

Non-ferrous Metals



Methodology and price
specifications – June 2025

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Mission statement

Fastmarkets Metals, Minerals & 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 since 1882.

Fastmarkets Forest Products is the leading global provider of pricing intelligence for the global forest products industry.

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, Brussels, Sofia, Helsinki, Kyiv, New York, Boston, San Francisco, Eugene, Charlottesville, Atlanta, Pittsburgh, Memphis, Sao Paulo, Beijing, Shanghai, Hong Kong, Singapore, Malaysia, Melbourne, Mumbai and Istanbul.

The aim of this document is to provide a clear overview of Fastmarkets' methodology and the specifications for the prices it assesses. If you have any questions, please contact Editorial & Pricing Director for Non-Ferrous Metals & Mining Fleur Ritzema at fleur.ritzema@fastmarkets.com, Editorial & Pricing Director for Ferrous Metals & Mining Andrew Wells at andrew.wells@fastmarkets.com, Forest Products Senior VP of Indices Matt Graves at mgraves@fastmarkets.com for forest products or Editorial Director Tim Worledge at tim.worledge@fastmarkets.com for agricultural products.

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

MB-ALU-0001	Alumina metallurgical grade, exw China, yuan/tonne
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

MB-ALU-0002	Alumina index, fob Australia, \$/tonne
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 here .

BRAZIL

MB-ALU-0003	Alumina index adjustment to fob Australia index, Brazil, \$/dmt
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 here .

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 here .

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 here .

MB-AL-0343

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

SOUTH KOREA
MB-AL-0344

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

MB-AL-0307

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

CHINA
MB-AL-0345

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

MB-AL-0328

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

TAIWAN

MB-AL-0329	Aluminium P1020A premium, cif Taiwan, \$/tonne
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

MB-AL-0346	Aluminium P1020A premium, in-whs dup Rotterdam, \$/tonne
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 here .	

SOUTHEAST ASIA & EAST ASIA

MB-AL-0333	Aluminium P1020A warrant premium, in-whs Southeast Asia, \$/tonne
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

MB-AL-0004	Aluminium P1020A premium, in-whs dp Rotterdam, \$/tonne
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 here .

MB-AL-0334	Aluminium P1020A, warrant premium, in-whs East Asia, \$/tonne
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

MB-AL-0384	Aluminium P1020A Rotterdam premium P0610 netback rate
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

MB-AL-0386	Aluminium primary ingot premium, in-whs dp Rotterdam, inferred P0610 midpoint, \$/tonne
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MB-AL-0385	Aluminium primary ingot premium, in-whs dup Rotterdam, inferred P0610 midpoint, \$/tonne	UNITED STATES				
MB-AL-0316	Aluminium P1020A premium, fca dp Italy, \$/tonne	MB-AL-0338 Aluminium P1020A warrant premium, in-whs US, \$/tonne				
Quality:	P1020A or 99.7 % Minimum Al purity (Si 0.10% max, Fe 0.20% max). Ingot	Quality:	P1020A or 99.7 % Minimum Al purity (Si 0.10% max, Fe 0.20% max). Ingot, T-bar, sow	Quantity:	Min 25 tonnes	
Quantity:	Min 100 tonnes	Location:	In any LME-approved warehouse in the USA (10 delivery points in June 2017), premium on top of LME cash prices	Timing:	Prompt Release	
Location:	Free-carrier duty-paid Italy (north and south of country), premium on top of exchange-listed aluminium price	Unit:	USD per tonne	Payment terms:	Cash against documents (7 days after bill of lading date); other terms normalized	
Timing:	Within 4 weeks	Publication:	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:	Weekly. Tuesday 3-4pm London time					
Note:	Full methodology available here .					
MB-AL-0319	Aluminium P1020A premium, fca dp Spain, \$/tonne	MB-AL-0020 Aluminium P1020A premium, ddp Midwest US, cents/lb				
Quality:	P1020A or 99.7 % Minimum Al purity (Si 0.10% max, Fe 0.20% max). Ingot	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	
Quantity:	Min 100 tonnes	Location:	Delivered consumer works Midwest, premium on top of exchange-listed aluminium price	Timing:	US cents per pound	
Location:	free-carrier duty-paid Spain, premium on top of LME cash prices	Unit:	Within four weeks	Payment terms:	30 days, other payment terms normalized	
Timing:	Within 4 weeks	Publication:	Daily. 3-4pm London time	Note:	Full methodology available here .	
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					
TURKEY						
MB-AL-0337	Aluminium P1020A premium, cif dup Turkey, \$/tonne	MB-AL-0231 Aluminium P1020A all-in price, LME-based, delivered Midwest US, US cents/lb				
Quality:	P1020A or 99.7 % Minimum Al purity (Si 0.10% max, Fe 0.20% max). Ingot	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%)	Location:	Delivered consumer works Midwest	
Quantity:	Min 100 tonnes	Unit:	US cents per pound	Quantity:	100 tonnes	
Location:	CIF duty-unpaid Turkey (Marmara region), premium on top of LME cash prices	Publication:	Daily	Notes:	London Metal Exchange cash aluminium AM bid price plus Fastmarkets Midwest aluminium premium	
Timing:	Within 4 weeks					
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					

MEXICO
MB-AL-0407
Aluminium P1020A premium, cif Mexico, \$ per tonne

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); premium on top of LME exchange-listed aluminium price
Unit:	USD per tonne
Timing:	Any transaction data concluded within 4 weeks
Payment terms:	Cash against documents (within 7 days after bill of lading date), other payment terms normalized
Publication:	Fortnightly, Tuesday, 3-4pm London time

BRAZIL
MB-AL-0022
Aluminium P1020A premium, cif dup Brazilian main ports, \$/tonne

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 Brazil ports duty unpaid, excluding VAT, premium on top of LME cash prices
Timing:	Within 30-60 days
Unit:	USD/tonne
Payment terms:	Cash against documents (7 days after bill of lading date), other payment terms normalized
Publication:	Last Tuesday of each month, 3-4pm London time
Notes:	All origins except China

MB-AL-0394
Aluminium P1020A premium, low-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 up to 4% 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

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

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

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
Note:	Full methodology available here .

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

Extrusion billet AA6063. Billet with diameter of 6", 7" and 8"
Min 100 tonnes
Delivered in Spain (Bilbao region), duty-paid premium on top of LME cash prices
Within 3 months
USD/tonne
60-day payment, other payments terms normalized
Once every two weeks. Friday 3-4pm London time

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

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"
Min 100 tonnes
Delivered in Italy (Brescia region) duty-paid premium on top of LME cash price
Within 3 months
USD/tonne
30-day payment terms, other payment terms normalized
Weekly. Friday 3-4pm London time
Note: Full methodology available here .

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

MB-AL-0297	Aluminium 6063 extrusion billet premium, cif Thailand, \$/tonne
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

JAPAN

MB-AL-0298	Aluminium 6063 extrusion quarterly billet premium, cif MJP, \$/tonne
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

TURKEY

MB-AL-0296	Aluminium 6063 extrusion billet premium, cif Turkey (Marmara region), \$/tonne
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

BRAZIL

MB-AL-0287	Aluminium 6063 & 6060 extrusion billet premium, cif Brazilian main ports, \$/tonne
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

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.

