

CRU Prices

Bulk Ferroalloys

Chrome

Molybdenum

Noble Alloys and

Minor Metals

Methodology and

Definitions Guide

October 2024



THE INDEPENDENT AUTHORITY
MINING | METALS | FERTILIZERS

Methodology and Definitions Guide

Scope

This guide covers prices in all geographical markets for CRU's bulk ferroalloys, chrome, molybdenum, nickel and noble alloys & minor metals assessments. It should be read in conjunction with the CRU Group Compliance Framework and Methodology Guide. It details a commodity-specific methodology which has precedence, with all other aspects covered by the Group methodology guide.

Methodology

CRU's price assessments for bulk ferroalloys, chrome, molybdenum and noble alloys & minor metals are based only on transactions. Use of transaction data alone as data inputs ensures that our assessments accurately reflect the spot market with no risk of information from sentiment, errant opinion, speculative or even confirmed, but ultimately unexecuted bids and offers entering the final published price. This approach is appropriate for prices used extensively in physical contracts.

Our methodology blends strict adherence to transaction data and other methodological rules with limited but necessary application of expert judgement, detailed below, in order to produce a price that benefits from rigour, and analyst expertise and discretion in equal measure.

Data providers

Assessments are based on regular contact with a wide network of market participants including producers, buyers, and traders at critical nodes in the supply chain. This network is constantly reviewed and maintained to seek a balance of buyers and sellers.

Data submitted and submission processes

All prices are based exclusively on transaction data (actual deals concluded) and to that extent there is no hierarchy of acceptable price types. CRU seeks to verify each deal with both parties but where this is not possible, deals will be accepted by one party of a transaction. Information relating to bids/offers or an opinion of the prevailing market price will strictly not be used in the final price assessment calculation.

Admissible price data is limited to transactions concluded at arms-length. This means a trade must be between companies who are unrelated in ownership and/or where the transaction is not part of any other arrangement. This therefore necessarily excludes intra-company transfers.

Data providers provide CRU with one or more single price figures, each relating to an individual spot deal (a sale or a purchase) concluded within a defined trading period (the period since the last assessment). Data Providers also include information such as the chemical composition, delivery date, volume and payment terms.

Producer-to-trader, producer-to-consumer, and trader-to-consumer transactions may all be included in CRU's price assessments, but no trader-to-trader (inter-trade) transactions are used in a final assessment. Market participants can submit prices to CRU by telephone, email, private one-to-one instant messenger services or other private means of communication. All price data is confidential and stored securely.

CRU seeks to ensure that its assessed prices reflect repeatable business that originates from an open inquiry to the market at large. We will scrutinise information given to us, or seek further information, in order to establish if this condition is met. If not, such data may be completely excluded from the final price assessment.

Final assessment calculation

Process

The high and low values of the published price range are established as follows:

1. All data points submitted are assessed against admissibility criteria in the relevant product specification and the criteria stated in this methodology.
 - a. Data points which meet the criteria without normalisation are determined as admissible.

- b. Data points that require normalisation and can be normalised are normalised, and the resulting data determined as admissible.
 - c. All other data points are rejected as inadmissible and will not be used in subsequent price evaluation.
 - d. Of the data points that remain, outliers (defined below) may also be rejected as inadmissible if they otherwise do not meet acceptability criteria, for example are not established as repeatable business.
2. The mid-point of remaining admissible data points is typically calculated as the volume-weighted average. In the unlikely event that a price is provided without associated volume, the average volume associated with all other trades with volumes will be used as the weighting for that price. If no prices have associated volumes, a straight average calculation will be used.
3. Expert judgement is used to establish the high and low values of the published price range by reference to the distribution of admissible data points around the mid-point and values of the lowest and highest data admissible points, in the current and prior assessment periods. Metrics such as the standard deviation may be used as a guide to this process, but not as a sole determinant of the range. This means the high and low of the published range are not necessarily set equal to the highest and lowest admissible data points because to do so would:
 - a. Introduce excessive volatility in the high and low of the published range over time.
 - b. Define the range by individual deals which may carry little volume weight and ignore other admissible data points.

Normalisation

Data which meets the precise methodology specification is eligible for admission to the price without any adjustments. Data which does not fit the specification may still be eligible as an input to the price, but would be subject to a normalisation process in order to adjust its - primary chemical content; incoterms; loading location; vessel size; grade; duties or tariffs by the application of a premium or discount to an initial given price.

The value of this premium or discount is determined by applying one or more estimates of value-in-use or grade; freight; tariff or trade costs adjustments. Parameters used to make these adjustments are updated upon consultation with data providers. Where seen, normalisation is usually limited to adjustment for primary chemical content, deriving netbacks on incoterms and estimated or actual freight rates.

Normalisation is an essential price adjustment process used to align reported market information with a pricing methodology. Decisions to normalise a price and/or choice of values used in the normalisation process are forms of expert judgement.

Exclusion of outliers

A pricing analyst may use expert judgement in the exclusion of a data point as an input to the calculation of the final price. In doing so they would consider the range and distribution of data collected in the same timeframe from other data providers; previous data received from the same data provider; non-price information received from the data provider and the current market state from any other source. Inclusion or exclusion of input data in the final price is recorded.

Any transaction that deviates from the previous assessed price range or the collected price data for the trading period will receive extra scrutiny from a pricing analyst. For example, if a transaction is considered to be a potential outlier, supporting documentation as a means of further authentication may be asked for. Transactions may also be excluded until a transaction is established to be repeatable business. Supporting documentation is typically a contract or purchase/sales order, but other documentation may be accepted. Supporting documentation may not be asked for when, in CRU's judgement, the data is otherwise corroborated or deemed valid.

Transactions verified by both buyer and seller or authenticated with supporting documentation will normally carry more weight in a final assessment than transactions reported without any supporting documentation.

Price determination in an illiquid market

In the case that there are no submissions that meet, or after normalisation can meet, the methodology pricing definition in any price assessment time period, the previous published price will be rolled over and used as the final assessment value for the published price.

Silicon metal

For silicon metal only, the following mechanism is employed to ensure the correct relationship between grades applies at times of low market liquidity:

1. EU 98.5% Si 5-5-3 DDP

By definition of end use and purity, prices for 5-5-3 silicon metal (5-5-3) should almost always be lower than those for 4-4-1 silicon metal (4-4-1). To avoid situations where prices for 5-5-3 and 4-4-1 may become misaligned due to a lack of liquidity in the spot market, CRU uses the following mechanism to align its European silicon metal price assessments.

- If the price of 4-4-1 drops below that of 5-5-3 and there are then no new admissible transaction data for either product recorded in the following 14 days, CRU will lower the price of 5-5-3 to reflect its historical discount to 4-4-1
- The price of 5-5-3 will remain at this discount until further admissible transaction data is collected for it

The historical discount/premium between the products will be established by inspection of transaction prices over a relevant historical period determined by expert judgement. In the unlikely event that CRU receives transaction data that supports 4-4-1 being assessed below 5-5-3 at the same point in time, these levels will be maintained until there is another transaction recorded for either product. The above mechanism will then be deployed again if required.

2. EU 99% Si 4-4-1 DDP

By definition of end use and purity, prices for 5-5-3 silicon metal (5-5-3) should almost always be lower than those for 4-4-1 silicon metal (4-4-1). To avoid situations where prices for 5-5-3 and 4-4-1 may become misaligned due to a lack of liquidity in the spot market, CRU uses the following mechanism to align its European silicon metal price assessments.

