

Non-ferrous Metals

Methodology and price specifications – September 2024

F Fastmarkets

Non-ferrous Prices

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Mission statement

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

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

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

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

Introduction

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

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

The aim of this document is to provide a clear overview of Fastmarkets' methodology and specifications for the prices it assesses. If you have any questions, please contact Global Head of Editorial & Pricing Perrine Faye at perrine.faye@fastmarkets.com for metals and minerals, 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 MlnD (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.

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. Immaterial 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.



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% Al203

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

Quality: P1020A or 99.7 % Minimum Al purity (Si

0.10% max, Fe 0.20% max) in line with

LME specifications. Ingot, T-bar, sow

Quantity: Min 100 tonnes

Location: cif in main Japanese ports at

Yokohama, Nagoya and Osaka, premium on top of exchange-listed

aluminium price

Timing: Within two calendar months

Unit: USD/tonne

Payment terms: Cash against documents (2 days

after Bill of lading date)

Publication: Daily by 4pm London time Notes: Excluding metal from LME

warehouses and metal subject to international sanctions. Assessed by Fastmarkets' Singapore office. Full methodology available **here**.

SOUTH KOREA

MB-AL-0344 Aluminium P1020A premium, cif

South Korea, \$/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 in main South Korean ports

(Gwangyang, Busan or Incheon), premium on top of LME cash prices

Timing: Within 4 weeks
Unit: USD/tonne

Payment terms: Cash against documents (2 days

after Bill of lading date)

Publication: Weekly. Tuesday 3-4pm London time

MB-AL-0307 Aluminium P1020A premium, fca

South Korea, \$/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: FCA South Korea (Gwangyang, Busan

or Incheon), premium on top of LME

cash prices

Timing: Within 4 weeks
Unit: USD/tonne

Payment terms: Cash against documents (2 days

after Bill of lading date)

Publication: Weekly. Tuesday 3-4pm London time

CHINA

MB-AL-0345 Aluminium P1020A premium, cif

Shanghai, \$/tonne

Quality: P1020A or 99.7 % Minimum Al purity

(Si 0.10% max, Fe 0.20% max). Ingot

Quantity: Min 100 tonnes

Location: cif Shanghai, premium on top of LME

cash prices

Unit: USD/tonne
Timing: Within 4 weeks

Payment terms: Letter of Credit or Telegraphic

Transfer, other payment terms

normalized

Publication: Fortnightly, Tuesday 3-4pm London

time

MB-AL-0328 Aluminium P1020A premium,

bonded in-whs, Shanghai, \$/tonne

Quality: P1020A or 99.7 % Minimum Al purity

(Si 0.10% max, Fe 0.20% max) Ingot

Quantity: 100 tonnes

Location: In-bonded warehouse in Shanghai,

premium on top of LME cash prices

Unit: USD/tonne
Timing: Within 4 weeks

Form: Ingot

Payment terms: Letter of Credit or Telegraphic

Transfer, other payment terms

normalized

Publication: Fortnightly, Tuesday 3-4pm London

time



TAIWAN

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 Published as a single number

Aluminium primary ingot premium, in-whs dp Rotterdam,

inferred P0610 midpoint, \$/tonne

www.fastmarkets.com

Note:

MB-AL-0386



MB-AL-0385	Aluminium primary ingot	UNITED STATES	
	premium, in-whs dup Rotterdam, inferred P0610 midpoint, \$/tonne	MB-AL-0338	Aluminium P1020A warrant
			premium, in-whs US, \$/tonne
MB-AL-0316	Aluminium P1020A premium, fca dp Italy, \$/tonne	Quality:	P1020A or 99.7 % Minimum Al purity (Si 0.10% max, Fe 0.20% max). Ingot, T-bar, sow
Quality:	P1020A or 99.7 % Minimum Al purity	Quantity:	Min 25 tonnes
adamt).	(Si 0.10% max, Fe 0.20% max). Ingot	Location:	In any LME-approved warehouse in
Quantity: Location:	Min 100 tonnes Free-carrier duty-paid Italy (north and south of country), premium on top of		the USA (10 delivery points in June 2017), premium on top of LME cash prices
	exchange-listed aluminium price	Timing:	Prompt Release
Timing:	Within 4 weeks	Unit:	USD per tonne
Unit:	USD/tonne	Payment terms:	Cash against documents (7 days
Payment terms:	Cash against documents (7 days after bill of lading date); other terms	,	after bill of lading date); other terms normalized
	normalized	Publication:	Fortnightly. Weds 3-4pm London time
Publication: Note:	Weekly. Tuesday 3-4pm London time Full methodology available here .	r ablication.	Tortangray. Weds o Tpm Zondon ame
Tiote.	rain meaneasing aramasin nate.	MB-AL-0020	Aluminium P1020A premium, ddp Midwest US, cents/lb
MB-AL-0319	Aluminium P1020A premium, fca dp Spain, \$/tonne	Quality:	P1020A or 99.7% minimum Al purity (silicon 0.10% max, iron 0.20%
Quality:	P1020A or 99.7 % Minimum Al purity (Si 0.10% max, Fe 0.20% max). Ingot		max, zinc 0.03%, gallium 0.04%, vanadium 0.03%). Ingot, T-bar, Sow.
Quantity:	Min 100 tonnes	Quantity:	Min 100 tonnes
Location:	free-carrier duty-paid Spain, premium on top of LME cash prices Within 4 weeks	Location:	Delivered consumer works Midwest, premium on top of exchange-listed aluminium price
Timing: Unit:	USD/tonne	Unit:	US cents per pound
Payment terms:	Cash against documents (7 days	Timing	Within four weeks
. cyment terme	after bill of lading date); other terms normalized	Payment terms:	30 days, other payment terms
Publication:	Once every two weeks. Tuesday	Publication:	Daily. 3-4pm London time
	3-4pm London time	Note:	Full methodology available here .
TURKEY		MB-AL-0231	Aluminium P1020A all-in price,
MD AL 0777	Al :::: P1020A		LME-based, delivered Midwest US,
MB-AL-0337	Aluminium P1020A premium, cif	O	US cents/lb
Quality:	dup Turkey, \$/tonne 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%
Quantity:	Min 100 tonnes		max, zinc 0.03%, gallium 0.04%,
Location:	CIF duty-unpaid Turkey (Marmara		vanadium 0.03%)
	region), premium on top of LME cash prices	Location: Unit:	Delivered consumer works Midwest US cents per pound
Timing:	Within 4 weeks	Quantity:	100 tonnes
Unit:	USD/tonne	Publication:	Daily
Payment terms:	Cash against documents (7 days	Notes:	London Metal Exchange cash
.,	after bill of lading date); other terms normalized		aluminium AM bid price plus Fastmarkets Midwest aluminium
Publication:	Once every two weeks. Tuesday,		premium
	3-4pm London time		



BRAZIL

Non-ferrous Prices

MB-AL-0022 Aluminium P1020A premium, cif

dup Brazilian main ports, \$/tonne

P1020A or 99.7 % Minimum Al purity Quality:

(Si 0.10% max, Fe 0.20% max). Ingot,

T-bar, sow

Min 100 tonnes Quantity:

cif Brazil ports duty unpaid, excluding Location:

VAT, premium on top of LME cash prices

Timing: Within 30-60 days

USD/tonne Unit:

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-0395 Aluminium P1020A premium,

high-VAT market, delivered São Paulo region, \$/tonne

P1020A or 99.7% minimum Al purity Quality:

(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 USD/tonne Unit:

Payment terms: Cash against documents (7 days

> after bill of lading date); other payment terms normalized Once every two weeks. Tuesday,

3-4pm London time

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

Cash against documents (7 days Payment terms:

> after bill of lading date); other payment terms normalized

Publication: Once every two weeks. Tuesday,

3-4pm London time

Aluminium billet

EUROPE

Publication:

MB-AL-0002 Aluminium 6063 extrusion billet

premium, in-whs dp Rotterdam,

Aluminium Assn specification AA6063: Quality:

> 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"

Min 100 tonnes Quantity:

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



Quality:

Non-ferrous Prices

Aluminum 6063 extrusion billet

premium, delivered Midwest US,

MB-AL-0302	Aluminium 6063 extrusion billet premium, ddp North Germany (Ruhr region), \$/tonne	MB-AL-0300	Aluminium 6063 extrusion billet premium, ddp Italy (Brescia region), \$/tonne
Quality:	Extrusion billet AA6063: Si 0.2-0.6% max, Mg 0.45-0.9% max, Fe 0.35% max, Cu 0.1% max, Cr 0.1% max, Zn 0.1% max, Ti 0.1% max, others each 0.05% max, total 0.15% max. Billet with diameter of 6", 7" and 8"	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	Quantity:	Min 100 tonnes
Location:	Delivered in North Germany (Ruhr region) duty-paid premium on top of LME cash price	Location:	Delivered in Italy (Brescia region) duty-paid premium on top of LME cash price
Timing:	Within 3 months	Timing:	Within 3 months
Unit:	USD/tonne	Unit:	USD/tonne
Payment terms:	30-day payment terms, other payment terms normalized	Payment terms:	30-day payment terms, other payment terms normalized
Publication:	Weekly. Friday 3-4pm London time	Publication:	Weekly. Friday 3-4pm London time
Note:	Full methodology available here .	Note:	Full methodology available here .
MB-AL-0299	Aluminium 6063 extrusion billet	UNITED STATES	

	· · · · · · · · · · · · · · · · · · ·		1
Quantity:	Min 100 tonnes		US cents/lb
Location:	Delivered in Spain (Bilbao region),	Quality:	Extrusion billet AA6063. Billet with
	duty-paid premium on top of LME		diameter of 6", 7" and 8"
	cash prices	Quantity:	Min 100 tonnes
Timing:	Within 3 months	Location:	Delivered into US Midwest region,
Unit:	USD/tonne		duty-unpaid premium on top of the
Payment terms:	60-day payment, other payments		P1020A ingot Midwest premium and
	terms normalized		LME cash prices
Publication:	Once every two weeks. Friday 3-4pm	Timing:	Within 2 months
	London time	Unit:	US cents/lb
		Payment terms:	30-day payment, other payments
			terms normalized
		Publication:	Once every two weeks. Friday 3-4pm
			London time

MB-AL-0052

premium, ddp Spain, \$/tonneExtrusion billet AA6063. Billet with

diameter of 6", 7" and 8" $\,$



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 Every 28 days. Friday 3-4pm

Publication: Every 28 days. F 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

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

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.

MB-AL-0340 Aluminium primary foundry alloy

silicon 7 ingot premium, ddp

Eastern Europe, \$/tonne

Quality: Primary Foundry Alloy silicon 7

AlSi7Mg0.3-0.6 for wheel production.

Ingot

Quantity: Min 100 tonnes

Location: Delivered in Eastern Europe (Poland,

Slovakia, Austria, Hungary, Czech Republic), duty-paid premium on top

of LME cash prices

Timing: Within 2 months
Unit: USD/tonne

Payment terms: 30-day payment terms, other

payments terms normalized

Publication: Twice monthly. Second and last

Friday of the month between 3pm

and 4pm London time

Aluminium foundry alloys

EUROPE

MB-AL-0339 Aluminium foundry alloy silicon 7

ingot premium, ddp Germany, \$/

tonne

Quality: Primary Foundry Alloy silicon 7

AlSi7Mg0.3-0.6 for wheel production.

