

Industrial Minerals



Methodology and price
specifications – April 2024

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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, mineral or forest product of interest, with a good representation of both

sides of the market, including producers and consumers, as well as traders and intermediaries.

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

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

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

Price specifications and reference units

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

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

Data analysis and producing the price assessment

Establishing a data hierarchy

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

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

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

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

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

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

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

Normalization

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

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

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

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

Minimum data threshold

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

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

Criteria for discarding pricing data and the removal of outliers

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

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

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.

Alumina

Fused alumina

CHINA

MB-ALU-0006 Alumina, fused brown, min 95% Al₂O₃, refractory sized (0-6mm), fob China, \$/tonne

Quality: Min 95% Al₂O₃. Crushed, sized between 0-1mm, 1-3mm, 3-5mm, generally in one-tonne big bag
 Quantity: Min 20 tonnes
 Location: fob China
 Publication: Monthly, last Thursday by 4pm, London time

MB-ALU-0008 Alumina, fused brown, min 95% Al₂O₃, FEPA F8-220 grit, fob China, \$/tonne

Quality: Min 95% Al₂O₃. Crushed, FEPA size
 Quantity: Min 20 tonnes
 Location: fob China
 Publication: Monthly, last Thursday by 4pm, London time

MB-ALU-0009 Alumina, fused white, 25kg bags, cif Europe, €/tonne

Quality: Min 95% Al₂O₃, 0.4% NA₂O. Crushed, sized between 0-1mm, 1-3mm, 3-5mm, in 25kg bag
 Quantity: Min 20 tonnes
 Location: cif Europe
 Publication: Monthly, last Thursday by 4pm, London time

Calcined alumina

US/EUROPE

MB-ALU-0013 Alumina, calcined, ground, 98.5-99.5% Al₂O₃, bulk, exw US/Europe, long-term contract, \$/tonne

Quality: 98.5-99.5% Al₂O₃
 Quantity: Min 20 tonnes
 Location: exw US/Europe
 Payment terms: Long-term contract
 Publication: Quarterly. First Thursday of the quarter, by 4pm London

MB-ALU-0012 Alumina, calcined, ground and unground, min 99.5% Al₂O₃, medium-soda min 0.25% soda, bulk, exw US/Europe, long-term contract, \$/tonne

Quality: Min 99.5% Al₂O₃ medium-soda, min 0.25% soda. Powder.
 Quantity: Min 20 tonnes
 Location: exw US/Europe
 Payment terms: Long-term contract
 Publication: Quarterly. First Thursday of the quarter, by 4pm London

MB-ALU-0011 Alumina, calcined, unground 98.5-99.5% Al₂O₃, bulk, exw US/Europe, long-term contract, \$/tonne

Quality: 98.5-99.5% Al₂O₃. Powder.
 Quantity: Min 20 tonnes
 Location: exw US/Europe
 Payment terms: Long-term contract
 Publication: Quarterly. First Thursday of the quarter, by 4pm London

Andalusite

EUROPE

MB-AND-0002	Andalusite, min. 57% Al₂O₃, cif Europe, €/tonne
Quality:	0-4mm, min. 57% Al ₂ O ₃ , packed in bulk, 1 tonne big bags or 25kg bags
Quantity:	Min 1,000 tonnes
Location:	cif Europe
Unit:	€ per tonne
Publication:	Quarterly, last Thursday of the months of February, May, August and November, 4pm London time
Notes	Micronized grades are not included in this assessment; the low end of the assessed price range is for 1,000-tonne lot sizes; the top end of the price range is for high tonnages

Antimony trioxide

CHINA

MB-SB-0006	Antimony trioxide 99.5% Sb₂O₃ min, fob China, \$/tonne
Quality	Min 99.5%, white crystalline powder
Quantity:	Min 20 tonnes
Location:	fob China
Timing:	60 days
Unit:	\$ per tonne
Publication:	Weekly, Wednesday 3-4pm