- If the price of 5-5-3 rises above that of 4-4-1 and there are then no new admissible transaction data for either product recorded in the following 14 days, CRU will increase the price of 4-4-1 to reflect its historical premium to 5-5-3
- The price of 4-4-1 will remain at this premium until further admissible transaction data is collected for it

The historical discount/premium between the products will be established by inspection of transaction prices over a relevant historical period determined by expert judgement. In the unlikely event that CRU receives transaction data that supports 5-5-3 being assessed above 4-4-1 at the same point in time, these levels will be maintained until there is another transaction recorded for either product. The above mechanism will then be deployed again if required.

CRU EU Chrome Reference Value

CRU's EU Chrome Reference Value is a monthly calculation that represents an average value of alternatives to charge chrome in the European market. The final value is derived from the average between the EU HC FeCr 54-60% Cr DDP and EU HC 60-64.9% Cr DDP midpoints from the same month, adding the variations between the two indexes in the two months preceding the Reference announcement. Once the value has been calculated, an additional factor (+/- \$1 c/lb) is added or subtracted by an analyst to signal price direction for the following month. CRU's EU Chrome Reference Value does not indicate a gross or net price for charge chrome in Europe. Rather it is meant to provide a realistic average price for alternatives to the European benchmark price. No approximations will be made in the calculations until the finalised number. The resulting reference is approximated to the closest integer.

Expert judgement

Expert judgement may apply to decisions on whether price data submitted relates to actual deals concluded; if the deal is executed at arms-length; if normalisation of price data submitted is required; the means of any normalisation, and; the inclusion of a data point in the calculation of the final price (exclusion of outliers).

Expert judgement is usually limited to gauging premiums or discounts associated with trades reported on a different incoterm or where the primary chemical composition differs to the specification. A pricing analyst will consult with one or more colleagues before any application of expert judgement if in any doubt or where collective input would improve the quality of a judgement.

Consistency in the application of expert judgement is achieved through a combination of selection, formal and informal training and review, supervisions and control processes as detailed in section 2.5 of the Group Compliance Framework and Methodology Guide.

Verification

Input data points, calculations and the final price for publication are checked and verified by a second pricing analyst at each critical stage (i.e. where there is scope for error or when any application of expert judgment is required to be verified) in the process from data collection to final publication, and this verification is documented including the identity of the verifier.

Final publication

Final publication of CRU's bulk ferroalloys, chrome, molybdenum, nickel, noble alloys & minor metals prices are published in the CRU Bulk Ferroalloys Monitor, Chrome Monitor, Molybdenum Monitor, Nickel Monitor and Noble Alloys & Minor Metals Prices Service respectively, as well as associated price baskets, via FTP data feeds and are available in DataLab.

CRU Prices	1
Methodology and Definitions Guide	2
Scope	2
Methodology	2
Silicon metal	3
CRU EU Chrome Reference Value	4
Bulk Ferroalloys	9
Ferromanganese	9
US HC 76% Mn EXW	9
EU HC 76% Mn DDP	9
China HC 75% Mn DAP	9
India HC 76% Mn FOB	9
India HC 70% Mn EXW	10
China HC 75% Mn FOB Theoretical	10
Japan HC 75% CIF (CN orig.) Theoretical <i>[Discontinued]</i>	10
Japan HC 76% CIF	10
China HC 65% Mn DAP	11
US MC 80% Mn EXW	11
EU MC 81% Mn DDP	11
China MC 75% Mn DAP	11
China MC 75% Mn FOB Theoretical	12
US LC 80-85% Mn EXW	12
Ferrosilicon	12
US 50% Si EXW <i>[Discontinued]</i>	12
US 75% Si EXW	13
EU 75% Si DDP	13
US SiC 87-90% Si EXW <i>[Discontinued]</i>	13
China 75% Si FOB	13
China 75% Si DAP	14
China 72% Si FOB	14
China 72% Si DAP	14
Japan 75% Si CIF (CN orig.) Theoretical <i>[Discontinued]</i>	14
Japan 75% Si CIF	15
Silicomanganese	15
US 65% Mn EXW	15
EU 65%Mn DDP	15
China 65% Mn DAP	15
India 65%Mn FOB	16
India 60%Mn FOB	16
India 60% Mn EXW	16
China 65% Mn FOB Theoretical	16
Japan 65% Mn CIF (CN orig.) Theoretical <i>[Discontinued]</i>	17
Japan 65% Mn CIF	17
Japan 65% Mn CIF (IN orig.)	17
China 60% Mn FOB Theoretical	17
China 60% Mn DAP	18
Silicon Metal	18
US 98.5% Si 5-5-3 EXW	18
EU 98.5% Si 5-5-3 DDP	18
China 98.5% Si 5-5-3 FOB	19
China 98.5% Si 5-5-3 DAP	19
Japan 98.5% Si 5-5-3 CIF	19
EU 99% Si 4-4-1 DDP	19
China 99% Si 4-4-1 FOB	20
China 99% Si 4-4-1 DAP	20
US poly-Si 9-11N EXW <i>[Discontinued]</i>	20
Manganese Ore	20
China Lump 36-38% Mn CIF	20
China Lump 44% Mn CIF	21
China Lump 36-38% Mn FOT Tianjin	21
China Lump 44% Mn FOT Tianjin	21
India Lump 36-38% Mn CIF <i>[Discontinued]</i>	21
India Lump 44% Mn CIF <i>[Discontinued]</i>	22
Manganese Metal	22
China EMM Flake 99.7% Mn FOB	22
China EMM Flake 99.7% Mn EXW (dom.)	23
US EMM 99.7% Mn EXW	23
EU EMM 99.7% Mn DDP	23
Manganese Sulfate	23
China Manganese sulfate 32% Mn min, EXW	23
Chrome	25
Ferrochrome	25

US HC 47-55% Cr EXW [Discontinued]	25
EU HC 47-55% Cr DDP Benchmark [Discontinued]	25
EU HC 47-55% Cr DDP Free Market [Discontinued]	25
EU Chrome Reference Value	25
China HC 49-70% Cr DAP (dom.) [Discontinued]	25
China HC 49-70% Cr CIF (impt.) [Discontinued]	26
China HC 48-63% Cr CIF (impt.)	26
China HC 49-53% Cr EXW	26
EU HC 54-60% Cr DDP	27
US HC 62-70% Cr EXW	27
EU HC 62-70% Cr DDP [Discontinued]	27
EU HC 65-70% Cr DDP	27
EU HC 60-64.9% Cr DDP	28
US LC 0.05% C EXW	28
EU LC 0.05% C DDP	28
US LC 0.10% C EXW	28
EU LC 0.10% C DDP	29
US LC 0.15% C EXW	29
US FeCr/Sr EXW	29
Japan HC 60-70% CIF	29
Japan LC 0.1% CIF	30
Chrome Ore	30
China Lump 42% Cr CIF (TR orig.)	30
China Conc. 48% Cr CIF (TR orig.)	30
China Ore 38-40% Cr CIF (ZA orig.)	30
China Conc. 44% Cr CIF (ZA orig.)	31
China UG2 42% Cr CIF (ZA orig.)	31
China UG2 42% Cr (ZA orig.) FOT Tianjin	31
Chrome Metal	32
US Aluminothermic 99% Cr EXW	32
EU Aluminothermic 99% Cr DDP	32
Molybdenum	33
Ferromolybdenum	33
US FeMo 65% Mo EXW	33
EU FeMo 65% Mo DDP	33
China FeMo 60% Mo DAP	33
Molybdenum Oxide	33
US Oxide 60% Mo EXW	33
EU Oxide 60% Mo EXW	34
Main Asia Ports Oxide CIF	34
EU Moly Metal DDP	34
Noble Alloys & Minor Metals	35
Ferrotitanium	35
US FeTi 68-72% Ti EXW	35
EU FeTi 68-72% Ti DDP	35
Ferrotungsten	35
US FeW 72-75% W EXW	35
EU FeW 72-75% W DDP	35
Ferrovandium	36
US FeV 80% V EXW	36
EU FeV 80% V DDP	36
Tantalum	36
US Ta Ore 30% Ta EXW [Discontinued]	36
Tungsten	37
US W Ore 65% WO3 EXW [Discontinued]	37
US W APT 88.5% WO3 EXW [Discontinued]	37
China FeW 72-75% W FOB	37
China tungsten concentrate 65% WO3 – domestic DAP	37
China APT 88.5% DAP	38
China APT 88.5% WO3 FOB	38
Vanadium	38
China V2O5 98% V FOB [Discontinued]	38
China V2O5 98% V DAP (dom.)	38
Minor Metals	39
US Antimony 99.65% Sb EXW	39
EU Antimony 99.65% Sb EXW	39
US Bismuth 99.99% Bi EXW	39
EU Bismuth 99.99% Bi EXW	39
US Cadmium 99.95% Cd EXW [Discontinued]	40
EU Cadmium 99.95% Cd EXW [Discontinued]	40
US Indium 99.99% In EXW	40
EU Indium 99.99% In EXW	40
US Selenium 99.5% Se EXW	41

