normally 25kg net

## CHINA

**MB-SE-0003**
**Selenium 99.9% Se min, in-whs China, yuan/kg**

Quality:	Powder of minus 200 mesh or granules size 1-5 mm. Se 99.9% min, no other elements specified
Quantity:	Min 100 kg
Location:	In-whs China
Unit:	CNY/kg
Payment terms:	Cash, other payment terms normalized
Publication:	Weekly. Friday by 3pm London time

# Silicon

## EUROPE

**MB-SI-0001**
**Silicon grade 4-4-1 99% Si min, in-whs Rotterdam, €/tonne**

Quality:	10-100mm lump 90% min. Si 99% min, Fe 0.4% max, Al 0.4% max, Ca 0.1% max
Quantity:	Min 25 tonnes (+/- 2%)
Location:	In-whs Rotterdam
Unit:	EUR/tonne
Payment terms:	Cash, other terms normalized
Publication:	Weekly. Friday between 2pm and 3pm London time
Notes:	1 tonne big bag

**MB-SI-0004**
**Silicon grade 5-5-3 98.5% Si min, in-whs Rotterdam, €/tonne**

Quality:	10-100mm lump. Silicon 98.50%, iron 0.50% max, aluminium 0.50% max, calcium 0.30% max
Quantity:	Min 25 tonnes (+/- 2%)
Location:	In-whs Rotterdam
Timing:	Prompt
Unit:	EUR/Tonne
Payment terms:	Cash, other terms normalized
Publication:	Once a week. Friday between 2pm and 3pm London time
Notes:	1 tonne big bag

**CHINA**
**MB-SI-0002**
**Silicon export 98.5% Si min, fob China, \$/tonne**

Quality:	Lump. Si 98.5% min, Fe 0.5% max, Al 0.5% max, Ca 0.3% max
Quantity:	Min 20 tonnes
Location:	fob China main ports
Unit:	USD/tonne
Payment terms:	TT
Publication:	Weekly. Friday 2-3pm London time

**UNITED STATES**
**MB-SI-0003**
**Silicon, ddp US, US cents/lb**

Quality:	Si: 98.50%, Fe: 0.50%, Al: 0.50%, Ca: 0.30%
Quantity:	Min 20 tonnes
Location:	ddp US
Unit:	US cents per lb
Payment terms:	30 days, other terms normalized
Publication:	Weekly, Thursday 4-5pm New York time

# Tantalum

**CHINA**
**MB-TA-0001**
**Tantalite, basis min 25% Ta2O5, cif China**

Quality:	Lump 0-10mm grain concentrate; Ta2O5 25% min; Nb2O5 15% min; U3O8+ThO2 0.10% max
Quantity:	Minimum 10-tonne lots
Location:	cif main ports China
Unit:	USD per lb Ta2O5
Payment terms:	Provisional payment against scan copy of the full set of documents, balance upon finalization or DP or provisional payment after arrival at destination port, balance upon finalization; other payment terms normalized.
Publication:	Weekly; Fridays 2-3pm London time

# Tellurium

**EUROPE**
**MB-TE-0001**
**Tellurium 99.9-99.99% Te min, in-whs Rotterdam, \$/kg**

Quality:	Ingots, sticks or powder. Te 99.9-99.99%, no other elements specified
Quantity:	Min 100 kg (+/-2%)
Location:	In-whs Rotterdam
Timing:	Prompt release, within ten calendar days
Unit:	USD/kg
Payment terms:	Cash, other terms normalized
Publication:	Twice-weekly. Wednesday and Friday between 2pm and 3pm London time
Notes:	Original producer packaging

**CHINA**
**MB-TE-0002**
**Tellurium 99.99% Te min, in-whs China, yuan/kg**

Quality:	Ingots, sticks or powder. Te 99.99% min, no other elements specified
Quantity:	Min 500kg
Location:	In-whs China
Unit:	CNY/kg
Payment terms:	Cash, other terms normalized
Publication:	Weekly. Friday 2-3pm London time

# Battery raw materials

## Cobalt sulfate

**CHINA**
**MB-CO-0017**
**Cobalt sulfate 20.5% Co basis, exw China, yuan/tonne**

Quality:	Crystal, feed from cobalt ores & concentrates, cobalt intermediates, such as crude cobalt hydroxide (materials produced from cobalt scrap are excluded). Co 20.5% basis, Ni 0.001% max, Cu 0.001% max, Fe 0.001% max, Zn 0.001% max
Quantity:	Min 1 tonne
Timing:	Within 30 days
Unit:	CNY/tonne
Payment terms:	On bank acceptance (other terms normalized)
Publication:	Twice weekly. Wednesday and Friday, 2-3pm London time

**MB-CO-0021**
**Cobalt hydroxide payable indicator, min 30% Co, cif China, % payable of Fastmarkets' standard-grade cobalt price (low-end)**

Quality:	Units produced from large-scale mining activity, with the following chemical composition: Co 30% min, Mn 6.5% max, Mg 6.5% max, S 5% max; Cd 100ppm max; limited concentration of natural radioactivity: GB20664-2006 (suitable for customs clearance into China). Min 50 tonnes (cobalt content) cif China (other terms normalized)
Quantity:	Min 50 tonnes (cobalt content)
Location:	cif China (other terms normalized)
Timing:	45 days
Unit:	% payable of Fastmarkets' standard-grade cobalt price (low end, \$/lb)
Payment terms:	Letter of credit at sight, current and following price month ('M' and 'M+1')
Publication:	Twice weekly, Wednesday and Friday, 3pm London time
Notes:	Where the publication day falls on a public holiday in China, the assessment will be rolled over from previous pricing session.

# Cobalt hydroxide

**CHINA**
**MB-CO-0020**
**Cobalt hydroxide 30% Co min, cif China, \$/lb**

Quality:	Units produced from large-scale mining activity, with the following chemical composition: Co 30% min, Mn 6.5% max, Mg 6.5% max, S 5% max; Cd 100ppm max; limited concentration of natural radioactivity: GB20664-2006 (suitable for customs clearance into China).
Quantity:	Min 50 tonnes (cobalt content)
Location:	cif China (other terms normalized)
Timing:	within 45 days
Unit:	USD/lb
Payment terms:	Letter of credit at sight, current price month ('M')
Publication time:	Daily, 2-3pm London time

**MB-CO-0023**
**Cobalt hydroxide, min 30% Co, inferred, China, \$ per lb**

Publication:	Daily. Monday to Friday, 3.30pm London time
Notes:	Where the publication day falls on a public holiday in England and Wales, the assessment will not be published. The daily cobalt hydroxide inferred price is calculated as the low-end price of the Fastmarkets standard grade cobalt assessment multiplied by the prevailing midpoint of the Fastmarkets cobalt hydroxide payable (percentage) indicator, min 30% Co, cif China.

## Cobalt MHP

<b>MB-CO-0024</b>	<b>Cobalt mixed hydroxide precipitate payable indicator, % cobalt metal standard grade in-whs Rotterdam, cif China, Japan, and South Korea</b>
Quality:	30-45% nickel min/max, 1-6% cobalt min/max, 4% Zn max, 4% Cu max, 9% Mn max, 5% Mg max, 5% S max, 0.5% Fe max, moisture content 35-40%
Quantity:	Min 100 tonnes
Location:	cif major ports China, Japan and South Korea (other ports normalized)
Timing:	45 days
Unit:	% of cobalt metal standard grade in-whs Rotterdam
Publication:	Daily, 4pm London time

## Iron phosphate

### CHINA

<b>MB-FEP-0001</b>	<b>Iron phosphate anhydrous 0.96-0.98 Fe/P, battery grade, delivered China, yuan/tonne</b>
Quality:	Fe/P 0.96-0.98, accepted by buyers for use in battery applications
Quantity:	Min 30 tonnes
Location:	Delivered China (China's 13% VAT included)
Delivery window:	Within 30 days
Unit:	yuan/tonne
Payment terms:	Bank acceptance (other terms normalized)
Publication:	Weekly, Friday 4pm London time

