

Methodology and price specifications – March 2024



# Mission statement

Fastmarkets Metals and Mining is the leading global provider of pricing intelligence for the non-ferrous metal, steel, steelmaking raw materials, industrial minerals, ferrous and non-ferrous scrap markets, producing price assessments with Fastmarkets MB and Fastmarkets AMM since 1913 and 1882 respectively. The research arm of Fastmarkets Metals and Mining provides forecasts and analysis based on price assessments from Fastmarkets MB and Fastmarkets AMM. Established in 1991, we have provided regular, insightful analysis and forecasts to businesses around the world to help them make informed and strategic decisions and recommendations. 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 methodologies is maintained. We do not have a vested interest in the markets on which we report. Within the research function of Fastmarkets, we stress our ability to operate independently of the rest of the Group, and the existence of formal rules of confidentiality that exist between the pricing and news providers within the Group and the research and consulting functions.

# Introduction

Fastmarkets' reporters and analysts are required to abide by a code of conduct and clear pricing procedures during their market reporting and pricing activities. Fastmarkets is completely independent and has no vested commercial interest in any of the markets it prices. We are the world's largest dedicated price reporting teams for both metals and forest products. We have offices in London, New York, Boston, San Francisco, Eugene, Charlottesville, Atlanta, Pittsburgh, Beijing, Shanghai, Hong Kong, Singapore, Melbourne, Sao Paolo, Mumbai, Brussels, Helsinki, Dnipro and Istanbul. The aim of this document is to provide a clear overview of Fastmarkets' forecasting methodology and specifications for the prices forecast. If you have any questions, please contact Fastmarkets Executive VP Analytics Dan Klein at **dan.klein@fastmarkets.com** for metals, Fastmarkets Metals and Mining research leader, Kim Leppold, at kim.leppold@fastmarkets.com about our forecast products.



# Fastmarkets' forecasting methodology

#### **Base metals**

Fastmarkets provides a dynamic, bottom-up and unbiased approach to short-term (<2-year) monthly and quarterly price forecasting.

The methodological model takes a three-way approach to account for:

- 1. supply-demand fundamentals
- 2. underlying costs & implied margins
- 3. market sentiment

This framework enables the analysts to determine the key but changing drivers of price movements in the past and future.

To source the information to prepare our price forecasts, forecasters conduct both extensive desk-based research as well as primary research; the latter being more heavily weighted toward our near-term (<3 month) view.

Fastmarkets' forecasting methodology includes drawing on expertise from our in-house analysts with forecasting experience of up to 20-25 years who rely heavily on the intelligence gathering and data analytics insight of our extensive editorial teams.

We supplement this valuable network with our proprietary databases, which focus on the underlying physical market movements that drive prices and the archive of spreads between price series that instruct and contextualize our understanding of margins.

These are supported by exhaustive third-party data and economic forecasting services, which help us to build the fundamental drivers of the future.

Our analysts access extensive existing relationships across the industry through face time and written interviews, and take into account the opinions provided to our price reporters and data analytics team. This cross-referencing approach helps us to value the intelligence, generate insight and help in our mission to illuminate markets.

#### Modeling Fastmarkets' forecasts

Generating our forecasts is an involved process that combines macroeconomic theory, market insight,

statistical modeling and machine learning. It is this combination of expert knowledge and cutting-edge data modeling which generates our trusted forecasts. They also allow deeper insight into the fundamental workings of a market and elicit data patterns that give insight and relative weighting of key market factors that drive price direction, such as the Chinese Purchasing Manager's Index. These insights and their statistical robustness allow our expert analysts to improve forecast accuracy and reliability and to inform their commentary along with traditional macro-economic and sentiment analysis.