Ingot

Quantity: 100 tonnes

Location: Delivered in Germany, duty paid

premium on top of LME cash prices

Timing: Within 2 months
Unit: USD/tonne

Payment terms: 30-day payment terms, other

payments terms normalized

Publication: Twice monthly. Second and last

Friday of the month between 3pm

and 4pm London time

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



MB-AL-0349 Aluminium primary foundry alloy silicon 7 ingot annual premium,

cif MJP, \$/tonne

Quality: Primary Foundry Alloy silicon 7

A356.2 for wheel production

Quantity: Min 500 tonnes

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 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 are completed between

major Japanese buyers and international producers and traders

with negotiations starting in October

through to December

MB-AL-0277 Aluminum alloy C355.2 ingot, delivered, \$/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

Location: Delivered. Domestic producer

estimated price.

Unit: US dollars per pound

Formula: Calculated. Formula: LME cash

aluminium official price (ask) + Fastmarkets AMM Midwest aluminium premium (average) + Fastmarkets AMM alloy surcharge

assessment.

Quantity: 20 tons Publication: Daily

MB-AL-0276

Aluminum alloy A356.2 ingot,

delivered, \$/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

um dlvd Location: Delivered. Domestic producer

estimated price.

Unit: US dollars per pound

Quantity: 20 tons Publication: Daily

Notes: LME cash aluminium official price

(ask) + Fastmarkets AMM Midwest aluminium premium (average) + Fastmarkets AMM alloy surcharge

assessment.

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



Non-ferrous Prices

MB-AL-0045	Aluminum 6061 alloyed ingot, US cents/lb	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	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%
	0.15-0.35%, zinc 0.25%, titanium	Quantity:	min 20 tons
	0.15%	Location:	Delivered Midwest
Location:	Delivered. Domestic producer estimated price.	Unit:	US cents per pound Weekly, Thursday
Unit:	US cents per pound	Publication:	weekly, Thursday
Quantity:	20 tons		
Publication:	Monthly	MB-AL-0043	Aluminum alloy A360.1, delivered Midwest, cents/lb
		Quality:	Copper 0.60%, iron 1.00%,
MB-AL-0046	Aluminum 6063 alloyed ingot, US cents/lb		magnesium 0.45-0.60%, manganese 0.35%, nickel 0.50%, silicon 9.0-
Quality:	Aluminium 99.45%, silicon 0.20-		10.0%, tin 0.15%, zinc 0.40%
	0.60%, iron 0.35%, copper 0.10%,	Quantity:	Min 20 tons
	manganese 0.10%, magnesium 0.45-	Location:	Delivered Midwest
	0.90%, chromium 0.10%, zinc 0.10%, titanium 0.10%	Unit: Publication:	US cents per pound Weekly, Thursday
Quantity:	20 tons	Publication:	weekly, Thursday
Location:	Delivered		
Unit:	US cents per pound	MB-AL-0044	Aluminum alloy A413.1, delivered
Publication:	Monthly		Midwest, cents/lb
		Quality:	Copper 1.00%, iron 1.00%, magnesium 0.10%, manganese
MB-AL-0040	Aluminum alloy A380.1, delivered		0.35%, nickel 0.50%, silicon 11.0-
	Midwest, US cents/lb		13.0%, tin 0.15%, zinc 0.40%
Quality:	Copper 3.00-4.00%, iron 1.00%,	Quantity:	Min 20 tons
	magnesium 0.10%, manganese	Location:	Delivered Midwest
	0.50%, nickel 0.50%, silicon 7.50- 9.50%, tin 0.35%, zinc 2.90%,	Unit: Publication:	US cents per pound Weekly, Thursday
	aluminium remainder. Form: Ingot	Tublication.	Weekly, Illuisady
Location:	Delivered Midwest		
Unit:	US cents per pound		
Quantity:	Truckload/20 tons		
Payment terms:	Net 30 days post delivery		
Publication:	Weekly, Thursday		
MB-AL-0041	Aluminum alloy 319.1, delivered		
0 4	Midwest, cents/lb		
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 Midwest		
Unit:	US cents per pound		
Quantity:	20 tons		
Publication:	Weekly, Thursday		



Low-carbon aluminium differentials

EAST ASIA

Quality:

MB-AL-0393 Aluminium low-carbon differential

P1020A, Japan, South Korea,

\$/tonne

4tCO2e per tonne of aluminium Carbon limit:

> produced, Scope 1 and 2 emissions 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

Timina: 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 P1020A or 99.7% minimum Al purity

Quality: (Si 0.10% max, Fe 0.20% max). Ingot

Quantity: Min 100 tonnes

Location: Europe USD/tonne Unit:

Timing: Within three months

Publication: Monthly, first Friday of the month,

4pm London time

Note: 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.

Extrusion billet Type: 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

Aluminium low-carbon differential MB-AL-0392

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

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

Copper concentrate

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: Delivery starting within three months

Publication: Weekly, Friday 3-4pm London

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: Delivery starting within three months

Publication: Weekly, Friday 3-4pm London

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

ASIA PACIFIC

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
Timina: Within 13 weeks

Payment terms: Letter of credit, quotation period

M+3

Publication: Weekly. Friday at 4pm London time Notes: Full methodology available **here**.



Blister copper

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 Timina: Within 2 months USD per tonne Unit:

Publication: Monthly. Last day of the month,

3-4pm London time

MB-CU-0409 Copper blister 98-99% RC annual

benchmark, cif China, \$/tonne

Blister copper of 98-99% copper Quality:

content, with varying payables

Location: CIF China Unit USD per tonne

Annually. January or February Publication:

MB-CU-0383 Copper grade A cathode ER

premium, bonded in-whs Shanghai, \$/tonne

Electro-Refined Grade A cathode Quality:

> 99.9935% min conforming to LME specifications BS EN 1978:1998 (Cu-

CATH-1).

Min 25 tonnes Quantity:

In-warehouse Shanghai port, duty-Location:

unpaid premium on top of LME cash

prices

Timing: Within 6 weeks Unit: USD/tonne

Letter of credit, telegraphic transfer Payment terms:

> or documents against payment, other payment terms normalized

Publication: Daily. 3-4pm London time

Note: Exchange deliverable units

MB-CU-0382 Copper grade A cathode SX-

EW premium, bonded in-whs Shanghai, \$/tonne

Quality: Solvent Extraction-Electro winning

Grade A cathode 99.9935% min conforming to LME specifications BS

EN 1978:1998 (Cu-CATH-1)

Quantity: 25 tonnes

Location: In-warehouse Shanghai port, duty-

unpaid premium on top of LME cash

prices

Within 6 weeks Timing: Unit: USD/tonne

Letter of credit, telegraphic transfer Payment terms:

> or documents against payment, other payment terms normalized

Publication: Daily. 3-4pm London time

Note: Exchange deliverable units

Refined copper

CHINA

MB-CU-0405 Copper grade A cathode premium,

in-whs Shanghai, \$/tonne

Grade A cathode 99.9935% Quality:

> min copper conforming to LME specifications BS EN 1978:1998 - Cu-

Quantity: Min 25 tonnes

In-warehouse Shanghai port, duty-Location:

unpaid premium on top of LME cash

prices

Timing: Within 6 weeks Unit: USD/tonne

Letter of credit, telegraphic transfer Payment terms:

> or documents against payment, other payment terms normalized

Publication: Daily. 3-4pm London time Note: Exchange deliverable units



MB-CU-0403 Copper grade A cathode premium,

cif 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: CIF Shanghai port, duty-unpaid

premium on top of LME cash prices

Timing: Within 6 weeks USD/tonne Unit:

Letter of credit, telegraphic transfer Payment terms:

or documents against payment,

other payment terms normalized Publication: Daily. 3-4pm London time

Notes: Full methodology available here. MB-CU-0412 Copper EQ cathode premium, cif

Shanghai, \$/tonne

99.9935% min copper conforming to Quality:

> 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

Min 25 tonnes Quantity: Location: cif Shanghai Timina: Within 6 weeks USD per tonne Unit:

SOUTHEAST ASIA & EAST ASIA

Payment terms: LC, TT or DP other payments

normalized to cash

Publication: Weekly. Tuesday 4pm London time Note: Non-exchange deliverable units

Exchange deliverable units

MB-CU-0380 Copper grade A cathode ER premium, cif Shanghai, \$/tonne

Electro-Refined Grade A

99.9935% min conforming to LME specifications BS EN 1978:1998 (Cu-

CATH-1)

Quantity: Min 25 tonnes

Quality:

Location: CIF Shanghai port, duty-unpaid

premium on top of LME cash prices

Within 6 weeks Timing: USD/tonne Unit:

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 conforming to LME specifications BS EN 1978:1998 - Cu-CATH-1

MB-CU-0399

Quality:

Quantity:

Min 25 tonnes cif ports of Vietnam (Ho Chi Minh/ Location:

> Haiphong), Thailand (Bangkok, Laem Chabang), Malaysia (Johor, Port Klang), Indonesia (Jakarta), duty-unpaid premium on top of LME

Copper grade A cathode premium,

Grade A 99.9935% min copper cathode

cif Southeast Asia, \$/tonne

cash prices

Within 6 weeks Timing: Unit: USD/tonne

Letter of credit, telegraphic transfer Payment terms:

> or documents against payment, other payment terms normalized

Publication: Weekly. Tuesday 3-4pm London time

Note: Exchange deliverable units

MB-CU-0384 Copper grade A cathode SX-EW

premium, cif Shanghai, \$/tonne

Solvent Extraction-Electro winning Quality: Grade A cathode 9.9935% min

conforming to LME specifications BS

EN 1978:1998 (Cu-CATH-1)

Quantity: Min 25 tonnes

Location: cif Shanghai port, duty-unpaid

premium on top of LME cash prices

Timing: Within 6 weeks Unit: USD/tonne

Payment terms: LC, TT or documents against

payment, other terms normalized

Publication: Daily. 3-4pm London time Note: Exchange deliverable units



Note:

Exchange deliverable units

Non-ferrous Prices

MB-CU-0513	Copper EQ cathode premium, cif Southeast Asia, \$/tonne	MB-CU-0397	Copper grade A cathode warrant premium, in-whs Southeast Asia,
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,	Quality:	\$/tonne Grade A 99.9935% min copper cathode conforming to LME specifications BS EN 1978:1998 – Cu-CATH-1
	S: 0.0015% max, Se: 0.00020% max,	Quantity:	Min 25 tonnes
	Te: 0.00020% max	Location:	In any LME-approved warehouse in
Quantity:	25 tonnes		Singapore and in Malaysia (Johor,
Location:	cif ports of Vietnam (Ho Chi Minh/		Port Klang), premium on top of LME
	Haiphong), Thailand (Bangkok,		cash prices
	Laem Chabang), Malaysia (Johor,	Timing:	Prompt release
	Port Klang), Indonesia (Jakarta),	Unit:	USD/tonne
	duty-unpaid premium on top of LME	Payment terms:	Cash, other payment terms
	cash prices	, , , , , , , , , , , , , , , , , , , ,	normalized
Timing:	Within 6 weeks	Publication:	Fortnightly. Weds 3-4pm London time
Unit:	USD per tonne		3 /
Payment terms:	LC, TT, DP or other payments		
,	normalized.	MB-CU-0398	Copper grade A cathode warrant
Publication:	Weekly, Tuesday 4pm London time		premium, in-whs East Asia \$/tonne
Note:	Non-exchange deliverable units	Quality:	Grade A cathode 99.9935%
	<u> </u>	,	min copper conforming to LME
			specifications BS EN 1978:1998 – Cu-
MB-CU-0386	Copper grade A cathode premium,		CATH-1
	cif Taiwan, \$/tonne	Quantity:	Min 25 tonnes
Quality:	Grade A 99.9935% min copper cathode	Location:	In any LME-approved warehouse in
,	conforming to LME specifications		Taiwan (Kaohsiung) and South Korea
	BS EN 1978:1998 – Cu-CATH-1		(Gwangyang, Busan or Incheon),
Quantity:	Min 25 tonnes		premium on top of LME cash prices
Location:	cif delivery in Taiwanese ports, duty-	Timing:	Prompt release
	unpaid premium on top of LME cash	Unit:	USD/tonne
	prices	Payment terms:	Cash, other payment terms normalized
Timing:	Within 6 weeks	Publication:	Fortnightly. Weds 3-4pm London time
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		
NI-+	Final and a station water		