## Lithium

### Lithium carbonate battery grade spot price

#### CHINA, JAPAN & SOUTH KOREA

<b>MB-LI-0029</b>	<b>Lithium carbonate 99.5% Li<sub>2</sub>CO<sub>3</sub> min, battery grade, spot prices cif China, Japan &amp; Korea, \$/kg</b>
Quality:	Powder, accepted by buyer for use in battery applications and with the chemical composition: Li <sub>2</sub> CO <sub>3</sub> 99.5% min (Min. 99.2% Li <sub>2</sub> CO <sub>3</sub> accepted if it can be normalized to 99.5%); Na 0.060% max; Ca 0.016% max; Mg 0.008% max; magnetic impurities 300ppb max
Quantity:	Min 5 tonnes
Location:	cif main Chinese Japanese & South Korean ports (other ports normalized)
Timing:	60 days
Unit:	USD/kg
Publication:	Daily, 1pm London time
<b>MB-LI-0036</b>	<b>Lithium carbonate 99.5% Li<sub>2</sub>CO<sub>3</sub> min, battery grade, spot price range exw domestic China, yuan/tonne</b>
Quality:	Powder, accepted by buyer for use in battery applications and with the chemical composition: Li <sub>2</sub> CO <sub>3</sub> 99.5% min; Na 0.025% max; Ca 0.005% max; Mg 0.008% max; magnetic impurities 300ppb max
Quantity:	Min 5 tonnes
Location:	Ex-works China, VAT included
Timing:	30 days
Unit:	CNY/tonne
Publication:	Daily. 7pm Shanghai time

**EUROPE**

<b>MB-LI-0023</b>	<b>Lithium carbonate 99.5% Li<sub>2</sub>CO<sub>3</sub> min, battery grade, spot price ddp Europe, \$/kg</b>
Quality:	Powder, accepted by buyer for use in battery applications and with the chemical composition: Li <sub>2</sub> CO <sub>3</sub> 99.5% min (Min. 99.2% Li <sub>2</sub> CO <sub>3</sub> accepted if it can be normalized to 99.5%); Na 0.060% max; Ca 0.016% max; Mg 0.008% max; magnetic impurities 300ppb max
Quantity:	Min 5 tonnes
Location:	ddp Europe
Timing:	30 days
Unit:	USD/kg
Publication:	Weekly, Thursday 3-4pm London time

**NORTH AMERICA**

<b>MB-LI-0044</b>	<b>Lithium carbonate 99.5% Li<sub>2</sub>CO<sub>3</sub> min, battery grade, spot price ddp US and Canada, \$ per kg</b>
Quality:	Powder, accepted by buyer for use in battery applications and with the chemical composition: Li <sub>2</sub> CO <sub>3</sub> 99.5% min (Min. 99.2% Li <sub>2</sub> CO <sub>3</sub> accepted if it can be normalized to 99.5%); Na 0.060% max; Ca 0.016% max; Mg 0.008% max; magnetic impurities 300ppb max
Quantity:	Min 5 tonnes
Location:	ddp US & Canada
Timing:	30 days
Unit:	USD per kg
Publication:	Weekly, Thursday 10-11am NY time

# Lithium hydroxide monohydrate battery grade spot price

**CHINA, JAPAN & SOUTH KOREA**

<b>MB-LI-0033</b>	<b>Lithium hydroxide monohydrate LiOH.H<sub>2</sub>O, 56.5% LiOH min,, battery grade, spot price cif China, Japan &amp; Korea, \$/kg</b>
Quantity:	Min 5 tonnes
Quality:	Powder, accepted by buyer for use in battery applications and with the chemical composition LiOH 56.5% min; CO <sub>2</sub> <0.35%; Ca 0.020% max; SO <sub>4</sub> 0.015% max; Cl <sup>-</sup> 0.005% max
Quantity:	Min 5 tonnes
Location:	cif main Chinese Japanese & South Korean ports (other ports normalized)
Timing:	60 days
Unit:	USD/kg
Publication:	Daily, 1pm London time

<b>MB-LI-0040</b>	<b>Lithium hydroxide monohydrate LiOH.H<sub>2</sub>O, 56.5% LiOH min, battery grade, spot price range exw domestic China, yuan/tonne</b>
Quality:	Powder, accepted by buyer for use in battery applications and with the chemical composition LiOH 56.5% min; CO <sub>2</sub> <0.35%; Ca 0.005% max; SO <sub>4</sub> 0.01% max; Cl <sup>-</sup> 0.002% max
Quantity:	Min 5 tonnes
Location:	Ex-works China, VAT included
Timing:	30 days
Unit:	CNY/tonne
Publication:	Daily, 7pm Shanghai time

**EUROPE**

**MB-LI-0025** **Lithium hydroxide monohydrate**  
**LiOH.H<sub>2</sub>O, 56.5% LiOH min,**  
**battery grade, spot price ddp**  
**Europe, \$/kg**

Quality: Powder, accepted by buyer for use in battery applications and with the chemical composition LiOH 56.5% min; CO<sub>2</sub> <0.35%; Ca 0.020% max; SO<sub>4</sub> 0.015% max; Cl- 0.005% max

Quantity: Min 5 tonnes

Location: ddp Europe

Timing: 30 days

Unit: USD/kg

Publication: Weekly, Thursday, 3-4pm London time

**NORTH AMERICA**

**MB-LI-0045** **Lithium hydroxide monohydrate**  
**LiOH.H<sub>2</sub>O, 56.5% LiOH min,**  
**battery grade, spot price ddp US**  
**and Canada, \$ per kg**

Quality: Powder, accepted by buyer for use in battery applications and with the chemical composition LiOH 56.5% min; CO<sub>2</sub> <0.35%; Ca 0.020% max; SO<sub>4</sub> 0.015% max; Cl- 0.005% max

Quantity: Min 5 tonnes

Location: ddp US & Canada

Timing: 30 days

Unit: USD per kg

Publication: Weekly, Thursday 10-11am NY time

# Lithium carbonate technical & industrial grade, spot price

**CHINA**

**MB-LI-0034** **Lithium carbonate 99% Li<sub>2</sub>CO<sub>3</sub>**  
**min, technical and industrial**  
**grade, spot price range exw**  
**domestic China, yuan/tonne**

Quality: Min 99% Li<sub>2</sub>CO<sub>3</sub> (qualified for use in technical and industrial applications). Powder

Quantity: Min 5 tonnes

Location: Ex-works China, VAT included

Timing: 30 days

Unit: CNY/tonne

Publication: Weekly, Thursday, 3-4pm London time

**CHINA, JAPAN & SOUTH KOREA**

**MB-LI-0028** **Lithium carbonate 99% Li<sub>2</sub>CO<sub>3</sub>**  
**min, technical and industrial**  
**grades, spot price cif China,**  
**Japan & Korea, \$/kg**

Quality: Min 99% Li<sub>2</sub>CO<sub>3</sub> (qualified for use in technical and industrial applications). Powder

Quantity: Min 5 tonnes

Location: cif China, Japan & South Korea

Timing: 60 days

Unit: USD/kg

Publication: Weekly, Thursday, 3-4pm London time

**EUROPE**

**MB-LI-0019** **Lithium carbonate 99% Li<sub>2</sub>CO<sub>3</sub>**  
**min, technical and industrial**  
**grades, spot price ddp Europe, \$/kg**

Quality: Min 99% Li<sub>2</sub>CO<sub>3</sub> (qualified for use in technical and industrial applications). Powder

Quantity: Min 5 tonnes

Location: ddp Europe

Timing: 30 days

Unit: USD/kg

Publication: Weekly, Thursday, 3-4pm London time

**NORTH AMERICA**

<b>MB-LI-0046</b>	<b>Lithium carbonate 99% Li<sub>2</sub>CO<sub>3</sub> min, technical and industrial grades, spot price ddp US and Canada, \$ per kg</b>
Quality:	Min 99% Li <sub>2</sub> CO <sub>3</sub> (qualified for use in technical and industrial applications), powder
Quantity:	Min 5 tonnes
Location:	ddp US and Canada
Timing:	30 days
Unit:	USD per kg
Publication:	Weekly, Thursday, 10-11am NY time

**EUROPE**

<b>MB-LI-0021</b>	<b>Lithium hydroxide monohydrate LiOH.H<sub>2</sub>O, 56.5% LiOH min, technical and industrial grades, spot price ddp Europe, \$/kg</b>
Quality:	LiOH 56.5% min (qualified for use in technical and industrial applications). Powder
Quantity:	Min 5 tonnes
Location:	ddp Europe & US
Timing:	30 days
Unit:	USD/kg
Publication:	Weekly, Thursday 3-4pm London time

