

# Guide to the London Metal Exchange



SETTING THE GLOBAL STANDARD

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# The London Metal Exchange

## Setting the global standard

The London Metal Exchange (LME) is the world centre for the trading of industrial metals. The majority of non-ferrous, on-exchange trading is conducted on our markets, with a growing presence in ferrous and precious metals.

The LME brings together participants from the physical industry and the financial community to create a vital, robust and regulated market where there is always a buyer or seller, where there is always a price and where there is always the opportunity to transfer or take on risk – 24 hours a day.

Investors value the LME as a vibrant futures exchange with close links to industry where they can take on risk based on prices that are truly reflective of global supply and demand. The possibility of physical delivery via the worldwide network of LME-approved warehouses makes this the perfect hedging venue for industry, and the world gains reference prices they trust.

The Exchange provides producers and consumers of metal not only with a physical market of last resort but also, perhaps most importantly of all, with the ability to protect against the risk of rising and falling global metal prices.

We continue to work with the metals community to launch new products which best serve their price-risk management needs. Recent additions to our suite have included cash-settled futures across the aluminium supply chain, regionally focused steel HRC and scrap products as well as new products to service the electric vehicle battery industry.

The LME continues to provide the global market with an increasing range of price-risk management and trading tools.







## Price-risk management The perfect hedge

The LME is a meeting place of buyers and sellers of metal futures and options. We provide producers and consumers of metal around the world with the best way to manage their exposure to the risk created by metal price volatility.

Producers (those who sell the metal they mine and refine) are at risk of prices falling, and consumers (those who buy and make things from metal) are at risk of prices rising.

Hedging against these price movements using LME futures and options enables the metal industry to focus on their core business.

### Benefits of hedging:

- protect against adverse price movements
- lock in margins and offer long-term fixed prices to customers
- improve budget forecasts
- turn inventory into cash or security for finance
- protect physical inventory against price falls
- hedge physical purchases in times of production difficulty.



# Price discovery

## The world's price formation venue

The LME is the de facto price formation venue for non-ferrous metals. The prices “discovered” on our platforms are used as the global reference and basis for physical trading as well as in the valuation of portfolios, in commodity indices and metal ETFs.

Our prices are trusted because the LME is the most liquid and most traded industrial metals market in the world. Our global network of warehouses ensures these prices are truly reflective of supply and demand.

Real-time bid and offer prices are available 24 hours a day via our market data service LMElive and also from approved data vendors. The LME also aggregates and publishes a set of reference prices that are based on highly liquid periods of the trading day.

The LME is also home to the LBMA Platinum and Palladium Prices, which are discovered in a twice-daily auction. This pricing solution is delivered via LMEbullion, our custom-built electronic platform.

	CO	MO	MO	Metal	Settlement
3 months	3 months	3 months	3 months	AA	1858.50
3M-3M	CASH-3M	CASH-3M	CASH-3M	AA	1858.50
MAY	C-MAY	C-MAY	C-MAY	NA	1873.00
4-JUN	MAY-JUN	MAY-JUN	MAY-JUN	CA	4736.50
4-JUL	JUN-JUL	JUN-JUL	JUN-JUL	MO	14799.00
4-AUG	JUL-3a	JUL-3a	JUL-3a	ZS	1859.00
4-SEP	3a-AUG	3a-AUG	3a-AUG	NI	8739.00
4-OCT	AUG-SEP	AUG-SEP	AUG-SEP	CO	23595.00
4-NOV	SEP-OCT	SEP-OCT	SEP-OCT	PB	1737.00
4-DEC	OCT-NOV	OCT-NOV	OCT-NOV	FM	188.00
	NOV-DEC	NOV-DEC	NOV-DEC	SN	17425.00
				AE	120.00
				AN	208.00
				AS	85.00
				AW	100.00



## LME reference prices

What are they and how are they calculated?	How are they used?	Prompt dates	When are they established?	Currency
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### LME Official Price and Official Settlement Price

The LME Official Price is the last bid and offer quoted during the second open-out cry (or Ring) session and the LME Official Settlement Price is the last cash offer price	LME Official Prices used as the global reference for physical contracts and the LME Official Settlement Price is the price at which all physically settled, non-ferrous LME futures are settled	Cash, 3 month and 3-forward December prices* (which roll annually)	12.30 – 13.25**	USD (we also publish exchange rates for EUR, GBP, JPY)
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### LME Unofficial Price

