

Methodology and price specifications - August 2021



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# Mission statement

Fastmarkets is a leading commodity price reporting agency (PRA) covering the metals, mining, minerals and forest products industries. Our products include Fastmarkets MB, Fastmarkets AMM, Fastmarkets IM, Fastmarkets RISI, Fastmarkets FOEX and Random Lengths. For more than 100 years we have been providing commodities price reporting services for use by market participants in their day-to-day commercial activities. These services include assessments and indices of commodity prices as well as news, research and commentary on the underlying markets.

Our mission is to meet the market's 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 MB is the leading global provider of pricing intelligence for the non-ferrous metal, steel, steelmaking raw materials, industrial minerals, ferrous and non-ferrous scrap markets, producing price assessments since 1913.

Fastmarkets MB 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 metals price reporting team. We have offices in London, New York, Pittsburgh, Shanghai, Hong Kong, Sao Paulo, Melbourne, Singapore, Mumbai, Dnepr, Istanbul and five other US locations.

The aim of this document is to provide a clear overview of Fastmarkets MB's methodology and specifications for the prices it assesses.

If you have any questions, please contact Fastmarkets Editorial Director Alex Harrison at aharrison@fastmarkets.com.



# Price discovery and methodology

### Methodology rationale

Fastmarkets MB produces independent, fair and representative price assessments and indices of non-ferrous prices on a daily, bi-weekly, weekly or monthly basis

Fastmarkets MB's rationale is to adopt and develop the price discovery process and methodology described in this guide to produce assessments that are a consistent and representative indicator of value of the market to which they relate for the trading period they cover.

During the price discovery process, the price reporter's goal is to discover at what representative level market participants have concluded business, made offers or received bids over a certain defined trading period – this is generally the period since the conclusion of the previous price quotation (if, for instance, the last price assessment published by Fastmarkets MB 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 MB between Friday afternoon and the following Friday morning).

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

### Data collection criteria

Fastmarkets MB reporters aim to talk to a broad sample of market participants specifically involved in the buying and selling of the non-ferrous product of interest, with a good representation of both sides of the market, including producers and consumers, as well as traders.

Data is collected from market participants directly involved in spot business primarily by telephone but also by email, digital messaging or by direct submission. All input data received is kept confidential and stored on a secure network.

Fastmarkets MB encourages organisations to submit all their pricing data, especially all the concluded transactions.

Depending on market liquidity, Fastmarkets MB reserves the right to also base its prices on bids, offers, deals heard and market participants' estimates or indications of prevailing values.

Fastmarkets MB welcomes organisations to submit transaction data from authorised back-office functions.

### Price specifications and reference units

Fastmarkets MB 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 recognised non-ferrous metals markets.

Fastmarkets MB's 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 matches these specifications.

# Guidelines that control the exercise of judgment by price reporters during the assessment process

To produce the price assessment, greater weighting is generally given to actual concluded transaction data; bids/offers are second in order of importance; followed by data sources' own estimate of the market when they have no business to report. But other considerations might also intervene such as, the trustworthiness of a data source based on past data submissions or their willingness to provide data on a consistent basis.

All Fastmarkets MB 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 will typically carry more weight than a smaller-volume transaction. But price reporters will also consider, for instance, normalizing or discarding a price reported for a deal with an abnormally large or small volume.

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.





# Calculation of averages Fastmarkets MB

Fastmarkets produces independent, fair and representative price assessments and indices for ferrous, non-ferrous and scrap metal prices on a daily, bi-weekly, weekly, bi-monthly or monthly basis. Fastmarkets calculates and publishes monthly averages based on these independent, proprietary assessments and indices by using simple averages.

The simple monthly averages are calculated by dividing the sum of the price quotations by the number of quotations published during the calendar month. For assessments, Fastmarkets derives both the monthly average high price and the Fastmarkets monthly average low price using this method. For indices, a single monthly average price point is calculated.

For example, there were five weekly price quotations for Chrome Ore South Africa UG2 concentrates index basis 42% cif China, \$ per tonne during the month of June 2018. Prices were published each Friday from June 1, 2018, with the assessments reading \$206 per tonne, \$208 per tonne, \$210 per tonne, \$211 per tonne and \$208 per tonne during the period. The simple monthly average is calculated by taking the sum of the five assessments and dividing that by the number of total assessments over the period - in this case, five. The simple monthly average for June 2018 was \$208.60 per tonne.

Most prices produced from the Americas prior to 2021 were calculated on a rolling-average basis. Rolling monthly averages were calculated by dividing the sum of the daily price quotations - including prices republished on non-assessment days - by the number of quotations published during the calendar month. Please contact pricing@fastmarkets.com, adding the subject heading 'Re: calculation of averages' for more information about Fastmarkets existing or legacy averages.

# 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.

# indices

Fastmarkets MB's prices also include the following nonferrous indices:

- Fastmarkets MB Alumina Index
- Fastmarkets MB Managnese Ore Indices
- Fastmarkets MB Copper Concentrates Index
- Fastmarkets MB Lithium Carbonate Index
- Fastmarkets MB Chrome Ore Index

The methodologies are available on the Fastmarkets website.



# Base metals

# **Alumina**

### **CHINA**

MB-ALU-0001 Alumina metallurgical grade, exw

China, yuan/tonne

Metallurgical-grade alumina Quality:

Min 1,000 tonnes Quantity: Location: Ex-works China RMB/tonne Unit

Payment terms: Cash, within one week

Publication: Weekly. Thursday 2-3pm London

### **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)

Within 2 months Timing:

US\$ per dry metric tonne (dmt) Unit:

Payment Terms: 30 days after loading Publication: Daily at 4pm London time Notes: Bulk carrier. Data history fromAugusts 2010. Full

methodologyavailable 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)

Within two months Timing:

Unit: US\$ per dry metric tonne (dmt)

Payment terms: 30 days after loading

Publication: Once every two weeks. Thursday

4pm London time

Bulk carrier Notes

MB-ALU-0010 Aluming index inferred, fob Brazil,

\$/dmt

Smelter grade alumina, minimum Quality:

purity of 98.5% Al203

Quantity: 5,000 tonnes

fob Vila do Conde, Brazil (other ports Location:

normalized)

Timing: Within 2 months USD/drv metric tonne Unit: 30 days after loading Payment terms: Publication: Daily 4pm London time

Bulk carrier. Full Notes:

methodologyavailable here:

# **Bauxite**

Please see Ores section.

# Aluminium P1020A

### **JAPAN**

Aluminium P1020A (MJP) quarterly MB-AL-0001

premium, cif Japan, \$/tonne

P1020A or 99.7 % Minimum Al purity Quality:

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

T-bar, sow

500 tonnes Quantity:

Location: cif main Japanese ports (Yokohama,

Nagoya and Osaka), premium on top

of LME cash prices

Within the quarter Timing:

Unit: USD/tonne

Payment terms: Cash against documents (2 days

after Bill of lading date)

Publication: Quarterly

Notes: Full methodology available here



Publication:

# **Non-ferrous Prices**

MB-AL-0343	Aluminium P1020A (MJP) spot	CHINA	
Quality:	premium, cif Japan, \$/tonne P1020A or 99.7 % Minimum Al purity (Si	MB-AL-0345	Aluminium P1020A premium, cif
cau,.	0.10% max, Fe 0.20% max) in line with	112 712 00 10	Shanghai, \$/tonne
Quantity:	LME specifications. Ingot, T-bar, sow Min 100 tonnes	Quality:	P1020A or 99.7 % Minimum Al purity (Si 0.10% max, Fe 0.20% max). Ingot
Location:	cif in main Japanese ports at	Quantity:	Min 100 tonnes
Location.	Yokohama, Nagoya and Osaka,	Location:	cif Shanghai, premium on top of LMI
	premium on top of LME cash prices	Location.	cash prices
Timing:	Within 6 weeks	Unit:	USD/tonne
Unit:	USD/tonne	Timing:	Within 4 weeks
Payment terms:	Cash against documents (2 days	Payment terms:	Letter of Credit or Telegraphic
r dyrrierre cerris.	after Bill of lading date)	r dyrrierie terriis.	Transfer, other payment terms
Publication:	Twice weekly. Tuesday and Friday by		normalized
	4pm London time	Publication:	Monthly, last Tuesday of the month
Notes:	Excluding metal from LME	r abileation.	3-4pm London time
	warehouses and metal subject to		
	international sanctions. Assessed by		
	Fastmarkets' Singapore office	MB-AL-0328	Aluminium P1020A premium,
			bonded in-whs, Shanghai, \$/tonno
		Quality:	P1020A or 99.7 % Minimum Al purity
SOUTH KOREA		addinty.	(Si 0.10% max, Fe 0.20% max)
		Quantity:	100 tonnes
MB-AL-0344	Aluminium P1020A premium, cif	Location:	In-bonded warehouse in Shanghai,
	South Korea, \$/tonne		premium on top of LME cash prices
Quality:	P1020A or 99.7 % Minimum Al purity	Unit:	USD/tonne
	(Si 0.10% max, Fe 0.20% max). Ingot,	Timing:	Within 4 weeks
	T-bar, sow	Form:	Ingot
Quantity:	Min 100 tonnes	Payment terms:	Letter of Credit or Telegraphic
Location:	Cif in main South Korean ports	,	Transfer, other payment terms
	(Gwangyang, Busan or Incheon),		normalized
	premium on top of LME cash prices	Publication:	Monthly, last Tuesday of the month
Timing:	Within 4 weeks		3-4pm London time
Unit:	USD/tonne		•
Payment terms:	Cash against documents (2 days		
,	after Bill of lading date)	TAIWAN	
Publication:	Weekly. Tuesday 3-4pm London time		
	, , ,	MB-AL-0329	Aluminium P1020A premium, cif Taiwan, \$/tonne
MB-AL-0307	Aluminium P1020A premium, fca	Quality:	P1020A or 99.7 % Minimum Al purity
	South Korea, \$/tonne	,	(Si 0.10% max, Fe 0.20% max). Ingot
Quality:	P1020A or 99.7 % Minimum Al purity	Quantity:	Min 100 tonnes
,	(Si 0.10% max, Fe 0.20% max). Ingot,	Location:	Cif main Taiwanese ports (Taipei,
	T-bar, sow		Kaohsiung or Keelung), premium on
Quantity:	Min 100 tonnes		top of LME cash prices
Location:	FCA South Korea (Gwangyang,	Unit:	USD/tonne
	Busan or Incheon), premium on top	Payment terms:	Letter of Credit or Telegraphic
	of LME cash prices		Transfer, other payment terms
Timing:	Within 4 weeks		normalized
Unit:	USD/tonne	Publication:	Once every two weeks. Tuesday
Payment terms:	Cash against documents (2 days		3-4pm London time
	after Bill of lading date)		
Publication:	Wookly Tuesday 3 Apm Landon time		

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Weekly. Tuesday 3-4pm London time