EU Selenium 99.5% Se EXW.....	41
Cobalt	41
EU 99.8% Co DDP	41
US 99.8% Co EXW.....	41
China 99.8% Co DAP	42

Bulk Ferroalloys

Ferromanganese

US HC 76% Mn EXW

DataLab Name:	Ferromanganese, Medium Carbon, 80% Mn, Spot price; USA, ex-warehouse
Grade:	76% Mn, 7% C, 1.5% Si, Max 0.25% P, 0.3% S
Price basis:	US ex-warehouse, per long ton of material
Credit/Payment terms:	Cash/Net 30-60 standard
Packaging:	Bulk
Loading Location:	US warehouse, typically Pittsburgh or Chicago, producer plant
Type:	Spot
Currency:	US dollar in cents
Weight Unit:	Long ton
Size:	Multiple truckloads
Timing:	No more than 16 weeks forward
Main Consumer Markets:	US inland terminals/locations
Pricing:	Business reported by sellers to buyers, including producers to traders
Duties/Tariffs:	Duty paid

EU HC 76% Mn DDP

DataLab Name:	Ferromanganese, High Carbon, 76% Mn, Spot price; Europe, DDP
Grade:	76% Mn, 7% C, 1.5% Si, Max 0.25% P, 0.3% S
Price basis:	Delivered, duty paid, per Tonne of material
Credit/Payment terms:	Cash/Net 30-60 standard
Packaging:	Bulk
Loading Location:	Rotterdam warehouse or producing plant, additional locations
Type:	Spot
Currency:	Euro
Weight Unit:	Tonne
Size:	Multiple truckloads
Timing:	No more than 12 weeks forward
Main Consumer Markets:	European inland terminals/locations
Pricing:	Business reported by sellers to buyers, including producers to traders
Duties/Tariffs:	Duty paid

China HC 75% Mn DAP

DataLab Name:	Ferromanganese, High Carbon, 75% Mn, Spot price; China, DAP
Grade:	75% Mn
Price basis:	Per mt, delivered steel mill, mainly Hebei
Credit/Payment terms:	n/a
Loading Location:	Producing plant
Type:	Spot
Currency:	RMB
Weight Unit:	Tonne
Size:	100 t +
Timing:	n/a
Main Consumer Markets:	Northern China
Pricing:	Business reported by sellers to buyers, including producers to traders
Duties/Tariffs:	VAT included, any other duties excluded
Frequency:	Bi-weekly, every Tuesday and Thursday

India HC 76% Mn FOB

DataLab Name:	Ferromanganese, High Carbon, 76% Mn, Spot price; India, FOB
Grade:	76% Mn, 7% C, 1.5% Si, Max 0.25% P, 0.3% S
Price basis:	FOB India, per Tonne of material
Credit/Payment terms:	Cash/Net 30-60 standard
Packaging:	Bulk
Loading Location:	Producing plant, additional locations
Type:	Spot

Currency:	Dollar
Weight Unit:	Tonne
Size:	Multiple truckloads
Timing:	No more than 12 weeks forward
Main Consumer Markets:	Europe, Middle East, South East Asia
Pricing:	Business reported by sellers to buyers, including producers to traders
Duties/Tariffs:	Duty paid

India HC 70% Mn EXW

DataLab Name:	Ferromanganese, High carbon, 70% Mn, Spot price; India, ex-warehouse
Grade:	70% Mn, 6% C, 1.2% Si, Max 0.3% P, 0.03% S
Price basis:	Ex-warehouse/Ex-plant, per Tonne of material
Credit/Payment terms:	Cash/Net 30-60 standard
Packaging:	Bulk Loading
Location:	Producing plant or warehouse
Type:	Spot
Currency:	Indian Rupees (INR)
Weight Unit:	Tonne
Size:	Multiple truckloads
Timing:	No more than 4 weeks forward
Main Consumer Markets:	Indian inland terminals/locations
Pricing:	Business reported by sellers to buyers, including producers to traders
Duties/Tariffs:	Duty paid

China HC 75% Mn FOB Theoretical

DataLab Name:	Ferromanganese, High Carbon, 75% Mn, Spot price; China, FOB
Grade:	Mn 75%; C 8% max
Price basis:	Per mt, FOB port, mainly Tianjin and Fangcheng
Credit/Payment terms:	Letter of credit or Wire Transfer
Loading Location:	Chinese ports
Type:	Spot
Currency:	US dollar
Weight Unit:	Tonne
Size:	Bulk, typically 25 mt container
Timing:	4-8 weeks
Main Consumer Markets:	No markets currently exist
Pricing:	Calculated
Duties/Tariffs:	Export duty paid
Frequency:	Bi-weekly, every Tuesday and Thursday

Japan HC 75% CIF (CN orig.) Theoretical *[Discontinued]*

DataLab name:	Ferromanganese, High Carbon, 75% Mn, Spot price; Japan, China Origin, CIF
Grade:	75% Mn
Price basis:	CIF Japan
Credit/Payment terms:	n/a
Loading Location:	Chinese port
Type:	Spot
Currency:	USD
Weight Unit:	Tonne
Size:	100+ t
Timing:	n/a
Main Consumer Markets:	Japan
Pricing:	Calculated
Duties/Tariffs:	Export duty paid

Japan HC 76% CIF

DataLab Name:	Ferromanganese, High Carbon, 76% Mn, Spot price; Japan, CIF
Grade:	76% Mn
Price basis:	CIF Japan
Credit/Payment terms:	Line of credit/Wire transfer
Loading Location:	Producer main port
Type:	Spot

Currency: USD
 Weight Unit: Tonne
 Size: Bulk, typically 25 mt container
 Timing: No more than 12 weeks forward
 Main Consumer Markets: Japan
 Pricing: Business reported by sellers to buyers, including producers to traders
 Duties/Tariffs: Export duty paid