EUROPE

MB-SB-0004	Antimony trioxide 99.5% Sb₂O₃ min, cif Antwerp/Rotterdam, \$/tonne
Quality	Min 99.5%, white crystalline powder
Quantity:	Min 20 tonnes
Location:	cif Antwerp/Rotterdam (other European ports net back)
Timing:	60 days
Unit:	\$ per tonne
Publication:	Weekly, Wednesday 3-4pm

EUROPE

MB-SB-0009	Antimony trioxide 99.5% Sb₂O₃ min, in-whs Antwerp/Rotterdam, €/kg
Quality	Min 99.5%, white crystalline powder
Quantity:	Min 5 tonnes
Location:	In-warehouse Antwerp/Rotterdam (other European warehouses net back)
Timing:	30 days
Unit:	€ per kg
Publication:	Weekly, Wednesday 3-4pm

NORTH AMERICA

MB-SB-0010	Antimony trioxide 99.5% Sb₂O₃ min, in-whs Baltimore, \$/lb
Quality	Min 99.5%, white crystalline powder
Quantity:	Min 5 tonnes
Location:	In-warehouse Baltimore (other US warehouses net back)
Timing:	30 days
Unit:	\$ per lb
Publication:	Weekly, Wednesday 3-4pm

Barite

MIDDLE EAST
MB-BAR-0004 Barite, API, 1.5t big bags, ground, fob Southern Turkey, \$/tonne

Quality: API grade, 4.2 SG, ground, 1.5-tonne big bags
 Quantity: Min 20 tonnes
 Location: fob Southern Turkey
 Timing: Spot
 Unit: \$/tonne
 Payment terms: Within 30 days
 Publication: Last Thursday of every month

INDIA
MB-BAR-0006 Barite, API, SG 4.2, unground lump, bulk, fob Chennai, \$/tonne

Quality: API grade, 4.2 SG, unground lump
 Quantity: Min 1,000 tonnes
 Location: fob Chennai, India
 Timing: Spot
 Unit: \$/tonne
 Payment terms: Within 30 days
 Publication: Last Thursday of every month

MB-BAR-0020 Barite, drilling grade unground lump, API, bulk, SG 4.10, fob Chennai, \$ per tonne

Quality: API grade, SG 4.10 unground lump
 Quantity: 1,000 tonnes minimum
 Location: fob Chennai, India
 Timing: Spot
 Unit: \$ per tonne
 Payment terms: within 30 days
 Publication: Monthly, last Thursday of every month, 4pm London time

CHINA
MB-BAR-0007 Barite, API, SG 4.2, unground lump, bulk, fob China, \$/tonne

Quality: API grade, 4.2 SG, unground lump
 Quantity: Min 1,000 tonnes
 Location: fob China
 Timing: Spot
 Unit: \$/tonne
 Payment terms: Within 30 days
 Publication: Last Thursday of every month

MB-BAR-0018 Barite, drilling grade, unground lump, API, bulk, SG 4.10, fob China, \$ per tonne

Quality: API grade, SG 4.10 unground lump
 Quantity: 1,000 tonnes minimum
 Location: fob China
 Timing: Spot
 Unit: \$ per tonne
 Payment terms: within 30 days
 Publication: Monthly, last Thursday of every month, 4pm London time

NORTH AFRICA
MB-BAR-0014 Barite, API, SG 4.2, unground lump, bulk, fob Morocco, \$/tonne

Quality: API grade, 4.2 SG, unground lump
 Quantity: Min 1,000 tonnes
 Location: fob Morocco
 Timing: Spot
 Unit: \$/tonne
 Payment terms: Within 30 days
 Publication: Last Thursday of every month

MB-BAR-0019 Barite, drilling grade unground lump, API, bulk, SG 4.10, fob Morocco, \$ per tonne

Quality: API grade, SG 4.10 unground lump
 Quantity: 1,000 tonnes minimum
 Location: fob Morocco
 Timing: Spot
 Unit: \$ per tonne
 Payment terms: within 30 days
 Publication: Monthly, last Thursday of every month, 4pm London time