Aluminium foundry alloys

EUROPE

MB-AL-0339	Aluminium foundry alloy silicon 7 ingot premium, ddp Germany, \$/tonne
Quality:	Primary Foundry Alloy silicon 7 AISi7Mg0.3-0.6 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

MB-AL-0340	Aluminium primary foundry alloy silicon 7 ingot premium, ddp Eastern Europe, \$/tonne	MB-AL-0349	Aluminium primary foundry alloy silicon 7 ingot annual premium, cif MJP, \$/tonne
Quality:	Primary Foundry Alloy silicon 7 AISi7Mg0.3-0.6 for wheel production. Ingot	Quality:	Primary Foundry Alloy silicon 7 A356.2 for wheel production
Quantity:	Min 100 tonnes	Quantity:	Min 500 tonnes
Location:	Delivered in Eastern Europe (Poland, Slovakia, Austria, Hungary, Czech Republic), duty-paid premium on top of LME cash prices	Location:	cif in main Japanese ports at Yokohama, Nagoya and Osaka, duty-unpaid premium on top of P1020 ingot premium and LME cash prices
Timing:	Within 2 months	Timing:	Within 4 weeks
Unit:	USD/tonne	Unit:	USD per tonne
Payment terms:	30-day payment terms, other payments terms normalized	Payment terms:	Letter of Credit or Telegraphic Transfer, other payments terms normalized
Publication:	Twice monthly. Second and last Friday of the month between 3pm and 4pm London time	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

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

UNITED STATES

MB-AL-0342	Aluminium primary foundry alloy silicon 7 ingot/T-bar premium dlvd dup over P1020A Midwest US, US cents/lb
Quality:	Primary Foundry Alloy silicon 7 A356.2 for wheel production. Ingot or T-bar
Quantity:	Min 100 tonnes
Location:	Delivered in US Midwest region, duty-unpaid premium on top of P1020A ingot Midwest premium and LME cash prices
Timing:	Within 2 months
Unit:	US cents /lb
Payment terms:	7-30 day payment, other terms normalized
Publication:	Monthly. Second Friday of the month, 3-4pm London time

MB-AL-0277	Aluminum alloy C355.2 ingot, delivered, \$/lb	MB-AL-0046	Aluminum 6063 alloyed ingot, US cents/lb
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	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%
Location:	Delivered. Domestic producer estimated price.	Quantity:	20 tons
Unit:	US dollars per pound	Location:	Delivered
Quantity:	20 tons	Unit:	US cents per pound
Publication:	Daily	Publication:	Monthly
Formula:	Calculated. Formula: LME cash aluminium official price (ask) + Fastmarkets AMM Midwest aluminium premium (average) + Fastmarkets AMM alloy surcharge assessment.	MB-AL-0040	Aluminum alloy A380.1, delivered Midwest, US cents/lb
Quality:	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	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
Location:	Delivered. Domestic producer estimated price.	Location:	Delivered Midwest
Unit:	US dollars per pound	Unit:	US cents per pound
Quantity:	20 tons	Quantity:	Truckload/20 tons
Publication:	Daily	Payment terms:	Net 30 days post delivery
Formula:	LME cash aluminium official price (ask) + Fastmarkets AMM Midwest aluminium premium (average) + Fastmarkets AMM alloy surcharge assessment.	Publication:	Weekly, Thursday
MB-AL-0276	Aluminum alloy A356.2 ingot, delivered, \$/lb	MB-AL-0041	Aluminum alloy 319.1, delivered Midwest, cents/lb
Quality:	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	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%
Location:	Delivered. Domestic producer estimated price.	Location:	Delivered Midwest
Unit:	US dollars per pound	Unit:	US cents per pound
Quantity:	20 tons	Quantity:	20 tons
Publication:	Daily	Publication:	Weekly, Thursday
Formula:	LME cash aluminium official price (ask) + Fastmarkets AMM Midwest aluminium premium (average) + Fastmarkets AMM alloy surcharge assessment.	MB-AL-0042	Aluminum alloy 356.1, delivered Midwest, cents/lb
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%	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%
Location:	Delivered. Domestic producer estimated price.	Quantity:	min 20 tons
Unit:	US cents per pound	Location:	Delivered Midwest
Quantity:	20 tons	Unit:	US cents per pound
Publication:	Monthly	Publication:	Weekly, Thursday

MB-AL-0043	Aluminum alloy A360.1, delivered Midwest, cents/lb	MB-AL-0422	Aluminium alloy A356.1, delivered to consumer Monterrey, Mexico, pesos/lb
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%	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	Quantity:	Truckload, 20 - 25 tonnes (44,000-55,000 lbs approx.)
Location:	Delivered Midwest	Location:	Delivered to consumer, Monterrey, Mexico
Unit:	US cents per pound	Unit:	Mexican pesos per pound
Publication:	Weekly, Thursday	Publication:	Weekly, Monday, 2-3pm New York time
MB-AL-0044	Aluminum alloy A413.1, delivered Midwest, cents/lb	Notes:	16% VAT withholding inclusive assessment
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%		
Quantity:	Min 20 tons		
Location:	Delivered Midwest		
Unit:	US cents per pound		
Publication:	Weekly, Thursday		

MEXICO

MB-AL-0421	Aluminium alloy A380.1, delivered to consumer Monterrey, Mexico, pesos/lb
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
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

MB-AL-0393	Aluminium low-carbon differential P1020A, Japan, South Korea, \$/tonne
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

MB-AL-0381	Aluminium low-carbon differential P1020A, Europe, \$/tonne
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 here

MB-AL-0382	Aluminium low-carbon differential value added product, Europe, \$/tonne
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:	Europe
Unit:	USD/tonne
Timing:	Within three months
Publication:	Monthly, first Friday of the month, 4pm London time
Note:	Full methodology available here . This differential is to be discontinued with the last publishing date on Friday March 1, 2024 following the launch of MB-AL-0391 and MB-AL-0392

MB-AL-0391	Aluminium low-carbon differential billet, Europe, \$/tonne
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	Aluminium low-carbon differential value-added product ex-billet, Europe, \$/tonne
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	Aluminium low-carbon differential P1020A, US Midwest, US cents/lb
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	Aluminium low-carbon differential value-added product, US Midwest, US cents/lb
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	Aluminium low-carbon differential P1020A, cif Mexico, \$ per tonne
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

MB-CU-0287	Copper concentrates TC index, cif Asia Pacific, \$/dmtu
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 here .

MB-CU-0288	Copper concentrates RC index, cif Asia Pacific, \$/dmtu
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 here .

CHINA

MB-CU-0408	Copper blister 98-99% RC spot, cif China, \$/tonne
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

MB-CU-0409	Copper blister 98-99% RC annual benchmark, cif China, \$/tonne
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

MB-CU-0405	Copper grade A cathode premium, in-whs Shanghai, \$/tonne
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

MB-CU-0383	Copper grade A cathode ER premium, bonded in-whs Shanghai, \$/tonne	MB-CU-0403	Copper grade A cathode premium, cif Shanghai, \$/tonne
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 here . Exchange deliverable units
MB-CU-0382	Copper grade A cathode SX-EW premium, bonded in-whs Shanghai, \$/tonne	MB-CU-0380	Copper grade A cathode ER premium, cif Shanghai, \$/tonne
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
MB-CU-0384	Copper grade A cathode SX-EW premium, cif Shanghai, \$/tonne		
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

MB-CU-0412	Copper EQ cathode premium, cif Shanghai, \$/tonne	MB-CU-0513	Copper EQ cathode premium, cif Southeast Asia, \$/tonne
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
<u>SOUTHEAST ASIA & EAST ASIA</u>			
MB-CU-0399	Copper grade A cathode premium, cif Southeast Asia, \$/tonne	MB-CU-0386	Copper grade A cathode premium, cif Taiwan, \$/tonne
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

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

MB-CU-0406	Copper grade A cathode premium, cif Leghorn, \$/tonne	MB-CU-0400	Copper grade A cathode warrant premium, in-whs North Europe, \$/tonne
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:	25 tonnes	Quantity:	Min 25 tonnes
Location:	cif delivery in Leghorn (Italy), duty unpaid premium on top of LME cash prices	Location:	In any LME-approved warehouse in North Europe (Belgium, Germany, the Netherlands, Sweden and the UK), premium on top of LME cash prices
Timing:	Within 4 weeks	Timing:	Prompt release
Unit:	USD/tonne	Unit:	USD/tonne
Payment terms:	Cash, other payment 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
Notes:	Assessed range and single number Exchange deliverable units		
MB-CU-0372	Copper grade A cathode premium, delivered Germany, \$/tonne	MB-CU-0401	Copper grade A cathode warrant premium, in-whs South Europe, \$/tonne
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:	Delivered consumer works in Germany, duty unpaid 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:	Within 4 weeks	Timing:	Prompt release
Unit:	USD/tonne	Unit:	USD/tonne
Payment terms:	Cash, other payment 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
Note:	Exchange deliverable units		
		MB-CU-0411	Copper EQ cathode premium, cif Europe, \$/tonne.
		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
		Location:	cif Europe
		Timing:	Within 4 weeks
		Unit:	USD per tonne
		Payment terms:	Cash payment, other terms normalized
		Publication:	Once every two weeks. Tuesday 4pm London time
		Note:	Non-exchange deliverable units