Note:

Exchange deliverable units

Non-ferrous Prices

MB-CU-0404	Copper grade A cathode premium, cif South Korea, \$/tonne	MB-CU-0406	Copper grade A cathode premium, cif Leghorn, \$/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:	25 tonnes
Location:	Cif delivery in main South Korean ports (Busan, Incheon, Gwangyang,	Location:	cif delivery in Leghorn (Italy), duty unpaid premium on top of LME cash prices
	Onsan), duty-unpaid premium on	Timing:	Within 4 weeks
	top of LME cash prices	Unit:	USD/tonne
Timing: Unit:	Within 6 weeks USD/tonne	Payment terms:	Cash, other payment terms normalized
Payment terms:	Letter of credit or telegraphic transfer, other payment terms normalized	Publication:	Once every two weeks. Tuesday 3-4pm London time
Publication:	Weekly. Tuesday 3-4pm London time	Notes:	Assessed range and single number
Notes:	Assessed range and single number.		Exchange deliverable units
	Exchange deliverable units		
EUROPE		MB-CU-0372	Copper grade A cathode premium, delivered Germany. \$/tonne
EUROPE			Copper grade A cathode premium, delivered Germany, \$/tonne Grade A cathode 99.9935%
EUROPE MB-CU-0369	Copper grade A cathode premium, cif Rotterdam, \$/tonne	MB-CU-0372 Quality:	delivered Germany, \$/tonne
			delivered Germany, \$/tonne Grade A cathode 99.9935% min copper conforming to LME
MB-CU-0369	cif Rotterdam, \$/tonne		delivered Germany, \$/tonne Grade A cathode 99.9935% min copper conforming to LME specifications BS EN 1978:1998 – Cu-
MB-CU-0369	cif Rotterdam, \$/tonne Grade A cathode 99.9935%	Quality:	delivered Germany, \$/tonne Grade A cathode 99.9935% min copper conforming to LME specifications BS EN 1978:1998 – Cu- CATH-1
MB-CU-0369	cif Rotterdam, \$/tonne Grade A cathode 99.9935% min copper conforming to LME specifications BS EN 1978:1998 – Cu-	Quality: Quantity:	delivered Germany, \$/tonne Grade A cathode 99.9935% min copper conforming to LME specifications BS EN 1978:1998 – Cu- CATH-1 Min 25 tonnes Delivered consumer works in
MB-CU-0369 Quality:	cif Rotterdam, \$/tonne Grade A cathode 99.9935% min copper conforming to LME specifications BS EN 1978:1998 – Cu- CATH-1 Min 25 tonnes cif delivery in Rotterdam, duty unpaid	Quality: Quantity: Location: Timing:	delivered Germany, \$/tonne Grade A cathode 99.9935% min copper conforming to LME specifications BS EN 1978:1998 – Cu- CATH-1 Min 25 tonnes Delivered consumer works in Germany, duty unpaid premium on
MB-CU-0369 Quality: Quantity: Location:	cif Rotterdam, \$/tonne Grade A cathode 99.9935% min copper conforming to LME specifications BS EN 1978:1998 – Cu- CATH-1 Min 25 tonnes cif delivery in Rotterdam, duty unpaid premium on top of LME cash prices	Quality: Quantity: Location: Timing: Unit:	delivered Germany, \$/tonne Grade A cathode 99.9935% min copper conforming to LME specifications BS EN 1978:1998 – Cu- CATH-1 Min 25 tonnes Delivered consumer works in Germany, duty unpaid premium on top of LME cash prices Within 4 weeks USD/tonne
MB-CU-0369 Quality: Quantity: Location: Timing:	cif Rotterdam, \$/tonne Grade A cathode 99.9935% min copper conforming to LME specifications BS EN 1978:1998 – Cu- CATH-1 Min 25 tonnes cif delivery in Rotterdam, duty unpaid premium on top of LME cash prices Within 4 weeks	Quality: Quantity: Location: Timing:	delivered Germany, \$/tonne Grade A cathode 99.9935% min copper conforming to LME specifications BS EN 1978:1998 - Cu- CATH-1 Min 25 tonnes Delivered consumer works in Germany, duty unpaid premium on top of LME cash prices Within 4 weeks USD/tonne Cash, other payment terms
MB-CU-0369 Quality: Quantity: Location: Timing: Unit:	cif Rotterdam, \$/tonne Grade A cathode 99.9935% min copper conforming to LME specifications BS EN 1978:1998 – Cu- CATH-1 Min 25 tonnes cif delivery in Rotterdam, duty unpaid premium on top of LME cash prices Within 4 weeks USD/tonne	Quality: Quantity: Location: Timing: Unit: Payment terms:	delivered Germany, \$/tonne Grade A cathode 99.9935% min copper conforming to LME specifications BS EN 1978:1998 - Cu- CATH-1 Min 25 tonnes Delivered consumer works in Germany, duty unpaid premium on top of LME cash prices Within 4 weeks USD/tonne Cash, other payment terms normalized
MB-CU-0369 Quality: Quantity: Location: Timing:	cif Rotterdam, \$/tonne Grade A cathode 99.9935% min copper conforming to LME specifications BS EN 1978:1998 – Cu- CATH-1 Min 25 tonnes cif delivery in Rotterdam, duty unpaid premium on top of LME cash prices Within 4 weeks USD/tonne Cash, other payment terms normalized	Quality: Quantity: Location: Timing: Unit:	delivered Germany, \$/tonne Grade A cathode 99.9935% min copper conforming to LME specifications BS EN 1978:1998 - Cu- CATH-1 Min 25 tonnes Delivered consumer works in Germany, duty unpaid premium on top of LME cash prices Within 4 weeks USD/tonne Cash, other payment terms normalized Once every two weeks. Tuesday 3-4pm London time
MB-CU-0369 Quality: Quantity: Location: Timing: Unit:	cif Rotterdam, \$/tonne Grade A cathode 99.9935% min copper conforming to LME specifications BS EN 1978:1998 – Cu- CATH-1 Min 25 tonnes cif delivery in Rotterdam, duty unpaid premium on top of LME cash prices Within 4 weeks USD/tonne Cash, other payment terms	Quality: Quantity: Location: Timing: Unit: Payment terms:	delivered Germany, \$/tonne Grade A cathode 99.9935% min copper conforming to LME specifications BS EN 1978:1998 – Cu- CATH-1 Min 25 tonnes Delivered consumer works in Germany, duty unpaid premium on top of LME cash prices Within 4 weeks USD/tonne Cash, other payment terms normalized Once every two weeks. Tuesday



MB-CU-0400	Copper grade A cathode warrant premium, in-whs North Europe, \$/	UNITED STATES	
Quality:	tonne Grade A cathode 99.9935%	MB-CU-0002	Copper grade 1 cathode premium, ddp Midwest US, US cents/lb
·	min copper 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 –
Quantity:	Min 25 tonnes		Cu-CATH-1 or Grade 1 Electrolytic
Location:	In any LME-approved warehouse in		Copper Cathode ASTM B115-00
	North Europe (Belgium, Germany, the Netherlands, Sweden and the UK), premium on top of LME cash prices	Quantity: Location: Timing:	Min 25 tonnes Delivered consumer works Midwest US Within 4 weeks
Timing:	Prompt release	Unit:	USD/lb
Unit:	USD/tonne	Payment:	30 days, other payment terms
Payment terms:	Cash, other payment terms		normalized
Publication:	normalized Fortnightly. Weds 3-4pm London time	Publication:	Weekly. Tuesday 3-4pm London time
MB-CU-0401	Copper grade A cathode warrant	MB-CU-0309	Copper grade 1 cathode all-in price, ddp Midwest US, US cents/lb
MB-C0-0401	premium, in-whs South Europe,	Quality:	Grade 1 Electrolytic Copper Cathode
	\$/tonne	adamt).	as adopted by the American Society
Quality:	Grade A cathode 99.9935% min copper		for Testing and Materials (B115-00)
	conforming to LME specifications	Location:	Delivered Midwest
	BS EN 1978:1998 – Cu-CATH-1	Unit:	US cents per pound
Quantity:	Min 25 tonnes	Publication:	Daily
Location:	In any LME-approved warehouse in South Europe (Spain, Italy), premium on top of LME cash prices	Notes:	Comex spot close price plus Fastmarkets copper premium
Timing:	Prompt release		
Unit:	USD/tonne	MB-CU-0377	Copper grade A cathode warrant
Payment terms:	Cash, other payment terms normalized		premium, in-whs US, \$/tonne
Publication:	Fortnightly. Weds 3-4pm London time	Location:	Any LME-approved warehouse in the US, premium on top of LME cash prices
MB-CU-0411	Connex EO anthodo nuomium aif	Quality:	Grade A 99.9935% min copper cathode
MB-CU-0411	Copper EQ cathode premium, cif Europe, \$/tonne.		conforming to LME specifications BS EN 1978:1998 – Cu-CATH-1
Quality:	99.9935% min copper conforming to	Unit:	USD/tonne
,	LME specifications; Ag: 0.0025% max,	Quantity:	25 tonnes
	As: 0.0005% max, Bi: 0.00020% max, Fe: 0.0010% max, Pb: 0.0005% max,	Payment terms:	Cash, other payment terms normalized
	S: 0.0015% max, Se: 0.00020% max,	Timing:	Prompt release
	Te: 0.00020% max	Publication:	Fortnightly. Weds 3-4pm London time
Quantity:	Min 25 tonnes		
Location:	cif Europe		
Timing: Unit:	Within 4 weeks USD per tonne		
Payment terms:	Cash payment, other terms normalized		
Publication:	Once every two weeks. Tuesday 4pm		
	London time		
Note:	Non-exchange deliverable units		