SOUTHEAST ASIA	A & EAST ASIA	MB-AL-0004	Aluminium P1020A premium, in- whs dp Rotterdam, \$/tonne
MB-AL-0333	Aluminium P1020A warrant premium, in-whs Southeast Asia,	Quality:	P1020A or 99.7 % Minimum Al purity (Si 0.10% max, Fe 0.20% max). Ingot
Quality:	<b>\$/tonne</b> P1020A or 99.7 % Minimum Al purity (Si 0.10% max, Fe 0.20% max). Ingot, T-bar, sow	Quantity: Location: Unit:	Min 100 tonnes In-warehouse Rotterdam duty-paid, premium on top of LME cash prices USD/tonne
Quantity:	Min 25 tonnes	Timing:	Within 4 weeks
Location:	In any LME-approved warehouse in Singapore and in Malaysia (Johor, Port Klang), premium on top of LME cash prices	Payment terms:	Cash against documents (7 days after bill of lading date); other terms normalized Twice weekly. Tuesday and Friday
Timing: Unit: Payment terms:	Prompt release USD/tonne other terms normalized Cash against documents (7 days	r ublication.	4pm London
,	after bill of lading date);	MB-AL-0316	Aluminium P1020A premium, fca
Publication:	Weekly. Weds 3-4pm London time	Quality:	dp Italy, \$/tonne P1020A or 99.7 % Minimum Al purity (Si 0.10% max, Fe 0.20% max). Ingot
MB-AL-0334	Aluminium P1020A, warrant premium, in-whs East Asia, \$/ tonne	Quantity: Location:	Min 100 tonnes Free-carrier duty-paid Italy (north and south of country), premium on
Quality:	P1020A or 99.7 % Minimum Al purity (Si 0.10% max, Fe 0.20% max). Ingot, T-bar, sow	Timing: Unit:	top of LME cash prices Within 4 weeks USD/tonne
Quantity: Location:	Min 25 tonnes In any LME-approved warehouse in Taiwan (Kaohsiung) and South Korea	Payment terms:	Cash against documents (7 days after bill of lading date); other terms normalized
Timing:	(Gwangyang, Busan or Incheon), premium on top of LME cash prices Prompt release	Publication:	Weekly. Tuesday 3-4pm London time
Unit:	USD/tonne	MB-AL-0319	Aluminium P1020A premium, fca
Payment terms:	Cash against documents (7 days after bill of lading date); other terms normalized	Quality:	dp Spain, \$/tonne P1020A or 99.7 % Minimum Al purity (Si 0.10% max, Fe 0.20% max). Ingot
Publication:	Weekly. Wednesday 3-4pm London	Quantity:	Min 100 tonnes
	time	Location:	free-carrier duty-paid Spain, premium on top of LME cash prices
EUROPE		Timing: Unit:	Within 4 weeks USD/tonne
MB-AL-0346	Aluminium P1020A premium, in- whs dup Rotterdam, \$/tonne	Payment terms:	Cash against documents (7 days after bill of lading date); other terms normalized
Quality:	P1020A or 99.7 % Minimum Al purity (Si 0.10% max, Fe 0.20% max). Ingot	Publication:	Once every two weeks. Tuesday 3-4pm London time
Quantity: Location: Unit:	Min 100 tonnes In-warehouse Rotterdam duty-unpaid, premium on top of LME cash prices 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		



TURKEY		MB-AL-0355	Aluminium P1020A premium, cif Baltimore, US cents/lb
MB-AL-0337	Aluminium P1020A premium, cif dup Turkey, \$/tonne	Quality:	P1020A or 99.7% minimum aluminium purity (silicon 0.10%
Quality:	P1020A or 99.7 % Minimum Al purity (Si 0.10% max, Fe 0.20% max). Ingot		maximum, iron 0.20% maximum). Ingot, T-bar, Sow
Quantity:	Min 100 tonnes	Quantity:	Min 100 tonnes
Location:	CIF duty-unpaid Turkey (Marmara	Location:	Shipped to ports in Baltimore,
	region), premium on top of LME cash		Maryland, premium on top of
	prices		London Metal Exchange cash prices,
Timing:	Within 4 weeks		net back to Baltimore
Unit:	USD/tonne	Timing:	Within four weeks
Payment terms:	Cash against documents (7 days	Unit:	US cents per lb
	after bill of lading date); other terms normalized	Payment terms:	30 days, other payment terms normalized
Publication:	Once every two weeks. Tuesday, 3-4pm London time	Publication:	Weekly. Tuesday 3-4pm London time

	BRAZ
UNITED STATES	

UNITED STATES		MB-AL-0022	Aluminium P1020A premium, cif
MB-AL-0338	Aluminium P1020A warrant	MD-AL-0022	dup Brazilian main ports, \$/tonne
	premium, in-whs US, \$/tonne	Quality:	P1020A or 99.7 % Minimum Al purity
Quality:	P1020A or 99.7 % Minimum Al purity	, .	(Si 0.10% max, Fe 0.20% max). Ingot,
,	(Si 0.10% max, Fe 0.20% max). Ingot,		T-bar, sow
	T-bar, sow	Quantity:	Min 100 tonnes
Quantity:	Min 25 tonnes	Location:	cif Brazil ports duty unpaid, excluding
Location:	In any LME-approved warehouse in		VAT, premium on top of LME cash prices
	the USA (10 delivery points in June	Timing:	Within 30-60 days
	2017), premium on top of LME cash	Unit:	USD/tonne
	prices	Payment terms:	Cash against documents (7 days
Timing:	Prompt Release		after bill of lading date), other
Unit:	USD per tonne		payment terms normalized
Payment terms:	Cash against documents (7 days	Publication:	Once every two weeks. Tuesday
	after bill of		3-4pm London
	lading date); other terms normalized	Notes:	All origins except China
Publication:	Weekly. Wednesday 3-4pm London		
	time		
		MB-AL-0021	Aluminium P1020A premium,
			delivered Sao Paulo region, \$/
MB-AL-0232	Aluminium P1020A premium, ddp		tonne
	Midwest US, cents/lb	Quality:	P1020A or 99.7 % Minimum Al purity
Quality:	LME specification, P1020A or 99.7%		(Si 0.10% max, Fe 0.20% max). Ingot
	minimum Al purity (silicon 0.10%	Quantity:	Min 100 tonnes
	max, iron 0.20% max, zinc 0.03%,	Location:	Delivered in São Paulo region duty-
	gallium 0.04%, vanadium 0.03%).		paid, VAT not included, premium on
	Ingot, T-bar, Sow.		top of LME cash prices
Quantity:	Min 100 tonnes	Timing:	Within 4 weeks
Location:	Delivered consumer works Midwest	Unit:	USD/tonne
Unit:	US cents per pound	Payment terms:	Cash against documents (7 days
Timing	Within four weeks		after bill of lading date); other
Payment terms:	30 days, other payment terms	D. I. P P	payment terms normalized
D. I. P P	normalized	Publication:	Once every two weeks. Tuesday
Publication:	Twice weekly. Tuesday and Friday		3-4pm London
	3-4pm London time		



# Aluminium billet

EUROPE

MB-AL-0002 Aluminium 6063 extrusion billet premium, in-whs dp Rotterdam,

\$/tonne

Quality: Aluminium Assn specification AA6063:

Si 0.2-0.6% max, Mg 0.45-0.9% max, Fe 0.35% max, Cu 0.1% max, Cr 0.1% max, Zn 0.1% max, Ti 0.1% max, Others each

0.05% max, total 0.15% max. Extrusion billet with outside diameter of 6", 7"  $\,$ 

and 8"

Quantity: Min 100 tonnes

Location: In-warehouse Rotterdam duty-paid

premium on top of LME cash prices

Timing: Within 3 months Unit: USD/tonne

Payment terms: Cash against documents (7 days

after bill of lading date)

Publication: Weekly. Friday 3-4pm London time

MB-AL-0302 Aluminium 6063 extrusion billet premium, ddp North Germany

(Ruhr region), \$/tonne

Quality: Extrusion billet AA6063: Si 0.2-0.6%

max, Mg 0.45-0.9% max, Fe 0.35% max, Cu 0.1% max, Cr 0.1% max, Zn 0.1% max, Ti 0.1% max, others each 0.05% max, total 0.15% max. Billet

with diameter of 6", 7" and 8"

Quantity: Min 100 tonnes

Location: Delivered in North Germany (Ruhr

region) duty-paid premium on top of

LME cash price

Timing: Within 3 months Unit: USD/tonne

Payment terms: 30-day payment terms, other

payment terms normalized

Publication: Weekly. Friday 3-4pm London time

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

Quality: Extrusion billet AA6063. Billet with

diameter of 6", 7" and 8"

Quantity: Min 100 tonnes

Location: Delivered in Spain (Bilbao region),

duty-paid premium on top of LME

cash prices

Timing: Within 3 months
Unit: USD/tonne

Payment terms: 60-day payment, other payments

terms normalized

Publication: Once every two weeks. Friday 3-4pm

London time

MB-AL-0300 Aluminium 6063 extrusion billet

premium, ddp Italy (Brescia region), \$/tonne

Quality: Extrusion billet AA6063. Billet with

diameter of 6", 7" and 8"

Quantity: 25 tonnes

Location: Delivered in Italy (Brescia region)

duty-paid premium on top of LME

cash prices

Timing: Within 3 months
Unit: USD/tonne

Payment terms: 60-day payment, other payments

terms normalized

Publication: Weekly. Friday 3-4pm London time

UNITED STATES

MB-AL-0052 Aluminum 6063 extrusion billet

premium, delivered Midwest US,

US cents/lb

Quality: Extrusion billet AA6063. Billet with

diameter of 6", 7" and 8"

Quantity: Min 100 tonnes

Location: Delivered into US Midwest region,

duty-unpaid premium on top of the P1020A ingot Midwest premium and

LME cash prices

Timing: Within 2 months
Unit: US cents/lb

Payment terms: 30-day payment, other payments

terms normalized

Publication: Once every two weeks. Friday 3-4pm

London time



### **SOUTHEAST ASIA**

MB-AL-0297 Aluminium 6063 extrusion billet

premium, cif Thailand, \$/tonne
Quality: Extrusion billet AA6063. Billet with

diameter of 6", 7" and 8"

Quantity: 100 tonnes

Location: Cif delivery into main Thai ports,

duty-paid premium on top of LME

cash prices.

Timing: Within 2 months Unit: USD/tonne

Payment terms: Cash against documents (7 days

after bill of lading date), other payments terms normalized

Publication: Every 28 days. Friday 3-4pm London

time

### 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-

paid 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



# Aluminium foundry alloys

## TURKEY

MB-AL-0341 Aluminium primary foundry alloy

> silicon 7 ingot premium, cif dup over P1020A Turkey, \$/tonne

Quality: Primary Foundry Alloy silicon 7

AlSi7Mg0.3-0.6 for wheel production.

Ingot

Quantity: 100 tonnes

Location: Cif in Turkey (Marmara region), duty-

> unpaid premium on top of P1020A ingot premium and LME cash prices

Within 2 months Timing:

Unit: USD/tonne

Cash, other terms normalized Payment terms: Publication: Monthly. 2nd Friday of the month

between 3pm and 4pm London time

**EUROPE** 

MB-AL-0339

Aluminium foundry alloy silicon 7

ingot premium, ddp Germany, \$/

tonne

Quality: Primary Foundry Alloy silicon 7

AlSi7Mq0.3-0.6 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: Monthly. 2nd Friday of the month

between 3pm and 4pm London time

**EAST ASIA** 

MB-AL-0348 Aluminium primary foundry alloy

MB-AL-0340 Aluminium primary foundry alloy

silicon 7 ingot premium, ddp

Eastern Europe, \$/tonne

Primary Foundry Alloy silicon 7 Quality:

AlSi7Mg0.3-0.6 for wheel production.

Ingot

Quantity: Min 100 tonnes

Delivered in Eastern Europe (Poland, Location:

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

> between 3pm and 4pm London time

of LME cash prices

Timing: Within 2 months Unit: USD/tonne

Payment terms: 30-day payment terms, other

payments terms normalized

Publication: Monthly. Second Friday of the month

silicon 7 ingot annual premium, cif main South Korean ports,

\$/tonne

Min 500 tonnes Quantity:

Primary Foundry Alloy silicon 7 Quality:

A356.2 for wheel production

cif in main South Korean ports at Location:

Busan, Gwangyang and Incheon, duty-unpaid premium on top of P1020 ingot premium and LME cash

prices

Within 4 weeks Timing: Unit: USD per tonne

Letter of Credit or Telegraphic Payment terms:

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

# Low-carbon aluminium differentials

### EUROPE

MB-AL-0381 Aluminium low-carbon differential

P1020A, Europe, \$/tonne

Carbon limit: 4tCO2e per tonne of aluminium

produced, Scope 1 and 2 emissions

Quality: P1020A or 99.7% minimum Al purity

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

Quantity: Min 100 tonnes

Location: Europe
Unit: USD/tonne

Timing: Within three months

Publication: Monthly, first Friday of the month,

4pm London

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

## **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



# Copper concentrate

**ASIA PACIFIC** 

MB-CU-0287 Copper concentrates TC index, cif

Asia Pacific, \$/dmtu

Quality: Concentrate. Copper content 26%;

Au 1.1g/dmt; Ag 75g/dmt; S 32%; Fe 28%; Pb 0.07%; Zn 1%; As 0.17%; Sb

0.018%; Hg 2.5ppm; Bi 145ppm

Quantity: Min 5,000 tonnes
Location: cif Asia Pacific
Unit: USD/tonne
Timing: Within 13 weeks

Payment terms: Letter of credit, quotation period

M+3

Publication: Weekly. Friday at 4pm London time

Notes: Full methodology available **here**.