# Lithium hydroxide monohydrate technical & industrial grade, spot price

**CHINA, JAPAN & SOUTH KOREA**

<b>MB-LI-0032</b>	<b>Lithium hydroxide monohydrate LiOH.H<sub>2</sub>O, 56.5% LiOH min, technical and industrial grades, spot price cif China, Japan &amp; Korea, \$/kg</b>
Quality:	LiOH 56.5% min (qualified for use in technical and industrial applications). Powder
Quantity:	Min 5 tonnes
Location:	cif China, Japan & South Korea
Timing:	60 days
Unit:	USD/kg
Publication:	Weekly, Thursday 3-4pm London time

**NORTH AMERICA**

<b>MB-LI-0047</b>	<b>Lithium hydroxide monohydrate LiOH.H<sub>2</sub>O, 56.5% LiOH min, technical and industrial grades, spot price ddp US and Canada, \$ per kg</b>
Quality:	LiOH 56.5% min (qualified for use in technical and industrial applications), powder
Quantity:	Min 5 tonnes
Location:	ddp US and Canada
Timing:	30 days
Unit:	USD per kg
Publication:	Weekly, Thursday, 10-11am NY time

## Spodumene

**CHINA**

<b>MB-LI-0012</b>	<b>Spodumene min 6% Li<sub>2</sub>O, spot price, cif China, \$/tonne</b>
Quality:	A mineral concentrate accepted by buyers for conversion in lithium chemicals used in battery applications (any size will be accepted) and with the following chemical composition: Li <sub>2</sub> O 6% (min 5.0% Li <sub>2</sub> O and max 6.1% Li <sub>2</sub> O accepted if it can be normalized to 6%); Fe <sub>2</sub> O <sub>3</sub> < 1.3% (max 1.5% Fe <sub>2</sub> O <sub>3</sub> accepted if it can be normalized to < 1.3%), H <sub>2</sub> O < 10% minimum 3,000 tonnes
Quantity:	minimum 3,000 tonnes
Location:	cif China
Timing:	90 days
Unit:	USD/tonne
Publication:	Daily, 1pm London time

<b>MB-LI-0043</b>	<b>Spodumene min 6% Li<sub>2</sub>O, contract price, cif China, \$/tonne</b>
Quality:	A mineral concentrate accepted by buyers for conversion in lithium chemicals used in battery applications (any size will be accepted) and with the following chemical composition: Li <sub>2</sub> O 6% (min 5.0% Li <sub>2</sub> O and max 6.1% Li <sub>2</sub> O accepted if it can be normalized to 6%); Fe <sub>2</sub> O <sub>3</sub> < 1.3% (max 1.5% Fe <sub>2</sub> O <sub>3</sub> accepted if it can be normalized to < 1.3%), H <sub>2</sub> O < 10% 5,000 tonnes
Quantity:	5,000 tonnes
Location:	cif China
Timing:	up to 1 year
Unit:	USD/tonne
Publication:	Monthly, last Wednesday of the month, 3-4pm London time

## Graphite

**CHINA**

<b>MB-GRA-0036</b>	<b>Graphite spherical 99.95% C, 15-17 microns, fob China, \$/tonne</b>
Quality:	99.95% C, 15-17 microns, uncoated
Quantity:	Min 20 tonnes
Location:	fob China
Unit:	USD/tonne
Publication:	Weekly, Thursday by 4pm London
<b>MB-GRA-0042</b>	<b>Graphite flake 94% C, -100 mesh, fob China, \$/tonne</b>
Quality:	Flake 94% C, -100 Mesh
Quantity:	Min lot size: 20 tonnes
Location:	fob China, FCL
Unit:	US\$ per tonne
Publication:	Weekly, Thursday by 4pm, London time

## Nickel Sulfate

**CHINA**

<b>MB-NI-0244</b>	<b>Nickel sulfate min 21%, max 22.5%; cobalt 10ppm max, exw China, yuan/tonne</b>
Quality:	Nickel content min 21%, max: 22.5%; cobalt 10ppm max
Quantity:	Min 1 tonne
Location:	ex-works mainland China – excludes Taiwan Region, HK SAR and Macao SAR
Timing:	Within 30 days
Unit:	CNY/tonne
Payment terms:	Bank acceptance (other payments normalized)
Publication:	Weekly, Friday 3-4pm London time

**EAST ASIA, SOUTHEAST ASIA**

<b>MB-NI-0246</b>	<b>Nickel sulfate, cif Japan and Korea, \$/tonne</b>
Quality:	Accepted by buyer for use in battery applications with chemical composition: Ni content, base 22.3% max, min 22%, cobalt 50ppm max
Quantity:	Min 1 tonne
Location:	cif major ports Japan, Korea (other ports normalized)
Timing:	Within 60 days
Unit:	USD/tonne
Publication:	Weekly. Friday, 4pm London time

<b>MB-NI-0247</b>	<b>Nickel sulfate premium, cif Japan, and Korea, \$/tonne</b>
Quality:	Accepted by buyer for use in battery applications with chemical composition: Ni content, base 22.3% max, min 22%, cobalt 50ppm max
Quantity:	Min 1 tonne
Location:	cif major ports Japan, and Korea, on top of weekly average LME nickel cash price
Timing:	Within 60 days
Unit:	USD/tonne
Publication:	Weekly. Friday, 4pm London time

**EUROPE**

<b>MB-NI-0253</b>	<b>Nickel sulfate, in-whs Rotterdam, \$/tonne</b>
Quality:	Accepted by buyer for use in battery applications with chemical composition: Ni content, base 22.3%, min 22%, cobalt 50ppm max, other impurities 5ppm max (copper, iron, zinc, etc).
Quantity:	Min 1 tonne
Location:	In-whs Rotterdam
Timing:	Within 60 days.
Unit:	USD/tonne
Publication:	Monthly, first Friday of month, 4pm London time.

**Nickel MHP**

<b>MB-NIO-0004</b>	<b>Nickel mixed hydroxide precipitate payable indicator, % London Metal Exchange, cif China, Japan and South Korea</b>
Quality:	30-45% nickel min-max, 1-6% cobalt min-max, 4% Zn max, 4% Cu max, 9% Mn max, 5% Mg max, 5% S max, 0.5% Fe max, moisture content 35-40%
Quantity:	Min 100 tonnes
Location:	cif major ports China, Japan and South Korea (other ports normalized)
Timing:	Within 60 days
Unit:	% payable basis LME monthly average
Quotation period:	the month of delivery, or the month M (other quotation periods normalized).
Publication:	Daily, 4pm London time

**Nickel matte**

<b>MB-NI-0257</b>	<b>High-grade nickel matte payable indicator, 65-75% nickel contained, cif China, % of official exchange price</b>
Quality:	Nickel matte, Ni 65-75%, Fe 6% max
Quantity:	Min 100 tonnes
Location:	CIF main ports China
Unit:	Calculated as a percentage of the prevailing exchange-traded Class I nickel reference price published each business day. <sup>1</sup>
Publication:	Last Friday of the month, 7pm China time

<sup>1</sup> The current reference is LME Nickel Cash Official, freely available at [www.lme.com](http://www.lme.com).