UNITED STATES

MB-CU-0002	Copper grade 1 cathode premium, ddp Midwest US, US cents/lb
Quality:	Grade A 99.9935% min copper cathode conforming to LME specifications BS EN 1978:1998 – Cu-CATH-1 or Grade 1 Electrolytic Copper Cathode ASTM B115-00
Quantity:	Min 25 tonnes
Location:	Delivered consumer works Midwest US
Timing:	Within 4 weeks
Unit:	USD/lb
Payment:	30 days, other payment terms normalized
Publication:	Weekly. Tuesday 3-4pm London time
MB-CU-0309	Copper grade 1 cathode all-in price, ddp Midwest US, US cents/lb
Quality:	Grade 1 Electrolytic Copper Cathode as adopted by the American Society for Testing and Materials (B115-00)
Location:	Delivered Midwest
Unit:	US cents per pound
Publication:	Daily
Notes:	Comex spot close price plus Fastmarkets copper premium
MB-CU-0377	Copper grade A cathode warrant premium, in-whs US, \$/tonne
Location:	Any LME-approved warehouse in the US, premium on top of LME cash prices
Quality:	Grade A 99.9935% min copper cathode conforming to LME specifications BS EN 1978:1998 – Cu-CATH-1
Unit:	USD/tonne
Quantity:	25 tonnes
Payment terms:	Cash, other payment terms normalized
Timing:	Prompt release
Publication:	Fortnightly. Weds 3-4pm London time

Copper rod
UNITED STATES

MB-CU-0410	Copper rod premium, ddp Midwest US, US cents/lb
Quality:	Purity of 99.95-99.99%. Thicknesses of 8 millimeters or 0.3125 inches
Quantity:	Min 25,000 pounds
Location:	Delivered US Midwest
Unit:	US cents per pound
Publication:	Monthly. First Thursday

Lead concentrate
CHINA

MB-PB-0104	Lead spot concentrate TC, high silver, cif China, \$/tonne
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
MB-PB-0103	Lead spot concentrate TC, low silver, cif China, \$/tonne
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

MB-PB-0087	Lead 99.97% ingot premium, cif India, \$/tonne
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
MB-PB-0086	Lead 99.99% ingot premium, cif India, \$/tonne
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

MB-PB-0107	Lead 99.97% ingot premium, cif Southeast Asia, \$/tonne
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
MB-PB-0108	Lead 99.99% ingot premium, cif Southeast Asia, \$/tonne
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	MB-PB-0106	Lead min 99.97% ingot warrant premium, in-whs East Asia \$/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)	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	Quantity:	25 tonnes
Location:	cif delivery main Taiwan ports (Taipei, Kaohsiung or Keelung), duty-unpaid premium on top of LME cash prices	Location:	In any LME-approved warehouse in Taiwan (Kaohsiung) and South Korea (Gwangyang, Busan or Incheon), premium on top of LME cash prices
Timing:	Within 5 weeks	Timing:	Prompt release
Unit:	USD/tonne	Unit:	USD/tonne
Payment terms:	Letter of credit, telegraphic transfer or cash against documents, other terms normalized	Payment terms:	Cash, other terms normalized
Publication:	Once every two weeks. Tuesday 3-4pm London time	Publication:	Fortnightly. Weds 3-4pm London time
EUROPE			
MB-PB-0083	Lead 99.99% ingot premium, cif Taiwan, \$/tonne	MB-PB-0109	Lead 99.97% ingot warrant premium, in-whs North Europe, \$/tonne
Quality:	Lead ingot 99.99% min purity to LME specification BS EN 12659:1999, GB/T 469/2005 or ASTM B29-03 (2009)	Location:	In any LME-approved warehouse in North Europe (Belgium, Germany, the Netherlands, Sweden and the UK), premium on top of LME cash prices
Quantity:	25 tonnes	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)
Location:	cif main Taiwanese ports (Taipei, Kaohsiung or Keelung), duty-unpaid premium on top of LME cash prices	Unit:	USD/tonne
Timing:	Within 5 weeks	Quantity:	Min 25 tonnes
Unit:	USD/tonne	Payment terms:	Cash, other payment terms normalized
Payment terms:	Letter of credit, telegraphic transfer or cash against documents, other terms normalized	Timing:	Prompt release
Publication:	Once every two weeks. Tuesday 3-4pm London time	Form:	Cathode
MB-PB-0105	Lead min 99.97% ingot warrant premium, in-whs Southeast Asia \$/tonne	Publication:	Fortnightly. Weds 3-4pm London time
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		

MB-PB-0110	Lead 99.97% ingot warrant premium, in-whs South Europe, \$/tonne	MB-PB-0097	Lead 99.97% ingot warrant premium, in-whs US, \$/tonne
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)	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:	Min 25 tonnes	Quantity:	Min 25 tonnes
Location:	In any LME-approved warehouse in South Europe (Spain, Italy), premium on top of LME cash prices	Location:	In any LME-approved warehouse in the USA, premium on top of LME cash prices
Timing:	Prompt release	Timing:	Prompt release
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:	Fortnightly. Weds 3-4pm London time

UNITED STATES

MB-PB-0006	Lead 99.97% ingot premium ddp Midwest US, US cents/lb
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 25 tonnes
Location:	Delivered consumer works, US Midwest
Timing:	Within 5 weeks
Unit:	US cents/lb
Payment terms:	30 days, other payment terms normalized
Publication:	Monthly. First Tuesday 3-4pm London time

MB-PB-0056	Lead 99.97% ingot all-in price, ddp Midwest US, US cents/lb
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:	Delivered consumer works, Midwest
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

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

MB-NI-0245

Shanghai, Nickel premium, 99.80% purity, briquette, duty free, cif, \$ per tonne

Quality:	Nickel content 99.8% in line with LME specifications
Quantity:	Min 6 tonnes
Location:	cif China
Timing:	Within 8 weeks
Unit:	USD/tonne
Payment terms:	Letter of credit and telegraphic transfer
Publication:	Last Tuesday of each month
Notes:	Origin = Australia and Madagascar

SOUTHEAST ASIA & EAST ASIA

MB-NI-0137

Nickel min 99.8% full plate warrant premium, in-whs Southeast Asia, \$/tonne

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:	6 tonnes
Location:	Any LME-approved warehouse in Singapore and Malaysia (Johor, Port Klang), 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

MB-NI-0138

Nickel min 99.8% briquette warrant premium, in-whs Southeast Asia, \$/tonne

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
Location:	Any LME-approved warehouse in Singapore/Malaysia (Johor, Port Klang), 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

MB-NI-0139	Nickel min 99.8% full plate warrant premium, in-whs East Asia, \$/tonne	EUROPE
Quality:	Full-plate cathode. 99.80% min primary nickel conforming to LME specification: ASTM B39-79 (2013) or GB/T 6516-2010 - Ni9990 grade	MB-NI-0003
Quantity:	6 tonnes	Quality:
Location:	In any LME-approved warehouse in Taiwan (Kaohsiung) and South Korea (Gwangyang, Busan or Incheon), premium on top of LME cash prices	Quantity:
Timing:	Prompt release	Location:
Unit:	USD/tonne	Timing:
Payment terms:	Cash, other terms normalized	Unit:
Publication:	Fortnightly. Weds 3-4pm London time	Payment terms:
		Publication:
MB-NI-0140	Nickel min 99.8% briquette warrant premium, in-whs East Asia, \$/tonne	MB-NI-0001
Quality:	Briquette. 99.80% min primary nickel conforming to LME specification: ASTM B39-79 (2013) or GB/T 6516-2010 - Ni9990 grade	Quality:
Quantity:	6 tonnes	Quantity:
Location:	In any LME-approved warehouse in Taiwan (Kaohsiung) and South Korea (Gwangyang, Busan or Incheon), premium on top of LME cash prices	Location:
Timing:	Prompt release	Timing:
Unit:	USD/tonne	Unit:
Payment terms:	Cash, other payment terms normalized	Payment terms:
Publication:	Fortnightly. Weds 3-4pm London time	Publication:
		MB-NI-0002
		Nickel briquette premium, in-whs Rotterdam, \$/tonne
		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