Our data collection and process:

- Include price benchmarks which refer to prices used in industrial contracts - and prices that are viewed as trendsetters for a particular region or a product group
- Bespoke approach to each price forecast
- Draw on a comprehensive set of macro-economic data
- Machine learning approach to find the best model candidate and predictions with rigorous checks on model approach and output
- Models undergo periodical review
- Rigorous approval process

#### Base metals price, premium and index forecasts

Crucial to the results of our base metals price forecasts is a detailed analysis of distinct product-specific factors:

- Fastmarkets' internal forecasts for Base metals production and consumption in individual countries or regions
- Estimated inventory levels in the supply chain
- Net trade flows and trade policy changes
- Projected performance of major base metals consuming sectors, such as construction, automotive, mechanical engineering, metal goods, domestic appliances and the energy sectors, taking into account the share of a particular sector
- Market sentiment, including technical analysis and analysis of news/data releases.
- Analysis of speculative positioning on metal exchanges and changes in speculative positioning.
- Seasonal trends and patterns.
- Correlation with other financial assets, including the other components of the base metals complex and the broader commodities asset class, currency markets and equity markets.



Aluminium P1020A (MJP) spot premium, cif Japan, \$/tonne

# Forecast list

MB-AL-0004	Aluminium P1020A premium, in- whs dp Rotterdam, \$/tonne
Quality:	P1020A or 99.7 % Minimum Al purity (Si 0.10% max, Fe 0.20% max). Ingot
Quantity:	Min 100 tonnes
Location:	In-warehouse Rotterdam duty-paid, premium on top of LME cash prices
Unit:	USD/tonne
Timing:	Within 4 weeks
Payment terms:	Cash against documents (7 days after bill of lading date); other terms normalized
Publication:	Twice weekly. Tuesday and Friday 4pm London
MB-AL-0020	Aluminium P1020A premium, ddp
MB-AL-0020	Midwest US, US cents/lb
<b>MB-AL-0020</b> Quality:	• • •
	Midwest US, US cents/Ib London Metal Exchange specification P1020A or 99.7% minimum Al purity (silicon 0.10% max, iron 0.20% max, zinc 0.03%, gallium 0.04%,
Quality:	Midwest US, US cents/Ib London Metal Exchange specification P1020A or 99.7% minimum Al purity (silicon 0.10% max, iron 0.20% max, zinc 0.03%, gallium 0.04%, vanadium 0.03%)
Quality: Location:	Midwest US, US cents/Ib London Metal Exchange specification P1020A or 99.7% minimum Al purity (silicon 0.10% max, iron 0.20% max, zinc 0.03%, gallium 0.04%, vanadium 0.03%) Delivered consumer works Midwest

normalized

London time

Twice a week, every Tuesday and

Friday between 3pm and 4pm

Publication:

	premium, cit Japan, \$/tonne
Quality:	P1020A or 99.7 % Minimum Al purity
	(Si 0.10% max, Fe 0.20% max) in line
	with LME specifications. Ingot, T-bar,
	SOW
Quantity:	Min 100 tonnes
Location:	cif in main Japanese ports at
	Yokohama, Nagoya and Osaka,
	premium on top of LME cash prices
Timing:	Within 6 weeks
Unit:	USD/tonne
Payment terms:	Cash against documents (2 days
	after Bill of lading date)
Publication:	Twice weekly. Tuesday and Friday by
	4pm London time
Notes:	Excluding metal from LME
	warehouses and metal subject to
	international sanctions. Assessed by
	Fastmarkets' Singapore office
	9 1
MB-AL-0345	Aluminium P1020A premium, cif
MB-AL-0345	Aluminium P1020A premium, cif Shanahai, \$/tonne
	Shanghai, \$/tonne
<b>MB-AL-0345</b> Quality:	<b>Shanghai, \$/tonne</b> P1020A or 99.7 % Minimum Al purity
Quality:	Shanghai, \$/tonne P1020A or 99.7 % Minimum Al purity (Si 0.10% max, Fe 0.20% max). Ingot
Quality: Quantity:	Shanghai, \$/tonne P1020A or 99.7 % Minimum Al purity (Si 0.10% max, Fe 0.20% max). Ingot Min 100 tonnes
Quality:	<b>Shanghai, \$/tonne</b> P1020A or 99.7 % Minimum Al purity (Si 0.10% max, Fe 0.20% max). Ingot Min 100 tonnes cif Shanghai, premium on top of LME
Quality: Quantity: Location:	Shanghai, \$/tonne P1020A or 99.7 % Minimum Al purity (Si 0.10% max, Fe 0.20% max). Ingot Min 100 tonnes cif Shanghai, premium on top of LME cash prices
Quality: Quantity: Location: Unit:	Shanghai, \$/tonne P1020A or 99.7 % Minimum Al purity (Si 0.10% max, Fe 0.20% max). Ingot Min 100 tonnes cif Shanghai, premium on top of LME cash prices USD/tonne
Quality: Quantity: Location:	Shanghai, \$/tonne P1020A or 99.7 % Minimum Al purity (Si 0.10% max, Fe 0.20% max). Ingot Min 100 tonnes cif Shanghai, premium on top of LME cash prices
Quality: Quantity: Location: Unit:	Shanghai, \$/tonne P1020A or 99.7 % Minimum Al purity (Si 0.10% max, Fe 0.20% max). Ingot Min 100 tonnes cif Shanghai, premium on top of LME cash prices USD/tonne
Quality: Quantity: Location: Unit: Timing:	Shanghai, \$/tonne P1020A or 99.7 % Minimum Al purity (Si 0.10% max, Fe 0.20% max). Ingot Min 100 tonnes cif Shanghai, premium on top of LME cash prices USD/tonne Within 4 weeks
Quality: Quantity: Location: Unit: Timing:	Shanghai, \$/tonne P1020A or 99.7 % Minimum Al purity (Si 0.10% max, Fe 0.20% max). Ingot Min 100 tonnes cif Shanghai, premium on top of LME cash prices USD/tonne Within 4 weeks Letter of Credit or Telegraphic
Quality: Quantity: Location: Unit: Timing:	Shanghai, \$/tonne P1020A or 99.7 % Minimum Al purity (Si 0.10% max, Fe 0.20% max). Ingot Min 100 tonnes cif Shanghai, premium on top of LME cash prices USD/tonne Within 4 weeks Letter of Credit or Telegraphic Transfer, other payment terms normalized
Quality: Quantity: Location: Unit: Timing: Payment terms:	Shanghai, \$/tonne P1020A or 99.7 % Minimum Al purity (Si 0.10% max, Fe 0.20% max). Ingot Min 100 tonnes cif Shanghai, premium on top of LME cash prices USD/tonne Within 4 weeks Letter of Credit or Telegraphic Transfer, other payment terms

MB-ALU-0002

MB-AL-0343

Alumina index, fob Australia, \$/

Quality: Quantity: Location: Timing: Unit: Payment Terms: Publication: Notes:

#### tonne Smelter-grade alumina, minimum purity of 98.5% Al2O3 5,000 tonnes fob Bunbury/Kwinana, Australia(other Pacific origins normalized) Within 2 months US\$ per dry metric tonne (dmt) 30 days after loading Daily at 4pm London time Bulk carrier. Data history from Augusts 2010. Full methodology available here:



MB-CU-0310	Copper grade 1 cathode premium, ddp Midwest US, \$/tonne	MB-CU-0369	Copper grade A cathode premium, cif Rotterdam, \$/tonne
Quality:	Delivered premium over cost of	Quality:	Grade A cathode 99.9935%
	Grade 1 Electrolytic Copper Cathode		min copper conforming to LME
	as adopted by the American Society		specifications BS EN 1978:1998 – Cu-
	for Testing and Materials (B115-00)		CATH-1
Location:	Delivered Midwest	Quantity:	Min 25 tonnes
Unit:	US cents per pound	Location:	cif delivery in Rotterdam, duty
Quantity:	Min 20 tonnes		unpaid premium on top of LME cash
Delivery:	Within 4 weeks		prices
Form:	Cathode	Timing:	Within 4 weeks
Payment terms:	30-day payment, other payments	Unit:	USD/tonne
	terms normalized	Payment terms:	Cash, other payment terms
Publication:	Weekly, every Tuesday between 3pm	-	normalized
	and 4pm London time	Publication:	Once every two weeks. Tuesday
			3-4pm London time
MB-CU-0287	Copper concentrates TC index,		
	cif Asia Pacific, \$/dmtu	MB-CU-0403	Copper grade A cathode premium,
Quality:	Concentrate. Copper content 26%;		cif Shanghai, \$/tonne
	Au 1.1g/dmt; Ag 75g/dmt; S 32%; Fe	Quality:	Grade A cathode 99.9935%
	28%; Pb 0.07%; Zn 1%; As 0.17%; Sb		min copper conforming to LME
	0.018%; Hg 2.5ppm; Bi 145ppm		specifications BS EN 1978:1998 – Cu
Quantity:	Min 5,000 tonnes		CATH-1
Location:	cif Asia Pacific	Quantity:	Min 25 tonnes
Unit:	USD/tonne	Location:	CIF Shanghai port, duty-unpaid
Timing:	Within 13 weeks	_	premium on top of LME cash prices
Payment terms:	Letter of credit, quotation period	Timing:	Within 6 weeks
	M+3	Unit:	USD/tonne
Publication:	Weekly. Friday at 4pm London time	Payment terms:	Letter of credit, telegraphic transfer
Notes:	Full methodology available here.		or documents against payment,
			other payment terms normalized
		Publication:	Daily. 3-4pm London time
MB-CU-0288	Copper concentrates RC index,	Notes:	Full methodology available here:
	cif Asia Pacific, \$/dmtu		
Quality:	Concentrate. Copper content 26%; Au 1.1g/dmt; Ag 75g/dmt; S 32%; Fe	MP PP 0107	Land an at a subservate TC
		MB-PB-0103	Lead spot concentrate TC,
	28%; Pb 0.07%; Zn 1%; As 0.17%; Sb	Ouditor	low silver, cif China, \$/tonne
Our antitur	0.018%; Hg 2.5ppm; Bi 145ppm Min 5,000 tonnes	Quality:	55-65% lead content concentrate,
Quantity: Location:	cif Asia Pacific		low silver below 1kg, arsenic below 0.7%, mercury below 0.05%
Unit:	US cents/lb	Quantity:	2,000 tonnes
Timing:	Within 13 weeks	Location:	Treatment Charge on cif basis
Payment terms:	Letter of credit, quotation period	Location.	delivery to Chinese ports
i ayment terms.	M+3	Timing:	Within 13 weeks
Publication:	Weekly. Friday at 4pm London time	Unit:	USD/tonne
Notes:	Full methodology available here	Payment terms:	Letter of Credit, quotation period
			M+3
		Publication:	Monthly. Last Friday of the month,
			3-4pm London time