# Manganese Sulfate

## CHINA

	<b>MB-MN-0008</b>	<b>Manganese sulfate 32% Mn min, battery grade, ex-works mainland China, yuan/tonne</b>
Quality:		Powder, accepted by buyer for use in battery applications and with the chemical composition Mn 32% min, Fe 0.001% max, Zn 0.001% max, Cu 0.001% max, Pb 0.001% max, Cd 0.0005% max, K 0.01% max, Na 0.01% max, Ca 0.01% max, Mg 0.01% max, Ni 0.005% max, Co 0.005% max, insoluble residue 0.01% max, PH 4.0-6.5
Quantity:		Min 32 tonnes
Location:		ex-works mainland China-excludes Taiwan Region, Hong Kong SAR and Macao SAR
Timing:		Within 30 days
Unit:		yuan/tonne
Payment terms:		Cash, other terms normalized
Publication:		Weekly, Thursday 2-3pm London time

# Scrap Black mass

	<b>MB-BMS-0001</b>	<b>Black mass, NCM/NCA, payable indicator, nickel, max 5% moisture, cif South Korea, % payable of LME Nickel Cash Official price</b>
Quality:		Nickel and cobalt-rich black mass composed with metal content of 15-25% nickel, 5-15% cobalt, 3-5% lithium, max 2% aluminium, max 2% copper. Minimum total cobalt and nickel content of 20%.
Quantity:		min one container load
Location:		Cost insurance and freight (CIF) main ports, South Korea. Data points for South Korean domestic trade may be normalized based on information provided by market participants.
Timing:		45 days
Unit:		% payable of LME Nickel Cash
Payment terms:		Official price
Publication:		Letter of credit
Notes:		Weekly, Wednesdays 6-7pm Singapore time
		Maximum 5% moisture content

<b>MB-BMS-0002</b>	<b>Black mass, NCM/NCA, payable indicator, cobalt, max 5% moisture, cif South Korea, % payable of Fastmarkets' standard-grade cobalt price (low-end)</b>	<b>MB-BMS-0003</b>	<b>Black mass, NCM/NCA, payable indicator, lithium, max 5% moisture, cif South Korea, % payable Fastmarkets' lithium carbonate 99.5% Li<sub>2</sub>CO<sub>3</sub> min, battery grade, spot prices cif China, Japan &amp; Korea</b>
Quality:	Nickel and cobalt-rich black mass composed with metal content of 15-25% nickel, 5-15% cobalt, 3-5% lithium, max 2% aluminium, max 2% copper. Minimum total cobalt and nickel content of 20%.	Quality:	Nickel- and cobalt-rich black mass composed with metal content of 15-25% nickel, 5-15% cobalt, 3-5% lithium, max 2% aluminium, max 2% copper. Minimum total cobalt and nickel content of 20%
Quantity:	min one container load	Quantity:	Min one container load
Location:	Cost insurance and freight (CIF) main ports, South Korea. Data points for South Korean domestic trade may be normalized based on information provided by market participants.	Location:	Cost insurance and freight (CIF) main ports, South Korea. Data points for South Korean domestic trade may be normalized based on information provided by market participants
Timing:	45 days	Timing:	45 days
Unit:	% payable of Fastmarkets' standard-grade cobalt price (low-end)	Unit:	% payable of Fastmarkets' lithium carbonate 99.5% Li <sub>2</sub> CO <sub>3</sub> min, battery grade, spot prices, cif China, Japan & Korea, \$ per kg
Payment terms:	Letter of credit	Payment terms:	Letter of credit
Publication:	Weekly, Wednesdays 6-7pm Singapore time	Publication:	Weekly, Wednesdays 6-7pm Singapore time
Notes:	Maximum 5% moisture content	Notes:	Maximum 5% moisture content
<b>MB-BMS-0004</b>	<b>Black mass, NCM/NCA, payable indicator, nickel, domestic, max 5% moisture, exw Europe, % payable LME Nickel cash official price</b>	<b>MB-BMS-0005</b>	<b>Black mass, NCM/NCA, payable indicator, cobalt, domestic, max 5% moisture, exw Europe, % payable Fastmarkets' standard-grade cobalt price (low-end)</b>
Quality:	Nickel and cobalt-rich black mass composed with metal content of 15-25% nickel, 5-15% cobalt, 3-5% lithium, max 2% aluminium, max 2% copper. Minimum total cobalt and nickel content of 20%	Quality:	Nickel and cobalt-rich black mass composed with metal content of 15-25% nickel, 5-15% cobalt, 3-5% lithium, max 2% aluminium, max 2% copper. Minimum total cobalt and nickel content of 20%.
Quantity:	min one truckload	Quantity:	min one truckload
Location:	ex works EU producer	Location:	ex works EU producer
Timing:	45 days	Timing:	45 days
Unit:	% payable of LME Nickel Cash Official price	Unit:	% payable of Fastmarkets' standard-grade cobalt price (low-end)
Payment terms:	Letter of credit	Payment terms:	Letter of credit
Publication:	Weekly, Wednesdays 4pm London time	Publication:	Weekly, Wednesdays 4pm London time
Notes:	Maximum 5% moisture content	Notes:	Maximum 5% moisture content

<b>MB-BMS-0006</b>	<b>Black mass, LCO, payable indicator, cobalt, domestic, max 5% moisture, exw Europe, % payable Fastmarkets' standard-grade cobalt price (low-end)</b>	<b>MB-BMS-0008</b>	<b>Black mass, NCM/NCA, payable indicator, cobalt, max 5% moisture, cif Southeast Asia, % payable Fastmarkets' standard-grade cobalt price (low-end)</b>
Quality:	High-cobalt black mass composed with metal content of 20-30% cobalt, 3-5% lithium, max 2% aluminium, max 2% copper.	Quality:	Nickel and cobalt-rich black mass composed with metal content of 15-25% nickel, 5-15% cobalt, 3-5% lithium, max 2% aluminium, max 2% copper. Minimum total cobalt and nickel content of 20%.
Quantity:	min one container load	Quantity:	min one container load
Location:	ex works EU producer	Location:	Cost insurance and freight (CIF) main ports, Southeast Asia.
Timing:	45 days	Timing:	45 days
Unit:	% payable of Fastmarkets' standard-grade cobalt price (low-end)	Unit:	% payable of Fastmarkets' standard-grade cobalt price (low-end)
Payment terms:	Letter of credit	Payment terms:	Letter of credit
Publication:	Weekly, Wednesdays 4pm London time	Publication:	Weekly, Wednesdays 6-7pm Singapore time
Notes:	Maximum 5% moisture content	Notes:	Maximum 5% moisture content
<b>MB-BMS-0007</b>	<b>Black mass, NCM/NCA, payable indicator, nickel, max 5% moisture, cif Southeast Asia, % payable LME Nickel cash official price</b>	<b>MB-BMS-0009</b>	<b>Black mass, NCM/NCA, payable indicator, lithium, max 5% moisture, cif Southeast Asia, % payable Fastmarkets' lithium carbonate 99.5% Li<sub>2</sub>CO<sub>3</sub> min, battery grade, spot prices cif China, Japan &amp; Korea</b>
Quality:	Nickel and cobalt-rich black mass composed with metal content of 15-25% nickel, 5-15% cobalt, 3-5% lithium, max 2% aluminium, max 2% copper. Minimum total cobalt and nickel content of 20%	Quality:	Nickel and cobalt-rich black mass composed with metal content of 15-25% nickel, 5-15% cobalt, 3-5% lithium, max 2% aluminium, max 2% copper. Minimum total cobalt and nickel content of 20%.
Quantity:	min one container load	Quantity:	min one container load
Location:	Cost insurance and freight (CIF) main ports, Southeast Asia.	Location:	Cost insurance and freight (CIF) main ports, Southeast Asia.
Timing:	45 days	Timing:	45 days
Unit:	% payable of LME Nickel Cash Official price	Unit:	% payable of Fastmarkets' lithium carbonate 99.5% Li <sub>2</sub> CO <sub>3</sub> min, battery grade, spot prices cif China, Japan & Korea
Payment terms:	Letter of credit	Payment terms:	Letter of credit
Publication:	Weekly, Wednesdays 6-7pm Singapore time	Publication:	Weekly, Wednesdays 6-7pm Singapore time
Notes:	Maximum 5% moisture content	Notes:	Maximum 5% moisture content