MB-NI-0141	Nickel min 99.8% warrant premium, in-whs North Europe, \$/tonne	MB-NI-0242	Nickel 4x4 cathode all-in price, delivered Midwest US, US cents/lb
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	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.
Quantity:	Min 6 tonnes	Quantity:	Smaller cut cathode dimensions may be normalized.
Location:	Any LME-approved warehouse in North Europe (Belgium, Germany, the Netherlands, Sweden and the UK), premium on top of LME cash prices	Location:	Min 20 tonnes
Timing:	Prompt release	Delivery:	Delivered consumer works US
Unit:	USD/tonne	Unit:	Within four weeks
Payment terms:	Cash, other terms normalized	Payment terms:	US cents per lb
Publication:	Fortnightly. Weds 3-4pm London time	Publication:	30 days, other terms normalized
		Notes:	Daily
			London Metal Exchange cash nickel AM bid price plus Fastmarkets nickel 4x4 cathode premium

UNITED STATES

MB-NI-0240	Nickel 4x4 cathode premium, delivered Midwest US, US cents/lb	MB-NI-0241	Nickel briquette premium, delivered Midwest US, US cents/lb
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	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	Quantity:	Min 20 tonnes
Location:	Delivered consumer works US	Location:	Delivered consumer works US
Timing:	Within four weeks	Timing:	Within four weeks
Unit:	US cents per lb	Unit:	US cents per lb
Payment terms:	30 days, other payment terms normalized	Payment terms:	30 days, other payment terms normalized
Publication:	Monthly. First Tuesday 3-4pm London time	Publication:	Monthly. First Tuesday 3-4pm London time

MB-NI-0243
Nickel briquette all-in price, delivered Midwest US, US cents/lb

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

GLOBAL
MB-NI-0256
Nickel low-carbon metal premium, cif global, \$/tonne

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
MB-SN-0038
Tin 99.9% ingot premium, cif Taiwan, \$/tonne

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

MB-SN-0045
Tin 99.9% ingot premium, fob Singapore, \$/tonne

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

MB-SN-0042
Tin min 99.85% ingot warrant premium, in-whs Southeast Asia, \$/tonne

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
MB-SN-002
Tin 99.9% ingot premium, in-whs Rotterdam, \$ per tonne

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

MB-SN-0029
Tin 99.9% low lead ingot premium, in-whs Rotterdam, \$/tonne

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

MB-SN-0011
Tin grade A min 99.85% ingot premium, ddp Midwest US, \$/tonne

Quality:	Delivered premium over cost of tin of 99.85% purity (min) conforming to BS EN 610:1996
Quantity:	Min 20 tonnes
Location:	ddp US Midwest
Timing:	Within 2 weeks
Unit:	US dollars per tonne
Payment terms:	30-days, other terms normalized
Publication:	Monthly. First Tuesday 3-4pm London time

MB-SN-0012
Tin grade A min 99.85% ingot all-in price, ddp Midwest US, \$/tonne

Quality:	Ingot. Min 99.85% tin purity conforming to LME specification BS EN 610:1996 and ASTM grade A, max 500ppm lead
Quantity:	Min 20 tonnes
Location:	Delivered consumer works 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

UNITED STATES
MB-SN-0036
Tin 99.85% ingot premium, in-whs Baltimore, \$/tonne

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

Zinc concentrate

CHINA

MB-ZN-0110	Zinc spot concentrate TC, cif China, \$/per tonne
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
MB-ZN-0120	Zinc concentrate TC spot, delivered North China, yuan/tonne
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.
MB-ZN-0121	Zinc concentrate TC spot, delivered South China, yuan/tonne
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

MB-ZN-0119	Zinc min 99.995% ingot premium, in-whs Shanghai, \$/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:	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
MB-ZN-0106	Zinc SHG min 99.995% ingot premium, cif Shanghai, \$/per 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 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	MB-ZN-0115	Zinc SHG 99.995% ingot premium, fca Malaysia, \$/per 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	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 25 tonnes
Location:	cif Taiwanese ports, premium on top of LME cash prices	Location:	fca main Malaysian ports (Johor, Port Klang), premium on top of LME cash price
Timing:	Within 4 weeks	Timing:	Within 4 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 or telegraphic transfer, other terms normalized
Publication:	Once every two weeks. Tuesday 3-4pm London time	Publication:	Once every two weeks. Tuesday 3-4pm London time

SOUTHEAST ASIA & EAST ASIA

MB-ZN-0113	Zinc SHG 99.995% ingot premium, fca Singapore, \$/per tonne	MB-ZN-0093	Zinc SHG min 99.995% ingot premium, cif Southeast Asia, \$/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	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 25 tonnes
Location:	fca Singapore, premium on top of LME cash price	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
Timing:	Within 4 weeks	Timing:	Within 4 weeks
Unit:	USD/tonne	Unit:	USD/tonne
Payment terms:	Letter of credit or telegraphic transfer, other terms normalized	Payment terms:	Letter of credit or telegraphic transfer, other terms normalized
Publication:	Once every two weeks. Tuesday 3-4pm London time	Publication:	Once every two weeks Tuesday 3-4pm London time

MB-ZN-0123	Zinc SHG min 99.995% warrant premium, in-whs Southeast Asia, \$/tonne	MB-ZN-0099	Zinc SHG min 99.995% ingot premium, dp fca Antwerp, \$/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	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 100 tonnes	Quantity:	Min 100 tonnes
Location:	Any LME-approved warehouse in Singapore/Malaysia (Johor, Port Klang), premium on top of LME cash prices	Location:	Free-carrier basis delivery in Antwerp, duty-unpaid premium on 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 terms normalized
Publication:	Fortnightly. Weds 3-4pm London time	Publication:	Weekly. Tuesday 3-4pm London time

EUROPE

MB-ZN-0001	Zinc SHG min 99.995% ingot premium, dp fca Rotterdam, \$/tonne	MB-ZN-0103	Zinc SHG min 99.995% ingot premium, fca dp Italy, \$/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	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 100 tonnes	Quantity:	Min 100 tonnes
Location:	Free-carrier basis delivery in Rotterdam, duty-paid premium on top of LME cash prices	Location:	Free-carrier basis delivery in Italy, duty-paid premium on top of LME cash prices
Timing:	Within 4 weeks	Timing:	Within 4 weeks
Unit:	USD/tonne	Unit:	USD/tonne
Payment terms:	Cash, other payment terms normalized	Payment terms:	Cash, other terms normalized
Publication:	Weekly. Tuesday 3-4pm London time	Publication:	Fortnightly. Tuesday 3-4pm London time

MB-ZN-0102	Zinc SHG min 99.995% ingot premium, ddp Italy, \$/per 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 100 tonnes
Location:	Delivered duty paid consumer works in Italy, premium on LME cash prices
Timing:	Within 4 weeks
Unit:	USD/tonne
Payment terms:	Cash, other terms normalized
Publication:	Fortnightly. Tuesday 3-4pm London time