Refractory-grade bauxite

CHINA

MB-BX-0010 **Bauxite, refractory-grade, 85%/2.0/3.15-3.2 (0-6mm), fob Xingang, \$/tonne**

Quality: Min 85% Al₂O₃, 2.0% iron, 3.15-3.2 bulk density. Crushed, sized between 0-1mm, 1-3mm, 3-5mm

Quantity: Min 20 tonnes

Location: fob Xingang

Timing: Spot contract

Unit: USD/tonne

Publication: Monthly, last Thursday by 4pm, London time

Notes: Normally in 1-tonne big bag

MB-BX-0011 **Bauxite, refractory-grade, 86%/2.0/3.15-3.2 (0-6mm), fob Xingang, \$/tonne**

Quality: Min 86% Al₂O₃, 2.0% iron, 3.15-3.2 bulk density. Crushed, sized between 0-1mm, 1-3mm, 3-5mm

Quantity: Min 20 tonnes

Location: fob Xingang

Timing: Spot contract

Unit: USD/tonne

Publication: Monthly, last Thursday by 4pm, London time

MB-BX-0012 **Bauxite, refractory-grade, 87%/2.0/3.15-3.2 (0-6mm), fob Xingang, \$/tonne**

Quality: Min 87% Al₂O₃, 2.0% iron, 3.15-3.2 bulk density. Crushed, sized between 0-1mm, 1-3mm, 3-5mm

Quantity: Min 20 tonnes

Location: fob Xingang

Timing: Spot contract

Unit: USD/tonne

Publication: Monthly, last Thursday by 4pm, London time

MB-BX-0013 **Bauxite, refractory-grade, 88%/2.0/3.15-3.2 (0-6mm), fob Xingang, \$/tonne**

Quality: Min 87% Al₂O₃, 2.0% iron, 3.15-3.2 bulk density. Crushed, sized between 0-1mm, 1-3mm, 3-5mm

Quantity: Min 20 tonnes

Timing: Spot contract

Location: fob Xingang

Unit: USD/tonne

Publication: Monthly, last Thursday by 4pm, London time

Notes: Normally in 1-tonne big bag

Chromite

SOUTH AFRICA

MB-CHR-0004 **Chromite, chemical, 46% Cr₂O₃ min, wet bulk, fob South Africa, \$/tonne**

Quality: Sand, wet bulk; min. 46% Cr₂O₃; max 1% SiO₂

Quantity: Min 1,000 tonnes

Location: fob South Africa

Unit: US\$ per tonne

Publication: Fortnightly, Tuesday, 4pm London time

MB-CHR-0005 **Chromite, foundry, 46% Cr₂O₃ min, wet bulk, fob South Africa, \$/tonne**

Quality: Sand, wet bulk; min 46% Cr₂O₃; max 1% SiO₂; AFS 45-53, turbidity max 250 NTU

Quantity: Min 1,000 tonnes

Location: fob South Africa

Unit: US\$ per tonne

Publication: Fortnightly, Tuesday, 4pm London time

MB-CHR-0009 **Chromite, foundry, 46% Cr₂O₃ min, dried and bagged, fob South Africa, \$/tonne**

Quality: Sand, dried, in bags; min 46% Cr₂O₃; max 1% SiO₂; AFS 45-53, turbidity max 250 NTU

Quantity: Min 100 tonnes

Location: fob South Africa

Unit: US\$ per tonne

Publication: Fortnightly, Tuesday, 4pm London time

Acid-grade fluorspar

CHINA

MB-FLU-0003 Fluorspar, acidspar, 97% CaF₂, wet filtercake, fob China, \$/tonne

Quality: 97% CaF₂ wet filtercake. Powder
 Quantity: Min 2,000 tonnes
 Location: fob China
 Unit: USD per tonne
 Publication: Weekly, Thursday by 4pm London

EUROPE

MB-FLU-0001 Fluorspar, acidspar, 97% CaF₂, wet filtercake, cif Rotterdam, \$/tonne