The LME Unofficial Price is determined by the LME Quotations Committee with regard to trading on LMEselect as well as trades, bids and offers transacted during the day	The LME Unofficial Price is a good indicator of afternoon trading	Cash, 3 month and 3-forward December prices* (which roll annually)	15.00 – 15.35 (ex minors)	USD
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### LME Closing Price (or Valuation)

The LME Closing Price is determined by the LME Quotations Committee with regard to trading on LMEselect as well as trades, bids and offers transacted during the day	Used by LME Clear and LME members for calculating margins	All prompt dates	Provisional Closing Prices from 16.00	USD
			Closing Price 17.50	
			Closing Price 18.15	

### LME Asian Reference Price

The LME Asian Reference Price is calculated on the volume-weighted average price (VWAP) of trades transacted on our electronic trading platform, LMEselect, between 06.55–07.00 or 07.55–08.00 during British Summer Time (BST)	The LME Asian Reference Price provides traders with a useful early-day guide to trading in one of the most significant and liquid periods of the day	3 month LME Aluminium, LME Copper and LME Zinc	07.01 – 07.03 (08.01 – 08.03 BST)	USD
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\* 15 month official and closing prices published for tin and minor metals. 15 month unofficial price also available for tin.  
\*\* All times are Greenwich Mean Time (GMT) unless otherwise stated.



# Warehousing, branding and price convergence

## The physical market of last resort

Our market complements the physical. The possibility of physical delivery – supported by over 500 international storage facilities and almost 500 LME listed brands – results in price convergence ensuring our prices remain in line with the physical industry.

The combination of price convergence, the global reach of the LME's storage facilities and listed metal brands, the fact that physical deals are negotiated using LME prices and unparalleled levels of liquidity means the world gains a price it trusts.

In times of extreme shortage or over supply the LME also provides producers and consumers with a physical market of last resort. LME warehouse companies must meet strict criteria before they are approved and are typically located in high-consumption areas or logistical trading hubs for the shipment of material.

All metals stored in LME-approved storage facilities on warrant are LME-approved brands from LME-approved producers ensuring conformance to the Exchange's strict rules on commodity grade, quality and shape.

The LME is also committed to the introduction of responsible sourcing requirements to its brand lists. We have been working with a variety of industry bodies and the producers of our listed brands regarding the responsible sourcing of materials for several years.

The LME occupies a unique position in the global metals industry. Our brand lists determine which brands of metal can be delivered against LME contracts; and more broadly, many global physical supply contracts stipulate LME brands for delivery. As such, the LME fulfils a broader role across much of the metals industry in identifying the brands which reflect the needs of the market. We are therefore able to work with our industry to ensure that our brand lists embody global expectations of best practice.

Updates to our policy can be found at [lme.com/responsiblesourcing](https://lme.com/responsiblesourcing)



over  
**570**  
storage facilities  
around the world

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almost  
**500**  
LME-approved brands  
from 57 countries

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**5.5m**  
tonnes delivered in and out



## What is a future?

A “future” is the obligation to buy or sell a standard quantity of a specified asset (metal) on a set date, at a fixed price agreed today.

## What is an option?

An “option” is the right, but not the obligation, to buy or sell a futures contract at a price (the strike price) agreed today.

## What are prompt dates?

A “prompt date” is the date by which an LME warrant must be delivered by the seller and paid for by the buyer of a futures contract. Also known as the “settlement date”.

# The contracts and the metals

## Today’s innovation, tomorrow’s standard

The LME’s products and services are designed with the metal community in mind and this is what makes the LME unique.

The LME prides itself on the unique settlement-date structure of its contracts and its focus on the physical market.

Designed to reflect the nature and timing of bilaterally negotiated metal trades, market participants can use the LME’s contracts to transfer or take on risk against metal prices daily out to 3 months, weekly out to 6 months and monthly out to anything up to 123 months – that’s over ten years in the future.

Through our flexible prompt-date structure, large lot sizes that reflect industrial usage, and range of contract types, the LME provides participants with unparalleled opportunity to transfer and take on risk.

### What are 3rd Wednesdays?

The traditional foundation of liquidity on the LME is the 3-month contract; a contract with a rolling prompt date. 3rd Wednesday contracts offer participants the opportunity to trade LME contracts on a fixed prompt date. The 3rd Wednesday contracts are the monthly futures equivalent in the LME prompt date structure. The overall contract specification (trading times, contract size, and physical delivery) are exactly the same as the 3-month contract, or any other prompt date.