China HC 65% Mn DAP

DataLab Name: Ferromanganese, High Carbon, 65% Mn, Spot price; China, DAP
Grade: 65% Mn
Price basis: Per mt, delivered steel mill, mainly Hebei
Credit/Payment terms: n/a
Loading Location: Producing plant
Type: Spot
Currency: RMB
Weight Unit: Tonne
Size: 100+ t
Timing: n/a
Main Consumer Markets: Northern China
Pricing: Business reported by sellers to buyers – no inter-trade activity
Duties/Tariffs: VAT included, any other duties excluded
Frequency: Bi-weekly, every Tuesday and Thursday

US MC 80% Mn EXW

DataLab Name: Ferromanganese, Medium Carbon, 80% Mn, Spot price; USA, ex-warehouse
Grade: 80% Mn, 1.5% C, Max 0.3% P, 0.2% S, 1% Si
Price basis: US ex-warehouse, per pound Mn
Credit/Payment terms: Cash/Net 30-60 standard
Packaging: Bulk
Loading Location: US warehouse, typically Pittsburgh or Chicago, producer plant
Type: Spot
Currency: US dollar in cents
Weight Unit: Pounds
Size: Multiple truckloads
Timing: No more than 16 weeks forward
Main Consumer Markets: US inland terminals/locations
Pricing: Business reported by sellers to buyers, including producers to traders
Duties/Tariffs: Duty paid

EU MC 81% Mn DDP

DataLab Name: Ferromanganese, Medium Carbon, 81% Mn, Spot price; Europe, DDP
Grade: 81% Mn, 1.5% C, Max 0.3% P, 0.2% S, 1% Si
Price basis: Delivered, duty paid, per pound of material
Credit/Payment terms: Cash/Net 30-60 standard
Packaging: Bulk
Loading Location: Rotterdam warehouse or producing plant, additional locations
Type: Spot
Currency: Euros
Weight Unit: Tonne
Size: Multiple truckloads
Timing: No more than 12 weeks forward
Main Consumer Markets: European inland terminals/locations
Pricing: Business reported by sellers to buyers, including producers to traders
Duties/Tariffs: Duty paid

China MC 75% Mn DAP

DataLab Name: Ferromanganese, Medium Carbon, 75% Mn, Spot price; China, DAP
Grade: 75% Mn, 2% max C
Price basis: Per mt, delivered steel mill, mainly Hebei
Credit/Payment terms: n/a
Loading Location: Producer plant

Type:	Spot
Currency:	RMB
Weight Unit:	Tonne
Size:	100t +
Timing:	n/a
Main Consumer Markets:	Northern China
Pricing:	Business reported by sellers to buyers – no inter-trade
Duties/Tariffs:	VAT included, any other duties excluded
Frequency:	Bi-weekly, every Tuesday and Thursday

China MC 75% Mn FOB Theoretical

DataLab Name:	Ferromanganese, Medium Carbon, 75% Mn, Spot price; China, FOB
Grade:	Mn 75%, 2% max C
Price basis:	FOB China ports
Credit/Payment terms:	Line of credit/Wire Transfer
Loading Location:	Foreign destination ports
Type:	Spot
Currency:	US dollar
Weight Unit:	Tonne
Size:	Bulk, typically 25 mt container
Timing:	4-8 weeks
Main Consumer Markets:	No markets currently exist
Pricing:	Calculated
Duties/Tariffs:	Export duty paid
Frequency:	Bi-weekly, every Tuesday and Thursday

US LC 80-85% Mn EXW

DataLab Name:	Ferromanganese, Low Carbon, 80-85% Mn, Spot price; USA, ex-warehouse
Grade:	80-85% Mn, Max 0.5% C, 2% Si, 0.3% P, 0.3% S
Price basis:	US ex-warehouse, per pound Mn
Credit/Payment terms:	Cash/Net 30-60 standard
Packaging:	Bulk
Loading Location:	US warehouse, typically Pittsburgh or Chicago, producer plant
Type:	Spot
Currency:	US dollar in cents
Weight Unit:	Pounds
Size:	Multiple truckloads
Timing:	No more than 16 weeks forward
Main Consumer Markets:	US inland terminals/locations
Pricing:	Business reported by sellers to buyers, including producers to traders
Duties/Tariffs:	Duty paid

Ferrosilicon

US 50% Si EXW [Discontinued]

DataLab Name:	Ferrosilicon, 50% Si, Spot price; USA, ex-warehouse
Grade:	50% Si
Price basis:	US ex-warehouse or producing plant, per pound Si
Credit/Payment terms:	Cash/Net 30-60 standard
Packaging:	Bulk
Loading Location:	US warehouse, typically Pittsburgh or Chicago, producer plant
Type:	Spot
Currency:	US dollar in cents
Weight Unit:	Pounds
Size:	Truckload or larger
Timing:	No more than 12 weeks forward
Main Consumer Markets:	US inland terminals/locations
Pricing:	Business reported by sellers to buyers, including producers to traders
Duties/Tariffs:	Duty paid

US 75% Si EXW

DataLab Name:	Ferrosilicon, 75% Si, Spot price; USA, ex-warehouse
Grade:	75% Si, Max 0.1% V, Max 1.5% Al (Standard 2" X 1/2")
Price basis:	US ex-warehouse or producing plant, per pound Si
Credit/Payment terms:	Cash/Net 30-60 standard
Packaging:	Bulk
Loading Location:	US warehouse, typically Pittsburgh or Chicago, producer plant
Type:	Spot
Currency:	US dollar in cents
Weight Unit:	Pounds
Size:	Multiple truckloads
Timing:	No more than 16 weeks forward
Main Consumer Markets:	US inland terminals/locations
Pricing:	Business reported by sellers to buyers, including producers to traders
Duties/Tariffs:	Duty paid

EU 75% Si DDP

DataLab Name:	Ferrosilicon, 75% Si, Spot price; Europe, DDP
Grade:	75% Si, Max 1.5% Al, 0.10% C, 0.04% P, 0.01% S (Standard 10-50mm)
Price basis:	DDP, per mt of material (not Si)
Credit/Payment terms:	Cash/Net 30-60 standard
Packaging:	Bulk
Loading Location:	Rotterdam warehouse or producing plant, additional locations
Type:	Spot
Currency:	Euro
Weight Unit:	Tonne
Size:	Multiple truckloads
Timing:	No more than 12 weeks forward
Main Consumer Markets:	European inland terminals/locations
Pricing:	Business reported by sellers to buyers, including producers to traders
Duties/Tariffs:	Duty paid

US SiC 87-90% Si EXW *[Discontinued]*

DataLab Name:	Ferrosilicon, Silicon carbide, 87-90% Si, Spot price; USA, ex-warehouse
Grade:	87-90% Si, 2-5% C
Price basis:	US ex-warehouse, per pound gross material
Credit/Payment terms:	Cash/Net 30-60 standard
Packaging:	50 lbs bags
Loading Location:	US warehouse, typically Pittsburgh or Chicago, plant
Type:	Spot
Currency:	US dollar
Weight Unit:	Short tons
Size:	Multiple truckloads
Timing:	No more than 12 weeks forward
Main Consumer Markets:	US inland terminals/locations
Pricing:	Business reported by sellers to buyers, including producers to traders
Duties/Tariffs:	Duty paid

China 75% Si FOB

DataLab Name:	Ferrosilicon, 75% Si, Spot price; China, FOB
Grade:	74-80% Si
Price basis:	FOB Tianjin port, China
Credit/Payment terms:	Line of credit/Wire Transfer
Loading Location:	Chinese ports - foreign destination ports
Type:	Spot
Currency:	US dollar
Weight Unit:	Tonne
Size:	Typically 25 mt container
Timing:	Typically 4-8 weeks
Main Consumer Markets:	Japan, South Korea, the US, India and Southeast Asia
Pricing:	Business reported by sellers to buyers, including producers to traders