MB-CU-0288 Copper concentrates RC index, cif

Asia Pacific, \$/dmtu

Quality: Concentrate. Copper content 26%;

Au 1.1g/dmt; Ag 75g/dmt; S 32%; Fe 28%; Pb 0.07%; Zn 1%; As 0.17%; Sb 0.018%; Hg 2.5ppm; Bi 145ppm

Min 5,000 tonnes

Quantity: Min 5,000 tonne
Location: cif Asia Pacific
Unit: US cents/lb
Timing: Within 13 weeks

Payment terms: Letter of credit, quotation period

M+3

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

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
Timing: Within 2 months
Unit: USD per tonne

Publication: Monthly. Last day of the month,

3-4pm London time

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

benchmark, cif China, \$/tonne Blister copper of 98-99% copper

content, with varying payables

Location: CIF China
Unit: USD per tonne

Publication: Annually. January or February

Refined copper

**CHINA** 

Quality:

MB-CU-0405 Copper grade A cathode premium,

in-whs Shanghai, \$/tonne

Quality: Grade A cathode 99.9935%

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

CATH-1

Quantity: Min 25 tonnes

Location: In-warehouse Shanghai port, duty-

unpaid premium on top of LME cash

prices

Timing: Within 6 weeks
Unit: USD/tonne

Payment terms: Letter of credit, telegraphic transfer

or documents against payment, other payment terms normalized

Publication: Daily. 3-4pm London time

MB-CU-0383 Copper grade A cathode ER

premium, bonded in-whs

Shanghai, \$/tonne

Quality: Electro-Refined Grade A cathode

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

CATH-1).

Quantity: Min 25 tonnes

Location: In-warehouse Shanghai port, duty-

unpaid premium on top of LME cash

prices

Timing: Within 6 weeks
Unit: USD/tonne

Payment terms: Letter of credit, telegraphic transfer

or documents against payment, other payment terms normalized

Publication: Daily. 3-4pm London time



Quantity:

Location:

Timing:

Publication:

Location:

Timing:

Publication:

Min 25 tonnes

CIF Shanghai port, duty-unpaid

Daily. 3-4pm London time

or documents against payment,

# **Non-ferrous Prices**

MB-CU-0382	Copper grade A cathode SX- EW premium, bonded in-whs	MB-CU-0384	Copper grade A cathode SX-EW premium, cif Shanghai, \$/tonne
Quality:	Shanghai, \$/tonne Solvent Extraction-Electro winning Grade A cathode 99.9935% min conforming to LME specifications BS	Quality:	Solvent Extraction-Electro winning Grade A cathode 9.9935% min conforming to LME specifications BS EN 1978:1998 (Cu-CATH-1)
	EN 1978:1998 (Cu-CATH-1)	Quantity:	Min 25 tonnes
Quantity: Location:	25 tonnes In-warehouse Shanghai port, duty-	Location:	cif Shanghai port, duty-unpaid premium on top of LME cash prices
	unpaid premium on top of LME cash	Timing:	Within 6 weeks
	prices	Unit:	USD/tonne
Timing: Unit:	Within 6 weeks USD/tonne	Payment terms:	LC, TT or documents against payment, other terms normalized
Payment terms:	Letter of credit, telegraphic transfer or documents against payment, other payment terms normalized	Publication:	Daily. 3-4pm London time
Publication:	Daily. 3-4pm London time	MB-CU-0412	Copper EQ cathode premium, cif Shanghai, \$/tonne
		Quality:	99.9935% min copper conforming to
MB-CU-0403	Copper grade A cathode premium, cif Shanghai, \$/tonne	addirey.	LME specifications; Ag: 0.0025% max, As: 0.0005% max, Bi: 0.00020% max,
Quality:	Grade A cathode 99.9935% min copper conforming to LME specifications BS EN 1978:1998 – Cu CATH-1	Quantity	Fe: 0.0010% max, Pb: 0.0005% max, S: 0.0015% max, Se: 0.00020% max, Te: 0.00020% max Min 25 tonnes
	CATT-1	Quantity:	IVIII ZU COITTES

premium on top of LME cash prices Unit: USD per tonne
Within 6 weeks Payment terms: LC, TT or DP other payments

Location:

Timing:

cif Shanghai

USD/tonne

Within 6 weeks

Unit: USD/tonne normalized to cash

Payment terms: Letter of credit, telegraphic transfer Publication: Once every two weeks. Tuesday 4pm

or documents against payment, London time

other payment terms normalized

Notes: Full methodology available **here**: SOUTHEAST ASIA & EAST ASIA

MB-CU-0399 Copper grade A cathode premium, cif Southeast Asia, \$/tonne

**premium, cif Shanghai, \$/tonne** Quality: Grade A 99.9935% min copper cathode Quality: Electro-Refined Grade A conforming to LME specifications

99.9935% min conforming to LME BS EN 1978:1998 – Cu-CATH-1

specifications BS EN 1978:1998 (Cu-Quantity: Min 25 tonnes
CATH-1) Location: cif ports of Vietnam (Ho Chi Minh/

Quantity: Min 25 tonnes Haiphong), Thailand (Bangkok,

CIF Shanghai port, duty-unpaid Laem Chabang), Malaysia (Johor, premium on top of LME cash prices Port Klang), Indonesia (Jakarta), Within 6 weeks duty-unpaid premium on top of LME

Unit: USD/tonne cash prices
Payment terms: Letter of credit, telegraphic transfer Timing: Within 6 weeks

other payment terms normalized Payment terms: Letter of credit, telegraphic transfer

Unit:

Daily. 3-4pm London time or documents against payment, other payment terms normalized

Publication: Weekly. Tuesday 3-4pm London time



MP CH 0394	Cannor grada A agthada nromium	MP CH 0404	Cannor grada A agthada nromium
MB-CU-0386	Copper grade A cathode premium, cif Taiwan, \$/tonne	MB-CU-0404	Copper grade A cathode premium, cif South Korea, \$/tonne
Quality:	Grade A 99.9935% min copper cathode	Quality:	Grade A cathode 99.9935%
	conforming to LME specifications		min copper conforming to LME
	BS EN 1978:1998 – Cu-CATH-1		specifications BS EN 1978:1998 – Cu-
Quantity:	Min 25 tonnes		CATH-1
Location:	cif delivery in Taiwanese ports, duty-	Quantity:	Min 25 tonnes
	unpaid premium on top of LME cash	Location:	Cif delivery in main South Korean
Timing:	prices Within 6 weeks		ports (Busan, Incheon, Gwangyang, Onsan), duty-unpaid premium on
Unit:	USD/tonne		top of LME cash prices
Payment terms:	Letter of credit, telegraphic transfer	Timing:	Within 6 weeks
. 47	or documents against payment,	Unit:	USD/tonne
	other payment terms normalized	Payment terms:	Letter of credit or telegraphic transfer,
Publication:	Once every two weeks. Tuesday	,	other payment terms normalized
	3-4pm London time	Publication:	Weekly. Tuesday 3-4pm London time
		Notes:	Assessed range and single number
MB-CU-0397	Copper grade A cathode warrant		
	premium, in-whs Southeast Asia,	EUROPE	
0 4	\$/tonne		
Quality:	Grade A 99.9935% min copper cathode	MB-CU-0369	Copper grade A cathode premium,
	conforming to LME specifications BS EN 1978:1998 – Cu-CATH-1	O Ii.+	<b>cif Rotterdam, \$/tonne</b> Grade A cathode 99.9935%
Quantity:	Min 25 tonnes	Quality:	min copper conforming to LME
Location:	In any LME-approved warehouse in		specifications BS EN 1978:1998 – Cu-
Location.	Singapore and in Malaysia (Johor,		CATH-1
	Port Klang), premium on top of LME	Quantity:	Min 25 tonnes
	cash prices	Location:	cif delivery in Rotterdam, duty
Timing:	Prompt release		unpaid premium on top of LME cash
Unit:	USD/tonne		prices
Payment terms:	Cash, other payment terms	Timing:	Within 4 weeks
	normalized	Unit:	USD/tonne
Publication:	Weekly. Wednesday 3-4pm London	Payment terms:	Cash, other payment terms
	time	D. I. P P	normalized
		Publication:	Weekly. Tuesday 3-4pm London time
MB-CU-0398	Copper grade A cathode warrant premium, in-whs East Asia \$/tonne	MB-CU-0406	Copper grade A cathode premium,
Quality:	Grade A cathode 99.9935%	MB-CO-0400	cif Leghorn, \$/tonne
Quality.	min copper conforming to LME	Quality:	Grade A cathode 99.9935%
	specifications BS EN 1978:1998 – Cu-	addirey.	min copper conforming to LME
	CATH-1		specifications BS EN 1978:1998 – Cu-
Quantity:	Min 25 tonnes		CATH-1
Location:	In any LME-approved warehouse in	Quantity:	25 tonnes
	Taiwan (Kaohsiung) and South Korea	Location:	cif delivery in Leghorn (Italy), duty unpaid
	(Gwangyang, Busan or Incheon),		premium on top of LME cash prices
	premium on top of LME cash prices	Timing:	Within 4 weeks
Timing:	Prompt release	Unit:	USD/tonne
Unit:	USD/tonne	Payment terms:	Cash, other payment terms
Payment terms:	Cash, other payment terms normalized	Dublication:	normalized
Publication:	Weekly. Wednesday 3-4pm London time	Publication:	Once every two weeks. Tuesday 3-4pm London time
	diffe	Notes:	Assessed range and single number



MB			14011 Terrous Friees
MB-CU-0372	Copper grade A cathode premium, delivered Germany, \$/tonne	MB-CU-0411	Copper EQ cathode premium, cif Europe, \$/tonne.
Quality:	Grade A cathode 99.9935% min copper conforming to LME specifications BS EN 1978:1998 – Cu- CATH-1	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,
Quantity:	Min 25 tonnes		S: 0.0015% max, Se: 0.00020% max,
Location:	Delivered consumer works in		Te: 0.00020% max
	Germany, duty unpaid premium on	Quantity:	Min 25 tonnes
T· ·	top of LME cash prices	Location:	cif Europe
Timing:	Within 4 weeks	Timing: Unit:	Within 4 weeks
Unit:	USD/tonne		USD per tonne
Payment terms:	Cash, other payment terms normalized	Payment terms: Publication:	Cash payment, other terms normalized Once every two weeks. Tuesday 4pm
Publication:	Once every two weeks. Tuesday	i ublication.	London time
Tublication.	3-4pm London time		London time
		UNITED STATES	
MB-CU-0400	Copper grade A cathode warrant		
	premium, in-whs North Europe, \$/ tonne	MB-CU-0002	Copper grade 1 cathode premium, ddp Midwest US, US cents/lb
Quality:	Grade A cathode 99.9935% 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 – Cu-CATH-1 or Grade 1 Electrolytic
Quantity:	Min 25 tonnes		Copper Cathode ASTM B115-00
Location:	In any LME-approved warehouse in	Quantity:	Min 25 tonnes
	North Europe (Belgium, Germany, the	Location:	Delivered consumer works Midwest US
	Netherlands, Sweden and the UK),	Timing:	Within 4 weeks
	premium on top of LME cash prices	Unit:	USD/lb
Timing:	Prompt release	Payment:	30 days, other payment terms
Unit:	USD/tonne		normalized

USD/tonne Unit:

Cash, other payment terms Payment terms:

normalized

Publication: Weekly. Wednesday 3-4pm London

time

MB-CU-0401 Copper grade A cathode warrant premium, in-whs South Europe,

\$/tonne

Quality: Grade A cathode 99.9935% min copper

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

Quantity: Min 25 tonnes

Location: In any LME-approved warehouse in

South Europe (Spain, Italy), premium

on top of LME cash prices

Timing: Prompt release Unit: USD/tonne

Payment terms: Cash, other payment terms normalized Publication: Weekly. Wednesday 3-4pm London

time

normalized

Publication: Weekly. Tuesday 3-4pm London time

MB-CU-0377 Copper grade A cathode warrant premium, in-whs US, \$/tonne

Location: Any LME-approved warehouse in the

> US, premium on top of LME cash prices Grade A 99.9935% min copper cathode

conforming to LME specifications

BS EN 1978:1998 - Cu-CATH-1

Unit: USD/tonne Quantity: 25 tonnes

Quality:

Timing:

Cash, other payment terms Payment terms:

normalized Prompt release

Publication: Weekly. Wednesday 3-4pm London

time





# Copper rod

### **UNITED STATES**

MB-CU-0410 Copper rod premium, ddp

MidwestUS, US cents/lb

Purity of 99.95-99.99%. Thicknesses Quality:

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

# **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

Refined lead

Location: cif delivery in Nhava Sheva (India),

premium on top of LME cash prices

Within 5 weeks Timing: 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

# 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%

Min 2,000 tonnes Quantity:

Treatment Charge on cif basis Location:

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-0086 Lead 99.99% ingot premium, cif India, \$/tonne

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

Quality:

Location: cif Nhava Sheva (India), duty-unpaid

premium on top of LME cash prices

Timing: Within 5 weeks Unit: USD/tonne

Letter of credit, telegraphic transfer Payment terms:

or cash against documents, other

terms normalized

Publication: Once every two weeks. Tuesday

3-4pm London time

MB-PB-0103 Lead spot concentrate TC, low

silver, cif China, \$/tonne

55-65% lead content concentrate, Quality:

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

Within 13 weeks Timing: Unit: USD/tonne

Payment terms: Letter of Credit, quotation period M+3 Publication: Monthly. Last Friday of the month,

3-4pm London time



SOUTHEAST ASIA	A & EAST ASIA	MB-PB-0084	Lead 99.97% ingot premium, cif
MB-PB-0107	Lead 99.97% ingot premium, cif Southeast Asia, \$/tonne	Quality:	<b>Taiwan, \$/tonne</b> Lead of 99.97% to 99.99% purity conforming to LME specification BS
Quality:	Lead ingot of 99.97-99.99% purity conforming to LME specification BS		EN 12659:1999, GB/T 469/2005 or ASTM B29-03 (2009)
	EN 12659:1999, GB/T 469/2005 or ASTM B29-03 (2009)	Quantity: Location:	25 tonnes cif delivery main Taiwan ports (Taipei,
Quantity: Location:	25 tonnes cif to ports of Vietnam (Ho Chi		Kaohsiung or Keelung), duty-unpaid premium on top of LME cash prices
	Minh/Haiphong), Thailand (Bangkok, Laem Chabang), Malaysia (Johor,	Timing: Unit:	Within 5 weeks USD/tonne
	Port Klang), Indonesia (Jakarta), duty-unpaid premium on top of LME cash prices	Payment terms:	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		'
Publication:	terms normalized Once every two weeks. Tuesday	MB-PB-0083	Lead 99.99% ingot premium, cif 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,		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
Timing:	Indonesia (Jakarta), duty-unpaid premium on top of LME cash prices Within 5 weeks	Publication:	Once every two weeks. Tuesday 3-4pm London time
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:	Once every two weeks. Tuesday 3-4pm London time	Quality:	Lead ingot of 99.97% to 99.99% purity conforming to LME specification BS EN 12659:1999, GB/T 469/2005 or ASTM B29-03 (2009)
		Quantity:	25 tonnes
		Location:	In any LME-approved warehouse in Singapore and in Malaysia (Johor, Port Klang), premium on top of LME cash prices
		Timing:	Prompt release
		Unit:	USD/tonne
		Payment terms:	Cash, other payment terms normalized
		Publication:	Weekly. Wednesday 3-4pm London time



MB-PB-0106 Lead min 99.97% ingot warrant

premium, in-whs East Asia \$/

tonne

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: 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

MB-PB-0109

Quality:

Payment terms: Cash, other terms normalized Publication: Weekly. Wednesday 3-4pm London

MR-PR-0110 Lead 99.97% ingot warrant

premium, in-whs South Europe, \$/

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

South Europe (Spain, Italy), premium

on top of LME cash prices

Timing: Prompt release USD/tonne Unit:

Payment terms: Cash, other payment terms

normalized

Publication: Weekly. Wednesday 3-4pm London

### **EUROPE**

### Lead 99.97% ingot warrant premium, in-whs North Europe, \$/

Location: In any LME-approved warehouse in

> North Europe (Belgium, Germany, the Netherlands, Sweden and the UK), premium on top of LME cash prices Lead of 99.97% to 99.99% purity conforming to LME specification BS

EN 12659:1999, GB/T 469/2005 or

ASTM B29-03 (2009)

Unit: USD/tonne Quantity: Min 25 tonnes

Payment terms: Cash, other payment terms

normalized

Timing: Prompt release Form: Cathode

Publication: Weekly. Wednesday 3-4pm London

time

UNITED STATES

MB-PB-0056 Lead 99.97% ingot premium ddp

Midwest US, US cents/lb

Quality: Lead ingot of 99.97% to 99.99%

purity conforming to LME

specification BS EN 12659:1999, GB/T 469/2005 or ASTM B29-03 (2009)

Quantity: Min 25 tonnes

Location: Delivered consumer works, US

Midwest

Timing: Within 5 weeks Unit: US cents/lb

30 days, other payment terms Payment terms:

normalized

Publication: Weekly. Tuesday 3-4pm London time

MB-PB-0099 Lead 99.99% ingot premium,

delivered Midwest US, US cents/lb

Lead ingot of 99.99% minimum Quality:

purity conforming to LME specification BS EN 12659:1999, GB/T

469/2005 or ASTM B29-03 (2009)

Quantity: Min 25 tonnes

Delivered consumer works, US Location:

Midwest

Within 5 weeks Timing: 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: Weekly. Wednesday 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 10 tonnes (under consultation to

increase to 60 tonnes)

Location: In-warehouse iShanghai bonded zone,

premium on top of LME cash prices

Timing: With 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 10 tonnes (under consultation to

increase to 60 tonnes)

Location: cif delivery basis Shanghai port,

premium on top of LME cash prices

Timing: With 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



Payment terms:

Publication:

Cash, other terms normalized

time

Weekly. Wednesday 3-4pm London

# **Non-ferrous Prices**

MB-NI-0245	Shanghai, Nickel premium, 99.80% purity, briquette, duty free, cif, \$ per tonne	MB-NI-0139	Nickel min 99.8% full plate warrant premium, in-whs East Asia, \$/tonne
Quality:	Nickel content 99.8% in line with LME specifications	Quality:	Full-plate cathode. 99.80% min primary nickel conforming to LME
Quantity: Location:	Min 6 tonnes cif China		specification: ASTM B39-79 (2013) or GB/T 6516-2010 - Ni9990 grade
Timing: Unit:	Within 8 weeks USD/tonne	Quantity: Location:	6 tonnes In any LME-approved warehouse in
Payment terms:	Letter of credit and telegraphic transfer		Taiwan (Kaohsiung) and South Korea (Gwangyang, Busan or Incheon),
Publication: Notes:	Last Tuesday of each month Origin = Australia and Madagasgar	Timing:	premium on top of LME cash prices Prompt release
		Unit: Payment terms:	USD/tonne Cash, other terms normalized
SOUTHEAST ASIA	A & EAST ASIA	Publication:	Weekly. Wednesday 3-4pm London time
MB-NI-0137	Nickel min 99.8% full plate warrant premium, in-whs		
Quality:	Southeast Asia, \$/tonne Full-plate cathode. 99.80% min primary nickel conforming to LME	MB-NI-0140	Nickel min 99.8% briquette warrant premium, in-whs East Asia, \$/tonne
Quantity:	specification: ASTM B39-79 (2013) or GB/T 6516-2010 – Ni9990 grade 6 tonnes	Quality:	Briquette. 99.80% min primary nickel conforming to LME specification: ASTM B39-79 (2013) or GB/T 6516-
Location:	Any LME-approved warehouse in Singapore and Malaysia (Johor, Port	Ougantituu	2010 - Ni9990 grade
	Klang), premium on top of LME cash prices	Quantity: Location:	6 tonnes In any LME-approved warehouse in Taiwan (Kaohsiung) and South Korea
Timing: Unit:	Prompt release USD/tonne		(Gwangyang, Busan or Incheon), premium on top of LME cash prices
Payment terms: Publication:	Cash, other terms normalized Weekly. Wednesday 3-4pm London	Timing: Unit:	Prompt release USD/tonne
	time	Payment terms:	Cash, other payment terms normalized
MB-NI-0138	Nickel min 99.8% briquette	Publication:	Weekly. Wednesday 3-4pm London time
MD-141-0130	warrant premium, in-whs Southeast Asia, \$/tonne		ume
Quality:	Briquette. 99.80% min primary nickel	EUROPE	
	conforming to LME specification: ASTM B39-79 (2013) or GB/T 6516- 2010 – Ni9990 grade	MB-NI-0003	Nickel uncut cathode premium, in-whs Rotterdam, \$/tonne
Quantity: Location:	6 tonnes Any LME-approved warehouse in Singapore/Malaysia (Johor, Port Klang), premium on top of LME cash prices	Quality:	Full-plate cathode. 99.80% min primary nickel conforming to LME specification: ASTM B39-79 (2013) or GB/T 6516-2010 - Ni9990 grade
Timing: Unit:	Prompt release USD/tonne	Quantity: Location:	20 tonnes In-warehouse Rotterdam, premium

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Timing:

Payment terms:

Publication:

Unit:

on top of LME cash prices

Cash, other payment terms normalized

Weekly. Tuesday 3-4pm London time

Within one week

USD/tonne



MB-NI-0001 Nickel 4x4 cathode premium, in-**UNITED STATES** whs Rotterdam, \$/tonne 4x4 cut cathode. 99.80% min MB-NI-0240 Nickel 4x4 cathode premium, Quality: primary nickel conforming to LME delivered Midwest US, US cents/lb specification: ASTM B39-79 (2013) or Quality: 4x4 cut cathode. 99.8% minimum GB/T 6516-2010 - Ni9990 grade primary nickel conforming to LME Quantity: Min 20 tonnes specification: ASTM B39-79 (2013) Location: In-warehouse Rotterdam, premium or GB/T 6516-2010 - Ni9990 grade on top of LME cash prices specification: ASTM B39-79 (2013) or Timing: Within one week GB/T 6516-2010 - Ni9990 arade USD/tonne Min 20 tonnes Unit: Quantity: Payment terms: Cash, other payment terms Location: Delivered consumer works US Within four weeks normalized Timing: Publication: Weekly. Tuesday 3-4pm London time Unit: US cents per lb 30 days, other payment terms Payment terms: normalized MB-NI-0002 Nickel briquette premium, in-whs Publication: Weekly. Tuesday 3-4pm London time Rotterdam, \$/tonne Quality: Briquette. 99.80% min primary nickel conforming to LME specification: MB-NI-0241 Nickel briquette premium, ASTM B39-79 (2013) or GB/T 6516delivered Midwest US, US cents/lb 2010 - Ni9990 grade Briquette. 99.8% minimum Quality: Quantity: 20 tonnes primary nickel conforming to LME Location: In-warehouse Rotterdam, premium specification: ASTM B39-79 (2013) or GB/T 6516-2010 - Ni9990 grade on top of LME cash prices Within one week Timing: GB/T 6516-2010 - Ni9990 grade Unit: USD/tonne Min 20 tonnes Payment terms: Cash, other payment terms Quantity: Location: Delivered consumer works US normalized Publication: Weekly. Tuesday 3-4pm London time Within four weeks Timing: Unit:

### MB-NI-0141 Nickel min 99.8% warrant

### premium, in-whs North Europe, \$/ tonne

Quality: Cathode (full-plate, cut), pellet or

briquette. 99.80% min primary nickel conforming to LME specification: ASTM B39-79 (2013) or GB/T 6516-

2010 - Ni9990 grade

Quantity: Min 6 tonnes

Location: Any LME-approved warehouse in

> North Europe (Belgium, Germany, the Netherlands, Sweden and the UK), premium on top of LME cash prices

Prompt release Timing: Unit: USD/tonne

Payment terms: Cash, other terms normalized Publication: Weekly. Wednesday 3-4pm London

time

specification: ASTM B39-79 (2013) or

US cents per lb

30 days, other payment terms Payment terms:

normalized

Publication: Weekly. Tuesday 3-4pm London time



# Tin

## **SOUTHEAST ASIA & EAST ASIA**

MB-SN-0038 Tin 99.9% ingot premium, cif

Taiwan, \$/tonne

Quality: Ingot. 99.9% tin purity conforming

to LME specification: BS EN 610:1996

with 100-300 ppm lead content

Quantity: Min 5 tonnes

Location: cif delivery basis Taiwanese ports

(Taipei, Kaohsiung or Keelung),

premium on top of LME cash prices

Timing: Within 2 weeks
Unit: USD/tonne

Payment terms: Cash against document, telegraphic

transfer, other terms normalized

Publication: Once every two weeks. Tuesday

3-4pm London time

MB-SN-0042 Tin min 99.85% ingot warrant

premium, in-whs Southeast Asia,

\$/tonne

Quality: Ingot. Minimum 99.85% tin purity

conforming to LME specification: BS

EN 610:1996, max 500ppm lead

Quantity: Min 5 tonnes

Location: In any LME-approved warehouse in

Singapore and in Malaysia (Johor, Port Klang), premium on top of LME

cash prices

Timing: Prompt release Unit: USD/tonne

Payment terms: Cash, other payment terms

normalized

Publication: Weekly. Wednesday 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