### Types of LME contracts

#### LME futures

Physically settled contracts daily out to 3 months, weekly out to 6 months and monthly up to 123 months; cash-settled contracts out to 15 months

#### LME traded options

American-style monthly options up to 63 months

#### LME TAPOS

(traded average price options)  
Asian-style monthly average-price options up to 63 months

#### Monthly Average Futures

A contract where the difference between the ‘fixed’ price and ‘floating’ Monthly Average Settlement Price (MASP) is financially settled

#### LMEminis

Small-lot, cash-settled monthly futures out to 12 months

#### HKEX London Minis

Small-lot, cash-settled monthly futures traded on HKEX, traded and priced in renminbi and US dollars

# Contract specifications

Metal		Lot size	Shape	Underlying metal*	Contract types	Prompt dates	Main industry uses	First listed
Non-ferrous metals	LME Aluminium	25mt	Ingots Sows T-bars	High grade primary aluminium	Futures Traded options TAPOs Monthly Average Futures LMEminis HKEX London Minis	Daily: out to 3 months Weekly: 3 out to 6 months Monthly: 7 out to 123 months (63 for TAPOs and traded options)	Automotive, transport, construction, aeronautical, packaging	1978 (1987 current specification)
	LME Aluminium Alloy	20mt	Ingots Small Sows Large Sows T-bars	Aluminium alloy	Futures Traded options TAPOs Monthly Average Futures	Daily: out to 3 months Weekly: 3 out to 6 months Monthly: 7 out to 27 months	Automotive, transport, construction, aeronautical, packaging	1992
	LME Aluminium Premiums US Premium, West-Europe Premium, East-Asia Premium, South-East Asia Premium	25mt	N/A	High-grade primary aluminium premium warrant in each designated region	Futures	Third Wednesday of each maturity month, subject to trading regulations	Hedge regional premium exposure; discover transparent on-exchange premium prices; take delivery of readily available metal	2015
	LME Copper	25mt	Cathodes	Grade A copper	Futures Traded options TAPOs Monthly Average Futures LMEminis HKEX London Minis	Daily: out to 3 months Weekly: 3 out to 6 months Monthly: 7 out to 123 months (63 for TAPOs and traded options)	Electricals, construction	1877 (1986 current specification)
	LME Lead	25mt	Ingots	Standard lead of 99.97% purity (minimum)	Futures Traded options TAPOs Monthly Average Futures HKEX London Minis	Daily: out to 3 months Weekly: 3 out to 6 months Monthly: 7 out to 63 months	Batteries	1920
	LME Nickel	6mt	Cathodes (full plate or cut) Pellets Briquettes	Primary nickel of 99.80% purity (minimum)	Futures Traded options TAPOs Monthly Average Futures HKEX London Minis	Daily: out to 3 months Weekly: 3 out to 6 months Monthly: 7 out to 63 months	Stainless steel	1979
	LME NASAAC	20mt	Ingots Small Sows Large Sows T-bars	ME NA380.1 North American special aluminium alloy	Futures Traded options TAPOs Monthly Average Futures	Daily: out to 3 months Weekly: 3 out to 6 months Monthly: 7 out to 27 months	Automotive	2002
	LME Tin	5mt	Ingots	Tin of 99.85% purity (minimum)	Futures Traded options TAPOs Monthly Average Futures HKEX London Minis	Daily: out to 3 months Weekly: 3 out to 6 months Monthly: 7 out to 15 months	Plating, soldering	1877 (1989 current specification)
	LME Zinc	25mt	Ingots	Special high-grade zinc of 99.995% purity (minimum)	Futures Traded options TAPOs Monthly Average Futures LMEminis HKEX London Minis	Daily: out to 3 months Weekly: 3 out to 6 months Monthly: 7 out to 63 months	Galvanisation, brass	1920 (1986 current specification)
	Minor metals	LME Cobalt	1mt	Cathodes (broken or cut) Rounds Briquettes Ingots	99.30% pure cobalt	Futures	Daily: out to 3 months Weekly: 3 out to 6 months Monthly: 7 out to 15 months	Batteries, turbines, paints

mt=metric tonne

\* Quality specifications are available at [www.lme.com](http://www.lme.com)

All contracts quoted in US dollars and clearable in US dollars, pound sterling, Euro and Japanese yen