Quality: 97% CaF₂ wet filtercake. Powder
 Location: cif Netherlands
 Unit: USD per tonne
 Publication: Monthly, final Thursday of the month by 4pm London time

NORTH AMERICA

MB-FLU-0004 Fluorspar, acidspar, 97% CaF₂, wet filtercake, fob Tampico, \$/tonne

Quality: 97% CaF₂ wet filtercake. Powder
 Location: fob Mexico
 Unit: USD per tonne
 Publication: Monthly, final Thursday of the month by 4pm London time

AFRICA

MB-FLU-0005 Fluorspar, acidspar, 97% CaF₂, wet filtercake, fob Durban, \$/tonne

Quality: 97% CaF₂ wet filtercake. Powder
 Location: fob South Africa
 Unit: USD per tonne
 Form: Powder
 Publication: Monthly, final Thursday of each month, by 4pm London time

Metallurgical-grade fluorspar

CHINA

MB-FLU-0016 Fluorspar, metspar, min 90% CaF₂, fob China, \$/tonne

Quality: Min 90% CaF₂
 Min lot size: 2,000 tonnes
 Location: fob China
 Unit: USD per tonne
 Publication: Weekly, Thursday by 4pm London

MB-FLU-0015 Fluorspar, metspar, min 85% CaF₂, fob China, \$/tonne

Quality: Min 85% CaF₂
 Min lot size: Min 2,000 tonnes
 Location: fob China
 Unit: USD per tonne
 Publication: Weekly, Thursday by 4pm London

NORTH AMERICA

MB-FLU-0017 Fluorspar, metspar, min 85% CaF₂, fob Tampico, \$/tonne

Quality: Min 85% CaF₂
 Location: fob Mexico
 Unit: USD per tonne
 Form: Powder
 Publication: Monthly, final Thursday of each month, by 4pm London time

Natural graphite

Graphite spherical

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: US\$ per tonne
 Publication: Weekly, Thursday by 4pm London

Graphite flake

EUROPE

MB-GRA-0037 Graphite flake 94% C, +100 mesh, cif Europe, \$/tonne

Quality: Flake 94% C, +100 Mesh
 Quantity: Min 20 tonnes
 Location: cif Europe, full container load (FCL)
 Unit: US\$ per tonne
 Publication: Weekly, Thursday by 4pm, London

MB-GRA-0038 Graphite flake 94% C, +80 mesh, cif Europe, \$/tonne

Quality: Flake 94% C, +80 Mesh
 Quantity: Min 20 tonnes
 Location: cif Europe, FCL
 Unit: US\$ per tonne
 Publication: Weekly, Thursday by 4pm, London

MB-GRA-0039 Graphite flake 94% C, -100 mesh, cif Europe, \$/tonne

Quality: Flake 94% C, -100 Mesh
 Quantity: Min 20 tonnes
 Location: cif Europe, FCL
 Unit: US\$ per tonne
 Publication: Weekly, Thursday by 4pm, London

CHINA

MB-GRA-0040 Graphite flake 94% C, +100 mesh, fob China, \$/tonne

Quality: Flake 94% C, +100 Mesh, -80 Mesh
 Quantity: Min 20 tonnes
 Location: fob Qingdao, FCL
 Unit: US\$ per tonne
 Publication: Weekly, Thursday by 4pm, London

MB-GRA-0041 Graphite flake 94% C, +80 mesh, fob China, \$/tonne

Quality: Flake 94% C, +80 Mesh
 Quantity: Min 20 tonnes
 Location: fob China, FCL
 Unit: US\$ per 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 20 tonnes
 Location: fob China, FCL
 Unit: US\$ per tonne
 Publication: Weekly, Thursday by 4pm, London

Amorphous graphite

EUROPE

MB-GRA-0016 **Graphite amorphous 80% C, -200 mesh, FCL, cif Europe, \$/tonne**

Quality: 80% C, -200 Mesh
 Quantity: Min 20 tonnes
 Location: cif Europe, FCL
 Unit: US\$ per tonne
 Publication: Monthly, Thursday by 4pm, London