Publication: Weekly. Tuesday 3-4pm London time

MB-SN-0029 Tin 99.9% low lead ingot premium,

in-whs Rotterdam, \$/tonne

Quality: Ingot. 99.9% tin purity conforming

to LME specification: BS EN 610:1996 with less than 100 ppm lead content

Quantity: Min 20 tonnes

Location: In-warehouse Rotterdam, premium

on top of LME cash prices

Timing: Within 2 weeks
Unit: USD/tonne

Payment terms: Cash against conditional release,

other payment terms normalized

Publication: Weekly. Tuesday 3-4pm London time

UNITED STATES

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



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

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

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: Monthly. Last Friday of every 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,

11/9:2003, ISO /52:2004 - 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



Weekly. Tuesday 3-4pm London time

MB-ZN-0115	Zinc SHG 99.995% ingot premium, fca Malaysia, \$/per tonne	MB-ZN-0123	Zinc SHG min 99.995% warrant premium, in-whs Southeast Asia,
Quality:	Special High Grade zinc ingot of minimum 99.995% purity, conforming to LME specifications and relevant standards: BS EN 1179:2003, ISO 752:2004 - ZN-1 grade, ASTM B6-12 - LME grade or GB/T 470- 2008	Quality:	\$/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
Quantity:	Min 25 tonnes		470 - 2008
Location:	fca main Malaysian ports (Johor, Port Klang), premium on top of LME cash price	Quantity: Location:	Min 100 tonnes  Any LME-approved warehouse in  Singapore/Malaysia (Johor, Port
Timing:	Within 4 weeks		Klang), premium on top of LME cash
Unit:	USD/tonne		prices
Payment terms:	Letter of credit or telegraphic	Timing:	Prompt release
	transfer, other terms normalized	Unit:	USD/tonne
Publication:	Once every two weeks. Tuesday	Payment terms:	Cash, other payment terms
	3-4pm London time	Publication:	normalized Weekly; Wednesday 3-4pm London
		rabileation.	time
MB-ZN-0093	Zinc SHG min 99.995% ingot		
	premium, cif Southeast Asia, \$/		
	tonne	EUROPE	
Quality:	Special High Grade zinc ingot		
	of minimum 99.995% purity,	MB-ZN-0001	Zinc SHG min 99.995% ingot
	conforming to LME specifications		premium, dp fca Rotterdam, \$/
	and relevant standards: BS EN	0 11	tonne
	1179:2003, ISO 752:2004 - ZN-1 grade,	Quality:	Special High Grade zinc ingot
	ASTM B6-12 - LME grade or GB/T 470- 2008		of minimum 99.995% purity, conforming to LME specifications
Quantity:	Min 25 tonnes		and relevant standards: BS EN
Location:	cif ports in Vietnam (Ho Chi Minh/		1179:2003, ISO 752:2004 - ZN-1 grade,
	Haiphong), Thailand (Bangkok,		ASTM B6-12 - LME grade or GB/T 470-
	Laem Chabang), Malaysia (Johor,		2008
	Port Klang), Indonesia (Jakarta),	Quantity:	Min 100 tonnes
	duty-unpaid premium on top of LME	Location:	Free-carrier basis delivery in
	cash prices		Rotterdam, duty-paid premium on
Timing:	Within 4 weeks		top of LME cash prices
Unit:	USD/tonne	Timing:	Within 4 weeks
Payment terms:	Letter of credit or telegraphic	Unit:	USD/tonne
D. Lillian et	transfer, other terms normalized	Payment terms:	Cash, other payment terms
Publication:	Once every two weeks Tuesday		normalized

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Publication:

3-4pm London time



MB-ZN-0099	Zinc SHG min 99.995% ingot	MB-ZN-0117	Zinc SHG min 99.995% warrant
	premium, dp fca Antwerp, \$/ tonne		premium, in-whs North Europe, \$/ tonne
Quality:	Special High Grade zinc ingot of	Quality:	Special High Grade zinc ingot
,	minimum 99.995% purity, conforming	•	of minimum 99.995% purity,
	to LME specifications and relevant		conforming to LME specifications
	standards: BS EN 1179:2003, ISO 752:2004 - ZN-1 grade, ASTM B6-12 -		and relevant standards: BS EN 1179:2003, ISO 752:2004 - ZN-1 grade,
	LME grade or GB/T 470-2008		ASTM B6-12 - LME grade or GB/T 470-
Quantity:	Min 100 tonnes		2008
Location:	Free-carrier basis delivery in Antwerp,	Quantity:	Min 100 tonnes
	duty-unpaid premium on LME cash	Location:	In any LME-approved warehouse in
Timein au	prices Within 4 weeks		North European locations (Belgium,
Timing: Unit:	USD/tonne		Germany, the Netherlands, Sweden and the UK), premium on top of LME
Payment terms:	Cash, other terms normalized		cash prices
Publication:	Weekly. Tuesday 3-4pm London time	Timing:	Prompt release
		Unit:	USD/tonne
MD 7N 0107	7: CHG:- 00 0059/ :	Payment terms:	Cash, other payment terms
MB-ZN-0103	Zinc SHG min 99.995% ingot premium, fca dp Italy, \$/tonne	Publication:	normalized Weekly. Wednesday 3-4pm London
Quality:	Special High Grade zinc ingot	r dolled flori.	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, ASTM B6-12 - LME grade or GB/T 470-		premium monthly average, delivered UK, £/tonne
	2008	Quality:	Special High Grade zinc ingot
Quantity:	Min 100 tonnes	•	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 1179:2003, ISO 752:2004 - ZN-1 grade,
Timing:	cash prices 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:	Weekly. Tuesday 3-4pm London time	Location:	Delivered customer works basis in
			the UK; all-in price including average of LME GBP cash settlements for the
MB-ZN-0102	Zinc SHG min 99.995% ingot		last ten days of the previous month
	premium, ddp Italy, \$/per tonne		and assessed term premiums for UK
Quality:	Special High Grade zinc ingot		delivery (either delivered customer
	of minimum 99.995% purity,		works or FCA Rotterdam plus
	conforming to LME specifications		transport, warehousing, delivery and
	and relevant standards: BS EN 1179:2003, ISO 752:2004 - ZN-1 grade,	Unit:	financing costs) GBP/tonne
	ASTM B6-12 - LME grade or GB/T 470-	Payment terms:	Cash, other payment terms
	2008	,	normalized
Quantity:	Min 100 tonnes	Publication:	Monthly. 1st working day of the
Location:	Delivered duty paid consumer works		month between 1pm and 2pm
Timing	in Italy, premium on LME cash prices Within 4 weeks	Notes:	London time This partly assessed single number was
Timing: Unit:	USD/tonne	NOTES.	This partly-assessed single number was launched in 2013 as a replacement to
Payment terms:	Cash, other terms normalized		the Thyssenkrupp Metallurgie UK SHG
Publication:	Weekly. Tuesday 3-4pm London time		zinc price, which had been discontinued.



### **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-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: Weekly. Wednesday 3-4pm London

time



# Bulk alloys

# Ferro-chrome

### CHINA

MB-FEC-0011 Ferro-chrome 50% Cr import,

cif main Chinese ports, \$/Ib

contained Cr

Quality: 10-100mm lump. Chrome base 50%,

range 48-52%; carbon base 7%, max 9%; silicon base 3%, max 6%; phosphorous max 0.03%; sulphur

max 0.06%.

Quantity: Min 1,000 tonnes
Location: cif main Chinese ports

Timing: Within 6 weeks
Unit: USD per lb
Payment terms LC at sight

Publication: Weekly. Tuesday 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 between 2pm and

3pm London 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: ap Cnina
CNY/tonne, normalized to Cr 50%

Payment terms: Cash, other payment terms

normalized

Publication: Weekly. Tuesday between 2pm and

3pm London time

**JAPAN** 

MB-FEC-0017 Ferro-chrome high carbon 57-65%

Cr, cif dup Japan, \$/lb

Quality: 10-50mm lump. Cr 57% min, 65%

max; C 6% min, 9% max; Si 2% min, 4% max; P 0.04% max; S 0.05% max

Quantity: Min 100 tonnes

Location: cif Japan

Unit: USD per lb of chrome contained

Payment terms: LC at sight and TT

Publication: Every other week. Thursday 2-3pm

London time

**SOUTHEAST ASIA & EAST ASIA** 

MB-FEC-0018 Ferro-chrome high carbon 57-65%

Cr, cif dup South Korea, \$/lb

Quality: 10-50mm lump. Cr 57% min, 65%

max; C 6% min, 9% max; Si 2% min, 4% max; P 0.04% max; S 0.05% max

Quantity: Min 100 tonnes Location: cif South Korea

Unit: USD per lb of chrome contained

Payment terms: LC at sight and TT

Publication: Every other week. Thursday 2-3pm

London time

**EUROPE** 

MB-FEC-0004 Ferro-chrome high carbon 6-8.5%

C, basis 60-70% Cr, max 1.5% Si, delivered Europe, \$/lb Cr

Quality: Lump. Cr 60-70%, C 6-8.5%, Si

1.5%. High-carbon ferro-chrome of the following brands and origins: Kazakhstan (Kazchrome); Russia (Tikhvin, Chelyabinsk); Turkey (Eti Krom); Sweden (Vargon Alloys);

Albania (Albchrome)

Quantity: Min 24 tonnes

Location: Delivered consumer works Europe
Unit: USD per lb of chrome contained
Payment terms: 30 days, other payment terms

normalized

Publication: Weekly. Tuesday between 2pm and

3pm London time

Notes: This price will be discontinued at the

end of 2021



MP FEC 0004	Farma abanana 1825 a. 1	MD EEC 0007	Farry abvers - 0.100/ C
MB-FEC-0021	Ferro-chrome, high carbon, 6-8.5% C, basis 65-70% Cr, max 1.5% Si, delivered Europe, \$ per lb	MB-FEC-0003	Ferro-chrome 0.10% C, average 65-70% Cr, delivered Europe, \$/lb Cr
	Cr	Quality:	Lump. Cr 65% basis (range 65-70%
Quality:	Lump, Cr 65-70%, C 6-8.5%, Si 1.5%.		Cr), C 0.10% excluding material up to
Quantity:	Min 24 tonnes		0.06% C, Si 1.5% max, P 0.05% max,
Location:	Delivered consumer works Europe		S 0.05% max
Unit:	(other incoterms will be normalized)	Quantity:	Min 25 tonnes
Onit: Payment terms:	USD per lb of chrome contained 30 days, other payment terms	Location: Unit:	Delivered consumer works Europe USD per lb of chrome contained
i dyffierit terris.	normalized	Payment terms:	30 days, other payment terms
Publication:	Weekly, Tuesday at 2-3pm London	r dyrrient terms.	normalized
	time.	Publication:	Fortnightly. Tuesday 2-3pm London time
MB-FEC-0020	Ferro-chrome, high carbon,		
	6-8.5% C, basis 60-64.9% Cr, max 3% Si, cif Europe, \$ per lb Cr	MB-FEC-0001	Ferro-chome low phosphorous, min 65% Cr, max 0.015% P,
Quality:	Lump, Cr 60-64.9%, C 6-8.5%, Si 3%		delivered Europe, \$/lb
Quantity:	max. Min 24 tonnes	Quality:	Lump. Cr 65% min, Si 1% max, C 6-8%, P 0.015% max, Ti 0.05%
Location:	cif major European ports (other	Quantity:	Min 25 tonnes
	incoterms will be normalized)	Location:	Delivered consumer works Europe
Unit:	USD per lb of chrome contained	Unit:	USD per lb of chrome contained
Payment terms:	30 days, other payment terms normalized	Payment terms:	30 days, other payment terms normalized
Publication:	Weekly, Tuesday at 2-3pm London time.	Publication:	Fortnightly. Tuesday 2-3pm London time
		MB-FEC-0016	Ferro-chrome lumpy Cr charge
MB-FEC-0002	Ferro-chrome low carbon, 65% Cr, max 0.06% C, delivered Europe, \$/		quarterly, basis 52% Cr (and high carbon), delivered Europe, \$/lb Cr
	lb Cr	Quality:	Lump. Basis 52% Cr, high carbon
Quality:	Lump. Cr 65% basis (range 60-70%	Quantity:	Min not specified
	Cr), C 0.06% max, Si 1.5% max, P	Location:	Delivered consumer works Europe
Ougntity	0.05% max, S 0.05% max Min 25 tonnes	Unit:	US cents per lb of chrome contained Not specified
Quantity: Location:	Delivered consumer works Europe	Payment terms: Publication:	Quarterly as per industry
Unit:	USD per lb of chrome contained	r ablication.	announcement to Johannesburg
Payment terms:	30 days, other payment terms		Stock Exchange
•	normalized	Notes:	Fastmarkets does not independently
Publication:	Fortnightly. Tuesday between 2pm		assess this price, but publishes it
	and 3pm London time		as a reference. The price is settled
			every quarter by leading ferro-
			chrome producers and consumers
			and is then announced by a leading producer to the Johannesburg Stock
			Exchange. Fastmarkets obtains the
			benchmark number from market
			participants and/or from the official
			•

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announcement.