MB-ZN-0117		Zinc SHG min 99.995% warrant premium, in-whs North Europe, \$/tonne	UNITED STATES
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	MB-ZN-0005	Zinc SHG min 99.995% ingot premium, ddp Midwest US, US cents/lb
Quantity:	Min 100 tonnes	Quality:	Min 99.995% special high grade zinc ingot, conforming to LME specifications and relevant BS EN standards
Location:	In any LME-approved warehouse in North European locations (Belgium, Germany, the Netherlands, Sweden and the UK), premium on top of LME cash prices	Quantity:	Min 25 tonnes
Timing:	Prompt release	Location:	Delivered consumer works Midwest US
Unit:	USD/tonne	Timing:	Within 4 weeks
Payment terms:	Cash, other payment terms normalized	Unit:	US cents per pound
Publication:	Fortnightly. Weds 3-4pm London time	Payment terms:	30 days, other payment terms normalized
MB-ZN-0082		Zinc SHG min 99.995% ingot premium monthly average, delivered UK, £/tonne	Publication: Weekly. Tuesday 3-4pm London time
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	MB-ZN-0061	Zinc SHG min 99.995% ingot all-in price, ddp Midwest US, US cents/lb
Quantity:	Min 25 tonnes	Quality:	Zinc of 99.995% purity (min.) conforming to BS EN 1179: 2003
Location:	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)	Location:	Delivered consumer works, Midwest US cents per pound
Unit:	GBP/tonne	Unit:	Daily
Payment terms:	Cash, other payment terms normalized	Publication:	London Metal Exchange cash zinc AM bid price plus Fastmarkets zinc premium
Publication:	Monthly. 1st working day of the month between 1pm and 2pm London time	MB-ZN-0104	Zinc SHG min 99.995% warrant premium, in-whs US, \$/per tonne
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.	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	Quantity:	25 tonnes
Location:	In any LME-approved warehouse in the US, premium on top of LME cash prices	Location:	In any LME-approved warehouse in the US, premium on top of LME cash prices
Timing:	Prompt release	Timing:	Prompt release
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:	Fortnightly. Weds 3-4pm London time

Bulk alloys

Ferro-chrome

CHINA

MB-FEC-0011	Ferro-chrome 50% Cr import, cif main Chinese ports, \$/lb contained Cr
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
MB-FEC-0005	Ferro-chrome contract 6-8% C, basis 50% Cr, ddp China, yuan/tonne
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
MB-FEC-0006	Ferro-chrome spot 6-8% C, basis 50% Cr, ddp China, yuan/tonne
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

		EUROPE
MB-FEC-0025	Green ferroalloy domestic, ferro-chrome 6-8% C, 50% Cr, differential to FeCr assessment, ddp China, yuan/tonne	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:	Scope 1-3 emissions of 0-3 tonnes of CO ₂ , 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	Quality: Lump, Cr 65-70%, C 6-8.5%, Si 1.5%.
Quantity:	Min 3 tonnes	Quantity: Min 24 tonnes
Location:	ddp China	Location: Delivered consumer works Europe (other incoterms will be normalized)
Timing:	Open	Unit: USD per lb of chrome contained
Unit:	CNY/tonne, normalized to Cr 50%	Payment terms: 30 days, other payment terms normalized
Publication:	Weekly. Tuesday 5-6pm Shanghai time	Publication: Weekly, Tuesday at 2-3pm London time
MB-FEC-0026	Green ferroalloy domestic, ferro-chrome 6-8% C, 50% Cr, weekly inferred price, ddp China, yuan/tonne	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:	Scope 1-3 emissions of 0-3 tonnes of CO ₂ , 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	Quality: Lump, Cr 60-64.9%, C 6-8.5%, Si 3% max.
Quantity:	Min 3 tonnes	Quantity: Min 24 tonnes
Location:	ddp China	Location: cif major European ports (other incoterms will be normalized)
Timing:	Open	Unit: USD per lb of chrome contained
Unit:	CNY/tonne, normalized to Cr 50%	Payment terms: 30 days, other payment terms normalized
Publication:	Weekly. Tuesday 5-6pm Shanghai time	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: Delivered 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

MB-FEC-0002	Ferro-chrome low carbon, 65% Cr, max 0.06% C, delivered Europe, \$/lb Cr	MB-FEC-0001	Ferro-chrome low phosphorous, min 65% Cr, max 0.015% P, delivered Europe, \$/lb
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	Quality:	Lump. Cr 65% min, Si 1% max, C 6-8%, P 0.015% max, Ti 0.05%
Quantity:	Min 25 tonnes	Quantity:	Min 25 tonnes
Location:	Delivered consumer works Europe	Location:	Delivered consumer works Europe
Unit:	USD per lb of chrome contained	Unit:	USD per lb of chrome contained
Payment terms:	30 days, other payment terms normalized	Payment terms:	30 days, other payment terms normalized
Publication:	Fortnightly. Tuesday between 2pm and 3pm London time	Publication:	Fortnightly. Tuesday 2-3pm London time
MB-FEC-0003	Ferro-chrome 0.10% C, average 65-70% Cr, delivered Europe, \$/lb Cr	MB-FEC-0016	Ferro-chrome lumpy Cr charge quarterly, basis 52% Cr (and high carbon), 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	Quality:	Lump. Basis 52% Cr, high carbon
Quantity:	Min 25 tonnes	Quantity:	Min not specified
Location:	Delivered consumer works Europe	Location:	Delivered consumer works Europe
Unit:	USD per lb of chrome contained	Unit:	US cents per lb of chrome contained
Payment terms:	30 days, other payment terms normalized	Payment terms:	Not specified
Publication:	Fortnightly. Tuesday 2-3pm London time	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.
MB-FEC-0022	Ferro-chrome low carbon, 0.10% C, basis 60-64.9% Cr, CIF Europe, \$ per lb Cr	MB-FEC-0019	Ferro-chrome lumpy Cr benchmark indicator, charge basis 52% (and high carbon), Europe, \$/lb
Quality:	Lump, Cr 60-64.9%, C 0.10%, Si 1.5% max, P 0.03% max, S 0.03% max	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:	CIF 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		

UNITED STATES
MB-FEC-0007 **Ferro-chrome high carbon 6-8% C, basis 60-65% Cr, max 2% Si, in-whs Pittsburgh, US cents/lb**

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

MB-FEC-0008 **Ferro-chrome low carbon 0.05% C, 65% Cr min, in-whs Pittsburgh, US cents/lb**

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

MB-FEC-0009 **Ferro-chrome low carbon 0.10% C, 62% Cr min, in-whs Pittsburgh, US cents/lb**

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

MB-FEC-0010 **Ferro-chrome low carbon 0.15% C, 60% Cr min, in-whs Pittsburgh, US cents/lb**

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

Ferro-manganese
EUROPE
MB-FEM-0006 **Ferro-manganese basis 78% Mn max, standard 7.5% C, delivered Europe, €/tonne**

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

CHINA
MB-FEM-0007 **Ferro-manganese 65% Mn min, max 7% C, in-whs China, yuan/tonne**

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

MB-FEM-0008	Green ferroalloy domestic, ferro-manganese max 7% C, 65% Mn min, differential to FeMn assessment, in-whs China, yuan/tonne	UNITED STATES
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	Quality: Mn 780%, C 7.5%
Quantity:	Min 3 tonnes	Quantity: Min 20 tons
Location:	In-whs China	Unit: US dollars per long ton
Timing:	Open	Location: In-warehouse Pittsburgh
Unit:	CNY/tonne, normalized to Mn 65%	Frequency: Weekly, Thursday
Publication:	Weekly. Friday 5-6pm Shanghai time	
MB-FEM-0009	Green ferroalloy domestic, ferro-manganese max 7% C, 65% Mn min, weekly inferred price, in-whs China, yuan/tonne	MB-FEM-0002 Ferro-manganese low carbon 80% Mn, max 0.80% C, in-whs Pittsburgh, US cents/lb
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	Quality: Manganese min. 80.00%, carbon max. 0.80%
Quantity:	Min 3 tonnes	Quantity: Min 20 tons
Location:	In-whs China	Location: In-warehouse Pittsburgh
Timing:	Open	Unit: US cents per pound
Unit:	CNY/tonne, normalized to Mn 65%	Publication: Once a week, every Thursday
Publication:	Weekly. Friday 5-6pm Shanghai time	
MB-FEM-0009		MB-FEM-0003 Ferro-manganese medium carbon 80% Mn, max 1.50% C, in-whs Pittsburgh, US cents/lb
Quality:		Quality: Manganese min 80%, carbon max 1.50%
Quantity:		Quantity: Min 20 tons
Location:		Unit: US cents per pound
Timing:		Location: In-whs Pittsburgh
Unit:		Frequency: Weekly, Thursday
Publication:		