CHINA

MB-GRA-0035 **Graphite amorphous 80% C, -200 mesh, fob China, \$/tonne**

Quality: 80% C, -200 Mesh
 Quantity: Min 20 tonnes
 Location: fob China
 Unit: US\$ per tonne
 Publication: Monthly, Thursday by 4pm, London

Synthetic graphite Graphite electrode

CHINA

MB-GRA-0043 **Graphite electrodes, high power, fob China, \$ per tonne**

Quality: 350-450mm diameter
 Quantity: Minimum 20 tonnes
 Location: fob China
 Timing: Spot
 Publication: Every two weeks, Wednesdays, by 4pm London.

MB-GRA-0044 **Graphite electrodes, ultra high power, fob China, \$ per tonne**

Quality: 450-650mm diameter
 Quantity: Minimum 20 tonnes
 Location: fob China
 Timing: Spot
 Publication: Every two weeks, Wednesdays, by 4pm London.

Graphite anode feedstock

CHINA

MB-GRA-0046 **Petroleum needle coke 0.5% S, exw China, yuan/tonne**

Quality: Sulfur: 0.5% max, volatile matter: 5-8%, moisture: 5% max, ash: 0.2% max, nitrogen: 0.7% max, pre-calcinated
 Quantity: Minimum 35 tonnes
 Location: Ex-works China
 Timing: Spot
 Unit: CNY/tonne
 Publication: Weekly, Wednesdays by 4pm London time

MB-GRA-0047 **Green petroleum coke 0.5% S, exw China, yuan/tonne**

Quality: Sulfur: 0.5% max, volatile matter: 12% max, moisture: 3% max, ash 0.5% max, vanadium: 100µg/g max, pre-calcinated
 Quantity: Minimum 35 tonnes
 Location: Ex-works China
 Timing: Spot
 Unit: CNY/tonne
 Publication: Weekly, Wednesdays by 4pm London time

Iodine

GLOBAL

MB-I-0003 Iodine 99.5% min, contract, delivered US/Europe, cif Asia, \$/kg

Quality:	Min 99.5% prill and crystal (other iodine forms reaching min 99.5% will also be accepted)
Quantity:	Min 5 tonnes
Location:	Delivered US/Europe, cif Asia
Timing:	Yearly (quarterly, biannual and yearly contracts will be included)
Unit:	USD/kg
Publication:	Monthly, last Thursday of every month between 3pm and 4pm London time

MB-I-0002 Iodine 99.5% min, spot, delivered US/Europe, cif Asia, \$/kg

Quality:	Min 99.5% prill and crystal (other iodine forms reaching min 99.5% will also be accepted)
Quantity:	Min 5 tonnes
Location:	Delivered US/Europe, cif Asia
Unit:	USD/kg
Timing:	60 days, spot
Publication:	Weekly, Thursday between 3pm and 4pm London time

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

Calcined magnesia

CHINA

MB-MAG-0006 Magnesia, calcined, 94% MgO lump, fob China, \$/tonne

Quality:	Calcined 94% MgO lump, bulk
Quantity:	Min 1,000 tonnes
Location:	fob China
Timing:	Spot
Unit:	\$/tonne
Publication:	Weekly. Tuesday, 4pm London time

MB-MAG-0011 Magnesia, calcined, 96% MgO lump, fob China, \$/tonne

Quality:	Calcined 96% MgO lump, bulk
Quantity:	Min 1,000 tonnes
Location:	fob China
Timing:	Spot
Unit:	\$/tonne
Publication:	Weekly. Tuesday, 4pm London time

MB-MAG-0004 Magnesia, calcined, 90-92% MgO, fob China, \$/tonne

Quality:	Calcined 90-92% MgO
Quantity:	minimum 1,000 tonnes
Location:	fob China
Timing:	Spot
Unit:	\$/tonne
Publication:	Weekly. Tuesday, 4pm London time