<b>MB-BMS-0010</b>	<b>Black mass, LCO, payable indicator, cobalt, max 5% moisture, cif South Korea, % payable Fastmarkets' standard-grade cobalt price (low-end)</b>	<b>MB-BMS-0012</b>	<b>Black mass, NCM/NCA, inferred, cif South Korea, \$/tonne</b>
Quality:	High-cobalt black mass composed with metal content of 20-30% cobalt, 3-5% lithium, max 2% aluminium, max 2% copper.	Publication:	Daily. Monday to Friday, 4:30pm London time
Quantity:	min one container load	Notes:	Where the publication day falls on a public holiday in England and Wales, the assessment will not be published. The calculation for the price assessment MB-BMS-0012 Black mass, NCM/NCA, inferred, cif South Korea, \$/tonne is as below ('X' means 'multiplied by'): <b>Inferred nickel component:</b> Midpoint Fastmarkets' black mass, NCM/NCA, payable indicator, nickel, cif South Korea X midpoint LME nickel cash official price X nickel midpoint content in NCM black mass methodology (20%). <b>Inferred cobalt component:</b> Midpoint Fastmarkets' black mass, NCM/NCA, payable indicator, cobalt, cif South Korea X Fastmarkets' standard grade cobalt price (low-end) X cobalt midpoint content in NCM black mass methodology (10%). <b>Inferred lithium component:</b> Midpoint Fastmarkets' black mass, NCM/NCA, payable indicator, lithium, cif South Korea X Fastmarkets' lithium carbonate 99.5% Li <sub>2</sub> CO <sub>3</sub> min, battery grade, spot prices cif China, Japan & Korea X lithium metal conversion rate X lithium midpoint content in NCM black mass methodology (4%). The lithium conversion rate for metal from carbonate used in the calculation is 5.323, based on data provided by market participants.
Location:	Cost insurance and freight (CIF) main ports, South Korea		
Timing:	45 days		
Unit:	% payable of Fastmarkets' standard-grade cobalt price (low-end)		
Payment terms:	Letter of credit		
Publication:	Weekly, Wednesdays 6-7pm Singapore time		
Notes:	Maximum 5% moisture content		
<b>MB-BMS-0011</b>	<b>Black mass, LCO, payable indicator, lithium, max 5% moisture, cif South Korea, % payable Fastmarkets' lithium carbonate 99.5% Li<sub>2</sub>CO<sub>3</sub> min, battery grade, spot prices cif China, Japan &amp; Korea</b>		
Quality:	High-cobalt black mass composed with metal content of 20-30% cobalt, 3-5% lithium, max 2% aluminium, max 2% copper.		
Quantity:	min one container load		
Location:	Cost insurance and freight (CIF) main ports, South Korea.		
Timing:	45 days		
Unit:	% payable of Fastmarkets' lithium carbonate 99.5% Li <sub>2</sub> CO <sub>3</sub> min, battery grade, spot prices cif China, Japan & Korea		
Payment terms:	Letter of credit		
Publication:	Weekly, Wednesdays 6-7pm Singapore time		
Notes:	Maximum 5% moisture content		

<b>MB-BMS-0013</b>	<b>Black mass, NCM/NCA, inferred, exw Europe, \$/tonne</b>	<b>MB-BMS-0015</b>	<b>Black mass, NCM/NCA, payable indicator, cobalt, max 5% moisture, exw USA, % payable Fastmarkets' standard-grade cobalt price (low-end)</b>
Publication:	Daily. Monday to Friday, 4:30pm London time	Quality:	Nickel and cobalt-rich black mass composed with metal content of 15-25% nickel, 3-13% cobalt, max 2% aluminium, max 2% copper, max 5% fluorine, max 1% iron
Notes:	Where the publication day falls on a public holiday in England and Wales, the assessment will not be published. The calculation for the price assessment MB-BMS-0013 Black mass, NCM/NCA, inferred, exw Europe, \$/tonne is as below ('X' means 'multiplied by'): <b>Inferred nickel component:</b> Midpoint Fastmarkets' black mass, NCM/NCA, payable indicator, nickel, exw Europe X midpoint LME nickel cash official price X nickel midpoint content in NCM black mass methodology (20%). <b>Inferred cobalt component:</b> Midpoint Fastmarkets' black mass, NCM/NCA, payable indicator, cobalt, exw Europe X Fastmarkets' standard grade cobalt price (low-end) X cobalt midpoint content in NCM black mass methodology (10%).	Quantity:	min 1 tonne
		Location:	Ex-works United States
		Timing:	45 days
		Unit:	% payable of Fastmarkets' standard-grade cobalt price, in whs Rotterdam (low-end)
		Payment terms:	Letter of credit, current price month
		Publication:	Weekly, Wednesdays 4-5pm EST
		Notes:	Total cobalt and nickel content to be 18-38% min/max. Material with impurities above 2% but not exceeding 5% for aluminium and copper may be accepted dependant on liquidity levels and reporter's discretion. Maximum 5% moisture content
<b>MB-BMS-0014</b>	<b>Black mass, NCM/NCA, payable indicator, nickel, max 5% moisture, exw USA, % payable LME Nickel cash official price</b>	<b>MB-BMS-0016</b>	<b>Black mass, NCM, payable indicator, nickel, ddp China, % payable Fastmarkets' nickel sulfate min 21%, max 22.5%; cobalt 10ppm max, exw China</b>
Quality:	Nickel and cobalt-rich black mass composed with metal content of 15-25% nickel, 3-13% cobalt, max 2% aluminium, max 2% copper, max 5% fluorine, max 1% iron	Quality:	Nickel and cobalt-rich black mass composed with metal content of 15-25% nickel, 5-10% cobalt, 3-5% lithium. Minimum total cobalt and nickel content of 20%.
Quantity:	min 1 tonne	Quantity:	min one truckload
Location:	Ex-works United States	Location:	delivered duty paid Chinese consumer
Timing:	45 days	Timing:	45 days
Unit:	% payable of LME nickel cash price	Unit:	% payable of Fastmarkets' nickel sulfate min 21%, max 22.5%; cobalt 10ppm max exw China, yuan per tonne
Payment terms:	Letter of credit, current price month	Payment terms:	Cash, Letter of credit
Publication:	Weekly, Wednesdays 4-5pm EST	Publication:	Weekly, Thursdays 6pm China time
Notes:	Total cobalt and nickel content to be 18-38% min/max. Material with impurities above 2% but not exceeding 5% for aluminium and copper may be accepted dependant on liquidity levels and reporter's discretion. Maximum 5% moisture content		

<b>MB-BMS-0017</b>	<b>Black mass, NCM, payable indicator, cobalt, ddp China, % payable Fastmarkets' cobalt sulfate 20.5% Co basis, exw China</b>
Quality:	Nickel and cobalt-rich black mass composed with metal content of 15-25% nickel, 5-10% cobalt, 3-5% lithium. Minimum total cobalt and nickel content of 20%.
Quantity:	min one truckload
Location:	delivered duty paid Chinese consumer
Timing:	45 days
Unit:	% payable of Fastmarkets' cobalt sulfate 20.5% Co basis, exw China
Payment terms:	Cash, Letter of credit
Publication:	Weekly, Thursdays 6pm China time
<b>MB-BMS-0018</b>	<b>Black mass, NCM, payable indicator, lithium, ddp China, % payable Fastmarkets' lithium carbonate 99.5% Li<sub>2</sub>CO<sub>3</sub> min, battery grade, spot price range, exw domestic China</b>
Quality:	Nickel and cobalt-rich black mass composed with metal content of 15-25% nickel, 5-10% cobalt, 3-5% lithium. Minimum total cobalt and nickel content of 20%.
Quantity:	min one truckload
Location:	delivered duty paid Chinese consumer
Timing:	45 days
Unit:	% payable of Fastmarkets' lithium carbonate 99.5% Li <sub>2</sub> CO <sub>3</sub> min, battery grade, spot price range, exw domestic China, yuan per tonne
Payment terms:	Cash, Letter of credit
Publication:	Weekly, Thursdays 6pm China time
<b>MB-BMS-0019</b>	<b>Black mass, LFP, ddp China, yuan per % lithium</b>
Quality:	Lithium iron phosphate (LFP) black mass containing 2-3% lithium.
Quantity:	min one truckload
Location:	delivered duty paid Chinese consumer
Timing:	45 days
Unit:	Chinese yuan per % of lithium contained
Payment terms:	Cash, Letter of credit
Publication:	Weekly, Thursdays 6pm China time