# Cash-settled contracts

Metal		Lot size	Contract type	Contract code	Prompt dates
Non-ferrous metals	LME Aluminium Premium Duty Unpaid European (Fastmarkets MB)	25mt	Cash-settled futures	EA	Monthly prompts out to 15 months
	LME Aluminium Premium Duty Paid US Midwest (Platts)	25mt	Cash-settled futures	UP	Monthly prompts out to 15 months
	LME Alumina (Platts)	50mt	Cash-settled futures	AM	Monthly prompts out to 15 months
Ferrous metals	LME Steel HRC N. America (Platts)	10st	Cash-settled futures	HU	Monthly prompts out to 15 months
	LME Steel HRC FOB China (Argus)	10mt	Cash-settled futures	HC	Monthly prompts out to 15 months
	LME Steel HRC NW Europe	10mt	Cash-settled futures	HN	Monthly prompts out to 15 months
	LME Steel Rebar FOB Turkey (Platts)	10mt	Cash-settled futures	SR	Monthly prompts out to 15 months
	LME Steel Scrap CFR Turkey (Platts)	10mt	Cash-settled futures	SC	Monthly prompts out to 15 months
	LME Steel Scrap CFR Taiwan (Argus)	10mt	Cash-settled futures	ST	Monthly prompts out to 15 months
	LME Steel Scrap CFR India (Platts)	10mt	Cash-settled futures	SI	Monthly prompts out to 15 months
EV metals	LME Cobalt (Fastmarkets MB)	1mt	Cash-settled futures	CB	Monthly prompts out to 15 months
	LME Molybdenum (Platts)	2,205lbs	Cash-settled futures	MD	Monthly prompts out to 15 months
	LME Lithium Hydroxide CIF (Fastmarkets MB)	1mt	Cash-settled futures	LH	Monthly prompts out to 15 months



# Trading

## Unparalleled opportunity to transfer or take on risk

Participants wishing to trade on the LME must do so with one of our member firms.

This can be done either directly with an LME member or through member-sponsored access to the LME's electronic trading platform, LMEselect.

Counterparty risk is mitigated by LME Clear, our own clearing house, purpose-built for the metals market. As a Recognised Investment Exchange, the LME has a statutory requirement to ensure that business on our markets is conducted in a fair and orderly manner, providing proper protection to investors. The LME is regulated by the Financial Conduct Authority (FCA) and the Bank of England regulates LME Clear. The FCA also regulates those LME members that conduct investment business.

Futures and options are traded on three platforms at the LME.

### Trading platforms at LME

#### The Ring | Trading hours: 11.40 – 17.00

Open-outcry trading floor. Liquidity is concentrated into five-minute sessions known as Rings. LME Official, Unofficial and Closing Prices are all, or in part, derived from trading activity on the Ring.

#### LMEselect | Trading hours: 01.00 – 19.00\*

Electronic trading platform, for the trading of all LME contracts. Offers a range of advanced features all tailored to the LME's unique prompt date structure.

#### Inter-office telephone | Trading hours: 24 hours

Members' indicative quotes are distributed via the vendor network and can be executed by telephone.

For a full list of LME member firms, please visit our website

[lme.com/trading](https://lme.com/trading)

\*LMEprecious trading hours on LMEselect 01.00-20.00



# LME Clear

## Trade and clear in one venue

LME Clear is the clearing house designed and built specifically for users of the London Metal Exchange. It delivers innovative clearing and settlement services for traded transactions.

LME Clear is the central counterparty for all LME clearing members and their trading activity. It provides a financial guarantee to every traded contract, acting as “the seller to every buyer and the buyer to every seller”.

In the event of a clearing member default, LME Clear will step in and manage the defaulting clearing member’s outstanding risk positions swiftly and efficiently.

LMEmercury, LME Clear’s dedicated clearing system, allows members to monitor and assess the risk they are taking on in real time. This means clearing members have more control over their business in key areas such as portfolio management, option expiry handling and reporting.

LME Clear regularly introduces new services to meet customer needs. We have added a position-transfer service, inter-prompt spread methodology, trade compression, warrants and offshore Renminbi as collateral, averaging solutions and gross segregated accounts.

[lme.com/lmeclear](http://lme.com/lmeclear)  
[lmeclearing@lme.com](mailto:lmeclearing@lme.com)

## Other services

### LME Education

The LME provides an extensive global programme of training courses for the metal and financial industries. Our popular introductory courses delivered in partnership with Euromoney Training, provide the opportunity to learn how to effectively manage the impact of price volatility through the use of futures and options.

We also offer more advanced courses and can create bespoke training programmes.

[lme.com/education](http://lme.com/education)  
[education@lme.com](mailto:education@lme.com)

### Market Data

Pricing data can be accessed via the LME’s network of vendors including LMElive, our own real-time price and data service. LMElive offers the opportunity to monitor price volatility with live or 30-minute delayed data and provides a comprehensive view of futures and options trading with easy access via your laptop, PC or mobile device. Subscribe for a four-week free trial at:

[lmlive.com](http://lmlive.com)  
[customersupport@lmlive.com](mailto:customersupport@lmlive.com)

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