Ferro-silicon

UNITED STATES

MB-FES-0002 **Ferro-silicon 75% Si, in-whs Pittsburgh, US cents/lb**

Quality: Silicon 75.00%
 Quantity: Min 20 tons
 Location: In-warehouse Pittsburgh
 Unit: US cents per pound
 Publication: Weekly, Thursday

CHINA

MB-FES-0001 **Ferro-silicon 75% Si min, in-whs China, yuan/tonne**

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

MB-FES-0004 **Ferro-silicon 75% Si min export, fob China, \$/tonne**

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

MB-FES-0006 **Ferro-silicon 75% Si min, cif Japan, \$/tonne**

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

MB-FES-0005 **Ferro-silicon lumpy basis 75% Si (scale pro rata), delivered Europe, €/tonne**

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

MB-SIM-0002	Silico-manganese lumpy 65-75% Mn, basis 15-19% Si (scale pro rata), major European destinations €/tonne
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

MB-SIM-0001	Silico-manganese 65% Mn min, max 17% Si, in-whs China, yuan/tonne
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

MB-SIM-0004	Silico-manganese 65% Mn min, min 16% Si, fob India, \$/tonne
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

MB-SIM-0003	Silico-manganese 65% Mn min, min 16% Si, in-whs Pittsburgh, US cents/lb
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

MB-FEN-0003	Ferro-nickel premium/discount, 26-32% Ni contained, cif China, \$/tonne
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

MB-FEN-0006	Ferro-nickel 20-25% nickel contained, outright price, cif China, \$/tonne
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.

MB-FEN-0007	Ferro-nickel 20-25% nickel contained, premium/discount, cif China, \$/tonne
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

	MB-FEN-0001 Nickel pig iron, high-grade NPI content 10-15%, contract, ddp China, yuan/nickel unit price
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
	MB-FEN-0002 Nickel pig iron, high-grade NPI content 10-15%, spot, ddp China, yuan/nickel unit price
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
	MB-FEN-0005 Nickel pig iron, 10-14% ni content, FOB Indonesia, \$/nickel unit
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 molybdc 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

MB-FET-0002	Ferro-titanium 68-72% Ti, ex-whs US, \$/lb
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

Titanium ingot 6Al-4V, fob shipping point US, \$/lb
Quality:
Location:
Unit:
Publication:

6Al-4V (aluminum 6%, vanadium 4%, titanium remainder)
fob shipping point
US dollars per lb
Quarterly on the 10th of the month by 5pm New York time

Tungsten

EUROPE

MB-W-0001	Tungsten APT 88.5% WO3 min Europe, cif Rotterdam and Baltimore duty-free, \$/mtu WO3
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 0.001% max, Pb 0.0005% max, S:0.001% max, Sb 0.0005% max, Si 0.001% max, Sn 0.0005% max, Ti 0.0005% max, V 0.0005% 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
MB-W-0003
Tungsten APT 88.5% WO₃ min, fob main ports China, \$/mtu WO₃

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
Tungsten concentrate 65% WO₃, in-whs China, yuan/tonne

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
MB-FEU-0001
Ferro-tungsten basis 75% W, in-whs dup Rotterdam, \$/kg W

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
MB-FEU-0003
Ferro-tungsten basis 75% W, fob main ports China, \$/kg W

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

MB-FEV-0001	Ferro-vanadium basis 78% V min, 1st grade, ddp Western Europe, \$/kg V
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	Vanadium pentoxide 98% V2O5 min, in-whs Rotterdam, \$/lb V2O5
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, Na2+K2O 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

MB-FEV-0003	Ferro-vanadium 78% V min, fob China, \$/kg V
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

MB-FEV-0002	Ferro-vanadium 70-80% V, in-whs Pittsburgh, \$/lb
Quality:	V 70-80%
Quantity:	Min 10 tons
Location:	In-warehouse Pittsburgh
Unit:	USD per lb
Publication:	Weekly. Thursday
MB-V-0002	Vanadium pentoxide 98% V2O5 min, fob China, \$/lb V2O5
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, Na2+K2O 1.50% max.
Quantity:	Min 5 tonnes (+/- 5%)
Location:	fob China (other delivery terms normalized)
Timing:	Within 20 days
Unit:	\$/lb V2O5
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
MB-V-0003	Vanadium nitrogen, basis 77%V, 16% N, ex-works China
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
MB-V-0004	Vanadium pentoxide 98% V2O5 min, ex-works China
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, Na2+K2O 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

MB-FN-0001	Ferro-niobium 63-67%, delivered consumer works Europe, duty paid, \$/kg Nb
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

CHINA

MB-BX-0016	Bauxite, cif China, \$ per dmt
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

MB-BX-0015	Bauxite, fob Trombetas, Brazil, \$/dmt
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

MB-CHO-0003	Chrome ore South Africa UG2/MG concentrates index, cif China, \$/tonne
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

MB-CHO-0002	Chrome ore Turkish lumpy 40-42%, cfr main Chinese ports, \$/tonne
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

Manganese ore

SOUTH AFRICA

MB-MNO-0002	Manganese ore semi carbonate index, 36.5% Mn, fob Port Elizabeth, \$ per dmtu
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

CHINA

MB-MNO-0001	Manganese ore high grade index, cif Tianjin, \$ per dmtu
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

MB-MNO-0003	Manganese ore semi carbonate index, 36.5% Mn, cif Tianjin, \$ per dmtu
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
MB-MNO-0005	Manganese ore high grade port index, fot Tianjin China, yuan per dmtu
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
MB-MNO-0004	Manganese ore semi carbonate port index, 36.5% Mn, fot Tianjin, China, yuan/dmtu
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

Nickel ore

CHINA

MB-NIO-0001	Nickel ore 1.8% basis 15-20% Fe water content: 30-35% Si:Mg ratio<2 lot size 50,000 tonnes, cif China, \$/tonne
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
MB-NIO-0002	Laterite ore with 1.5% Ni content, cif China, \$/tonne
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
MB-NIO-0006	Laterite ore with 1.3% Ni content, cif China, \$/tonne
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

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

MB-SB-0003	Antimony MMTA standard grade II, ddp China, yuan/tonne
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
MB-SB-0011	Antimony 99.85% Sb min, in-whs China, yuan/tonne
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

MB-SB-0002	Antimony MMTA standard grade II, in-whs Rotterdam, \$/tonne
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
MB-SB-0001	Antimony max 100 ppm Bi, in-whs Rotterdam, \$/tonne
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

MB-AS-0001	Arsenic 99.7% min As, in-whs Rotterdam, \$/lb
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

MB-BI-0001	Bismuth 99.99% Bi min, in-whs Rotterdam, \$/lb
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

MB-BI-0002	Bismuth 99.99% Bi min, in-whs China, yuan/tonne
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

MB-CD-0001	Cadmium 99.95% min, cif global ports, cents/lb
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

MB-CD-0002	Cadmium 99.99% min, cif global ports, cents/lb
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

MB-CR-0001	Chromium alumino-thermic 99% min, in-whs Rotterdam, \$/tonne
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.
MB-CR-0003	Chromium alumino-thermic 99.4% min, in-whs Rotterdam, \$/tonne
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

MB-CR-0002	Chromium alumino-thermic 99% min ex-US warehouse \$/lb
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

MB-CO-0012	Cobalt tetroxide 72.6% Co min, delivered China, yuan/tonne
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

MB-CO-0001	Cobalt 99.8% Co min, ex-works China, yuan/tonne
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

MB-GA-0001	Gallium 99.99% Ga min, in-whs Rotterdam, \$/kg
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

MB-GA-0002	Gallium 99.99% Ga min, in-whs China, yuan/kg
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

Germanium

CHINA

MB-GER-0004	Germanium 99.999% Ge min, in-whs China, yuan/kg
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-0006

Germanium dioxide, in-whs China, yuan/kg
GeO ₂ 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

Germanium 99.999% Ge, in-whs Rotterdam, \$/kg
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

MB-GER-0005

Germanium dioxide, in-whs Rotterdam, \$ per kg
GeO ₂ 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