## Lithium-ion battery scrap

<b>MB-LBS-0001</b>	<b>Lithium-ion battery scrap, NCM, end of life, prismatic, exw China, yuan per tonne</b>
Quality:	Prismatic end-of-life lithium-iron battery scrap of nickel cobalt manganese (NCM) chemistry. Casing must be aluminium, not steel.
Quantity:	min one truckload
Location:	ex-works China
Timing:	45 days
Unit:	Chinese yuan per tonne
Payment terms:	Cash, Letter of credit
Publication:	Weekly, Thursdays 6pm China time
<b>MB-LBS-0002</b>	<b>Lithium-ion battery scrap, LFP, end of life, prismatic, exw China, yuan per tonne</b>
Quality:	Prismatic end-of-life lithium-iron battery scrap of lithium iron phosphate (LFP) chemistry. Casing must be aluminium, not steel.
Quantity:	min one truckload
Location:	ex-works China
Timing:	45 days
Unit:	Chinese yuan per tonne
Payment terms:	Cash, Letter of credit
Publication:	Weekly, Thursdays 6pm China time

## Copper scrap

### CHINA

<b>MB-CU-0512</b>	<b>No1 copper material, RCu-2A,1B (candy/berry), cif China, LME/Comex discount, US cents per lb</b>
Quality:	Definitions of RCu-2A and RCu-1B as stipulated in China's GB per tonne 38471-2019 document. Both RCu-2A and RCu-1B require a metal recycling rate of not less than 97%.
Quantity:	Min 25 tonnes
Location:	cif Chinese ports (Shanghai, Guangdong, Zhejiang, Tianjin, Shandong)
Timing:	Within 5 weeks
Unit:	US cents/lb
Payment:	Cash against documents, letter of credit, telegraphic transfer; other terms normalized
Publication:	Monthly. Last Monday of each month 3-4pm London time
<b>MB-CU-0360</b>	<b>No2 copper material, RCu-2B (birch/cliff), cif China, LME/Comex discount, US cents per lb</b>
Quality:	Minimum copper content 99% with a min recovery rate of 94%. Clean copper tube, belt, plate, rod, wire and other shapes. Includes burned copper wires of 1.6mm and above, attachments and surface plating. Coated material should consist no more than 5% of the total mass of No 2 copper material. Particles of non-metallic contamination in the form of dust, sludge, crystalline salts, metal oxides and fiber should not exceed 2mm in diameter, and these particles should not exceed 0.1% of the total content, as defined by China's State Administration for Market Regulation.
Quantity:	Min 25 tonnes
Location:	cif Chinese ports (Shanghai, Guangdong, Zhejiang, Tianjin and Shandong)
Timing:	Within 5 weeks
Unit:	US cents/lb
Payment:	Cash against documents, letter of credit, telegraphic transfer; other terms normalized
Publication:	Monthly. Last Monday of each month 3-4pm London time

## Aluminium scrap

### INDIA

<b>MB-AL-0396</b>	<b>Zorba, 95/5, CIF India, \$/tonne</b>
Quality:	Shredded non-ferrous scrap made up of a combination of aluminium, copper, lead, magnesium, stainless steel, nickel, tin, and zinc, in elemental or alloyed (solid) form. Zorba assessed shall have a minimum of 95% metallic content and 5% copper and brass. Must be in large parcels of 30-125mm pieces.
Location:	CIF Nhava Sheva and Mundra ports, India
Unit:	US dollar/tonne
Quantity:	Minimum 30 tonnes
Payment:	Cash
Publication:	Weekly, Wednesdays at 4pm UK time
<b>MB-AL-0397</b>	<b>Aluminium scrap, old sheet (Taint/Tabor), HRB, 3-5% attachments, CIF India, \$/tonne</b>
Quality:	Old sheet baled into HRB form. Shall consist of clean old alloy aluminium sheet of two or more alloys, free of foil, venetian blinds, castings, hair wire, screen wire, food or beverage containers, radiator shells, airplane sheet, bottle caps, plastic, dirt, and other non-metallic items. Attachments not to total more than 3-5%.
Location:	CIF Nhava Sheva and Mundra ports, India
Unit:	US dollar/tonne
Quantity:	Minimum 30 tonnes
Payment:	Cash
Publication:	Weekly, Wednesdays at 4pm UK time

<b>MB-AL-0398</b>	<b>Aluminium scrap, mixed aluminium castings (Tense), 3-5% attachments, CIF India, \$/tonne</b>	<b>MB-AL-0400</b>	<b>Aluminium scrap, cast wheels (Troma), CIF India, \$/tonne</b>
Quality:	Shall consist of all clean aluminium castings which may contain auto and airplane castings but no ingots. Attachments not to total more than 3-5%.	Quality:	Shall consist of clean, single-piece, unplated aluminium small or medium-sized car wheels of a single specified alloy and free of tires. Attachments not to total more than 1%. Wheels must not include chrome and must not be truck or motorcycle wheels.
Location:	CIF Nhava Sheva and Mundra ports, India	Location:	CIF Nhava Sheva and Mundra ports, India
Unit:	US dollar/tonne	Unit:	US dollar/tonne
Quantity:	Minimum 30 tonnes	Quantity:	Minimum 15 tonnes
Payment:	Cash	Payment:	Cash
Publication:	Weekly, Wednesdays at 4pm UK time	Publication:	Weekly, Wednesdays at 4pm UK time
ISRI code:	Troma		
<b>MB-AL-0399</b>	<b>Aluminium scrap, old sheet (Taint/Tabor), cut sheared, 5-8% attachments, CIF India, \$/tonne</b>	<b>MB-AL-0401</b>	<b>Aluminium scrap, extrusions (Tata), 6063 cif India, \$/tonne</b>
Quality:	Old sheet in cut sheared form. Pieces shall be sheared in lengths less than 1m. Shall consist of clean old alloy aluminium sheet of two or more alloys, free of foil, venetian blinds, castings, hair wire, screen wire, food or beverage containers, radiator shells, airplane sheet, bottle caps, plastic, dirt, and other non-metallic items. Attachments not to total more than 5-8%.	Quality:	Shall consist of one alloy (typically 6063/HE9) of 95% clean, 5% impure material. Material may contain butt ends from the extrusion process but must be free of any foreign contamination. Anodized material is acceptable.
Location:	CIF Nhava Sheva and Mundra ports, India	Location:	CIF Nhava Sheva and Mundra ports, India
Unit:	US dollar/tonne	Unit:	US dollar/tonne
Quantity:	Minimum 30 tonnes	Quantity:	Minimum 30 tonnes
Payment:	Cash	Payment:	Cash
Publication:	Weekly, Wednesdays at 4pm UK time	Publication:	Weekly, Wednesdays at 4pm UK time
ISRI code:	Tata	Notes:	Price is based on US-origin 95/5-grade extrusions material.

**SOUTHEAST ASIA**

<b>MB-AL-0409</b>	<b>Zorba, 98/2, CIF Southeast Asia, \$/tonne</b>
Quality:	Shredded non-ferrous scrap made up of a combination of aluminium, copper, lead, magnesium, stainless steel, nickel, tin, and zinc, in elemental or alloyed (solid) form. Zorba assessed shall have a minimum of 98% metallic content and 2% copper and brass. Must be in large parcels of 30-125 mm pieces.
Quantity:	Minimum 15 tonnes
Location:	CIF Southeast Asia
Timing:	Within eight weeks
Unit:	US dollar/tonne
Payment:	Cash
Publication:	Weekly, Tuesdays at 4pm UK time
Notes:	Japan-origin material generally excluded due to wider variance in quality compared with US/Europe-origin
<b>MB-AL-0410</b>	<b>Aluminium scrap, 95/5 Extrusions (Tata), CIF Southeast Asia, \$/tonne</b>
Quality:	Shall consist of one alloy (typically 6063/HE9) of 95% clean, 5% impure material. Material may contain butt ends from the extrusion process but must be free of any foreign contamination. Anodized material is acceptable.
Quantity:	Minimum 15 tonnes
Location:	CIF Southeast Asia
Unit:	US dollar/tonne
Timing:	Within eight weeks
Payment:	Cash
Publication:	Weekly, Tuesdays at 4pm UK time
Notes:	Japan-origin material generally excluded due to wider variance in quality compared with US/Europe-origin