Copper rod

UNITED STATES

MB-CU-0410 Copper rod premium, ddp

MidwestUS, 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 ASI	A & EAST ASIA	MB-PB-0084	Lead 99.97% ingot premium, cif Taiwan, \$/tonne
MB-PB-0107 Quality:	Lead 99.97% ingot premium, cif Southeast Asia, \$/tonne Lead ingot of 99.97-99.99% purity	Quality:	Lead of 99.97% to 99.99% purity conforming to LME specification BS EN 12659:1999, GB/T 469/2005 or
	conforming to LME specification BS EN 12659:1999, GB/T 469/2005 or ASTM B29-03 (2009)	Quantity: Location:	ASTM B29-03 (2009) 25 tonnes cif delivery main Taiwan ports (Taipei,
Quantity: Location:	25 tonnes cif to ports of Vietnam (Ho Chi Minh/Haiphong), Thailand (Bangkok,	Timing:	Kaohsiung or Keelung), duty-unpaid premium on top of LME cash prices Within 5 weeks
	Laem Chabang), Malaysia (Johor, Port Klang), Indonesia (Jakarta), duty-unpaid premium on top of LME cash prices	Unit: Payment terms:	USD/tonne Letter of credit, telegraphic transfer or cash against documents, other terms normalized
Timing: Unit:	Within 5 weeks USD/tonne	Publication:	Once every two weeks. Tuesday 3-4pm London time
Payment terms:	Letter of credit, telegraphic transfer or cash against documents, other terms normalized	MB-PB-0083	Lead 99.99% ingot premium, cif
Publication:	The first Tuesday of every month,	1415 1 5 0000	Taiwan, \$/tonne
	3-4pm London time	Quality:	Lead ingot 99.99% min purity to LME specification BS EN 12659:1999, GB/T 469/2005 or ASTM B29-03 (2009)
MB-PB-0108	Lead 99.99% ingot premium, cif Southeast Asia, \$/tonne	Quantity: Location:	25 tonnes cif main Taiwanese ports (Taipei,
Quality:	Lead ingot of 99.99% min purity to LME specification BS EN 12659:1999,	Location.	Kaohsiung or Keelung), duty-unpaid premium on top of LME cash prices
Quantity:	GB/T 469/2005 or ASTM B29-03 (2009) 25 tonnes	Timing: Unit:	Within 5 weeks USD/tonne
Location:	cif ports of Vietnam (Ho Chi Minh/ Haiphong), Thailand (Bangkok, Laem Chabang), Malaysia (Johor, Port Klang),	Payment terms:	Letter of credit, telegraphic transfer or cash against documents, other terms normalized
Time in my	Indonesia (Jakarta), duty-unpaid premium on top of LME cash prices Within 5 weeks	Publication:	Once every two weeks. Tuesday 3-4pm London time
Timing: Unit:	USD/tonne		
Payment terms:	Letter of credit, telegraphic transfer or cash against documents, other terms normalized	MB-PB-0105	Lead min 99.97% ingot warrant premium, in-whs Southeast Asia \$/tonne
Publication:	The first Tuesday of every month, 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: Unit:	Prompt release USD/tonne
		Onit: Payment terms:	Cash, other payment terms normalized
		Publication:	Fortnightly. Weds 3-4pm London time



Publication:

Non-ferrous Prices

Fortnightly. Weds 3-4pm London time

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

Publication:

EUROPE UNITED STATES

Fortnightly. Weds 3-4pm London time

MB-PB-0109 Lead 99.97% ingot warrant MB-PB-0006 Lead 99.97% ingot premium ddp Midwest US, US cents/lb premium, in-whs North Europe, \$/ Quality: Lead ingot of 99.97% to 99.99% Location: In any LME-approved warehouse in purity conforming to LME specification BS EN 12659:1999, GB/T North Europe (Belgium, Germany, the 469/2005 or ASTM B29-03 (2009) Netherlands, Sweden and the UK), premium on top of LME cash prices Quantity: Min 25 tonnes Lead of 99.97% to 99.99% purity Location: Delivered consumer works, US Quality: conforming to LME specification BS Midwest EN 12659:1999, GB/T 469/2005 or Timing: Within 5 weeks ASTM B29-03 (2009) Unit: US cents/lb Unit: USD/tonne 30 days, other payment terms Payment terms: Quantity: Min 25 tonnes normalized Publication: Payment terms: Cash, other payment terms Weekly. Tuesday 3-4pm London time normalized Timing: Prompt release Form: Cathode MB-PB-0056 Lead 99.97% ingot all-in price, Publication: Fortnightly. Weds 3-4pm London time ddp Midwest US, US cents/lb Lead ingot of 99.97% to 99.99% Quality: purity conforming to LME specification BS EN 12659:1999, GB/T 469/2005 or ASTM B29-03 (2009)

Quantity:

Location: Delivered consumer works, Midwest
Delivery: Within 5 weeks
Unit: US cents per pound
Payment terms: 30 days, other payment terms
normalized
Publication: Weekly, Tuesday
Notes: London Metal Exchange cash lead
AM bid price plus Fastmarkets lead
premium

Min 20 tonnes



MB-PB-0099 Lead 99.99% ingot premium,

delivered Midwest US, US cents/lb

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: Delivered consumer works, US

Midwest

Timing: Within 5 weeks
Unit: US cents /lb

Payment terms: 30 days, other payment terms

normalized

Publication: Weekly. Tuesday 3-4pm London time

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)

Quantity: Min 25 tonnes

Location: In any LME-approved warehouse in

the USA, premium on top of LME

cash prices

Timing: Prompt release
Unit: USD/tonne

Payment terms: Cash, other payment terms

normalized

Publication: Fortnightly. Weds 3-4pm London time

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 cif China Location: Within 8 weeks Timing: Unit: USD/tonne

Payment terms: Letter of credit and telegraphic

transfer

Publication: Last Tuesday of each month

Notes: Origin = Australia and Madagasgar

warrant premium, in-whs East

Nickel min 99.8% full plate

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

MB-NI-0139

Location: In any LME-approved warehouse in

> Taiwan (Kaohsiung) and South Korea (Gwangyang, Busan or Incheon), premium on top of LME cash prices

Timina: Prompt release Unit: USD/tonne

Payment terms: Cash, other terms normalized

Publication: Fortnightly. Weds 3-4pm London time

SOUTHEAST ASIA & EAST ASIA

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

MB-NI-0137

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-0140 Nickel min 99.8% briquette

warrant premium, in-whs East

Asia, \$/tonne

Quality: Briguette. 99.80% min primary nickel

> conforming to LME specification: ASTM B39-79 (2013) or GB/T 6516-

2010 - Ni9990 grade

Quantity: 6 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, other payment 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



EUROPE		MB-NI-0141	Nickel min 99.8% warrant
MB-NI-0003	Nickel uncut cathode premium, in-whs Rotterdam, \$/tonne	Quality:	<pre>premium, in-whs North Europe, \$/tonne Cathode (full-plate, cut), pellet or</pre>
Quality:	Full-plate cathode. 99.80% min primary nickel conforming to LME specification: ASTM B39-79 (2013) or GB/T 6516-2010 - Ni9990 grade	,	briquette. 99.80% min primary nickel conforming to LME specification: ASTM B39-79 (2013) or GB/T 6516- 2010 - Ni9990 grade
Quantity:	20 tonnes	Quantity:	Min 6 tonnes
Location:	In-warehouse Rotterdam, premium on top of LME cash prices	Location:	Any LME-approved warehouse in North Europe (Belgium, Germany, the
Timing:	Within one week		Netherlands, Sweden and the UK),
Unit:	USD/tonne		premium on top of LME cash prices
Payment terms:	Cash, other payment terms normalized	Timing:	Prompt release
Publication:	Weekly. Tuesday 3-4pm London time	Unit:	USD/tonne
		Payment terms: Publication:	Cash, other terms normalized Fortnightly. Weds 3-4pm London time
MB-NI-0001	Nickel 4x4 cathode premium,		
	in-whs Rotterdam, \$/tonne	LINUTED STATES	
Quality:	4x4 cut cathode. 99.80% min primary nickel conforming to LME	UNITED STATES	
	specification: ASTM B39-79 (2013) or GB/T 6516-2010 - Ni9990 grade	MB-NI-0240	Nickel 4x4 cathode premium, delivered Midwest US, US cents/lb
Quantity:	Min 20 tonnes	Quality:	4x4 cut cathode. 99.8% minimum
Location:	In-warehouse Rotterdam, premium on top of LME cash prices	2.2 2 1,	primary nickel conforming to LME specification: ASTM B39-79 (2013)
Timing:	Within one week		or GB/T 6516-2010 - Ni9990 grade
Unit:	USD/tonne		specification: ASTM B39-79 (2013) or
Payment terms:	Cash, other payment terms normalized	Quantity:	GB/T 6516-2010 - Ni9990 grade Min 20 tonnes
Publication:	Weekly. Tuesday 3-4pm London time	Location:	Delivered consumer works US
		Timing:	Within four weeks
		Unit:	US cents per lb
MB-NI-0002	Nickel briquette premium, in-whs Rotterdam, \$/tonne	Payment terms:	30 days, other payment terms normalized
Quality:	Briquette. 99.80% min primary nickel conforming to LME specification: ASTM B39-79 (2013) or GB/T 6516- 2010 – Ni9990 grade	Publication:	Weekly. Tuesday 3-4pm London time
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-0242 Nickel 4x4 cathode all-in price, delivered Midwest US, US cents/lb

Quality: 99.8% minimum primary 4x4

cut cathodes conforming to LME specification: ASTM B39-79 (2013) or GB/T 6516-2010 - Ni9990 grade specification: ASTM B39-79 (2013) or GB/T 6516-2010 - Ni9990 grade. Smaller cut cathode dimensions may

be normalized.

Quantity: Min 20 tonnes

Location: Delivered consumer works US

Delivery: Within four weeks
Unit: US cents per lb

Payment terms: 30 days, other terms normalized

Publication: Daily

Notes: London Metal Exchange cash nickel

AM bid price plus Fastmarkets nickel

4x4 cathode premium

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

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

Quantity:

MB-NI-0241 Nickel briquette premium,

delivered Midwest US, US cents/lb

Quality: Briquette. 99.8% minimum

primary nickel conforming to LME specification: ASTM B39-79 (2013) or GB/T 6516-2010 - Ni9990 grade specification: ASTM B39-79 (2013) or GB/T 6516-2010 - Ni9990 grade

Quantity: Min 20 tonnes

Location: Delivered consumer works US

Timing: Within four weeks
Unit: US cents per lb

Payment terms: 30 days, other payment terms

normalized

Publication: Weekly. Tuesday 3-4pm London time

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

Within 2 weeks

Timing: Within 2 we 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

EUROPE
MB-SN-0002

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 Once every two weeks. Tuesday

3-4pm London time

MB-SN-0029

Publication:

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

Once every two weeks. Tuesday

3-4pm London time

UNITED STATES

Publication:

Tin min 99.85% ingot warrant

premium, in-whs Southeast Asia,

\$/tonne

Quality: Ingot. Minimum 99.85% tin purity

conforming to LME specification: $\ensuremath{\mathsf{BS}}$

EN 610:1996, max 500ppm lead

Quantity: Min 5 tonnes

MB-SN-0042

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-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: 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: Once every two weeks. 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 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

Quality: Special High Grade zinc ingot

of minimum 99.995% purity, conforming to LME specifications and relevant standards: BS EN 1179:2003, ISO 752:2004 - ZN-1 grade,

ASTM B6-12 - LME grade or GB/T 470-

2008

Quantity: Min 25 tonnes

Location: cif Taiwanese ports, premium on top

of LME cash prices

Timing: Within 4 weeks
Unit: USD/tonne

Payment terms: Letter of credit, telegraphic transfer

or documents against payment, other payment terms normalized

Publication: Once every two weeks. Tuesday

3-4pm London time

SOUTHEAST ASIA & EAST ASIA

MB-ZN-0113 Zinc SHG 99.995% ingot premium,

fca Singapore, \$/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: fca Singapore, premium on top of