EUROPE

MB-MAG-0012 Magnesia, European calcined, agricultural, cif Europe, €/tonne

Quality:	Calcined, agricultural, bulk
Quantity:	Min 1,000 tonnes
Location:	cif Europe
Timing:	Spot
Unit:	€/tonne
Publication:	third Tuesday of the month, 4pm London time

Dead burned magnesia

CHINA

MB-MAG-0003 **Magnesia, dead burned, 92% MgO, lump, fob China, \$/tonne**

Quality: Dead burned 92% MgO lump, bulk
 Quantity: Min 1,000 tonnes
 Location: fob China
 Timing: Spot
 Unit: \$/tonne
 Publication: Weekly. Tuesday, 4pm London time

MB-MAG-0005 **Magnesia, dead burned, 97.5% MgO, lump, fob China, \$/tonne**

Quality: Dead burned 97.5% MgO lump, bulk
 Quantity: Min 1,000 tonnes
 Location: fob China
 Timing: Spot
 Unit: \$/tonne
 Publication: Weekly. Tuesday, 4pm London time

MB-MAG-0002 **Magnesia, dead burned, 90% MgO, lump, fob China, \$/tonne**

Quality: Dead burned 90% MgO lump, bulk
 Quantity: Min 1,000 tonnes
 Location: fob China
 Timing: Spot
 Unit: \$/tonne
 Publication: Weekly. Tuesday, 4pm London time

MB-MAG-0001 **Magnesia, dead burned, 94-95% MgO, lump, fob China, \$/tonne**

Quality: Dead-burned 94-95% MgO lump, bulk
 Quantity: Minimum 1,000 tonnes
 Location: fob China
 Timing: Spot
 Unit: \$/tonne
 Publication: Weekly. Tuesday, 4pm London time

EUROPE

MB-MAG-0018 **Magnesia, dead burned, 95% MgO, fob Europe, \$/tonne**

Quality: Dead burned 95% MgO, bulk
 Quantity: Min 1,000 tonnes
 Location: fob Europe
 Timing: Spot
 Unit: \$/tonne
 Payment terms: Within 30 days
 Publication: Third Tuesday of the month, 4pm London time

Fused magnesia

CHINA

MB-MAG-0010 **Magnesia, fused, 96% MgO lump, fob China, \$/tonne**

Quality: Fused 96% MgO lump, bulk
 Quantity: Min 1,000 tonnes
 Location: fob China
 Timing: Spot
 Unit: \$/tonne
 Publication: Weekly. Tuesday, 4pm London time

MB-MAG-0008 **Magnesia, fused, 97% MgO, Ca:Si 1:1, lump, fob China, \$/tonne**

Quality: Fused 97% MgO, 1:1 Ca:Si, bulk
 Quantity: Min 1,000 tonnes
 Location: fob China
 Timing: Spot
 Unit: \$/tonne
 Publication: Weekly. Tuesday, 4pm London time

MB-MAG-0009 **Magnesia, fused, 97% MgO, Ca:Si 2:1, lump, fob China, \$/tonne**

Quality: Fused 97% MgO, 2:1 Ca:Si, bulk
 Quantity: Min 1,000 tonnes
 Location: fob China
 Timing: Spot
 Unit: \$/tonne
 Publication: Weekly. Tuesday, 4pm London time

MB-MAG-0007 Magnesia, fused, 98% MgO, lump, fob China, \$/tonne

Quality: Fused 98% MgO lump, bulk
 Quantity: minimum 1,000 tonnes
 Location: fob China
 Timing: spot
 Unit: \$/tonne
 Publication: Weekly. Tuesday, 4pm London time

EUROPE
MB-MAG-0019 Magnesia, fused, 97% MgO, cif Europe, \$/tonne

Quality: Fused 97% MgO, bulk
 Quantity: Min 1,000 tonnes
 Location: cif Europe
 Timing: Spot
 Unit: \$/tonne
 Publication: Third Tuesday of the month, 4pm London time

Magnesite

EUROPE
MB-MAG-0013 Magnesite, Greek, raw, max 3.5% SiO₂, fob East Mediterranean, €/tonne