MB-FEC-0019 Ferro-chrome lumpy Cr

> benchmark indicator, charge basis 52% (and high carbon), Europe, \$/

Quality: Ferro-chrome lumpy, basis 52%

chrome content

US cents per lb of chrome content to Unit:

major European destinations

Publication: Weekly. Tuesday 3pm London time Notes: The price indicates a representative

level for the European ferro-chrome benchmark if it were to be settled on that Friday. It does so by using a proprietary Fastmarkets formula based on the historical relationship between the European ferro-chrome benchmark and Fastmarkets market

Ferro-chrome high carbon 6-8% C, basis 60-65% Cr, max 2% Si,

in-whs Pittsburgh, US cents/lb

data.

**UNITED STATES** 

MB-FEC-0007

Quality:

Quantity:

Location:

Publication:

Unit:

MB-FEC-0015 Ferro-chrome low carbon 0.15%C,

60% Cr min, in-whs Pittsburgh, \$/

lb

Туре: Assessed range US cents per pound Currency: Location: In-whs Pittsburgh

Cr: min. 60.00%, C: 0.15%, Si: max. Quality:

100%

Minimum lot size: 20 tons

Publication: Weekly. Thursday

# Ferro-manganese

### **EUROPE**

**CHINA** 

Quality:

MB-FEW-0002

MB-FEW-0001 Ferro-manganese basis 78% Mn

max, standard 7.5% C, delivered

Europe, €/tonne

Lump in the range of 10-100mm, Quality:

> 90% min. Mn 75% min, 78% max; Si 2% max; C 6% min 8% max; P 0.35%

max: \$ 0.04% max

Cr min: 62.00%, si: max. 3.00%, C: Min 100 tonnes Quantity:

> Delivered consumer works Europe Location:

Unit: EUR/tonne

Payment terms: Cash, other payment terms

normalized

Publication: Weekly. Friday between 2pm and

3pm London time

MB-FEC-0013 Ferro-chrome low carbon 0.05%C,

6.00-8.00%

Min 20 tons

fob Pittsburgh

US cents per pound

Weekly. Thursday

65% Cr min, in-whs Pittsburgh, \$/

Cr min: 65.00%, Ca: 0.05%, Si: max Quality:

1.00%

Quantity: 20 tons

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

max 7% C, in-whs China, yuan/

Lump. Mn 65-72%, Si 4.5% max, C 7.0% max, P 0.4% max, S 0.03% max

Ferro-manganese 65% Mn min,

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 2-3pm London time

MB-FEC-0014 Ferro-chrome low carbon 0.10%C,

62% Cr min, in-whs Pittsburgh, \$/

lb

Type: Assessed range Currency: US cents per pound Location: In-whs Pittsburgh

Cr min 62.00%, C: 0.10%, Si max: Quality:

100%

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-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

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

**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

<u>EUROPE</u>

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





# 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 2-3pm London time

### **INDIA**

MB-SIM-0004 Silico-manganese 65% Mn min,

min 16% Si, fob India, \$/tonne

Quality: Lump. Mn: 65% Si: 16% C: 2%

P:0.35% S:0.03%

Quantity: Min 100 tonnes

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**

Notes:

**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

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

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

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

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

4% max

Quantity: Min 1,000 tonnes

Delivered duty paid China Location:

Unit: Yuan/nickel unit

Payment terms: Cash

Publication: Weekly. Friday 2-3pm UK time Notes: Packaged in 1-tonne big bags

MB-FEN-0002 Nickel pig iron, high-grade NPI

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

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

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

4% max

Min 500 tonnes Quantity: Location: ddp China Unit: Yuan/nickel unit

Payment terms: Cash

Publication: Weekly.Friday 3-4pm UK time

Notes: Packaged in 1-tonne big bags



# 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: Twice weekly. Wednesday and Friday between 2pm and 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: Twice weekly. Wednesday and Friday

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 10 tons
Location: In-whs US
Unit: USD per pound
Publication: Weekly. Thursday

MB-FEO-0002 Ferro-molybdenum 65-70% Mo,

in-whs Pittsburgh, \$/lb

Quality: Mo 65-70%
Quantity: Min 10 tons
Location: In-whs Pittsburgh
USD per pound
Publication: Weekly. Thursday

### **SOUTH KOREA**

MB-FEO-0004 Drummed molybdic oxide, in-

warehouse Busan \$/lb Mo

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

min, Cu 0.5% max, S 0.1% max, P 0.05% max, Pb 0.05% max, C 0.1% max. All other elements should each be 0.10% max, with the exception of

Si, which should be 6% max.

Quantity: 10 tonnes (+/- 2%)

Location: In-whs Busan

Timing: Spot

Unit: USD per lb Mo

Payment terms: Cash; other terms normalized
Publication: Twice weekly. Wednesday and Friday

2-3pm London time

# **Titanium**

### **EUROPE**

MB-FET-0001 Ferro-titanium 70% Ti, max 4.5%

Al, ddp Europe, \$/kg Ti

Quality: Lump. Ti 70%, Al 4.5%, V 3%, O2 2%,

C 0.2%, S 0.05%, P 0.05%, Si 0.5%, N 0.5%, Sn 0.5%, Ni 0.05%, Cr 0.5%, Pb

0.01%, Bi 0.01%

Quantity: Min 10-tonne lots (+/- 2%)

Location: ddp Europe
Unit: USD per ka Ti

Payment terms: Cash (other payment terms

normalized)

Publication: Weekly. Wednesday 2-3pm London



# **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 Min 20 tonnes (+/- 2%) Quantity:

Location: cif Rotterdam and Baltimore, duty

Unit USD per mtu WO3

Payment terms: Cash. Delivered up to three months

> in advance considered spot business Weekly. Friday 2-3pm London time

Publication:

MB-W-0002

Tungsten concentrate 65% WO3,

in-whs China, yuan/tonne Powder. WO3 65% min, S 0.8% max, Quality:

> 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

Min 50 tonnes Quantity:

Location: China Unit: CNY/tonne Payment terms: Cash or 30 days

Publication: Weekly. Wednesday 2-3pm London

time

# Ferro-tungsten

**EUROPE** 

Ferro-tungsten basis 75% W, in-MB-FEU-0001

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

Min 3-tonne lots Quantity: Location: dup Rotterdam Unit: USD per kg W

Cash, other payment terms Payment terms:

normalized

Publication: Twice weekly. Wednesday and Friday

2-3pm London

Packaged in 1-tonne big bags Notes:

**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

Min 5 tonnes Quantity:

fob China main ports Location:

USD per kg W

Payment terms: Cash, other terms normalized Publication: Weekly. Wednesday 2-3pm London

### **CHINA**

MB-W-0003

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

Quality: White finely divided free-flowing

> crystals. WO3 88.5% min, Al 0.0005% max, As 0.001% max, Bi 0.0001% max, Ca 0.001% max, Cd 0.001% max, Co 0.005% max, Cr 0.001% max, Cu 0.0005% max, Fe 0.001% max, K 0.001% max, Mn 0.0005% max, Mg 0.0005% max, Mo 0.002% max, Na 0.001% max, Ni 0.0005% max, P 0.0007% max, Pb 0.0001% max, S 0.0008% max, Sb 0.0002% max, Si 0.001% max, Sn 0.0002% max, Ti 0.0005% max, V

0.001% max

Quantity: Min 17 tonnes

Location: Fob China main ports Unit: USD per mtu WO3 Payment terms: Cash or 30 days

Publication: Weekly. Wednesday 2-3pm London

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## Vanadium

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

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Publication:

Weekly, Thursday, between 2pm and

3pm London time



## Ferro-niobium

Ferro-niobium 63-67%, delivered MB-FN-0001

consumer works Europe, duty

paid, \$/kg Nb

10-50mm lump. Nb 63-67%, C 0.2% Quality:

max, Si 3.0% max, Al 1-2%, S 0.15%

max, P 0.20% max, Ta 0.5% max

Quantity: Minimum 5-tonne lots

Location: Delivered consumer works Europe

Unit: USD per kg Nb

Payment terms: Cash. Other payment terms

normalized

Publication: Weekly, Wednesday 2-3pm London

Notes: Packaged in 250kg drums or one-

tonne big bags

### Ores

### **Bauxite**

#### **AFRICA**

MB-BX-0014 Bauxite, fob Kamsar, Guinea, \$/

Quality: Total alumina 48.5% min, 53% max;

> total silica 1.20% min, 2.10% max; reactive silica 3.2% max; Fe 22% max; Ti 4% max; organic carbon 0.15% max; moisture content 5.5%

min, 7.5% max

Quantity: Minimum 20,000 tonnes

Location: fob Kamsar (other ports normalized)

Timing: Within two months Unit: USD per dmtu

Payment terms: 30 days after loading (other

payment terms normalized)

Publication: Monthly. Third Thursday of the

month 2-3pm London time

Notes: Bulk carrier

#### **LATIN AMERICA**

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

dmtu

Total alumina 50.5% min, 55% max; Quality:

> total silica 4.3% min, 5.6% max; reactive silica 4% min, 5% max; Fe 12% max; Ti 1.5% max; moisture

content 9% min, 10% max

Min 20,000 tonnes Quantity:

Location: fob Trombetas (other ports

normalized)

Timing: Within two months USD per dmtu Unit:

Payment terms: 30 days after loading (other

payment terms normalized)

Publication: Monthly. Third Thursday of the

month between 2pm and 3pm

London time

Notes: Bulk carrier



## Chrome ore

#### **AFRICA**

MB-CHO-0003 Chrome ore South Africa UG2

concentrates index basis 42%, cif

China, \$/tonne

Up to 1mm (95% min); Cr base Quality:

> 42%, range 40-43%; Silica max 6%; Alumina max 18%; MgO max 15%; P max 0.01%; S max 0.01%; chrome-

iron ratio 1.2:1 min

Quantity: Min 2,000 tonnes

Location: cif China Unit USD per tonne

Payment terms: Payment at sight

Publication: Weekly. Tuesday 3pm London time Notes:

Bulk (container deals normalized)

## Manganese ore

#### **SOUTH AFRICA**

MB-MNO-0002 Manganese ore 37% Mn, fob Port

Elizabeth, \$/dmtu

Quality: 5.5-75mm lump. Mn base 37%, range

> 35-39%; Fe base 5%, max 10%; Silica base 5.5%, max 12%; P base 0.025%, max 0.160%; alumina base 0.2%, max 2%. Moisture content base 4%, max 12%

Min 5,000 tonnes Quantity:

fob Port Elizabeth (South Africa) Location:

Timing: Within nine weeks

Unit: US\$ per dry metric tonne unit

Payment: Cash or equivalent Publication: Friday, 3pm London

#### 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 44% Mn, cif

Tianjin, \$/dmtu

Quality: 5.5-75mm lump. Mn base 44%, range

42-48%; Fe base 5%, max 16%; silica base 11%, max 12%; P base 0.10%, max 0.16%; alumina base 5%, max 14%. Moisture base 4%, max 12%

Min 5,000 tonnes Quantity:

Location: cif Tianjin - normalized for other

mainland China sea ports

Timing: Within nine weeks

Unit: US\$ per dry metric tonne unit, cif

Tianjin, China

Payment: Cash or equivalent Publication: Friday, 3pm London

MB-MNO-0003 Manganese ore index 37% Mn, cif

Tianjin, \$/dmtu Quality: 5.5-75mm lump. Mn base 37%, range

> 35-39%; Fe base 5%, max 10%; Silica base 5.5%, max 12%; P base 0.025%, max 0.160%; alumina base 0.2%, max 2%. Moisture content base 4%,

max 12%

Min 5,000 tonnes Quantity:

Location: cif Tianjin - normalized for other

China mainland sea ports

Within nine weeks Timing:

US\$ per dry metric tonne unit, Unit:

Payment: Cash or equivalent Publication: Friday, 3pm London



MB-MNO-0005 Manganese ore port index, base

> 44% Mn, range 42-48%, fot Tianjin China, yuan/dmtu

Quality: 5.5-75mm lump. Mn base 44%, range

> 42-48%; Fe base 5%, max 16%; silica base 11%, max 12%; P base 0.10%, max 0.16%; alumina base 5%, max

14%. Moisture base 4%, max 12%

Quantity: Min 1,000 tonnes

Location: fot Tianjin - normalized for other

China mainland sea ports

Timing: **Immediate** 

Unit: CNY per dry metric tonne,

Payment: Cash or equivalent Publication: Friday, 3pm London

MB-MNO-0004 Manganese ore port index, base

> 37% Mn, range 35-39%, fot Tianjin China, yuan/dmtu

Quality: 5.5-75mm lump. Mn base 37%, range

> 35-39%; Fe base 5%, max 10%; Silica base 5.5%, max 12%; P base 0.025%, max 0.160%; alumina base 0.2%, max 2%. Moisture content base 4%,

max 12%

Min 1,000 tonnes Quantity:

Location: fot Tianjin - normalized for other

China mainland sea ports

Timing: **Immediate** 

Unit: Yuan per dry metric tonne unit

Payment: Cash or equivalent Publication: Friday, 3pm London MB-NIO-0002 Laterite ore with 1.5% Ni content,

cif China, \$/tonne

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

content 30-35%

Quantity: 50,000 tonnes cif China Location: Unit USD per tonne

Payment terms: Cash, other payment terms

normalized

Publication: Weekly. Friday 2-3pm London time

### Nickel ore

#### **CHINA**

MB-NIO-0001 Nickel ore 1.8% basis 15-20% Fe

> water content: 30-35% Si:Mg ratio<2 lot size 50,000 tonnes, cif

China, \$/tonne

1.8% Ni, 15-20% Fe, Water content Quality:

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



## Minor metals

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

# **Antimony**

#### **CHINA**

MB-SB-0003 Antimony MMTA standard grade

II, ddp China, yuan/tonne

Quality: Ingot. MMTA standard Grade II. Sb

99.65% min, As 0.1% max, Pb 0.2% max, Se 0.002% max, Cd 0.002% max, Sn 0.005% max, Te 0.005% max, Bi 0.01% max, Cu 0.02% max,

Fe 0.02% max

Quantity: 1 tonne

Location: Delivered duty paid China

Unit: CNY/tonne Payment terms: Cash

Publication: Weekly. Wednesday 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

Timing: Prompt, within 10 calendar days

Unit: USD per tonne

Payment terms: Cash, other payment terms

normalized

Publication: Twice weekly. Wednesday and Friday

2-3pm London time

Notes: Original producer packaging, on

pallets or in wooden cases

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

Rotterdam, \$/tonne

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

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

max, Se 50ppm max, Cu 200ppm max, Fe 200ppm max, Pb 0.2% max

Location: In-whs Rotterdam

Timing: Prompt, within ten calendar days

Unit: USD/tonne

Payment terms: Cash, other payment terms

normalized

Publication: Twice weekly. Wednesday and Friday

2-3pm London time

Notes: Original producer packaging, on

pallets or in wooden cases

## **Arsenic**

#### **EUROPE**

MB-AS-0001 Arsenic 99.7% min As, in-whs

Rotterdam, \$/lb

Quality: Lumpy, fist-sized and smaller.

As 99% min, no other elements

specified

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

Payment terms: Cash, other payment terms

normalized

Publication: Twice weekly. Wednesday and Friday

2-3pm London

Notes: Original producer poly-lined steel

drums, each 50kg net, in accordance with the IMDG code and RID & ADR

rules



## **Bismuth**

#### **EUROPE**

MB-BI-0001 Bismuth 99.99% Bi min, in-whs

Rotterdam, \$/lb

Quality: Ingot. Bi 99.99%, no other elements

specified

Quantity:Min 1 tonneLocation:RotterdamTiming:Prompt release

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
Unit: US cents per lb

Payment terms: Cash, other payment terms

normalized

Publication: Twice weekly. Wednesday and Friday

2-3pm London

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
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
Unit: USD per tonne

Payment terms: Cash, other terms normalized
Publication: Weekly. Friday between 2pm and

3pm London time

Notes: Steel drums of uniform net weight,

usually 300kg

#### **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

MB-CO-0005 Cobalt standard grade, in-whs

Rotterdam, \$/lb

Quality: Min 99.8% cobalt metal; standard specifications of the following brands

in original packaging: Katanga cathodes, Chambishi broken cathodes, CTT broken cathodes, Minara briquettes, Ambatovy briquettes, Norilsk grade 1 and grade

2 cut cathodes (production since

January 2019)

Quantity: Minimum 1 tonne, maximum 100

tonnes

Location: Rotterdam, in-warehouse 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

\* 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'.

#### **EUROPE**

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

Quality: Min 99.8% cobalt metal; standard

specifications of the following brands in original packaging: Nikkelverk cut cathodes, Vale cobalt rounds, SMM cut cathodes, Jinchuan cut cathodes, Jiangsu (KLK) broken cathodes, Sherritt briquettes

Quantity: Minimum 1 tonne, maximum 100

tonnes

Location: Rotterdam, in-warehouse 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



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. Wednesday by 3pm London

time.

MB-GER-0001 Germanium dioxide, in-whs China,

\$/kg

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

White powder

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

Unit: USD/kg

Hafnium

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

## Germanium

#### **CHINA**

MB-GER-0004 Germanium 99.999% Ge min, in-

whs China, yuan/kg

Quality: Ingots with no specific dimension or

weight. Ge 99.99% min, 50ohm/cm;

Quantity: Min 50 kg
Location: In-whs China
Unit: CNY/kg

Payment terms: Cash, other payment terms

normalized

Publication: Weekly. Wednesday by 3pm London

time

#### no other elements specified MB-ZIR-0003

Quality:

**GLOBAL** 

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

Hf+Zr 99.8% min; Zr 1%. Uniform lots

of 5kg max cut ingot, plate, sheet or

or sky max cut ingot, plate, sneet

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'

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

### EUROPE

MB-GER-0003 Germanium 99.99% Ge, in-whs

Rotterdam, \$/kg

Quality: Min 100 kg (+/- 2%)

Quality: Ingot. Ga 99.999%, no other

elements specified

Location: In-whs Rotterdam Timing: Prompt release

Unit: USD/kg

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



### 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

Unit: USD/kg

Payment terms: Cash, other terms normalized

Publication: Twice-weekly. Wednesday and Friday

2-3pm London time
Notes: Original producer wooden cases

**CHINA** 

MB-IN-0003 Indium 99.99% ex-works China

CNY/kg

Quality: 500g ingot. In 99.995% min, Cu

0.0005% max, Pb 0.0005% max, Zn 0.0005% max, Cd 0.0005% max, Fe 0.0005% max, Ti 0.0005% max, Sn 0.0010% max, As 0.0005% max, Al

0.0005% max

Quantity: Min 1kg

Location: Ex-works China
Unit: CNY per kg
Payment terms: Cash on spot

Publication: Weekly. Wednesday 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 Ingot. Mg 99.9% min

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

## 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



#### **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

Timing: Spot, within on Unit: USD per tonne Payment terms: TT or LC

Publication: Weekly. Friday 2-3pm London time

## Mercury

#### **GLOBAL**

MB-HG-0001 Mercury 99.99%, in-whs global locations, \$/flask

Quality: Free-flowing liquid. Hg 99.99%, no

other elements specified

Quantity: 50 flasks with zero tolerance

Location: Global

Timing: Within one calendar month

Unit: USD per flask

Payment terms: Cash, other terms normalized

Publication: Fortnightly. Friday between 2pm and

3pm London time

Notes: 34.5kg UN-approved steel flasks

### 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
Notes: Uniform IMDG-approved containers, individually sealed and numbered

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

Quality: White, free flowing powder/crystal

rhenium pellets, Re 99.9% min

Quantity: Min 10 kg (+/-2%)
Location: Rotterdam, duty unpaid
Timing: Within one calendar month

Unit: USD/lb

Payment terms: Cash, other terms normalized
Publication: Fortnightly. Friday by 3pm London

time

Notes: In uniform IMDG approved

containers, individually sealed and

numbered

### Selenium

#### **EUROPE**

MB-SE-0002 Selenium 99.5% Se min, in-whs

Rotterdam, \$/lb

Quality: Powder of minus 200 mesh or

granules sizing 1-5 mm. Se 99.5% min, no other elements specified

Quantity: Min 250kg (+/-2%)
Location: In-whs Rotterdam
Timing: Prompt release

Unit: USD/lb

Payment terms: Cash, other terms normalized
Publication: Twice-weekly. Wednesday and Friday

2-3pm London time

Notes: Original producer packaging,

normally 25kg net



**CHINA** 

MB-SE-0003 Selenium 99.9% Se min, in-whs

China, yuan/kg

Powder of minus 200 mesh or Quality:

granules size 1-5 mm. Se 99.9% min,

no other elements specified

Quantity: Min 100 kg Location: In-whs China 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

Lump. Si 98.5% min, Fe 0.5% max, Al Quality:

0.5% max, Ca 0.3% max

Quantity: Min 20 tonnes

fob China main ports Location:

USD/tonne Unit

Payment terms:

**UNITED STATES** 

Publication: Weekly. Friday 2-3pm London time

Silicon

**EUROPE** 

MB-SI-0001 Silicon grade 4-4-1 99% Si min, in-

whs Rotterdam, €/tonne

10-100mm lump 90% min. Si 99% Quality:

min, Fe 0.4% max, Al 0.4% max, Ca

0.1% max

Min 25 tonnes (+/- 2%) Quantity: In-whs Rotterdam Location:

EUR/tonne Unit:

Payment terms: Cash, other terms normalized Publication: Weekly. Friday between 2pm and

3pm London time

Notes:

1 tonne big bag

MB-SI-0004 Silicon grade 5-5-3 98.5% Si min,

in-whs Rotterdam, €/tonne

10-100mm lump. Silicon 98.50%, iron Quality:

0.50% max, aluminium 0.50% max,

calcium 0.30% max

Quantity: Min 25 tonnes (+/- 2%) In-whs Rotterdam Location:

Prompt

Timing: 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 MB-SI-0003 Silicon, ddp US, US cents/lb

Quality: Si: 98.50%, Fe: 0.50%, Al: 0.50%, Ca:

0.30%

Min 20 tons Quantity: Location: Delivered US Unit: US cents per lb

Publication: Weekly, Thursday 4-5pm New York

time

**Tantalum** 

**CHINA** 

MB-TA-0001 Tantalite, basis min 25% Ta2O5,

cif China

Quality: Lump 0-10mm grain concentrate;

Ta2O5 25% min; Nb2O5 15% min;

U3O8+ThO2 0.10% max

Minimum 10-tonne lots Quantity: 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.

Weekly; Fridays 2-3pm London time. Publication:





## **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 Unit: USD/kg

Payment terms: Cash, other terms normalized
Publication: Twice-weekly. Wednesday and

n: 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

### Cobalt sulfate

#### **CHINA**

MB-CO-0017 Cobalt sulfate 20.5% Co basis,

exw China, yuan/tonne

Quality: Crystal, feed from cobalt ores &

concentrates, cobalt intermediates, such as crude cobalt hydroxide (materials produced from cobalt scrap are excluded). Co 20.5% basis, Ni 0.001% max, Cu 0.001% max, Fe

0.001% max, Zn 0.001% max

Quantity: Min 1 tonne
Timing: Within 30 days
Unit: CNY/tonne

Payment terms: On bank acceptance (other terms

normalized)

Publication: Twice weekly. Wednesday and Friday,

2-3pm London time

## Cobalt hydroxide

### **CHINA**

MB-CO-0020 Cobalt hydroxide index 30% Co

min, cif China, \$/lb

Quality: Units produced from large-scale

mining activity, with the following chemical composition: Co 30% min, Mn 6.5% max, Mg 6.5% max, S 5% max; Cd 100ppm max; limited concentration of natural radioactivity: GB20664-2006 (suitable for customs clearance into

China).