LME cash price

Timing: Within 4 weeks
Unit: USD/tonne

Payment terms: Letter of credit or telegraphic

transfer, other terms normalized

Publication: Once every two weeks. Tuesday

3-4pm London time



MB-ZN-0115 Quality:	Zinc SHG 99.995% ingot premium, fca Malaysia, \$/per tonne Special High Grade zinc ingot	MB-ZN-0123	Zinc SHG min 99.995% warrant premium, in-whs Southeast Asia, \$/tonne
	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
Quantity: Location:	Min 25 tonnes fca main Malaysian ports (Johor,	Quantity:	470- 2008 Min 100 tonnes
Location.	Port Klang), premium on top of LME cash price	Location:	Any LME-approved warehouse in Singapore/Malaysia (Johor, Port
Timing:	Within 4 weeks		Klang), premium on top of LME cash
Unit:	USD/tonne	Tinging	prices
Payment terms:	Letter of credit or telegraphic transfer, other terms normalized	Timing: Unit:	Prompt release USD/tonne
Publication:	Once every two weeks. Tuesday	Payment terms:	Cash, other payment terms
	3-4pm London time		normalized
	'	Publication:	Fortnightly. Weds 3-4pm London time
MB-ZN-0093	Zinc SHG min 99.995% ingot premium, cif Southeast Asia, \$/	EUROPE	
	•		
Quality:	tonne Special High Grade zinc ingot of minimum 99.995% purity,	MB-ZN-0001	Zinc SHG min 99.995% ingot premium, dp fca Rotterdam, \$/ tonne
	tonne 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		premium, dp fca Rotterdam, \$/ tonne Special High Grade zinc ingot of minimum 99.995% purity, conforming to LME specifications and relevant standards: BS EN
Quality: Quantity: Location:	tonne Special High Grade zinc ingot of minimum 99.995% purity, conforming to LME specifications and relevant standards: BS EN 1179:2003, ISO 752:2004 - ZN-1 grade, ASTM B6-12 - LME grade or GB/T 470- 2008 Min 25 tonnes cif ports in Vietnam (Ho Chi Minh/	MB-ZN-0001	premium, dp fca Rotterdam, \$/ tonne 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-
Quantity:	tonne Special High Grade zinc ingot of minimum 99.995% purity, conforming to LME specifications and relevant standards: BS EN 1179:2003, ISO 752:2004 - ZN-1 grade, ASTM B6-12 - LME grade or GB/T 470- 2008 Min 25 tonnes cif ports in Vietnam (Ho Chi Minh/ Haiphong), Thailand (Bangkok,	MB-ZN-0001 Quality:	premium, dp fca Rotterdam, \$/ tonne 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:	tonne Special High Grade zinc ingot of minimum 99.995% purity, conforming to LME specifications and relevant standards: BS EN 1179:2003, ISO 752:2004 - ZN-1 grade, ASTM B6-12 - LME grade or GB/T 470- 2008 Min 25 tonnes cif ports in Vietnam (Ho Chi Minh/ Haiphong), Thailand (Bangkok, Laem Chabang), Malaysia (Johor,	MB-ZN-0001 Quality: Quantity:	premium, dp fca Rotterdam, \$/ tonne Special High Grade zinc ingot of minimum 99.995% purity, conforming to LME specifications and relevant standards: BS EN 1179:2003, ISO 752:2004 - ZN-1 grade, ASTM B6-12 - LME grade or GB/T 470- 2008 Min 100 tonnes
Quantity:	tonne Special High Grade zinc ingot of minimum 99.995% purity, conforming to LME specifications and relevant standards: BS EN 1179:2003, ISO 752:2004 - ZN-1 grade, ASTM B6-12 - LME grade or GB/T 470- 2008 Min 25 tonnes cif ports in Vietnam (Ho Chi Minh/ Haiphong), Thailand (Bangkok,	MB-ZN-0001 Quality:	premium, dp fca Rotterdam, \$/ tonne Special High Grade zinc ingot of minimum 99.995% purity, conforming to LME specifications and relevant standards: BS EN 1179:2003, ISO 752:2004 - ZN-1 grade, ASTM B6-12 - LME grade or GB/T 470- 2008 Min 100 tonnes Free-carrier basis delivery in Rotterdam, duty-paid premium on
Quantity:	tonne Special High Grade zinc ingot of minimum 99.995% purity, conforming to LME specifications and relevant standards: BS EN 1179:2003, ISO 752:2004 - ZN-1 grade, ASTM B6-12 - LME grade or GB/T 470- 2008 Min 25 tonnes 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	MB-ZN-0001 Quality: Quantity:	premium, dp fca Rotterdam, \$/ tonne Special High Grade zinc ingot of minimum 99.995% purity, conforming to LME specifications and relevant standards: BS EN 1179:2003, ISO 752:2004 - ZN-1 grade, ASTM B6-12 - LME grade or GB/T 470- 2008 Min 100 tonnes Free-carrier basis delivery in
Quantity: Location:	tonne Special High Grade zinc ingot of minimum 99.995% purity, conforming to LME specifications and relevant standards: BS EN 1179:2003, ISO 752:2004 - ZN-1 grade, ASTM B6-12 - LME grade or GB/T 470- 2008 Min 25 tonnes 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	MB-ZN-0001 Quality: Quantity: Location:	premium, dp fca Rotterdam, \$/ tonne Special High Grade zinc ingot of minimum 99.995% purity, conforming to LME specifications and relevant standards: BS EN 1179:2003, ISO 752:2004 - ZN-1 grade, ASTM B6-12 - LME grade or GB/T 470- 2008 Min 100 tonnes Free-carrier basis delivery in Rotterdam, duty-paid premium on top of LME cash prices
Quantity: Location: Timing:	tonne Special High Grade zinc ingot of minimum 99.995% purity, conforming to LME specifications and relevant standards: BS EN 1179:2003, ISO 752:2004 - ZN-1 grade, ASTM B6-12 - LME grade or GB/T 470- 2008 Min 25 tonnes 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 Within 4 weeks	MB-ZN-0001 Quality: Quantity: Location: Timing:	premium, dp fca Rotterdam, \$/ tonne Special High Grade zinc ingot of minimum 99.995% purity, conforming to LME specifications and relevant standards: BS EN 1179:2003, ISO 752:2004 - ZN-1 grade, ASTM B6-12 - LME grade or GB/T 470- 2008 Min 100 tonnes Free-carrier basis delivery in Rotterdam, duty-paid premium on top of LME cash prices Within 4 weeks



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



UNITED STATES

MB-ZN-0005 Zinc SHG min 99.995% ingot

premium, ddp Midwest US,

US cents/lb

Quality: Min 99.995% special high grade

zinc ingot, conforming to LME specifications and relevant BS EN

standards

Quantity: Min 25 tonnes

Location: Delivered consumer works Midwest

US

Timing: Within 4 weeks
Unit: US cents per pound

Payment terms: 30 days, other payment terms

normalized

Publication: Weekly. Tuesday 3-4pm London time

MB-ZN-0061 Zinc SHG min 99.995% ingot all-in price, ddp Midwest US, US cents/lb

Quality: Zinc of 99.995% purity (min.)

conforming to BS EN 1179: 2003

Location: Delivered consumer works, Midwest

Unit: US cents per pound

Publication: Daily

Notes: London Metal Exchange cash zinc

AM bid price plus Fastmarkets zinc

premium

MB-ZN-0104 Zinc SHG min 99.995% warrant premium, in-whs US, \$/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: 25 tonnes

Location: In any LME-approved warehouse in

the US, premium on top of LME cash

prices

Timing: Prompt release Unit: USD/tonne

Payment terms: Cash, other payment terms

normalized

Publication: Fortnightly. Weds 3-4pm London time

Bulk alloys

Ferro-chrome

CHINA

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

Timing: Within 6 wer 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



Weekly, Tuesday 2-3pm London time

USD per lb contained Cr

normalized

30 days, other payment terms

SOUTHEAST ASIA & EAST ASIA

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SOUTHERST ASIA & EAST ASIA		LOKOTE		
MB-FEC-0017	Ferro-chrome high carbon 57-65% Cr, cif dup Japan, \$/lb	MB-FEC-0021	Ferro-chrome, high carbon, 6-8.5% C, basis 65-70% Cr, max	
Quality:	10-50mm lump. Cr 57% min, 65% max; C 6% min, 9% max; Si 2% min,		1.5% Si, delivered Europe, \$ per lb Cr	
	4% max; P 0.04% max; S 0.05% max	Quality:	Lump, Cr 65-70%, C 6-8.5%, Si 1.5%.	
Quantity:	Min 100 tonnes	Quantity:	Min 24 tonnes	
Location: Unit:	cif Japan USD per Ib of chrome contained	Location:	Delivered consumer works Europe (other incoterms will be normalized)	
Payment terms:	LC at sight and TT	Unit:	USD per lb of chrome contained	
Publication:	Every other week. Thursday 5-6pm Shanghai time	Payment terms:	30 days, other payment terms normalized	
	5	Publication:	Weekly, Tuesday at 2-3pm London time	
MB-FEC-0018	Ferro-chrome high carbon 57-65%			
	Cr, cif dup South Korea, \$/lb			
Quality:	10-50mm lump. Cr 57% min, 65%	MB-FEC-0020	Ferro-chrome, high carbon,	
	max; C 6% min, 9% max; Si 2% min,		6-8.5% C, basis 60-64.9% Cr,	
	4% max; P 0.04% max; S 0.05% max		max 3% Si, cif Europe, \$ per lb Cr	
Quantity:	Min 100 tonnes	Quality:	Lump, Cr 60-64.9%, C 6-8.5%, Si 3%	
Location:	cif South Korea		max.	
Unit:	USD per lb of chrome contained	Quantity:	Min 24 tonnes	
Payment terms: Publication:	LC at sight and TT Every other week. Thursday 5-6pm	Location:	cif major European ports (other incoterms will be normalized)	
	Shanghai time	Unit:	USD per lb of chrome contained	
		Payment terms:	30 days, other payment terms normalized	
MB-FEC-0023	Ferro-chrome 50% Cr import, cif	Publication:	Weekly, Tuesday at 2-3pm London time	
Quality:	10-100mm lump. Chrome base 50%,			
	range 48-52%; carbon case 7%,	MD FEC 0024	F	
	max 9%; silicon base 3%, max 6%; phosphorous max 0.03%; sulphur	MB-FEC-0024	Ferro-chrome 50% Cr, delivered Europe, \$/lb Cr	
	max 0.06%	Quality:	Lump. Chrome base 50%, range	
Quantity:	Min 100 tonnes		47-56%; carbon base 6.5%, max	
Location:	cif Indonesian main ports		9%; silicon base 3%, max 6%;	
Timing: Unit:	Within 6 weeks USD per Ib		phosphorous max 0.03%; sulphur max 0.06%.	
Payment terms:	LC/DP	Quantity:	Min 100 tonnes	
Publication:	Fortnightly. Thursday 5-6pm Shanghai time	Location:	Delivered consumer works Europe (other incoterms will be normalized)	
		1.1.20	LICD II	

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Unit:

Publication:

Payment terms:



MB-FEC-0002 Quality: Quantity: Location: Unit: Payment terms: Publication:	Ferro-chrome low carbon, 65% Cr, max 0.06% C, delivered Europe, \$/lb Cr Lump. Cr 65% basis (range 60-70% Cr), C 0.06% max, Si 1.5% max, P 0.05% max, S 0.05% max Min 25 tonnes Delivered consumer works Europe USD per lb of chrome contained 30 days, other payment terms normalized Fortnightly. Tuesday between 2pm	MB-FEC-0001 Quality: Quantity: Location: Unit: Payment terms: Publication:	Ferro-chrome low phosphorous, min 65% Cr, max 0.015% P, delivered Europe, \$/lb Lump. Cr 65% min, Si 1% max, C 6-8%, P 0.015% max, Ti 0.05% Min 25 tonnes Delivered consumer works Europe USD per lb of chrome contained 30 days, other payment terms normalized Fortnightly. Tuesday 2-3pm London time
	and 3pm London time	MB-FEC-0016	Ferro-chrome lumpy Cr charge
MB-FEC-0003 Quality:	Ferro-chrome 0.10% C, average 65-70% Cr, delivered Europe, \$/lb Cr 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,	Quality: Quantity: Location: Unit:	quarterly, basis 52% Cr (and high carbon), delivered Europe, \$/lb Cr Lump. Basis 52% Cr, high carbon Min not specified Delivered consumer works Europe US cents per lb of chrome contained
Quantity: Location: Unit:	S 0.03% max Min 25 tonnes Delivered consumer works Europe USD per Ib of chrome contained	Payment terms: Publication:	Not specified Quarterly as per industry announcement to Johannesburg Stock Exchange
Payment terms: Publication:	30 days, other payment terms normalized Fortnightly. Tuesday 2-3pm London time	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
MB-FEC-0022 Quality:	Ferro-chrome low carbon, 0.10% C, basis 60-64.9% Cr, CIF Europe, \$ per lb Cr Lump, Cr 60-64.9%, C 0.10%, Si 1.5%		announced by a leading producer to the Johannesburg Stock Exchange. Fastmarkets obtains the benchmark number from market participants and/ or from the official announcement.
Quantity:	max, P 0.03% max, S 0.03% max Min 25 tonnes		or from the official affiliation centerit.
Location: Unit: Payment terms:	CIF Europe USD per Ib of chrome contained 30 days, other payment terms	MB-FEC-0019	Ferro-chrome lumpy Cr benchmark indicator, charge basis 52% (and high carbon), Europe, \$/lb
Publication:	normalized Fortnightly. Tuesday 2-3pm London	Quality:	Ferro-chrome lumpy, basis 52% chrome content
	time	Unit: Publication: Notes:	US cents per lb of chrome content to major European destinations Weekly. Tuesday 2-3pm London time 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.