**MB-AL-0412**
**Aluminium scrap, borings and turnings (Telic), CIF Southeast Asia, \$/tonne**

Quality:	Shall consist of aluminium borings and turnings that are clean, unmixed, uncorroded and completely free of excessive oil and steel. Must not contain other alloys of aluminium and be free of grindings and babbitts. Must also be free of the following: thermo-break, saw chips, paper, cardboard and other foreign contamination; free of zinc corners, iron attachments, plastic, cardboard, foil, Venetian blinds, castings, hair wire, screen wire, radiator shells, airplane sheet, bottle caps, dirt and other non-metallic items. Typically, has 98-99% aluminium content.
Quantity:	Minimum 15 tonnes
Location:	CIF Southeast Asia
Unit:	US dollar/tonne
Timing:	Within eight weeks
Payment:	Cash
Publication:	Weekly, Tuesdays at 4pm UK time
Notes:	Japan-origin material generally excluded due to wider variance in quality compared with US/Europe-ori

**MB-AL-0411**
**Aluminium scrap, used beverage cans (Taldon), CIF Southeast Asia, \$/tonne**

Quality:	Shall have a minimum density of 14 pounds per cubic foot (225 kg/cubic meter), and a maximum density of 17 pounds per cubic foot (273 kg/cubic meter) for unflattened used beverage cans (UBC) and 22 pounds per cubic foot (353 kg/cubic meter) for flattened UBC. Size: Minimum 30 cubic feet (0.85 cubic meter), with bale range dimensions of 24-40in (61-132 cm) by 30-52in (76-132 cm) by 40-84in(102-213 cm). The only acceptable tying method shall be as follows: four to six 5/8in (1.6 cm) x 0.020in (5 mm) steel bands, or six to 10 #13 gauge steel wires (aluminium bands or wires are acceptable in equivalent strength and number). Use of skids and/or support sheets of any material is not acceptable. Shall consist of old post-consumer aluminium UBC. Must be free of aluminium food cans, other scrap metals, foil, tin cans, plastic bottles, paper, glass and other non-metallic items. Must be magnetically separated and free of steel, plastic, glass, dirt and all other foreign substances. Any and all aluminium items other than UBC are unacceptable. Any free lead is a basis for rejection. Items not covered in the specification, including moisture and any variations to this specification should be agreed upon prior to shipment between the buyer and seller.
Quantity:	Minimum 15 tonnes
Location:	CIF Southeast Asia
Timing:	Within eight weeks
Unit:	US dollar/tonne
Payment:	Cash
Publication:	Weekly, Tuesdays at 4pm UK time
Notes:	Japan-origin material generally excluded due to wider variance in quality compared with US/Europe-origin

**UNITED KINGDOM**
**MB-AL-0006**
**Aluminium scrap baled old rolled, delivered consumer UK, £/tonne**

Quality:	Wrought scrap of alloyed and unalloyed aluminium. Maximum 2% calcareous and other non-metallic substances
Quantity:	Min 5 tonnes
Location:	Delivered consumer works, UK
Timing:	Within 4 weeks
Unit:	GBP/tonne
Payment terms:	Net monthly account
Publication:	Weekly. Wednesday 3-4pm London time

**MB-AL-0007**
**Aluminium scrap cast wheels, delivered consumer UK, £/tonne**

Quality:	Cast aluminium wheels
Quantity:	Min 5 tonnes
Location:	Delivered consumer works, UK
Timing:	Within 4 weeks
Unit:	GBP/tonne
Payment terms:	Net monthly account
Publication:	Weekly. Wednesday 3-4pm London time

**MB-AL-0009**
**Aluminium scrap clean HE9 extrusions, delivered consumer UK, £/tonne**

Quality:	Clean HE9 extrusion scrap. Cu 0.1% max, Zn 0.1% max, free from deleterious materials, oil, grease, non-metallic coatings max 1%
Quantity:	Min 5 tonnes
Location:	Delivered consumer works, UK
Timing:	Within 4 weeks
Unit:	GBP/tonne
Payment terms:	Net monthly account
Publication:	Weekly. Wednesday 3-4pm London time

<b>MB-AL-0010</b>	<b>Aluminium scrap commercial cast, delivered consumer UK, £/tonne</b>	<b>MB-AL-0015</b>	<b>Aluminium scrap group 7 turnings, delivered consumer UK, £/tonne</b>
Quality:	Whole or broken aluminium castings of all kinds	Quality:	Clean, uncorroded aluminium borings, millings and turnings of two or more specified alloys. Zn 7.5% max, Fe fines 3% max, oil/moisture/free iron 10% max
Quantity:	Min 5 tonnes	Quantity:	Min 5 tonnes
Location:	Delivered consumer works, UK	Location:	Delivered consumer works, UK
Timing:	Within 4 weeks	Timing:	Within 4 weeks
Unit:	GBP/tonne	Unit:	GBP/Tonne
Payment terms:	Net monthly account	Payment terms:	Net monthly account
Publication:	Weekly. Wednesday 3-4pm London time	Publication:	Weekly. Wednesday 3-4pm London time
<b>MB-AL-0011</b>	<b>Aluminium scrap commercial pure cuttings, delivered consumer UK, £/tonne</b>	<b>MB-AL-0014</b>	<b>Aluminium scrap group 1 pure 99% &amp; litho, delivered consumer UK, £/tonne</b>
Quality:	New, uncoated, mixed alloys, pure sheet scrap. May contain proportion of one of more aluminium alloys, none of which shall contain more than 0.1% Cu and 0.1% each of Pb, Zn, Sn, antimony, bismuth. Mg 0.5% max. No 2000 or 7000 series metal	Quality:	New, uncoated, unalloyed aluminium sheet, wire and cable scrap, not burnt or corroded, baled. Al content minimum 99.9% (oil, grease, non-metallic coatings max 1%)
Quantity:	Min 5 tonnes	Quantity:	5 tonnes
Location:	Delivered consumer works, UK	Location:	Delivered consumer works, UK
Timing:	Within 4 weeks	Timing:	Within 4 weeks
Unit:	GBP/tonne	Unit:	GBP/tonne
Payment terms:	Net monthly account	Payment terms:	Net monthly account
Publication:	Weekly. Wednesday 3-4pm London time	Publication:	Weekly. Wednesday 3-4pm London time
<b>MB-AL-0012</b>	<b>Aluminium scrap commercial turnings, delivered consumer UK, £/tonne</b>	<b>MB-AL-0018</b>	<b>Aluminium scrap loose old rolled cuttings, delivered consumer UK, £/tonne</b>
Quality:	Clean, uncorroded aluminium borings, millings and turnings of two or more specified alloys. Zn 2% max, Fe fines 3% max, oil/moisture/free iron 10% max	Quality:	Wrought scrap of alloyed and unalloyed aluminium. Maximum 2% calcarious and other non-metallic substances
Quantity:	5 tonnes	Quantity:	Min 5 tonnes
Location:	Delivered consumer works, UK	Location:	Delivered consumer works, UK
Timing:	Within 4 weeks	Timing:	Within 4 weeks
Unit:	GBP/tonne	Unit:	GBP/tonne
Payment terms:	Net monthly account	Payment terms:	Net monthly account
Publication:	Weekly. Wednesday 3-4pm London time	Publication:	Weekly. Wednesday 3-4pm London time

**EUROPE**
**MB-AL-0404**
**Aluminium scrap, clean production extrusions (6063), differential to LME, delivered consumer Europe, €/tonne**

Quality: Shall consist of one alloy (6063/HE9) and may contain butt ends from the extrusion process but must be free of any foreign contamination. Anodized material is acceptable.

Quantity: Min 25 tonnes

Location: Delivered consumer works, Europe

Timing: Within 4 weeks

Unit: Euro per tonne

Payments terms: 30 days, other payment terms normalized

Publication: Weekly, Friday, 4pm London time

Notes: ISRI code – Tata. Typical market practice is that the final price is derived by applying the differential to a future, unknown LME value, usually on a date within the month of delivery, buyer's choice, and whichever is lower between the cash and three-month price.

**MB-AL-0405**
**Aluminium scrap, post-consumer 95/5 extrusions (6063), differential to LME, delivered consumer Europe, €/tonne**

Quality: Shall consist of one alloy (6063/HE9) comprising minimum 95% of the total volume, with maximum 5% impurities. Anodized material is acceptable.

Quantity: Min 25 tonnes

Location: Delivered consumer works, Europe

Timing: Within 4 weeks

Unit: Euro per tonne

Payments terms: 30 days, other payment terms normalized

Publication: Weekly, Friday, 4pm London time

Notes: ISRI code – Tata. Typical market practice is that the final price is derived by applying the differential to a future, unknown LME value, usually from a date within the month of delivery, buyer's choice, and whichever is lower between the official cash and official three-month price.