Duties/Tariffs: Export duty paid
 Frequency: Bi-weekly, every Tuesday and Thursday

China 75% Si DAP

DataLab Name: Ferrosilicon, 75% Si, Spot price; China, DAP
Grade: 75% Si
Price basis: Per mt, delivered steel mill, mainly Hebei
Credit/Payment terms: n/a
Loading Location: Producing plant
Type: Spot
Currency: RMB
Weight Unit: Tonne
Size: 100t +
Timing: n/a
Main Consumer Markets: Northern China
Pricing: Business reported by sellers to buyers – no inter-trade
Duties/Tariffs: VAT included, any other duties excluded
Frequency: Bi-weekly, every Tuesday and Thursday

China 72% Si FOB

DataLab Name: Ferrosilicon, 72% Si, Spot price; China, FOB
Grade: 72-74% Si
Price basis: FOB major ports, China
Credit/Payment terms: Line of credit/Wire Transfer
Loading Location: Chinese ports - foreign destination ports
Type: Spot
Currency: US dollar
Weight Unit: Tonne
Size: 100t +
Timing: 4-8 weeks
Main Consumer Markets: Japan, South Korea, the US, India and Southeast Asia
Pricing: Business reported by sellers to buyers, including producers to traders
Duties/Tariffs: Export duty paid
Frequency: Bi-weekly, every Tuesday and Thursday

China 72% Si DAP

DataLab Name: Ferrosilicon, 72% Si, Spot price; China, DAP
Grade: 72-74% Si
Price basis: Per mt, delivered steel mill, mainly Hebei
Credit/Payment terms: n/a
Loading Location: Producing plant
Type: Spot
Currency: RMB
Weight Unit: Tonne
Size: 100t +
Timing: n/a
Main Consumer Markets: Northern China
Pricing: Business reported by sellers to buyers – no inter-trade
Duties/Tariffs: VAT included, any other duties excluded
Frequency: Bi-weekly, every Tuesday and Thursday

Japan 75% Si CIF (CN orig.) Theoretical *[Discontinued]*

DataLab Name: Ferrosilicon, 75% Si, Spot price; Japan, China origin. CIF
Grade: Si 75%
Price basis: CIF Japan
Credit/Payment terms: Line of credit/Wire Transfer
Loading Location: Chinese port
Type: Spot
Currency: US dollar
Weight Unit: Tonne
Size: Bulk, typically 25 mt container
Timing: Typically 4-8 weeks

Main Consumer Markets: Japan
 Pricing: Business reported by sellers to buyers, including producers to traders
 Duties/Tariffs: Export duty paid

Japan 75% Si CIF

DataLab Name: Ferrosilicon, 75% Si, Spot price; Japan, CIF
Grade: Si 75%
Price basis: CIF Japan
Credit/Payment terms: Line of credit/Wire transfer
Loading Location: Producer main port
Type: Spot
Currency: US dollar
Weight Unit: Tonne
Size: Typically 25 mt container
Timing: No more than 12 weeks forward
 Main Consumer Markets: Japan
 Pricing: Business reported by sellers to buyers, including producers to traders
 Duties/Tariffs: Export duty paid

Silicomanganese

US 65% Mn EXW

DataLab Name: Silicomanganese, 65% Mn, Spot price; USA, ex-warehouse
Grade: 65-68% Mn, 16-18.5% Si
Price basis: US ex-warehouse or producing plant, per pound
Credit/Payment terms: Cash/Net 30-60 standard
Packaging: Bulk
Loading Location: US warehouse, typically Pittsburgh or Chicago
Type: Spot
Currency: US dollar in cents
Weight Unit: Pounds
Size: Multiple truckloads
Timing: No more than 16 weeks forward
 Main Consumer Markets: US inland terminals/locations
 Pricing: Business reported by sellers to buyers, including producers to traders
 Duties/Tariffs: Duty paid

EU 65%Mn DDP

DataLab Name: Silicomanganese, 65% Mn, Spot price; Europe, DDP
Grade: 65-68% Mn, 16% Si, 2% C, 0.3% P, 0.03% S
Price basis: Delivered, duty paid, per Tonne
Credit/Payment terms: Cash/Net 30-60 standard
Packaging: Bulk
Loading Location: Rotterdam or producing plant
Type: Spot
Currency: Euro
Weight Unit: Tonne
Size: Multiple truckloads
Timing: No more than 12 weeks forward
 Main Consumer Markets: European inland terminals/locations
 Pricing: Business reported by sellers to buyers, including producers to traders
 Duties/Tariffs: Duty paid

China 65% Mn DAP

DataLab Name: Silicomanganese, 65% Mn, Spot price; China, DAP
Grade: 65% Mn, 16% Si
Price basis: Per mt, delivered steel mill, mainly Hebei
Credit/Payment terms: n/a
Loading Location: Producing plant
Type: Spot

Currency:	RMB
Weight Unit:	Tonne
Size:	100t +
Timing:	n/a
Main Consumer Markets:	Northern China
Pricing:	Business reported by sellers to buyers, including producers to traders
Duties/Tariffs:	VAT included, any other duties excluded
Frequency:	Bi-weekly, every Tuesday and Thursday

India 65%Mn FOB

DataLab Name:	Silicomanganese, 65% Mn, Spot price; India, FOB
Grade:	65% Mn, 16% Si
Price basis:	FOB India, per Tonne of material
Credit/Payment terms:	Cash/Net 30-60 standard
Packaging:	Bulk
Loading Location:	Producing plant
Type:	Spot
Currency:	Dollar
Weight Unit:	Tonne
Size:	Multiple truckloads
Timing:	No more than 12 weeks forward
Main Consumer Markets:	Europe, Middle East, South East Asia
Pricing:	Business reported by sellers to buyers, including producers to traders
Duties/Tariffs:	Duty paid

India 60%Mn FOB

DataLab Name:	Silicomanganese, 60% Mn, Spot price; India, FOB
Grade:	60% Mn, 14% Si, 2.5% C
Price basis:	FOB India, per Tonne of material
Credit/Payment terms:	Cash/Net 30-60 standard
Packaging:	Bulk
Loading Location:	Producing plant
Type:	Spot
Currency:	Dollar
Weight Unit:	Tonne
Size:	Multiple truckloads
Timing:	No more than 12 weeks forward
Main Consumer Markets:	Europe, Middle East, South East Asia
Pricing:	Business reported by sellers to buyers, including producers to traders
Duties/Tariffs:	Duty paid

India 60% Mn EXW

DataLab Name:	Silicomanganese, 60% Mn, Spot price; India, ex-warehouse
Grade:	60% Mn, 14% Si, 2.5% C max, 0.3% P, 0.03% S
Price basis:	EXW (Ex-warehouse/Ex-plant), per Tonne of material
Credit/Payment terms:	Cash/Net 30-60 standard
Packaging:	Bulk Loading
Location:	Producing plant or warehouse
Type:	Spot
Currency:	Indian Rupees (INR)
Weight Unit:	Tonne
Size:	Multiple truckloads
Timing:	No more than 4 weeks forward
Main Consumer Markets:	Indian inland terminals/locations
Pricing:	Business reported by sellers to buyers, including producers to traders
Duties/Tariffs:	Duty paid