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

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-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-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-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

UNITED STATES

MB-FEM-0001 Ferro-manganese high carbon

78% Mn, standard 7.5% C, in-whs

Pittsburgh, \$/long ton

Quality: Mn 780%, C 7.5% Quantity: Min 20 tons

Unit: US dollars per long ton
Location: In-warehouse Pittsburgh

Frequency: Weekly, Thursday



MB-FEM-0002 Ferro-manganese low carbon

80% Mn, max 0.80% C, in-whs

Pittsburgh, US cents/lb

Quality: Manganese min. 80.00%, carbon

max. 0.80%

Quantity: Min 20 tons

Location: In-warehouse Pittsburgh
Unit: US cents per pound

Publication: Once a week, every Thursday

MB-FEM-0003 Ferro-manganese medium carbon

80% Mn, max 1.50% C, in-whs Pittsburgh, US cents/lb

Quality: Manganese min 80%, carbon max

1.50%

Quantity: Min 20 tons

Unit: US cents per pound Location: In-whs Pittsburgh Frequency: Weekly, Thursday

Ferro-silicon

UNITED STATES

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 Min 100 tonnes

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

Ferro-nickel

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%

Min 100 tonnes Quantity:

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% Min 100 tonnes

Quantity: fob India Location: USD/tonne Unit: 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

Manganese min 65%, Si min 16% Quality:

Quanity: 20 tons

Location: In-warehouse Pittsburgh Unit: US cents per pound Publication: Weekly. Thursday

CHINA

MB-FEN-0003 Ferro-nickel premium/discount,

26-32% Ni contained, cif China,

\$/tonne

Ni typical 30% (range 26%-32%), P Quality:

0.0045% max, S 0.060% max

Quantity: Min 100 nickel metal tonnes per lot

cif China Location: Unit: USD/tonne

Payment terms: Cash, other payment terms

normalized

Publication: Last Monday of each month

> between 2pm to 3pm London time Ferro-nickel price = (LME Ni price +

premium/ discount) x nickel content

Nickel Pig Iron

CHINA

Notes:

MB-FEN-0001 Nickel pig iron, high-grade NPI

> content 10-15%, contract, ddp China, yuan/nickel unit price

Lump. Ni10-15%, Fe 80%, P 0.04% Quality:

max, S 0.03% max, Si 4.5% max, C

4% max

Quantity: Min 1,000 tonnes

Delivered duty paid China Location:

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

Lump. Ni10-15%, Fe 80%,P 0.04% Quality:

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

Weekly. Friday 3-4pm London time Publication:

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

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

SOUTH KOREA

MB-FEO-0004 Drummed molybdic oxide,

in-warehouse Busan \$/lb Mo

Sandy powder (0-4 mm). Mo 57% Quality:

> 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

Spot Timina:

USD per lb Mo Unit:

Payment terms: Cash; other terms normalized Publication: Daily. 2-3pm London time

UNITED STATES

Unit:

MB-FET-0002 Ferro-titanium 68-72% Ti, ex-whs

US, \$/lb

Titanium 68-72%, Aluminium 4-5%, Quality:

> Vanadium max 3%, Carbon max 0.20%, Oxygen max 2%, Nitrogen max 0.50%

Quantity: 10 tonne min Ex-US warehouse Location: US dollars per lb

Supersacks Packaging: Lump Form:

Frequency: Once a week, every Thursday

MB-TI-0004 Titanium ingot 6AI-4V, fob shipping point US, \$/lb

Quality: 6Al-4V (aluminum 6%, vanadium

4%, titanium remainder)

Location: fob shipping point Unit: US dollars per lb

Publication: Quarterly on the 10th of the month

by 5pm New York time

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 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

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, AI 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



UNITED STATES

Vanadium

EUROPE		MB-FEV-0002	Ferro-vanadium 70-80% V, in-whs
MB-FEV-0001 Quality:	Ferro-vanadium basis 78% V min, 1st grade, ddp Western Europe, \$/ kg V Lump. V 78%, Al 1.5%, Si 1.5%, C 0.25%, S 0.05%, P 0.06%, Mn 0.5%.	Quality: Quantity: Location: Unit: Publication:	Pittsburgh, \$/lb V 70-80% Min 10 tons In-warehouse Pittsburgh USD per lb Weekly. Thursday
	Other elements trace only, with the exception of Fe		
Quantity: Location:	Min 5 tonnes Delivered consumer works Europe	MB-V-0002	Vanadium pentoxide 98% V2O5 min, fob China, \$/lb V2O5
Unit: Payment terms: Publication:	USD per kg V Cash, other terms normalized Twice weekly. Wednesday and Friday at 2-3pm London time	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: Location:	Min 5 tonnes (+/- 5%) fob China (other delivery terms
MB-V-0001	Vanadium pentoxide 98% V2O5 min, in-whs Rotterdam, \$/lb V2O5	Timing:	normalized) Within 20 days
Quality:	Brown flake. V 98% min, Si 0.25% max. Fe 0.30% max, S 0.03% max. P	Unit: Payment terms:	\$/lb V2O5 L/C, T/T, other payment terms
	0.05% max, As 0.02% max, Na2+K2O	,	normalized
Quantity:	1.50% max Min 5 tonnes (+/- 5%)	Publication:	Weekly, Thursday, 2-3pm London time
Location: Unit:	In-warehouse Rotterdam USD per Ib V2O5	Notes:	Low-liquidity measures are applied when necessary
Payment terms: Publication:	Cash, other terms normalized Weekly. Friday 2-3pm London time		
		MB-V-0003	Vanadium nitrogen, basis 77%V, 16% N, ex-works China
CHINA		Quality:	Lump. V 77-81%, N 14-18%, C 6% max, P 0.06% max, S 0.10% max
MB-FEV-0003	Ferro-vanadium 78% V min, fob China, \$/kg V	Quantity: Location:	Min 20 tonnes (+/- 5%) Ex-works China
Quality:	Lump. V 78% min, Al 1.5% max, Si 2% max, C 0.06%, S 0.05%, P 0.05%, As	Unit: Payment terms:	CNY/tonne Cash, other terms normalized
	0.06%, Mn 0.5%, Cu 0.1%, Ni 0.15%, Mesh size 10-50mm, 90% min.	Publication:	Weekly, Thursday, between 2pm and 3pm London time
Quantity: Location:	Min 5 tonnes (+/- 5%) fob China (other delivery terms		
Timing:	normalized) Within 20 days	MB-V-0004	Vanadium pentoxide 98% V2O5 min, ex-works China
Unit:	\$/kg V	Quality:	Brown flake. V 98% min, Si, 0.25%
Payment terms:	L/C, T/T, other payment terms normalized	233().	max, Fe 0.30% max, S 0.03% max, P 0.05% max, As 0.02% max, Na2+K2O
Publication:	Weekly, Thursday 2-3pm London time	Quantity:	1.50% max. Min 20 tonnes (+/- 5%)
Notes:	Low-liquidity measures are applied	Location:	Ex-works China
	when necessaryi	Unit:	CNY/tonne
		Payment terms: Publication:	Cash, other terms normalized Weekly, Thursday, between 2pm and

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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 Minimum 5-tonne lots

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

Manganese ore

AFRICA

MB-CHO-0003 Chrome ore South Africa UG2/MG

concentrates index, cif China, \$/

tonne

Up to 2mm (99% min); Cr range Quality:

> 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)

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

fob Port Elizabeth (South Africa) Location:

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-CHO-0002 Chrome ore Turkish lumpy 40-

42%, cfr main Chinese ports, \$/

tonne

Quantity: 1,000 tonnes

Lump. Cr 40-42; Silica 15% max; Quality:

> Alumina 16% max; MgO 26% max; S 0.02%; P 0.01%; chrome-iron ratio

2.6:1 (2.5:1 min)

Location: cfr China main ports

Unit: USD per tonne Payment terms: Payment at sight

Publication: Weekly. Tuesday Between 2pm and

3pm London time

CHINA

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%

Min 5,000 tonnes

Quantity:

Location: CIF Tianjin, China (normalized for

any Chinese mainland sea port)

Within nine weeks Timing:

USD per dry metric tonne unit 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

Nickel ore

CHINA

MB-NIO-0002

Quality:

Quantity:

Location:

Payment terms:

Publication:

Unit:

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

Laterite ore with 1.5% Ni content,

Nickel ore 1.5% Ni, 15-20% Fe, water

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

cif China, \$/tonne

content 30-35% 50,000 tonnes

USD per tonne

normalized

cif China

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-NIO-0006 Laterite ore with 1.3% Ni content,

cif China, \$/tonne

Cash, other payment terms

Quality: Nickel ore 1.3% Ni, 15-25% Fe, Si:Mg

ratio 1.1-1.8, water content 35% max

Weekly. Friday 2-3pm London time

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

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



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

Ingot. MMTA standard Grade II. Sb Quality:

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

CNY/tonne Unit: Payment terms: Cash

Publication: Weekly. Friday between 2pm and

3pm London 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

Prompt, within 10 calendar days Timing:

USD per tonne Unit:

Payment terms: Cash, other payment terms

normalized

Twice weekly. Wednesday and Friday Publication:

2-3pm London time

Original producer packaging, on Notes:

pallets or in wooden cases

MB-SB-0001 Antimony max 100 ppm Bi, in-whs

Rotterdam, \$/tonne

Min 10 tonnes (+/-2%) Quantity:

Ingot. Sb Min 99.65% min, Bi 100ppm Quality:

> 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, \$/Ib

Quality: Lumpy, fist-sized and smaller.

As 99% min, no other elements

specified

1 tonne (+/-2%) Quantity: In-whs Rotterdam Location: Timing: Prompt release

Unit: USD per lb

Cash, other payment terms Payment terms:

normalized Publication: Twice weekly. Friday 2-3pm

London time

Original producer poly-lined steel Notes:

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 Russian

X99H4. Cr 99% min, Fe 0.5% max, Al 0.2% max, Si 0.2% max, C 0.03% max, S 0.02% max, Pb 0.0008% max, Cu 0.01% max, P 0.02% max, Zn 0.006% max, Sb 0.008% max, Sn 0.004% max, Bi 0.0005% max, As 0.01% max, Co 0.005% max, N

0.04% max

Quantity: Min 10 tonnes (+/-2%)
Location: In-whs Rotterdam
Timing: Prompt release
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

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

Quantity:

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

tonnes

Location: In-warehouse Rotterdam,

duty-unpaid, customs uncleared

Minimum 1 tonne, maximum 100

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, \$/Ib

Quality: Min 99.8% cobalt metal; standard

specifications of the following brands in original packaging: Katanga cathodes. Chambishi broken

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 Minimum 1 tonne, maximum 100

Quantity: Minimum

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

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

^{*} 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'.