Quality: Magnesite, max 3.5% SiO₂, bulk
 Quantity: Min 1,000 tonnes
 Location: fob East Mediterranean
 Timing: Spot
 Unit: \$/tonne
 Payment terms: Within 30 days
 Publication: Third Tuesday of the month, 4pm London time

Mineral sands

CHINA
MB-ZIR-0014 Zircon premium grade min 66.5% ZrO₂ min, bulk, cif China, \$/tonne

Quality: Premium grade, 66.5% ZrO₂ min
 Quantity: Min 1,000 tonnes
 Location: cif China
 Timing: Spot
 Unit: \$/tonne
 Payment terms: Within 30 days
 Publication: Monthly, first Thursday of the month, 4pm London Time

MB-ZIR-0015 Zircon standard grade min 65.5% ZrO₂ min, bulk, cif China, \$/tonne

Quality: Standard grade min 65.5% ZrO₂
 Quantity: Min 1,000 tonnes
 Location: cif China
 Timing: Spot
 Unit: \$/tonne
 Payment terms: Within 30 days
 Publication: Monthly, first Thursday of the month, 4pm London Time

MB-RUT-0003 Rutile 95% TiO₂ min, bulk, cif China \$/tonne

Quality: 95% TiO₂ min, bulk
 Quantity: Min 1,000 tonnes
 Location: cif China
 Timing: Spot
 Unit: \$/tonne
 Payment terms: Within 30 days
 Publication: Fortnightly, Thursday, 4pm London time

MB-ILM-0004 Ilmenite concentrate, 47-49% TiO₂, cif China, \$/tonne

Quality: 47-49% TiO₂
 Quantity: Min 1,000 tonnes
 Location: cif China
 Timing: Spot
 Unit: \$/tonne
 Payment terms: Within 30 days
 Publication: Fortnightly, Thursday, 4pm London time

AUSTRALIA

MB-RUT-0001 Rutile 95% TiO₂ min, large volumes for pigment, fob Australia, \$/tonne

Quality: 95% TiO₂, for pigment
 Quantity: Min 1,000 tonnes
 Location: fob Australia
 Timing: Spot
 Unit: \$/tonne
 Payment terms: Within 30 days
 Publication: Fortnightly, Thursday, 4pm London time

MB-RUT-0002 Rutile 95% TiO₂ min, bagged, fob Australia, \$/tonne

Quality: 95% TiO₂, bagged
 Quantity: Min 1,000 tonnes
 Location: fob Australia
 Timing: Spot
 Unit: \$/tonne
 Payment terms: within 30 days
 Publication: Monthly, first Thursday of the month, 4pm London Time

SPAIN

MB-ZIR-0022 MB-ZIR-0022 Zircon premium grade min 66.5% ZrO₂, cif Spain

Quality: Premium grade, 66.5% ZrO₂ min
 Quantity: Min 1,000 tonnes
 Location: cif Spain
 Timing: Spot
 Unit: \$/tonne
 Payment terms: Within 30 days
 Publication: Weekly. Thursday 4pm London time

Silicon Carbide
EUROPE

MB-SIC-0008 Silicon carbide, FEPA 8-220 black about 99% SiC acid wash, ddp Europe, €/tonne

Quality: FEPA 8-220 Black, min 99% acid wash
 Quantity: Minimum 20 tonnes
 Location: Delivered Duty Paid Europe
 Timing: Contract delivered within a year
 Unit: €/tonne
 Publication: Monthly, last Tuesday of month between 3pm and 4pm London time

MB-SIC-0009 Silicon carbide, FEPA 8-220 black about 99% SiC water wash, ddp Europe €/tonne

Quality: FEPA 8-220 Black, 99% Water Wash
 Quantity: Minimum 20 tonnes
 Location: Delivered Duty Paid Europe
 Timing: Contract delivered within a year
 Unit: €/tonne
 Publication: Monthly, last Tuesday of month between 3pm and 4pm London time