Quantity: Min 50 tonnes (cobalt content)
Location: cif China (other terms normalized)

Timing: 45 days
Unit: \$/Ib

Payment terms: Letter of credit at sight, current price

month ('M')

Publication time: Between 2pm and 3pm London time,

Friday, weekly

Note: Where the pricing day falls on a

public holiday in England and Wales, the index will be published on the closest working day preceding that

date.



MB-CO-0021 Cobalt hydroxide payable

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

end)

Quality: Units produced from large-scale

mining activity, with the following chemical composition: Co 30% min, Mn 6.5% max, Mg 6.5% max, S 5% max; Cd 100ppm max; limited concentration of natural radioactivity: GB20664-2006 (suitable for customs clearance into

China)

Quantity: Min 50 tonnes (cobalt content)
Location: cif China (other terms normalized)

Timing: 45 days

Unit: % payable of Fastmarkets' standard-

grade cobalt price (low end, \$/lb)

Payment terms: Letter of credit at sight, current and

following price month ('M' and 'M+1')

Publication: Twice weekly, Wednesday and Friday,

3pm London time.

Notes: Where the publication day falls

on a public holiday in China, the assessment will be rolled over from

previous pricing session.

MB-LI-0040 Lithium hydroxide monohydrate

56.5% LiOH.H<sub>2</sub>O 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.H2O 56.5% min; CO2 <0.35%; Ca 0.005% max; SO4 0.01% max; CI- 0.002%

max

Quantity: Min 5 tonnes

Location: China ex-works, VAT included

Timing: 30 days
Unit: CNY/tonne

Publication: Weekly. Thursday by 4pm London

#### EAST ASIA, SOUTHEAST ASIA

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: Weekly. Thursday by 4pm London

CHINA

Lithium

MB-LI-0036 Lithium carbonate 99.5% Li<sub>2</sub>CO<sub>3</sub> min, battery grade, spot price

range exw domestic China, yuan/

tonne

MB-LI-0042 Lithium carbonate index, min

99.5% Li<sub>2</sub>CO<sub>3</sub>, battery grade, exw

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: China ex-works, VAT included

Timing: 30 days
Unit: CNY/tonne

Publication: Weekly. Thursday by 4pm London Notes: Index and assessment. The toppage

Index and assessment. The tonnageweighted index is intended to run in parallel with the existing assessment. MB-LI-0033

Lithium hydroxide monohydrate

56.5% LiOH.H2O min, battery grade, spot price cif China, Japan

& Korea, \$/kg

Quality: Powder, accepted by buyer for use

in battery applications and with the chemical composition LiOH.H2O 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 Form: Powder

Publication: Weekly. Thursday by 4pm London



MB-LI-0027 Lithium carbonate 99.5% Li<sub>2</sub>CO<sub>3</sub> min, battery grade, contract

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

**EUROPE & US** 

MB-LI-0023 Lithium carbonate 99.5% Li<sub>2</sub>CO<sub>3</sub>

min, battery grade, spot 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 5 tonnes
Location: ddp US & Europe

Timing: 30 days Unit: USD/kg

Publication: Weekly. Thursday 3-4pm London time

MB-LI-0031 Lithium hydroxide monohydrate

56.5% LiOH.H₂O 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.H2O 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

Timing: Up to 1 year Unit: USD/kg

Publication: Monthly. Last Wednesday of the

month, 3-4pm London time

MB-LI-0025 Lithium hydroxide monohydrate

56.5% LiOH.H2O min, battery grade, spot price ddp Europe and

US, \$/kg

Quality: Powder, accepted by buyer for use

in battery applications and with the chemical composition LiOH.H2O 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 & Europe

Timing: 30 days
Unit: USD/kg

Publication: Weekly. Thursday 3-4pm London

time

MB-LI-0022 Lithium carbonate 99.5% Li<sub>2</sub>CO<sub>3</sub>

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, 3-4pm London time



MB-LI-0024 Lithium hydroxide monohydrate

56.5% LiOH.H2O 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.H2O 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
Timing: Up to 1 year
Unit: USD/kq

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 China
Timing: Within 7 days
Unit: CNY/tonne

Payment terms: Bank acceptance (other payments

normalized)

Publication: Weekly. Friday 3-4pm 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

#### **EAST ASIA, SOUTHEAST ASIA**

MB-NI-0246 Nickel sulfate, cif China, Japan

and South 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 China, Japan, Korea

(other ports normalized)

Timing: Within 60 days Unit: USD/tonne

Publication: Monthly, first working day of each

month, 4pm London time

MB-NI-0247 Nickel sulfate premium, cif China,

Japan and South 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 China, Japan, and

Korea, on top of monthly average

LME nickel cash price

Timing: Within 60 days
Unit: USD/tonne

Publication: Monthly, first working day of each

month, 4pm London time



## Scrap

## Copper scrap

#### **CHINA**

MB-CU-0512 No1 copper material, RCu-2A,1B

(candy/berry), cif China, LME/ Comex discount, US cents per lb

Quality: Definitions of RCu-2A and RCu-1B as

stipulated in China's GB per tonne 38471-2019 document. Both RCu-2A and RCu-1B require a metal recycling

rate of not less than 97%.

Quantity: Min 25 tonnes

Location: cif Chinese ports (Shanghai, Guangdong,

Zhejiang, Tianjin, Shandong)

Timing: Within 5 weeks
Unit: US cents/lb

Payment: Cash against documents, letter of

credit, telegraphic transfer; other

terms normalized

Publication: Monthly. Last Monday of each

month 3-4pm London time

#### MB-CU-0360 No2

No2 copper material, RCu-2B (birch/cliff), cif China, LME/

Comex discount, US cents per lb

Quality: Minimum copper content 99% with a

min recovery rate of 94%. Clean copper tube, belt, plate, rod, wire and other shapes. Includes burned copper wires of 1.6mm and above, attachments and surface plating. Coated material should consist no more than 5% of the total mass of No 2 copper material. Particles of non-metallic contamination in the form of dust, sludge, crystalline salts, metal oxides and fiber should not exceed 2mm in diameter, and these particles should not exceed 0.1% of the

total content, as defined by China's State Administration for Market Regulation.

Quantity: Min 25 tonnes

Location: cif Chinese ports (Shanghai, Guangdong,

Zhejiang, Tianjin and Shandong)

Timing: Within 5 weeks
Unit: US cents/lb

Payment: Cash against documents, letter of

credit, telegraphic transfer; other

terms normalized

Publication: Monthly. Last Monday of each

month 3-4pm London time

## Aluminium scrap

#### UNITED KINGDOM

MB-AL-0282 Aluminium scrap baled old rolled,

LME discount, delivered consumer

UK, £/tonne

Quality: Wrought scrap of alloyed and

unalloyed aluminium. Maximum 2% calcareous and other non-metallic

substances

Quantity: Min 5 tonnes

Location: Delivered consumer works, UK

Timing: Within 4 weeks
Unit: GBP/tonne

Payment terms: Net monthly account

Publication: Weekly. Wednesday 3-4pm London

time

MB-AL-0007 Aluminium scrap cast wheels,

delivered consumer UK, £/tonne

Quality: Cast aluminium wheels
Quantity: Min 5 tonnes

Location: Delivered consumer works, UK

Timing: Within 4 weeks
Unit: GBP/tonne

Payment terms: Net monthly account

Publication: Weekly. Wednesday 3-4pm London

MB-AL-0009 Aluminium scrap clean HE9

extrusions, delivered consumer

UK, £/tonne

Quality: Clean HE9 extrusion scrap. Cu

0.1% max, Zn 0.1% max, free from deleterious materials, oil, grease, non-metallic coatings max 1%

Quantity: Min 5 tonnes

Location: Delivered consumer works, UK

Timing: Within 4 weeks
Unit: GBP/tonne

Payment terms: Net monthly account

Publication: Weekly. Wednesday 3-4pm London



MB-AL-0010	Aluminium scrap commercial cast, delivered consumer UK, £/tonne	MB-AL-0015  Quality:	Aluminium scrap group 7 turnings, delivered consumer UK, £/tonne Clean, uncorroded aluminium
Quality:	Whole or broken aluminium castings of all kinds	7.	borings, millings and turnings of two or more specified alloys. Zn 7.5%
Quantity:	Min 5 tonnes		max, Fe fines 3% max, oil/moisture/
Location:	Delivered consumer works, UK		free iron 10% max
Timing:	Within 4 weeks	Quantity:	Min 5 tonnes
Unit:	GBP/tonne	Location:	Delivered consumer works, UK
Payment terms:	Net monthly account	Timing:	Within 4 weeks
Publication:	Weekly. Wednesday 3-4pm London	Unit:	GBP/Tonne
		Payment terms:	Net monthly account
NAD AL 0011	Al	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 sheet scrap. May contain proportion	MB-AL-0014	Aluminium scrap group 1 pure 99% & litho, delivered consumer UK, £/
	of one of more aluminium alloys, none of which shall contain more	Ouglitur	tonne
	than 0.1% Cu and 0.1% each of Pb,	Quality:	New, uncoated, unalloyed aluminium sheet, wire and cable scrap, not
	Zn, Sn, antimony, bismuth. Mg 0.5%		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
MB-AL-0012	Aluminium scrap commercial	Publication:	Weekly. Wednesday 3-4pm London
	turnings, delivered consumer UK,		time
	£/tonne		
Quality:	Clean, uncorroded aluminium	N/D // 00/0	
	borings, millings and turnings of two	MB-AL-0018	Aluminium scrap loose old rolled
	or more specified alloys. Zn 2% max,		cuttings, delivered consumer UK,
	Fe fines 3% max, oil/moisture/free iron 10% max	Ouglitur	£/tonne
Quantity:	5 tonnes	Quality:	Wrought scrap of alloyed and unalloyed aluminium. Maximum 2%
Location:	Delivered consumer works, UK		calcarious and other non-metallic
Timing:	Within 4 weeks		substances
Unit:	GBP/tonne	Quantity:	Min 5 tonnes
Payment terms:	Net monthly account	Location:	Delivered consumer works, UK
Publication:	Weekly. Wednesday 3-4pm London	Timing:	Within 4 weeks
	time	Unit:	GBP/tonne
		Payment terms:	Net monthly account
		Publication:	Weekly. Wednesday 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-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

MB-AL-0008

Aluminium scrap cast, delivered

consumer Europe, €/tonne

Quality: Whole or broken aluminium castings

of all kinds. Oil and grease not to

total more than 2%

Quantity: Min 25 tonnes

Location: Delivered consumer works, Europe

Timing: Within 4 weeks
Unit: EUR/tonne

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

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

8-11%, Fe 0.6-1.1%, Mn 0.55% max, Ni 0.55% max, Zn 1.2% max, Cr 0.15% max, others each 0.05% max/total

0.25% max

Quantity: Min 25 tonnes

Location: Delivered consumer works in Europe,

most consumers in Northern Europe,

in particular Germany

Timing: Within 2 months

Unit: EUR/tonne
Payment terms: 30 days, other payment terms

normalized

Publication: Weekly. Friday 3-4pm London time

Notes: Full methodology available here

MB-AL-0016

Aluminium scrap LM24 pressure

diecasting ingot, delivered consumer UK, £/tonne

Quality: Ingot. Cu 3-4%, Mg 0.1% max, Si 7.5-

9.5%, Fe 2% max, Mn 0.5% max, Ni

0.5% max, Zn 3% max.

Quantity: Min 5 tonnes

Location: Delivered consumer works, UK

Timing: Within 2 months
Unit: GBP/tonne

Payment terms: Net monthly account

Publication: Weekly. Wednesday 3-4pm London

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MB-AL-0017 Aluminium scrap LM6/LM25

gravity diecasting ingot, delivered

consumer UK, £/tonne

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

13%, Fe 0.06% max, Mn 0.5% max, Ni 0.1% max, Zn 0.1% max, Pb 0.1% max, Tin 0.05% max, Ti 0.2% max. LM25 - Cu 0.2%, Mg 0.2-0.4%, Si 6.5-7.5% max, Fe 0.2% max, Mn 0.1%

max, Zn 0.1% max

Quantity: Min 5 tonnes

Location: Delivered consumer works, UK

Timing: Within 2 months Unit: GBP/tonne

Payment terms: Net monthly account

Publication: Weekly. Wednesday 3-4pm London

time

## 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 3-4pm 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 3-4pm London

time



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