China 65% Mn FOB Theoretical

DataLab Name:	Silicomanganese, 65% Mn, Spot price; China, FOB
Grade:	Mn 65%; Si 17%
Price basis:	FOB China ports (mostly Tianjin and Fangcheng)

Credit/Payment terms:	Line of credit/Wire Transfer
Loading Location:	Chinese ports - foreign destination ports
Type:	Spot
Currency:	US dollar
Weight Unit:	Tonne
Size:	Bulk, typically 25 mt container
Timing:	4-8 weeks
Main Consumer Markets:	Japan, Africa and Asia
Pricing:	Calculated
Duties/Tariffs:	Export duty paid
Frequency:	Bi-weekly, every Tuesday and Thursday

Japan 65% Mn CIF (CN orig.) Theoretical *[Discontinued]*

DataLab Name:	Silicomanganese, 65% Mn, Spot price; Japan, China origin, CIF
Grade:	Mn 65%; Si 17%
Price basis:	CIF Japan
Credit/Payment terms:	n/a
Loading Location:	Chinese ports
Type:	Spot
Currency:	US dollar
Weight Unit:	Tonne
Size:	Bulk, typically 25 mt container
Timing:	n/a
Main Consumer Markets:	Japan
Pricing:	Calculated
Duties/Tariffs:	Export duty paid

Japan 65% Mn CIF

DataLab Name:	Silicomanganese, 65% Mn, Spot price; Japan, CIF
Grade:	Mn 65%; Si 17%
Price basis:	CIF Japan
Credit/Payment terms:	Line of credit/Wire transfer
Loading Location:	Producer main port
Type:	Spot
Currency:	US dollar
Weight Unit:	Tonne
Size:	Bulk, typically 25 mt container
Timing:	No more than 12 weeks forward
Main Consumer Markets:	Japan
Pricing:	Business reported by sellers to buyers, including producers to traders
Duties/Tariffs:	Export duty paid

Japan 65% Mn CIF (IN orig.)

DataLab Name:	Silicomanganese, 65% Mn, Spot price; Japan, India origin, CIF
Grade:	65% Mn, 16% Si
Price basis:	CIF Japan
Credit/Payment terms:	Line of credit/Wire transfer
Loading Location:	Producer main port
Type:	Spot
Currency:	US dollar
Weight Unit:	Tonne
Size:	Bulk, typically 25 mt container
Timing:	No more than 12 weeks forward
Main Consumer Markets:	Japan
Pricing:	Business reported by sellers to buyers, including producers to traders
Duties/Tariffs:	Duties paid

China 60% Mn FOB Theoretical

DataLab Name:	Silicomanganese, 60% Mn, Spot price; China, FOB
Grade:	Mn 60%; Si 14%
Price basis:	FOB China ports (mostly Tianjin and Fangcheng)

Credit/Payment terms:	Line of credit/Wire Transfer
Loading Location:	Chinese ports - foreign destination ports
Type:	Spot
Currency:	US dollar
Weight Unit:	Tonne
Size:	Bulk, typically 25 mt container
Timing:	4-8 weeks
Main Consumer Markets:	Japan, Africa and Asia
Pricing:	Business reported by sellers to buyers, including producers to traders
Duties/Tariffs:	Export duty paid
Frequency:	Bi-weekly, every Tuesday and Thursday

China 60% Mn DAP

DataLab Name:	Silicomanganese, 60% Mn, Spot price; China, DAP
Grade:	60% Mn, 14% Si
Price basis:	Per mt, delivered steel mill, mainly Hebei
Credit/Payment terms:	n/a
Loading Location:	Producing plant
Type:	Spot
Currency:	RMB
Weight Unit:	Tonne
Size:	100t +
Timing:	n/a
Main Consumer Markets:	Northern China
Pricing:	Business reported by sellers to buyers, including producers to traders
Duties/Tariffs:	VAT included, any other duties excluded
Frequency:	Bi-weekly, every Tuesday and Thursday

Silicon Metal

US 98.5% Si 5-5-3 EXW

DataLab Name:	Silicon Metal, 98.5% Si 5-5-3, Spot price; USA, ex-warehouse
Grade:	98.5% Si; Max 0.5% Fe; 0.5% Al; 0.3% Ca
Price basis:	US ex-warehouse, per pound
Credit/Payment terms:	Cash/Net 30-60 standard
Packaging:	Bulk
Loading Location:	US warehouse, typically Pittsburgh or Chicago or producing plant
Type:	Spot
Currency:	US dollar in cents
Weight Unit:	Pounds
Size:	1-5 truckloads
Timing:	No more than 16 weeks forward
Main Consumer Markets:	US inland terminals/locations
Pricing:	Business reported by sellers to buyers, including producers to traders
Duties/Tariffs:	Duty paid

EU 98.5% Si 5-5-3 DDP

DataLab Name:	Silicon Metal, 98.5% Si 5-5-3, Spot price; Europe, DDP
Grade:	98.5% Si, Max 0.5% Fe, 0.5% Al, 0.3% Ca
Price basis:	Delivered, duty paid, per Tonne
Credit/Payment terms:	Cash/Net 30-60 standard
Packaging:	Bulk
Loading Location:	Rotterdam or producing plant
Type:	Spot
Currency:	Euros
Weight Unit:	Tonne
Size:	Multiple truckloads
Timing:	No more than 12 weeks forward
Main Consumer Markets:	European inland terminals/locations
Pricing:	Business reported by sellers to buyers, including producers to traders
Duties/Tariffs:	Not applicable

China 98.5% Si 5-5-3 FOB

DataLab Name:	Silicon Metal, 98.5% Si 5-5-3, Spot price; China, FOB
Grade:	Si 98.5% min; Max 0.5% Fe, 0.5% Al, 0.3% Ca
Price basis:	FOB Guangzhou Huangpu port, China
Credit/Payment terms:	Line of credit/Wire Transfer
Loading Location:	Chinese ports - foreign destination ports
Type:	Spot
Currency:	US dollar
Weight Unit:	Tonne
Size:	Bulk, typically 25 mt container
Timing:	4-8 week delivery
Main Consumer Markets:	Japan, South Korea, Southeast Asia, India and Europe
Pricing:	Business reported by sellers to buyers, including producers to traders
Duties/Tariffs:	No export duty
Frequency:	Bi-weekly, every Tuesday and Thursday

China 98.5% Si 5-5-3 DAP

DataLab Name:	Silicon Metal, 98.5% Si 5-5-3, Spot price; China, DAP
Grade:	Si 98.5% min; Max 0.5% Fe, 0.5% Al, 0.3% Ca
Price basis:	Delivered consumer
Credit/Payment terms:	Cash/Bank acceptance bill
Loading Location:	Producing plant
Type:	Spot
Currency:	RMB
Weight Unit:	Tonne
Size:	Multiple truckloads
Timing:	No more than 12 weeks forward
Main Consumer Markets:	China inland
Pricing:	Business reported by sellers to buyers, including producers to traders
Duties/Tariffs:	VAT included, any other duties excluded
Frequency:	Bi-weekly, every Tuesday and Thursday

Japan 98.5% Si 5-5-3 CIF

DataLab Name:	Silicon Metal, 98.5% Si 5-5-3, Spot price; Japan, DAP
Grade:	Si 98.5% min; Max 0.5% Fe, 0.5% Al, 0.3% Ca
Price basis:	CIF Japan
Credit/Payment terms:	Line of credit/Wire transfer
Loading Location:	Country of origin, mostly China
Type:	Spot
Currency:	USD
Weight Unit:	Tonne
Size:	Multiple containers
Timing:	No more than 12 weeks forward
Main Consumer Markets:	Japanese terminals/locations
Pricing:	Business reported by sellers to buyers, including producers to traders
Duties/Tariffs:	Duties paid