**MB-AL-0013**
**Aluminium scrap floated frag, delivered consumer Europe, €/tonne**

Quality: Twitch floated fragmentiser aluminium scrap (from automobile shredders). Free Zn 1% max, free Mg 1% max, analytical Fe 1% max. Non-metallics 2% max (of which rubber & plastics 1% max)

Quantity: Min 25 tonnes

Location: Delivered consumer works, Europe

Timing: Within 4 weeks

Unit: EUR/tonne

Payments terms: 30 days, other payment terms normalized

Publication: Weekly. Friday 3-4pm London time

**MB-AL-0019**
**Aluminium scrap mixed turnings, delivered consumer Europe, €/tonne**

Quality: Clean, uncorroded aluminium borings, millings and turnings of two or more specified alloys. Zn 2% max. Fines 3% max, oil/moisture/free iron 10% max

Quantity: Min 25 tonnes

Location: Delivered consumer works, Europe

Timing: Within 4 weeks

Unit: EUR/tonne

Payments terms: 30 days, other payment terms normalized

Publication: Weekly. Friday 3-4pm London time

**MB-AL-0008**
**Aluminium scrap cast, delivered consumer Europe, €/tonne**

Quality: Whole or broken aluminium castings of all kinds. Oil and grease not to total more than 2%

Quantity: Min 25 tonnes

Location: Delivered consumer works, Europe

Timing: Within 4 weeks

Unit: EUR/tonne

Payments terms: 30 days, other payment terms normalized

Publication: Weekly. Friday 3-4pm London time

<b>MB-AL-0426</b>	<b>Aluminium scrap, old sheet (Taint/Tabor), shredded and sorted, delivered consumer Europe, % of LME</b>
Quality:	Shredded old aluminium sheet that has been sorted magnetically (by eddy current) and by X-ray. No attachments. Trace impurities, paint and coatings permitted.
Quantity:	Minimum 25 tonnes
Location:	Delivered consumer works, Europe
Timing:	Within 4 weeks
Unit:	% of LME
Payments terms:	30 days, other payment terms normalized
Publication:	Weekly, Fridays, 4pm UK
Notes:	Typical market practice is that the final price is derived by applying the payable % to a future, unknown LME value, usually on a date within the month of delivery, buyer's choice, and whichever is lower between the cash and three-month price.

## Secondary aluminium

### EUROPE

<b>MB-AL-0005</b>	<b>Aluminium pressure diecasting ingot DIN226/A380, delivered Europe, €/tonne</b>
Quality:	Ingot. Cu 2-4%, Mg 0.15-0.55%, Si 8-11%, Fe 0.6-1.1%, Mn 0.55% max, Ni 0.55% max, Zn 1.2% max, Cr 0.15% max, others each 0.05% max/total 0.25% max
Quantity:	Min 25 tonnes
Location:	Delivered consumer works in Europe, most consumers in Northern Europe, in particular Germany
Timing:	Within 2 months
Unit:	EUR/tonne
Payment terms:	30 days, other payment terms normalized
Publication:	Weekly. Friday 3-4pm London time
Notes:	<b>Full methodology available here</b>

<b>MB-AL-0387</b>	<b>Aluminium pressure diecasting ingot DIN230, delivered Europe, € per tonne</b>
Quality:	Ingot, Cu 0.08% max, Si 10.5-13.5%, Fe 0.45-0.9%, Mn 0.55% max, Zn 0.15% max
Quantity:	Min 25 tonnes
Location:	Delivered consumer works in Europe, most consumers in Northern Europe, in particular Germany
Timing:	Within 2 months
Unit:	EUR per tonne
Payment terms:	30 days, other payment terms normalized
Publication:	Weekly, Friday 3-4pm London time.

**MB-AL-0388**
**Aluminium pressure diecasting  
ingot DIN239, delivered Europe,  
€ per tonne**

Quality:	Ingot, Cu 0.08% max, Si 9.00-11.00%, Fe 0.45-0.9%, Mn 0.55% max, Mg 0.25-0.50%, Zn 0.15% max
Quantity:	Min 25 tonnes
Location:	Delivered consumer works in Europe, most consumers in Northern Europe, in particular Germany
Timing:	Within 2 months
Unit:	EUR per tonne
Payment terms:	30 days, other payment terms normalized
Publication:	Weekly, Friday 3-4pm London time.

**MB-AL-0016**
**Aluminium scrap LM24 pressure  
diecasting ingot, delivered  
consumer UK, £/tonne**

Quality:	Ingot. Cu 3-4%, Mg 0.1% max, Si 7.5-9.5%, Fe 2% max, Mn 0.5% max, Ni 0.5% max, Zn 3% max.
Quantity:	Min 5 tonnes
Location:	Delivered consumer works, UK
Timing:	Within 2 months
Unit:	GBP/tonne
Payment terms:	Net monthly account
Publication:	Weekly. Wednesday 3-4pm London time

**MB-AL-0017**
**Aluminium scrap LM6/LM25  
gravity diecasting ingot, delivered  
consumer UK, £/tonne**

Quality:	LM6 - Cu 0.1%, Mg 0.1% max, Si 10-13%, Fe 0.06% max, Mn 0.5% max, Ni 0.1% max, Zn 0.1% max, Pb 0.1% max, Tin 0.05% max, Ti 0.2% max. LM25 - Cu 0.2%, Mg 0.2-0.4%, Si 6.5-7.5% max, Fe 0.2% max, Mn 0.1% max, Zn 0.1% max
Quantity:	Min 5 tonnes
Location:	Delivered consumer works, UK
Timing:	Within 2 months
Unit:	GBP/tonne
Payment terms:	Net monthly account
Publication:	Weekly. Wednesday 3-4pm London time

**JAPAN**
**MB-AL-0292**
**Aluminium ingot ADC12 spot  
(MJP), cfr Japan, \$ per tonne**

Quality:	Secondary aluminium alloy ingot: Cu: 1.5-3.5%, Si: 9.6-12%, Mg: 0.3% Max, Zn: 1.0% Max, Fe: 0.9% Max, Mn: 0.5% Max, Ni: 0.5% Max, Ti: 0.3% Max, Pb: 0.2% Max, Sn: 0.2% Max
Quantity:	min 20 tonnes
Location:	CFR Main Japanese ports at Yokohama, Nagoya, Osaka, Tokyo and Kobe
Unit:	USD/tonne
Payment terms:	Cash against documents within 7 days
Publication:	Weekly. Wednesday 3-4pm London time

**CHINA**
**MB-AL-0350**
**Aluminium ingot ADC12 ex-works  
China, duty-paid, yuan/tonne**

Quality:	Secondary aluminium alloy ingot: Cu: 1.5-3.5%, Si: 9.6-12%, Mg: 0.3% Max, Zn: 1.0% Max, Fe: 0.9% Max, Mn: 0.5% Max, Ni: 0.5% Max, Ti: 0.3% Max, Pb: 0.2% Max, Sn: 0.2% Max, min 20 tonnes
Quantity:	Ex-works China, duty-paid price in both south and north of China
Location:	RMB/tonne
Unit:	Cash against documents within 7 days
Payment terms:	Weekly. Wednesday 3-4pm London time

# Titanium scrap

**EUROPE**

<b>MB-TI-0001</b>	<b>Titanium scrap turnings, unprocessed type 90/6/4, 0.5% Sn max, cif Europe, \$/lb</b>
Quality:	Turnings. Ti 90%, Al 6%, V 4%, Sn 0.5%
Quantity:	18-22 tonne lots
Location:	cif major European ports
Unit:	USD/per lb Ti
Payment terms:	Cash. Other terms normalized
Publication:	Weekly. Wednesday 3pm London time

<b>MB-TI-0002</b>	<b>Titanium scrap turnings, unprocessed type 90/6/4, 0.5-2% Sn max, cif Europe, \$/lb</b>
Quality:	Turnings. Titanium 90%, Al 6%, V 4%, Sn 0.5-2%
Quantity:	18-22 tonne lots
Location:	cif major European ports
Unit:	USD/per lb Ti
Payment terms:	Cash. Other terms normalized
Publication:	Weekly. Wednesday 3pm London time

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