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

MB-GER-0006 Germanium dioxide, in-whs China,

yuan/kg

Quality: GeO2 99.99 % min, Ge 69 % approx.

White powder

Quantity: Min 100 kg (+/- 2%) Location: in-whs China Timing: Prompt release

Payment terms: Cash, other payment terms

normalized

Unit: yuan/kg

Publication: Weekly. Friday by 3pm London time Notes: Original producer cases, normally

25kg each

Germanium

MB-GER-0001

<u>CHINA</u> <u>EUROPE</u>

Germanium dioxide, in-whs China,

\$ per kg

Quality: GeO2 99.99% min, Ge 69% approx.

White powder

Quantity: Min 100kg (+/- 2%)
Location: In-whs China
Timing: Prompt release
Unit: USD per kg

Payment terms: Cash, other payment terms

normalized

Publication: Twice-weekly. Wednesday and Friday

between 2pm and 3pm London time.

Notes: Original producer cases, normally

25kg each. This price will be discontinued at the end of 2024.

MB-GER-0003 Germanium 99.999% Ge,

in-whs Rotterdam, \$/kg

Quality: Ingot. Ge 99.999%, no other

elements specified Min 100 kg (+/- 2%) In-whs Rotterdam Prompt release

Unit: USD/kg

Quantity:

Location:

Timing:

Payment: Cash, other payment terms

normalized

Publication: Twice-weekly. Wednesday and Friday

between 2pm and 3pm London time

Notes: Packed in plastic sleeves, original

producer cases

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/ka

Payment terms: Cash, other payment terms

normalized

Publication: Weekly. Friday by 3pm London time

MB-GER-0005 Germanium dioxide,

in-whs Rotterdam, \$ per kg

Quality: GeO2 99.99% min, Ge 69% approx.

White powder

Quantity: Min 100kg (+/- 2%)
Location: in-whs Rotterdam
Timing: Prompt release
Unit: USD per kg

Payment terms: Cash, other payment terms

normalized

Publication: Weekly; Wednesday between 2pm

and 3pm, London time

Notes: 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, 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%) Locaton: 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: Bi-weekly, Thursdays

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

CHINA

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

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 Min 25 tonnes (+/-2%)

Quantity: Min 25 tonnes (+/

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

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

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

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

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-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

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,

if 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-whsChina
Unit: CNY/kg

Payment terms: Cash, other terms normalized

Publication: Weekly. Friday 2-3pm London time



Battery raw materials MB-CO-0021 Cobalt sulfate

Cobalt sulfate 20.5% Co basis,

Crystal, feed from cobalt ores &

(materials produced from cobalt

0.001% max, Zn 0.001% max

concentrates, cobalt intermediates, such as crude cobalt hydroxide

scrap are excluded). Co 20.5% basis,

Ni 0.001% max, Cu 0.001% max, Fe

On bank acceptance (other terms

Twice weekly. Wednesday and Friday,

exw China, yuan/tonne

Quality:

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

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: Location: Timing:

Unit: % payable of Fastmarkets' standardgrade 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

Min 1 tonne

CNY/tonne

normalized)

2-3pm London time

Within 30 days

CHINA

CHINA

Quality:

Quantity:

Payment terms:

Publication:

Timing:

Unit:

MB-CO-0017

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

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

Publication:

Notes:

Cobalt hydroxide, min 30% Co, inferred, China, \$ per lb

Daily. Monday to Friday, 3.30pm London time

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: Li2CO3 99.5% min (Min. 99.2% Li2CO3 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

Quality: Powder, accepted by buyer for use

in battery applications and with the chemical composition: Li2CO3 99.5% min; Na 0.025% max; Ca 0.005% max; Mg 0.008% max; magnetic

impurities 300ppb max

Quantity: Min 5 tonnes

Location: Ex-works China, VAT included

Timing: 30 days
Unit: CNY/tonne

Publication: Weekly. Thursday, 4pm London

EUROPE

MB-LI-0023 Lithium carbonate 99.5% Li₂CO₃

min, battery grade, spot price ddp Europe, \$/kg

Quality: Powder, accepted by buyer for use

in battery applications and with the chemical composition: Li2CO3 99.5% min (Min. 99.2% Li2CO3 accepted if it can be normalized to 99.5%); Na 0.060% max; Ca 0.016% max; Mg 0.008% max; magnetic impurities

300ppb max

Quantity: Min 5 tonnes
Location: ddp Europe
Timing: 30 days
Unit: USD/kq

Publication: Weekly, Thursday 3-4pm London

time

NORTH AMERICA

MB-LI-0044 Lithium carbonate 99.5% Li2CO3

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: Li2CO3 99.5% min (Min. 99.2% Li2CO3 accepted if it can be normalized to 99.5%); Na 0.060% max; Ca 0.016% max; Mg 0.008% max; magnetic impurities

300ppb max

Quantity: Min 5 tonnes
Location: ddp US & Canada

Timing: 30 days
Unit: USD per kg

Publication: Weekly, Thursday 10-11am NY time

Lithium carbonate battery grade, contract price

EUROPE & US

MB-LI-0022 Lithium carbonate 99.5% Li₂CO₃

min, battery grade, contract price ddp Europe and US, \$/kg

Quality: Powder, accepted by buyer for use

in battery applications and with the chemical composition: Li2CO3 99.5% min (Min. 99.2% Li2CO3 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 20 tonnes
Location: ddp US & Europe
Timing: Up to 1 year
Unit: USD/kg

Publication: Monthly, last Wednesday of the

month between 3pm and 4pm

London time



CHINA, JAPAN & SOUTH KOREA

MB-LI-0027 Lithium carbonate 99.5% Li₂CO₃

min, battery grade, contract price cif China, Japan & Korea,

\$/kg

Quality: Powder, accepted by buyer for use

in battery applications and with the chemical composition: Li2CO3 99.5% min (Min. 99.2% Li2CO3 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 20 tonnes

Location: cif China, Japan & South Korea

Timing: Up to 1 year Unit: USD/kg

Publication: Monthly, last Wednesday of the

month between 3pm and 4pm

London time

Lithium hydroxide monohydrate battery grade spot price

CHINA, JAPAN & SOUTH KOREA

MB-LI-0033 Lithium hydroxide monohydrate

LiOH.H₂O, 56.5% LiOH min,, battery grade, spot price cif China, Japan & Korea, \$/kg

Quantity: Min 5 tonnes

Quality: Powder, accepted by buyer for use

in battery applications and with the chemical composition LiOH 56.5% min; CO2 <0.35%; Ca 0.020% max; SO4 0.015% max; CI- 0.005% max

Quantity: Min 5 tonnes

Location: cif main Chinese Japanese &

South Korean ports (other ports

normalized)

Timing: 60 days
Unit: USD/kg

Publication: Daily, 1pm London time

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; CO2 <0.35%; Ca 0.005% max; SO4 0.01% max; Cl- 0.002% max

Quantity: Min 5 tonnes

Location: Ex-works China, VAT included

Timing: 30 days
Unit: CNY/tonne

Publication: Weekly. Thursday, 4pm London

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; CO2 <0.35%; Ca 0.020% max; SO4 0.015% max; CI- 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; CO2 <0.35%; Ca 0.020% max; SO4 0.015% max; CI- 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 hydroxide monohydrate battery technical & industrial grade, contract price grade, spot price

Lithium carbonate

EUROPE & US

MB-LI-0024 Lithium hydroxide monohydrate

> LiOH.H2O, 56.5% LiOH min, battery grade, contract price ddp

Europe and US, \$/kg

Quality: Powder, accepted by buyer for use

> in battery applications and with the chemical composition LiOH 56.5% min; CO2 <0.35%; Ca 0.020% max; SO4 0.015% max; CI- 0.005% max

Quantity: Min 20 tonnes Location: ddp US & Europe Timina: Up to 1 year Unit USD/kg

Publication: Monthly, last Wednesday of the

month, 3-4pm London time

CHINA

MB-LI-0034 Lithium carbonate 99% Li2CO3

> min, technical and industrial grade, spot price range exw domestic China, yuan/tonne

Quality: Min 99% Li2CO3 (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

CHINA, JAPAN & SOUTH KOREA

Publication: Weekly, Thursday, 3-4pm London

time

CHINA, JAPAN & SOUTH KOREA

MB-LI-0031 Lithium hydroxide monohydrate

> LiOH.H₂O, 56.5% LiOH min, battery grade, contract price cif

China, Japan & Korea, \$/kg

Quality: Powder, accepted by buyer for use

in battery applications and with the chemical composition LiOH 56.5% min; CO2 <0.35%; Ca 0.020% max; SO4 0.015% max; CI- 0.005% max

Quantity: Min 20 tonnes

Location: CIF China, Japan & South Korea

Up to 1 year Timing: Unit: USD/kg

Publication: Monthly, last Wednesday of the

month between 3pm and 4pm

London time

Lithium carbonate 99% Li2CO3

min, technical and industrial grades, spot price cif China,

Japan & Korea, \$/ka

Quality: Min 99% Li2CO3 (qualified for

use in technical and industrial

applications). Powder

Quantity: Min 5 tonnes

cif China, Japan & South Korea Location:

Timing: 60 days Unit: USD/kg

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

EUROPE

MB-LI-0028

Lithium carbonate 99% Li2CO3 MB-LI-0019

> min, technical and industrial grades, spot price ddp Europe, \$/kg

Min 99% Li2CO3 (qualified for Quality:

use in technical and industrial

applications). Powder

Quantity: Min 5 tonnes ddp Europe Location: Timing: 30 days USD/kg Unit:

Publication: Weekly, Thursday, 3-4pm London



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% Li2CO3 (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

MB-LI-0022 Lithium carbonate 99.5% Li2CO3

min, battery grade, contract price ddp Europe and US, \$/kg

Quality: Powder, accepted by buyer for use

in battery applications and with the chemical composition: Li2CO3 99.5% min (Min. 99.2% Li2CO3 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 20 tonnes Location: ddp US & Europe

Unit: USD/kg

Publication: Monthly, last Wednesday of month,

3-4pm London time

Lithium carbonate technical & industrial grade, contract price

CHINA, JAPAN & SOUTH KOREA

MB-LI-0026 Lithium carbonate 99% Li2CO3

min, technical and industrial grades, contract price cif China,

Japan & Korea, \$/kg

Quality: Min 99% Li2CO3 (qualified for

use in technical and industrial

applications). Powder

Quantity: Min 20 tonnes

Location: cif China, Japan & South Korea

Unit: USD/kg

Publication: Monthly, last Wednesday of month,

3-4pm London time

UNITED STATES & EUROPE

MB-LI-0018 Lithium carbonate 99% Li2CO3

min, technical and industrial grades, contract price ddp Europe

and US, \$/kg

Quality: Min 99% Li2CO3 (qualified for

use in technical and industrial

applications). Powder

Quantity: Min 20 tonnes Location: ddp US & Europe

Publication: Monthly, last Wednesday of month,

3-4pm London time

Lithium hydroxide monohydrate technical & industrial grade, spot price

CHINA

MB-LI-0038 Lithium hydroxide monohydrate

LiOH.H₂O, 56.5% LiOH min, technical and industrial grade, spot price range exw domestic

China, yuan/ tonne

Quality: LiOH 56.5% min (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-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

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

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

Lithium hydroxide monohydrate technical & industrial grade, contract price

CHINA, JAPAN & SOUTH KOREA

MB-LI-0030 Lithium hydroxide monohydrate

LiOH.H₂O, 56.5% LiOH min, technical and industrial grades, contract price cif China, Japan &

Korea, \$/kg

Quality: LiOH 56.5% min (qualified for

use in technical and industrial

applications). Powder

Quantity: Min 20 tonnes

Location: cif China, Japan & South Korea

Unit: USD/kg

Publication: Monthly, last Wednesday of the

month, 3-4pm London time

UNITED STATES & EUROPE

MB-LI-0020 Lithium hydroxide monohydrate

LiOH.H₂O, 56.5% LiOH min, technical and industrial grades, contract price ddp Europe and

US, \$/kg

Quality: LiOH 56.5% min (for use in technical

and industrial applications)

Quantity: Min 20 tonnes
Location: ddp Europe & US

Unit: USD/kg Form: Powder

Publication: Monthly, last Wednesday of the

month, 3-4pm London 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: Li2O 6% (min 5.0% Li2O and max 6.1% Li2O accepted if it can be normalized to 6%); Fe2O3 < 1.3% (max 1.5% Fe2O3 accepted if it can be normalized to <

1.3%), H2O < 10%

Quantity: minimum 3,000 tonnes

Location: cif China
Timing: 90 days
Unit: USD/tonne

Publication: Daily, 1pm London time

Graphite

CHINA

MB-GRA-0036 Graphite spherical 99.95% C, 15

microns, fob China, \$/tonne

Quality: 99.95% C, 15 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

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: Li2O 6% (min 5.0% Li2O and max 6.1% Li2O accepted if it can be normalized to 6%); Fe2O3 < 1.3% (max 1.5% Fe2O3 accepted if it can be normalized to <

1.3%), H2O < 10%

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

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,	SOUT	THEAST	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-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. .