MB-PB-0006	Lead 99.97% ingot premium, ddp Midwest US, US cents/lb	MB-NI-0002	Nickel briquette premium, in-whs Rotterdam, \$/tonne
Quality:	Delivered premium over cost of lead	Quality:	Briquette. 99.80% min primary nickel
	ingot of 99.97% purity conforming to	cid dirity :	conforming to LME specification:
	BS EN 12659:1999, GB/T 469/2005 or		ASTM B39-79 (2013) or GB/T 6516-
	ASTM B29-03 (2009)		2010 – Ni9990 grade
Location:	Delivered consumer works, Midwest	Quantity:	20 tonnes
Unit:	US cents per pound	Location:	In-warehouse Rotterdam, premium
Publication:	Daily		on top of LME cash prices
Notes:	Calculated formula: London Metal	Timing:	Within one week
	Exchange official cash AM bid lead	Unit:	USD/tonne
	price plus AMM lead premium	Payment terms:	Cash, other payment terms normalized
		Publication:	Weekly. Tuesday 3-4pm London time
MB-PB-0107	Lead 99.97% ingot premium,		
	cif Southeast Asia, \$/tonne		
Quality:	Lead ingot of 99.97-99.99% purity	MB-NI-0142	Nickel min 99.8% full plate
	conforming to LME specification BS	_	premium, cif Shanghai, \$/tonne
	EN 12659:1999, GB/T 469/2005 or	Type:	Assessed range and single number
	ASTM B29-03 (2009)	Quality:	Full plate. 99.80% min primary nickel
Quantity:	25 tonnes		conforming to LME specification:
Location:	cif to ports of Vietnam (Ho Chi Minh/Haiphong), Thailand (Bangkok,		ASTM B39-79 (2013) or GB/T 6516- 2010 - Ni9990 grade
	Laem Chabang), Malaysia (Johor,	Quantity:	Min 10 tonnes (under consultation to
	Port Klang), Indonesia (Jakarta),	Quantity.	increase to 60 tonnes)
	duty-unpaid premium on top of LME	Location:	cif delivery basis Shanghai port,
	cash prices	Location.	premium on top of LME cash prices
Timing:	Within 5 weeks	Timing:	With 6 weeks
Unit:	USD/tonne	Unit:	USD/tonne
Payment terms:	Letter of credit, telegraphic transfer	Payment terms:	Cash against document, Letter of
,	or cash against documents, other	,	credit, telegraphic transfer, and
	terms normalized		other terms normalized
Publication:	Once every two weeks. Tuesday	Publication:	Weekly. Tuesday 3-4pm London time
	3-4pm London time		
		MB-NI-0247	Nickel sulfate premium, cif Japan,
MB-NI-0240	Nickel 4x4 cathode premium, delivered Midwest US, US cents/Ib	Quality:	and Korea, \$/tonne
Quality:	4x4 cut cathode. 99.8% minimum	Quality:	Accepted by buyer for use in battery applications with chemical
Quuity.	primary nickel conforming to LME		composition: Ni content, base 22.3%
	specification: ASTM B39-79 (2013)		max, min 22%, cobalt 50ppm max
	or GB/T 6516-2010 - Ni9990 grade	Quantity:	Min 1 tonne
	specification: ASTM B39-79 (2013) or	Location:	cif major ports Japan, and Korea, on
	GB/T 6516-2010 - Ni9990 grade		top of monthly average LME nickel
Quantity:	Min 20 tonnes		cash price
Location:	Delivered consumer works US	Timing:	Within 60 days
Timing:	Within four weeks	Unit:	USD/tonne
Unit:	US cents per lb	Payment terms:	Cash against document, Letter of
Payment terms:	30 days, other payment terms		credit, telegraphic transfer, and
	normalized		other terms normalized
Publication:	Weekly. Tuesday 3-4pm London time	Publication:	Weekly. Friday, 4pm London time



MB-SN-0002	Tin 99.9% ingot premium, in-whs Rotterdam, \$ per tonne	MB-ZN-0005	Zinc SHG min 99.995% ingot premium, ddp Midwest US,
Quality:	Ingot. 99.9% tin purity conforming	Ou ality a	US cents/lb
	to LME specification: BS EN 610:1996 with 100-300 ppm lead content	Quality:	Min 99.995% special high grade zinc ingot, conforming to LME
Quantity:	Min 20 tonnes		specifications and relevant BS EN
Location:	In-warehouse Rotterdam, premium		standards
	on top of LME cash prices	Quantity:	Min 25 tonnes
Timing:	Within 2 weeks	Location:	Delivered consumer works Midwest
Unit:	USD/tonne		US
Payment terms:	Cash against conditional release,	Timing:	Within 4 weeks
Publication:	other payment terms normalized Once every two weeks. Tuesday	Unit: Payment terms:	US cents per pound 30 days, other payment terms
r ublication.	3-4pm London time	i dyment terms.	normalized
		Publication:	Weekly. Tuesday 3-4pm London time
MB-SN-0011	Tin grade A min 99.85% ingot		
	premium, ddp Midwest US,	MB-ZN-0106	Zinc SHG min 99.995% ingot
	\$/ tonne		premium, cif Shanghai,
Quality:	Delivered premium over cost of tin of		\$/per tonne
	99.85% purity (min) conforming to BS EN 610:1996	Quality:	Special High Grade zinc ingot of minimum 99.995% purity,
Quantity:	Min 20 tonnes		conforming to LME specifications
Location:	ddp US Midwest		and relevant standards: BS EN
Timing:	Within 2 weeks		1179:2003, ISO 752:2004 - ZN-1 grade,
Unit:	US dollars per tonne		ASTM B6-12 - LME grade or GB/T
Payment terms:	30-days, other terms normalized		470- 2008
Publication:	Once every two weeks. Tuesday	Quantity:	Min 25 tonnes Location: cif Shanghai
	3-4pm London time		port, premium on top of LME cash
		Timing:	prices Within 4 weeks
MB-ZN-0001	Zinc SHG min 99.995% ingot	Unit:	USD/tonne
	premium, dp fca Rotterdam,	Payment terms:	Letter of credit, telegraphic transfer
	\$/ tonne	,	or documents against payment,
Quality:	Special High Grade zinc ingot		other payment terms normalized
	of minimum 99.995% purity,	Publication:	Once every two weeks. Tuesday
	conforming to LME specifications		3-4pm London time
	and relevant standards: BS EN 1179:2003, ISO 752:2004 - ZN-1 grade,		
	ASTM B6-12 - LME grade or GB/T		
	470- 2008		
Quantity:	Min 100 tonnes		
Location:	Free-carrier basis delivery in		
	Rotterdam, duty-paid premium on		
	top of LME cash prices		
Timing:	Within 4 weeks		
Unit:	USD/tonne		
Payment terms:	Cash, other payment terms normalized		
Publication:	Weekly. Tuesday 3-4pm London time		