EU 99% Si 4-4-1 DDP

DataLab Name:	Silicon Metal, 99% Si 4-4-1, Spot price; Europe, DDP
Grade:	99% Si, Max 0.4% Fe, 0.4% Al, 0.1% Ca
Price basis:	Delivered, duty paid, per Tonne
Credit/Payment terms:	Cash/Net 30-60 standard
Packaging:	Bulk
Loading Location:	Rotterdam, producing plant
Type:	Spot
Currency:	Euro
Weight Unit:	Tonne
Size:	Multiple truckloads
Timing:	No more than 12 weeks forward
Main Consumer Markets:	European inland terminals/locations

Pricing: Business reported by sellers to buyers, including producers to traders
 Duties/Tariffs: Not applicable

China 99% Si 4-4-1 FOB

DataLab Name: [Silicon Metal, 99% Si 4-4-1, Spot price; China, FOB](#)
Grade: Si 99% min, Max 0.4% Fe, 0.4% Al, 0.1% Ca
Price basis: FOB Guangzhou Huangpu port, China
Credit/Payment terms: Line of credit/Wire Transfer
Loading Location: Chinese ports - foreign destination ports
Type: Spot
Currency: US dollar
Weight Unit: Tonne
Size: 25 mt per container
Timing: 4-8 week delivery
Main Consumer Markets: Japan, South Korea, Southeast Asia, India and Europe
Pricing: Business reported by sellers to buyers, including producers to traders
Duties/Tariffs: No export duty
Frequency: Bi-weekly, every Tuesday and Thursday

China 99% Si 4-4-1 DAP

DataLab Name: [Silicon Metal, 99% Si 4-4-1, Spot price; China, DAP](#)
Grade: Si 99% min, Max 0.4% Fe, 0.4% Al, 0.1% Ca
Price basis: Delivered consumer
Credit/Payment terms: Cash/Bank acceptance bill
Loading Location: Producing plant
Type: Spot
Currency: RMB
Weight Unit: Tonne
Size: Multiple truckloads
Timing: No more than 12 weeks forward
Main Consumer Markets: China inland terminals/locations
Pricing: Business reported by sellers to buyers, including producers to traders
Duties/Tariffs: VAT included, any other duties excluded
Frequency: Bi-weekly, every Tuesday and Thursday

US poly-Si 9-11N EXW [Discontinued]

DataLab Name: [Silicon Metal, Polysilicon Trans Si 9-11N, Spot price; USA, ex-warehouse](#)
Grade: 9-11N Si
Price basis: US ex-warehouse, per kilogram
Credit/Payment terms: Cash/Net 30-60 standard
Packaging: Big bags
Loading Location: US warehouse, producer plants
Type: Spot
Currency: US dollar
Weight Unit: Kilogram
Size: Tonne s chunks
Timing: No more than 12 weeks forward
Main Consumer Markets: US inland terminals, international procurements
Pricing: Business reported by sellers to buyers, including producers to traders
Duties/Tariffs: Not applicable in US

Manganese Ore

China Lump 36-38% Mn CIF

DataLab Name: [Manganese Ore, Lump, 36-38% Mn, Spot price; China, CIF](#)
Grade: 36-38% Mn
Price basis: CIF main Chinese port, per dmtu
Credit/Payment terms: Cash/Net 30-60 standard
Packaging: Bulk, container
Loading Location: Producer main port
Type: Spot

Currency: US dollar
 Weight Unit: Dry Tonne
 Size: Multiple containers or larger
 Timing: No more than 12 weeks forward
 Main Consumer Markets: China inland terminals/locations
 Pricing: Business reported by sellers to buyers, including producers to traders
 Duties/Tariffs: No
 Frequency: Bi-weekly, every Tuesday and Thursday

China Lump 44% Mn CIF

DataLab Name: [Manganese Ore, Lump, 44% Mn, Spot price; China, CIF](#)
 Grade: 44% Mn (Range 40-46%)
 Price basis: Per dmtu, CIF Chinese main port
 Credit/Payment terms: Cash/Net 30-60 standard
 Packaging: Bulk, container
 Loading Location: Producing nation's main port
 Type: Spot
 Currency: US dollar
 Weight Unit: Dry Tonne
 Size: Multiple containers or larger
 Timing: No more than 12 weeks forward
 Main Consumer Markets: China inland terminals/locations
 Pricing: Business reported by sellers to buyers, including producers to traders
 Duties/Tariffs: No
 Frequency: Bi-weekly, every Tuesday and Thursday

China Lump 36-38% Mn FOT Tianjin

DataLab Name: [Manganese Ore, Lump, 36-38% Mn, Spot price; China, Tianjin, FOT](#)
 Grade: 36-38%
 Price basis: FOT Tianjin port, per dmtu
 Credit/Payment terms: Cash
 Packaging: Bulk, container
 Loading Location: producing plant
 Type: Spot
 Currency: RMB
 Weight Unit: Dry tonne
 Size: Multiple containers or larger
 Timing: n/a
 Main Consumer Markets: Smelters in China and traders
 Pricing: Business reported by sellers to buyers
 Duties/Tariffs: Duty paid
 Frequency: Bi-weekly, every Tuesday and Thursday

China Lump 44% Mn FOT Tianjin

DataLab Name: [Manganese Ore, Lump, 44% Mn, Spot price; China, Tianjin, FOT](#)
 Grade: 44% Mn (Range 40-46%)
 Price basis: FOT Tianjin port, per dmtu
 Credit/Payment terms: Cash
 Packaging: Bulk, container
 Loading Location: Producing plant
 Type: Spot
 Currency: RMB
 Weight Unit: Dry tonne
 Size: Multiple containers or larger
 Timing: n/a
 Main Consumer Markets: Smelters in China and traders
 Pricing: Business reported by sellers to buyers
 Duties/Tariffs: Duty paid
 Frequency: Bi-weekly, every Tuesday and Thursday

India Lump 36-38% Mn CIF *[Discontinued]*

DataLab Name: [Manganese Ore, Lump, 36-38% Mn, Spot price; India, CIF](#)

Grade:	36-38% Mn
Price basis:	CIF main India port, per dmtu
Credit/Payment terms:	Cash/Net 30-60 standard
Packaging:	Bulk, container
Loading Location:	Producing nation's main port
Type:	Spot
Currency:	US dollar
Weight Unit:	Dry Tonne
Size:	Multiple containers or larger
Timing:	No more than 12 weeks forward
Main Consumer Markets:	India inland terminals/locations
Pricing:	Business reported by sellers to buyers, including producers to traders
Duties/Tariffs:	No

India Lump 44% Mn CIF *[Discontinued]*

DataLab Name:	Manganese Ore, Lump, 44% Mn, Spot price; India, CIF
Grade:	44% Mn (Range 42-45%)
Price basis:	Per dmtu unit, CIF India main ports
Credit/Payment terms:	Cash/Net 30-60 standard
Packaging:	Bulk, container
Loading Location:	Producing nation's main port
Type:	Spot
Currency:	US dollar
Weight Unit:	Dry Tonne
Size:	Multiple containers or larger
Timing:	No more than 12 weeks forward
Main Consumer Markets:	India inland terminals/locations
Pricing:	Business reported by sellers to buyers, including producers to traders
Duties/Tariffs:	No

Manganese Metal

China EMM Flake 99.7% Mn FOB

DataLab Name:	Manganese Metal, Electrolytic Flake 99.7% Mn, Spot price; China, FOB
Grade:	Mn 99.7% min (electrolytic)
Price basis:	FOB Guangzhou Huangpu port, China
Credit/Payment terms:	Line of credit/Wire Transfer
Loading Location:	Chinese ports - foreign destination ports
Type:	Spot
Currency:	US dollar
Weight Unit:	Tonne
Size:	Bulk, typically 25 mt container
Timing:	4-8 weeks
Main Consumer Markets:	Japan, South Korea, the US, India and EU
Pricing:	Business reported by sellers to buyers, including producers to traders
Duties/Tariffs:	No export duty
Frequency:	Bi-weekly, every Tuesday and Thursday

China EMM Flake 99.7% Mn EXW (dom.)