MB-SIC-0010 Silicon carbide, green, over 99.5% SiC, FEPA 8-220, ddp Europe, €/tonne

Quality: FEPA 8-220 Green, min 99.5%
 Quantity: Minimum 20 tonnes
 Location: Delivered Duty Paid Europe
 Timing: Contract delivered within a year
 Unit: €/tonne
 Publication: Monthly, last Tuesday of month between 3pm and 4pm London time

MB-SIC-0011 Silicon carbide, refractory grade 95% SiC min, ddp Europe, €/tonne

Quality: Min 95%
 Quantity: Min 20 tonnes
 Location: Delivered Duty Paid Europe
 Timing: Contract delivered within a year
 Unit: €/tonne
 Publication: Monthly, last Tuesday of month between 3pm and 4pm London time

MB-SIC-0012 **Silicon carbide, refractory grade 98% SiC min, ddp Europe, €/tonne**

Quality: Min 98%

Quantity: Min 20 tonnes

Location: Delivered Duty Paid Europe

Timing: Contract delivered within a year

Unit: €/tonne

Publication: Monthly, last Tuesday of month between 3pm and 4pm London time

MB-SOA-0012 **Soda ash, natural and synthetic, dense and light, cif Southeast Asia, \$ per tonne**

Quality: White salt, Na₂CO₃

Quantity: Minimum 35,000 tonnes

Location: cif Southeast Asia main port (Thailand, Malaysia, Indonesia, Vietnam, Philippines)

Timing: Spot sales, plus monthly, quarterly, biannual, yearly and multi-year contracts

Unit: US\$/tonnes

Publication: Monthly, last Thursday of every month, 4pm London time

Soda Ash

EUROPE

MB-SOA-0002 **Soda ash, natural and synthetic, dense and light, small contracts, delivered Europe, €/tonne**

Quality: White salt, Na₂CO₃

Quantity: Less than 10,000 tonnes

Location: dap Europe

Timing: Monthly, quarterly, biannual, yearly and multi-year contracts will be included

Unit: EU€/tonne

Payment terms: N/A

Publication: Monthly, last Thursday of every month by 4pm UK time

MB-SOA-0006 **Soda ash, natural and synthetic, dense and light, large contracts, delivered Europe, €/tonne**

Quality: White salt, Na₂CO₃

Quantity: Minimum 10,000 tonnes

Location: dap Europe

Timing: Monthly, quarterly, biannual, yearly and multi-year contracts will be included

Unit: EU€/tonne

Payment terms: N/A

Publication: Monthly, last Thursday of every month by 4pm UK time

CHINA

MB-SOA-0007 **Soda ash, synthetic, dense and light, fob China, \$/tonne**

Quality: White salt, Na₂CO₃

Quantity: No minimum

Location: fob China

Timing: Spot

Unit: \$/tonne

Payment terms: N/A

Publication: Weekly, every Thursday by 4pm UK time

Titanium dioxide

EUROPE

MB-TI-0010 **Titanium dioxide pigment, chloride grade, ddp Europe, € per tonne**

Quality:	Chloride grade
Quantity:	Min 20 tonnes
Location:	ddp Europe
Timing:	Spot
Unit:	€ per tonne
Payment terms:	30 days
Publication:	Monthly, second Thursday of the month, 4pm London time

UNITED STATES

MB-TI-0011 **Titanium dioxide pigment, chloride grade, ddp North America, \$ per tonne**

Quality:	Chloride grade
Quantity:	Min 20 tonnes
Location:	ddp North America
Timing:	Spot
Unit:	\$ per tonne
Payment terms:	30 days
Publication:	Monthly, second Thursday of the month, 4pm London time

CHINA

MB-TI-0009 **Titanium dioxide pigment, sulfate grade, fob China, \$ per tonne**

Quality:	Sulfate grade
Quantity:	Min 20 tonnes
Location:	fob China
Timing:	Spot
Unit:	\$ per tonne
Payment terms:	30 days
Publication:	Weekly. Thursday, 4pm London time

Contacts

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