MB-ZN-0110	Zinc spot concentrate TC, cif China, \$/per tonne	XL-NI-FRC.O	LME nickel cash official price, \$/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	Quality:	LME specifications: Primary Ni 99.80% min purity conforming to ASTM B39-79 (2018) or GB/T 6516- 2010 - Ni9990 grade
	at max 6-7%), arsenic below 0.6%, cadmium below 0.33% and mercury	Quantity: Unit:	6 tonnes lot size USD/tonne
Quantity: Location:	below 0.06% Min 2,000 tonnes cif Chinese ports	Publication:	LME official settlement: 12.30-1.25pm London time
Timing:	Within 13 weeks		
Unit:	USD/tonne	XL-SN-FRC.O	LME tin cash official price, \$/tonne
Payment terms:	Letter of Credit, quotation period M+3	Quality:	LME specifications: 99.85% min purity conforming to BS EN 610:1996
Publication:	Second and last Friday of each	Quantity:	5 tonnes lot size
	month	Unit: Publication:	USD/tonne LME official settlement: 12.30-1.25pm London time
XL-AL-FRC.O	LME aluminium cash official prices, \$/tonne		London time
Quality:	LME specifications P1020A or 99.7 % min Al purity (Si 0.10% max, Fe	XL-ZS-FRC.O	LME zinc cash official price, \$/tonne
	0.20% max)	Quality:	LME specifications: Special high-
Quantity: Unit:	25 tonnes lot size USD/tonne		grade of 99.995% min purity conforming to BS EN 1179:2003, ISO
Publication:	LME official settlement: 12.30-1.25pm London time		752:2004 - ZN-1 grade, ASTM B6-18 or GB/T 470-2008
		Quantity: Unit:	25 tonnes lot size USD/tonne
XL-CA-FRC.O	LME copper cash official price, \$/tonne	Publication:	LME official settlement: 12.30-1.25pm London time
Quality:	LME specifications: Grade A cathode 99.9935% min Cu conforming to BS EN 1978:1998 – Cu-CATH-1, GB/T 467- 2010 - Cu-CATH-1 or ASTM B115-10 -		
Quantity:	cathode Grade 1 25 tonnes lot size		
Unit:	USD/tonne		
Publication:	LME official settlement: 12.30-1.25pm London time		
XL-PB-FRC.O	LME lead cash official price, \$/tonne		
Quality:	LME specifications: Lead ingot of 99.97-99.99% purity conforming to BS EN 12659:1999, GB/T 469/2013 or ASTM B29 2019		
Quantity:	25 tonnes lot size		
, Unit:	USD/tonne		
Publication:	LME official settlement: 12.30-1.25pm London time		



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