MB-HF-0001	Hafnium, max 1% Zr, in-whs global locations, \$/kg
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

MB-IN-0002	Indium 99.99%, in-whs Rotterdam, \$/kg
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

MB-IN-0003	Indium 99.99% ex-works China CNY/kg
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

MB-MG-0001	Magnesium 99.9%, in-whs Rotterdam, \$/tonne
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

MB-MG-0003	Magnesium 99.9%, exw China, yuan/tonne
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
MB-MG-0002	Magnesium 99.9% Mg min, fob China main ports, \$/tonne
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
MB-MG-0005	Magnesium, 99.9% min, ex-whs Baltimore, US cents/lb
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

MB-MN-0001	Manganese 99.7% electrolytic manganese flake, in-whs Rotterdam, \$/tonne
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

MB-MN-0006	Manganese electrolytic metal 99.7% Mn min, ex-whs US, \$/lb
Quality:	Flake. Min 99.7% manganese
Quantity:	Min 10 tonnes
Location:	Ex-warehouse, US
Unit:	USD per pound
Payment terms:	Cash, other terms normalized
Publication:	Weekly, every Thursday
Notes:	Bulk
MB-MN-0007	Manganese 99.7% electrolytic manganese flake, fob China, \$/tonne
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 tons
Location:	Delivered US
Unit:	US cents per lb
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

MB-CO-0024	Cobalt mixed hydroxide precipitate payable indicator, % cobalt metal standard grade in-whs Rotterdam, cif China, Japan, and South Korea
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

MB-CO-0025	Cobalt mixed hydroxide precipitate, outright price, cif China, Japan, and South Korea, \$/tonne
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:	USD per tonne, inferred basis of the payable range or expressed by participants
Publication:	Daily, 4pm London time
Notes:	In the absence of data, Fastmarkets will calculate this price, based upon the payable level to the cobalt metal standard grade, in-whs Rotterdam price of that day

Iron phosphate

CHINA

MB-FEP-0001	Iron phosphate anhydrous 0.96-0.98 Fe/P, battery grade, delivered China, yuan/tonne
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

MB-LI-0029	Lithium carbonate 99.5% Li₂CO₃ min, battery grade, spot prices cif China, Japan & Korea, \$/kg
Quality:	Powder, accepted by buyer for use in battery applications and with the chemical composition: Li ₂ CO ₃ 99.5% min (Min. 99.2% Li ₂ CO ₃ 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

MB-LI-0036	Lithium carbonate 99.5% Li₂CO₃ min, battery grade, spot price range exw domestic China, yuan/tonne	NORTH AMERICA
Quality:	Powder, accepted by buyer for use in battery applications and with the chemical composition: Li ₂ CO ₃ 99.5% min; Na 0.025% max; Ca 0.005% max; Mg 0.008% max; magnetic impurities 300ppb max	MB-LI-0044
Quantity:	Min 5 tonnes	Lithium carbonate 99.5% Li₂CO₃ min, battery grade, spot price ddp US and Canada, \$ per kg
Location:	Ex-works China, VAT included	Powder, accepted by buyer for use in battery applications and with the chemical composition: Li ₂ CO ₃ 99.5% min (Min. 99.2% Li ₂ CO ₃ 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
Timing:	30 days	Quality:
Unit:	CNY/tonne	Min 5 tonnes
Publication:	Daily, 7pm Shanghai time	ddp US & Canada
EUROPE		
MB-LI-0023	Lithium carbonate 99.5% Li₂CO₃ min, battery grade, spot price ddp Europe, \$/kg	CHINA, JAPAN & SOUTH KOREA
Quality:	Powder, accepted by buyer for use in battery applications and with the chemical composition: Li ₂ CO ₃ 99.5% min (Min. 99.2% Li ₂ CO ₃ 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	MB-LI-0033
Quantity:	Min 5 tonnes	Lithium hydroxide monohydrate LiOH.H₂O, 56.5% LiOH min, battery grade, spot price cif China, Japan & Korea, \$/kg
Location:	ddp Europe	Quantity:
Timing:	30 days	Min 5 tonnes
Unit:	USD/kg	Quality:
Publication:	Weekly, Thursday 3-4pm London time	Powder, accepted by buyer for use in battery applications and with the chemical composition LiOH 56.5% min; CO ₂ <0.35%; Ca 0.020% max; SO ₄ 0.015% max; Cl ⁻ 0.005% max
Lithium hydroxide monohydrate battery grade spot price		

MB-LI-0040	Lithium hydroxide monohydrate LiOH.H₂O, 56.5% LiOH min, battery grade, spot price range exw domestic China, yuan/tonne
Quality:	Powder, accepted by buyer for use in battery applications and with the chemical composition LiOH 56.5% min; CO ₂ <0.35%; Ca 0.005% max; SO ₄ 0.01% max; Cl- 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.H₂O, 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 ₂ <0.35%; Ca 0.020% max; SO ₄ 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.H₂O, 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 ₂ <0.35%; Ca 0.020% max; SO ₄ 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% Li₂CO₃ min, technical and industrial grade, spot price range exw domestic China, yuan/tonne
Quality:	Min 99% Li ₂ CO ₃ (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% Li₂CO₃ min, technical and industrial grades, spot price cif China, Japan & Korea, \$/kg
Quality:	Min 99% Li ₂ CO ₃ (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% Li₂CO₃ min, technical and industrial grades, spot price ddp Europe, \$/kg
Quality:	Min 99% Li ₂ CO ₃ (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

MB-LI-0046	Lithium carbonate 99% Li₂CO₃ min, technical and industrial grades, spot price ddp US and Canada, \$ per kg
Quality:	Min 99% Li ₂ CO ₃ (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

MB-LI-0021	Lithium hydroxide monohydrate LiOH.H₂O, 56.5% LiOH min, technical and industrial grades, spot price ddp Europe, \$/kg
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

MB-LI-0032	Lithium hydroxide monohydrate LiOH.H₂O, 56.5% LiOH min, technical and industrial grades, spot price cif China, Japan & Korea, \$/kg
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

MB-LI-0047	Lithium hydroxide monohydrate LiOH.H₂O, 56.5% LiOH min, technical and industrial grades, spot price ddp US and Canada, \$ per kg
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

MB-LI-0012	Spodumene min 6% Li₂O, spot price, cif China, \$/tonne
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 ₂ O 6% (min 5.0% Li ₂ O and max 6.1% Li ₂ O accepted if it can be normalized to 6%); Fe ₂ O ₃ < 1.3% (max 1.5% Fe ₂ O ₃ accepted if it can be normalized to < 1.3%), H ₂ 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

MB-LI-0043	Spodumene min 6% Li₂O, contract price, cif China, \$/tonne
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 ₂ O 6% (min 5.0% Li ₂ O and max 6.1% Li ₂ O accepted if it can be normalized to 6%); Fe ₂ O ₃ < 1.3% (max 1.5% Fe ₂ O ₃ accepted if it can be normalized to < 1.3%), H ₂ 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

MB-GRA-0036	Graphite spherical 99.95% C, 15-17 microns, fob China, \$/tonne
Quality:	99.95% C, 15-17 microns, uncoated
Quantity:	Min 20 tonnes
Location:	fob China
Unit:	USD/tonne
Publication:	Weekly. Thursday by 4pm London
MB-GRA-0042	Graphite flake 94% C, -100 mesh, fob China, \$/tonne
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

MB-NI-0244	Nickel sulfate min 21%, max 22.5%; cobalt 10ppm max, exw China, yuan/tonne
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

MB-NI-0246	Nickel sulfate, cif Japan and Korea, \$/tonne
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

MB-NI-0247	Nickel sulfate premium, cif Japan, and Korea, \$/tonne
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

MB-NI-0253	Nickel sulfate, in-whs Rotterdam, \$/tonne
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.