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

EUROPE

MB-NI-0253

Publication: Weekly. Friday, 4pm London time

\$/tonne

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

Quality: Accepted by buyer for use in Publication: Weekly, Friday 3-4pm London time

battery applications with chemical composition: Ni content, base 22.3%,

Nickel sulfate, in-whs Rotterdam,

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-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

Official price

Payment terms: Letter of credit

Publication: Weekly, Wednesdays 6-7pm

Singapore time

nd with the Notes: 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)

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 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-0004 Black mass, NCM/NCA, payable

indicator, nickel, domestic, exw Europe, % payable 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 truckload Location: ex works EU producer

Timing: 45 days

Unit: % payable of LME Nickel Cash

Official price

Payment terms: Letter of credit

Publication: Weekly, Wednesdays 4pm London

time

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%

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 Fastmarkets' lithium

carbonate 99.5% Li2CO3 min,

battery grade, spot prices, cif China,

Japan & Korea, \$ per kg

Payment terms: Letter of credit

Publication: Weekly, Wednesdays 6-7pm

Singapore time

Notes: Material must be dried and

free-flowing

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%.

Quantity: min one truckload Location: ex works EU producer

Timing: 45 days

Unit: % payable of Fastmarkets' standard-

grade cobalt price (low-end)

Payment terms: Letter of credit

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)

Quality: High-cobalt black mass composed

with metal content of 20-30% cobalt, 3-5% lithium, max 2% aluminium, max 2% copper. min one container load

Quantity: min one container loc Location: ex works EU producer

Timing: 45 days

Unit: % payable of Fastmarkets' standard-

grade cobalt price (low-end)

Payment terms: Letter of credit

Publication: Weekly, Wednesdays 4pm London

time

MB-BMS-0007 Black mass, NCM/NCA, payable

indicator, nickel, cif Southeast Asia, % payable 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, Southeast Asia.

Timing: 45 days

Unit: % payable of LME Nickel Cash

Official price

Payment terms: Letter of credit

Publication: Weekly, Wednesdays 6-7pm

Singapore time

Notes: Material must be dried and

free-flowing

MB-BMS-0008 Black mass, NCM/NCA, payable

indicator, cobalt, cif Southeast Asia, % 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%.

Quantity: min one container load

Location: Cost insurance and freight (CIF) main

ports, Southeast Asia.

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-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%.

Quantity: min one container load

Location: Cost insurance and freight (CIF) main

ports, Southeast Asia.

Timing: 45 days

Unit: % payable of Fastmarkets' lithium

carbonate 99.5% Li2CO3 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-0010 Black mass, LCO, payable

indicator, cobalt, cif South Korea, % 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.

Quantity: min one container load

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% Li2CO3 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-0012 Black mass, NCM/NCA, inferred, cif South Korea, \$/tonne

Publication: Daily. Monday to Friday, 4:30pm

London time

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% Li2CO3 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.



MB-BMS-0013 Black mass, NCM/NCA, inferred, exw Europe, \$/tonne

Publication: Daily. Monday to Friday, 4:30pm

London time

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

MB-MBS-0015 Black mass, NCM/NCA, payable

indicator, cobalt, domestic, exw USA, % payable Fastmarkets' standard-grade cobalt price

(low-end)

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

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

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-MBS-0014 Black mass, NCM/NCA, payable

indicator, nickel, domestic, exw USA, % payable LME Nickel cash

black mass methodology (10%).

official price

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

Quantity: min 1 tonne

Location: Ex-works United States

Timing: 45 days

Unit: % payable of LME nickel cash price
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

Copper scrap

CHINA

Notes:

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 Ib

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

these particles should not exceed 0.1% of the total content, as defined by China's State Administration for

not exceed 2mm in diameter, and

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

MB-AL-0397 Aluminium scrap, old sheet

(Taint/Tabor), HRB, 3-5%

Quality: 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

-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

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%

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

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-0399 Aluminium scrap, old sheet

(Taint/Tabor), cut sheared, 5-8% attachments, 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%.

CIF Nhava Sheva and Mundra ports, Location:

India

US dollar/tonne Unit:

Quantity: Minimum 30 tonnes

Payment: Cash

Publication: Weekly, Wednesdays at 4pm UK time MB-AL-0401 Aluminium scrap, extrusions

(Tata), 6063 cif India, \$/tonne

Shall consist of one alloy (typically Quality:

> 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

US dollar/tonne Unit: Quantity: Minimum 30 tonnes

Payment: Cash

Publication: Weekly, Wednesdays at 4pm UK time

ISRI code:

Notes: Price is based on US-origin

95/5-grade extrusions material.

UNITED KINGDOM

MB-AL-0400 Aluminium scrap, cast wheels (Troma), CIF India, \$/tonne

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

Unit: US dollar/tonne Quantity: Minimum 15 tonnes

Payment: Cash

Publication: Weekly, Wednesdays at 4pm UK time

ISRI code: Troma 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

Delivered consumer works, UK Location:

Within 4 weeks Timing: Unit: GBP/tonne

Payment terms: Net monthly account

Publication: Weekly. Wednesday 3-4pm London

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

Cast aluminium wheels

Quality: Quantity: Min 5 tonnes

Delivered consumer works, UK Location:

Within 4 weeks Timing: GBP/tonne Unit:

Payment terms: Net monthly account

Publication: Weekly. Wednesday 3-4pm London

time



MB-AL-0009	Aluminium scrap clean HE9 extrusions, delivered consumer UK, £/tonne	MB-AL-0012	Aluminium scrap commercial turnings, 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%	Quality:	Clean, uncorroded aluminium borings, millings and turnings of two or more specified alloys. Zn 2% max, Fe fines 3% max, oil/moisture/free
Quantity: Location:	Min 5 tonnes Delivered consumer works, UK	Ougatitus	iron 10% max 5 tonnes
Timing:	Within 4 weeks	Quantity: Location:	Delivered consumer works, UK
Unit:	GBP/tonne	Timing:	Within 4 weeks
Payment terms:	Net monthly account	Unit:	GBP/tonne
Publication:	Weekly. Wednesday 3-4pm London	Payment terms:	Net monthly account
	time	Publication:	Weekly. Wednesday 3-4pm London time
MB-AL-0010	Aluminium scrap commercial		
	cast, delivered consumer UK, £/tonne	MB-AL-0015	Aluminium scrap group 7 turnings, delivered consumer UK, £/tonne
Quality:	Whole or broken aluminium castings of all kinds	Quality:	Clean, uncorroded aluminium borings, millings and turnings of two
Quantity:	Min 5 tonnes		or more specified alloys. Zn 7.5%
Location:	Delivered consumer works, UK		max, Fe fines 3% max, oil/moisture/
Timing:	Within 4 weeks		free iron 10% max
Unit:	GBP/tonne	Quantity:	Min 5 tonnes
Payment terms: Publication:	Net monthly account	Location:	Delivered consumer works, UK Within 4 weeks
rublication:	Weekly. Wednesday 3-4pm London time	Timing: Unit:	GBP/Tonne
	CITIC	Payment terms:	Net monthly account
		Publication:	Weekly. Wednesday 3-4pm London
MB-AL-0011	Aluminium scrap commercial pure		time
	cuttings, delivered consumer UK,		
	£/tonne		
Quality:	New, uncoated, mixed alloys, pure	MB-AL-0014	Aluminium scrap group 1 pure 99%
	sheet scrap. May contain proportion		& litho, delivered consumer UK,
	of one of more aluminium alloys,		£/tonne
	none of which shall contain more	Quality:	New, uncoated, unalloyed aluminium
	than 0.1% Cu and 0.1% each of Pb, Zn, Sn, antimony, bismuth. Mg 0.5%		sheet, wire and cable scrap, not burnt or corroded, baled. Al content
	max. No 2000 or 7000 series metal		minimum 99.9% (oil, grease, non-
Quantity:	Min 5 tonnes		metallic coatings max 1%)
Location:	Delivered consumer works, UK	Quantity:	5 tonnes
Timing:	Within 4 weeks	Location:	Delivered consumer works, UK
Unit:	GBP/tonne	Timing:	Within 4 weeks
Payment terms:	Net monthly account	Unit:	GBP/tonne
Publication:	Weekly. Wednesday 3-4pm London	Payment terms:	Net monthly account
	time	Publication:	Weekly. Wednesday 3-4pm London time



MB-AL-0018 Aluminium scrap loose old rolled cuttings, delivered consumer UK,

£/tonne

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

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

Payment terms: 30 days, other payment terms

normalized

Publication: Weekly. Friday 3-4pm London time

EUROPE

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. Nonmetallics 2% max (of which rubber &

plastics 1% max)

Quantity: Min 25 tonnes

Location: Delivered consumer works, Europe

Timing: Within 4 weeks
Unit: EUR/tonne

Payment 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% Min 25 tonnes

Location: Delivered consumer works, Europe

Timing: Within 4 weeks
Unit: EUR/tonne

Quantity:

Payment 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

Ingot. Cu 2-4%, Mg 0.15-0.55%, Si Quality:

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: FUR/tonne

30 days, other payment terms 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

30 days, other payment terms 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

Delivered consumer works in Europe, Location:

most consumers in Northern Europe,

in particular Germany

Within 2 months Timing: 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

Delivered consumer works, UK Location:

Within 2 months Timing: GBP/tonne Unit:

Payment terms: Net monthly account

Publication: Weekly. Wednesday 3-4pm London

MB-AL-0017 Aluminium scrap LM6/LM25

gravity diecasting ingot, delivered

consumer UK, £/tonne

LM6 - Cu 0.1%, Mg 0.1% max, Si 10-Quality:

> 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

Min 5 tonnes

Quantity: Delivered consumer works, UK Location:

Within 2 months Timing: GBP/tonne Unit:

Payment terms: Net monthly account

Publication: Weekly. Wednesday 3-4pm London



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



Contacts

Perrine Faye
Editorial Director
perrine.faye@fastmarkets.com

Risk & Compliance Team
T: +44 20 7827 5264 or
T: +44 20 7779 8519
riskandcompliance@fastmarkets.com

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