MB-NI-0254
Nickel sulfate premium, in-whs Rotterdam, \$/tonne

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

MB-NIO-0003
Nickel mixed hydroxide precipitate outright price, cif China, Japan and South Korea, \$ per tonne

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:	USD per tonne, inferred basis the payable range or expressed by participants
Publication:	Weekly, Friday 3-4pm London time

MB-NIO-0004
Nickel mixed hydroxide precipitate payable indicator, % London Metal Exchange, cif China, Japan and South Korea

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:	% payable basis LME monthly average
Publication:	Weekly, Friday 3-4pm London time

MB-NIO-0005	Nickel mixed hydroxide precipitate, outright price, FOB Indonesia, \$/tonne
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:	fob main ports Indonesia
Timing:	45 days
Unit:	USD per tonne, inferred basis of the CIF CJK MHP price or expressed by participants
Publication:	Daily, 4pm London time

Scrap Black mass

MB-BMS-0001	Black mass, NCM/NCA, payable indicator, nickel, cif South Korea, % payable of LME Nickel Cash Official price
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 Material must be dried and free-flowing

Manganese Sulfate

CHINA

MB-MN-0008	Manganese sulfate 32% Mn min, battery grade, ex-works mainland China, yuan/tonne
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

MB-BMS-0002	Black mass, NCM/NCA, payable indicator, cobalt, cif South Korea, % payable of Fastmarkets' standard-grade cobalt price (low-end)	MB-BMS-0003	Black mass, NCM/NCA, payable indicator, lithium, cif South Korea, % payable Fastmarkets' lithium carbonate 99.5% Li₂CO₃ min, battery grade, spot prices cif China, Japan & Korea
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 ₂ CO ₃ 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:	Material must be dried and free-flowing	Notes:	Material must be dried and free-flowing
MB-BMS-0004	Black mass, NCM/NCA, payable indicator, nickel, domestic, exw Europe, % payable LME Nickel cash official price	MB-BMS-0005	Black mass, NCM/NCA, payable indicator, cobalt, domestic, exw Europe, % payable Fastmarkets' standard-grade cobalt price (low-end)
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

MB-BMS-0006	Black mass, LCO, payable indicator, cobalt, domestic, exw Europe, % payable Fastmarkets' standard-grade cobalt price (low-end)	MB-BMS-0008	Black mass, NCM/NCA, payable indicator, cobalt, cif Southeast Asia, % payable Fastmarkets' standard-grade cobalt price (low-end)
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
MB-BMS-0007	Black mass, NCM/NCA, payable indicator, nickel, cif Southeast Asia, % payable LME Nickel cash official price	MB-BMS-0009	Black mass, NCM/NCA, payable indicator, lithium, cif Southeast Asia, % payable Fastmarkets' lithium carbonate 99.5% Li₂CO₃ min, battery grade, spot prices cif China, Japan & Korea
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 ₂ CO ₃ 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:	Material must be dried and free-flowing	Notes:	Material must be dried and free-flowing

MB-BMS-0010	Black mass, LCO, payable indicator, cobalt, cif South Korea, % payable Fastmarkets' standard-grade cobalt price (low-end)	MB-BMS-0012	Black mass, NCM/NCA, inferred, cif South Korea, \$/tonne
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'): Inferred nickel component: 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%). Inferred cobalt component: 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%). Inferred lithium component: Midpoint Fastmarkets' black mass, NCM/NCA, payable indicator, lithium, cif South Korea X Fastmarkets' lithium carbonate 99.5% Li ₂ CO ₃ 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:	Material must be dried and free-flowing		
MB-BMS-0011	Black mass, LCO, payable indicator, lithium, cif South Korea, % payable Fastmarkets' lithium carbonate 99.5% Li₂CO₃ min, battery grade, spot prices cif China, Japan & Korea)		
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 ₂ CO ₃ min, battery grade, spot prices cif China, Japan & Korea		
Payment terms:	Letter of credit		
Publication:	Weekly, Wednesdays 6-7pm Singapore time		
Notes:	Material must be dried and free-flowing		

MB-BMS-0013	Black mass, NCM/NCA, inferred, exw Europe, \$/tonne	MB-BMS-0015	Black mass, NCM/NCA, payable indicator, cobalt, domestic, exw USA, % payable Fastmarkets' standard-grade cobalt price (low-end)
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'): Inferred nickel component: 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%). Inferred cobalt component: 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
MB-BMS-0014	Black mass, NCM/NCA, payable indicator, nickel, domestic, exw USA, % payable LME Nickel cash official price	MB-BMS-0016	Black mass, NCM, payable indicator, nickel, ddp China, % payable Fastmarkets' nickel sulfate min 21%, max 22.5%; cobalt 10ppm max, exw China
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		

MB-BMS-0017	Black mass, NCM, payable indicator, cobalt, ddp China, % payable Fastmarkets' cobalt sulfate 20.5% Co basis, exw China
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
MB-BMS-0018	Black mass, NCM, payable indicator, lithium, ddp China, % payable Fastmarkets' lithium carbonate 99.5% Li₂CO₃ min, battery grade, spot price range, exw domestic China
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 ₂ CO ₃ min, battery grade, spot price range, exw domestic China, yuan per tonne
Payment terms:	Cash, Letter of credit
Publication:	Weekly, Thursdays 6pm China time
MB-BMS-0019	Black mass, LFP, ddp China, yuan per % lithium
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

MB-LBS-0001	Lithium-ion battery scrap, NCM, end of life, prismatic, exw China, yuan per tonne
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
MB-LBS-0002	Lithium-ion battery scrap, LFP, end of life, prismatic, exw China, yuan per tonne
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

MB-CU-0512	No1 copper material, RCu-2A,1B (candy/berry), cif China, LME/Comex discount, US cents per lb
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
MB-CU-0360	No2 copper material, RCu-2B (birch/cliff), cif China, LME/Comex discount, US cents per lb
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

MB-AL-0396	Zorba, 95/5, CIF India, \$/tonne
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
MB-AL-0397	Aluminium scrap, old sheet (Taint/Tabor), HRB, 3-5% attachments, CIF India, \$/tonne
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

MB-AL-0398	Aluminium scrap, mixed aluminium castings (Tense), 3-5% attachments, CIF India, \$/tonne	MB-AL-0400	Aluminium scrap, cast wheels (Troma), CIF India, \$/tonne
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		
MB-AL-0399	Aluminium scrap, old sheet (Taint/Tabor), cut sheared, 5-8% attachments, CIF India, \$/tonne	MB-AL-0401	Aluminium scrap, extrusions (Tata), 6063 cif India, \$/tonne
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

MB-AL-0409	Zorba, 98/2, CIF Southeast Asia, \$/tonne
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
MB-AL-0410	Aluminium scrap, 95/5 Extrusions (Tata), CIF Southeast Asia, \$/tonne
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	UNITED KINGDOM
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	
MB-AL-0282	Aluminium scrap baled old rolled, LME discount, 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	

MB-AL-0010	Aluminium scrap commercial cast, delivered consumer UK, £/tonne Quality: Whole or broken aluminium castings of all kinds 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-0015 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 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-0011	Aluminium scrap commercial pure cuttings, delivered consumer UK, £/tonne 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 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-0014 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: 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-0012	Aluminium scrap commercial turnings, delivered consumer UK, £/tonne 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 Quantity: 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-0018 Quality: Wrought scrap of alloyed and unalloyed aluminium. Maximum 2% calcarious 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

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

Secondary aluminium

EUROPE

MB-AL-0005
**Aluminium pressure diecasting
ingot DIN226/A380, delivered
Europe, €/tonne**

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:	Full methodology available here

MB-AL-0387
**Aluminium pressure diecasting
ingot DIN230, delivered Europe,
€ per tonne**

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,
Quantity:	min 20 tonnes
Location:	Ex-works China, duty-paid price in both south and north of China
Unit:	RMB/tonne
Payment terms:	Cash against documents within 7 days
Publication:	Weekly. Wednesday 3-4pm London time

Titanium scrap

EUROPE

MB-TI-0001	Titanium scrap turnings, unprocessed type 90/6/4, 0.5% Sn max, cif Europe, \$/lb
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

MB-TI-0002	Titanium scrap turnings, unprocessed type 90/6/4, 0.5-2% Sn max, cif Europe, \$/lb
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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