DataLab Name:	Manganese Metal, Electrolytic Flake 99.7% Mn, Spot price; China, EXW
Grade:	Mn 99.7% min (electrolytic)
Price basis:	China ex-works
Credit/Payment terms:	Cash
Loading Location:	Producing plant
Type:	Spot
Currency:	RMB
Weight Unit:	Tonne
Size:	100 t +
Timing:	n/a
Main Consumer Markets:	China mainland
Pricing:	Business reported by sellers to buyers, including producers to traders
Duties/Tariffs:	VAT included, any other duties excluded
Frequency:	Bi-weekly, every Tuesday and Thursday

US EMM 99.7% Mn EXW

DataLab Name:	Manganese Metal, Electrolytic 99.7% Mn, Spot price; USA, ex-warehouse
Grade:	99.7% Mn
Price basis:	US ex-warehouse
Credit/Payment terms:	Cash/Net 30-60 standard
Packaging:	Bulk
Loading Location:	US warehouse, typically Pittsburgh or Chicago
Type:	Spot
Currency:	US dollar in cents
Weight Unit:	Pounds
Size:	Truckload or larger
Timing:	No more than 16 weeks forward
Main Consumer Markets:	US inland terminals/locations
Pricing:	Business reported by sellers to buyers, including producers to traders
Duties/Tariffs:	Duty paid

EU EMM 99.7% Mn DDP

DataLab Name:	Manganese Metal, Electrolytic 99.7% Mn, Spot price; Europe, DDP
Grade:	99.7% Mn
Price basis:	Delivered, duty paid, per tonne
Credit/Payment terms:	Cash/Net 30-60 standard
Packaging:	Bulk
Loading Location:	Rotterdam, or producing plant
Type:	Spot
Currency:	US dollar
Weight Unit:	Tonnes
Size:	Truckload or larger
Timing:	No more than 12 weeks forward
Main Consumer Markets:	European inland terminals/locations
Pricing:	Business reported by sellers to buyers, including producers to traders
Duties/Tariffs:	Duty paid

Manganese Sulfate

China Manganese sulfate 32% Mn min, EXW

DataLab Name:	China Manganese sulfate 32% Mn min, EXW
Grade:	32% Mn min, Fe 0.001% max, Zn 0.001% max, Cu 0.001% max, Pb 0.001% max, Cd 0.0005% max, K 0.01% max, Na 0.01% max, Ca 0.01% max, Mg 0.01%, max, Ni 0.005% max, Co 0.005% max
Price basis:	China ex-works
Credit/Payment terms:	Bank acceptance bill/Cash
Loading Location:	Producing plant
Type:	Spot
Currency:	RMB

Weight Unit:	Tonne
Size:	33t +
Timing:	n/a
Main Consumer Markets:	China mainland
Pricing:	Business reported by sellers to buyers, including producers to traders
Duties/Tariffs:	VAT included,any other duties excluded
Frequency:	Monthly

Chrome

Ferrochrome

US HC 47-55% Cr EXW *[Discontinued]*

DataLab name:	Chrome, High Carbon, 47-55% Cr, Spot price; USA, ex-warehouse
Grade:	47-55% Cr, 6-8% C
Price basis:	US ex-warehouse, contained Cr
Credit/Payment terms:	Cash/Net 30-60 standard
Packaging:	Bulk
Loading Location:	US warehouse, typically Pittsburgh or Chicago
Type:	Spot
Currency:	US dollar in cents
Weight Unit:	Pounds
Size:	Multiple truckloads
Timing:	No more than 12 weeks forward
Main Consumer Markets:	US inland terminals/locations
Pricing:	Business reported by sellers to buyers, including producers to traders
Duties/Tariffs:	Duty paid

EU HC 47-55% Cr DDP Benchmark *[Discontinued]*

DataLab Name:	Chrome, High Carbon, 47-55% Cr, Benchmark, Spot price; Europe, DDP
Grade:	47-55% Cr, 6-8% C
Price basis:	South African benchmark minus average discounts
Credit/Payment terms:	Cash/Net 30-60 standard
Packaging:	Bulk
Loading Location:	Rotterdam warehouse or producing plant, additional locations
Type:	Benchmark minus discounts
Currency:	US dollar in cents
Weight Unit:	Pounds
Size:	Multiple truckloads
Timing:	No more than 12 weeks forward
Main Consumer Markets:	European inland terminals/locations
Pricing:	Business reported by sellers to buyers, including producers to traders
Duties/Tariffs:	Duty paid

EU HC 47-55% Cr DDP Free Market *[Discontinued]*

DataLab Name:	Chrome, High Carbon, 47-55% Cr, Free Market, Spot price; Europe, DDP
Grade:	47-55% Cr, 6-8% C
Price basis:	Delivered, Duty paid, contained Cr
Credit/Payment terms:	Cash/Net 30-60 standard
Packaging:	Bulk
Loading Location:	Rotterdam warehouse or producing plant, additional locations
Type:	Spot
Currency:	US dollar in cents
Weight Unit:	Pounds
Size:	Multiple truckloads
Timing:	No more than 12 weeks forward
Main Consumer Markets:	European inland terminals/locations
Pricing:	Business reported by sellers to buyers, including producers to traders
Duties/Tariffs:	Duty paid

EU Chrome Reference Value

DataLab Name:	CRU Reference Price Index, Chrome, Market- Europe
Price Basis:	Derived from the following this calculation process

China HC 49-70% Cr DAP (dom.) *[Discontinued]*

DataLab Name:	Chrome, High Carbon, 49-70% Cr, Spot price; China, DDP
Grade:	49-70% Cr; 6-10% C

Price basis:	China ex-producing point/warehouse
Credit/Payment terms:	Line of credit/Wire Transfer
Loading Location:	Major Chinese stainless mills
Type:	Spot
Currency:	USD cents
Weight Unit:	Pounds
Size:	Truckload volumes
Timing:	2-8 week delivery time
Main Consumer Markets:	China inland terminals/locations
Pricing:	Business reported by sellers to buyers, including producers to traders
Duties/Tariffs:	VAT unpaid for US dollar/VAT paid for Chinese yuan
Frequency:	Bi-weekly, every Tuesday and Thursday

China HC 49-70% Cr CIF (impt.) *[Discontinued]*

DataLab Name:	Chrome, High Carbon, 49-70% Cr, Spot price; China, CIF
Grade:	49-70% Cr; 6% C
Price basis:	CIF China ports
Credit/Payment terms:	Line of credit/Wire Transfer
Loading Location:	Major Chinese ports and stainless mills
Type:	Spot
Currency:	US dollar
Weight Unit:	Pounds/Tonne
Size:	25 mt per container
Timing:	4-8 week delivery
Main Consumer Markets:	China inland terminals/locations
Pricing:	Business reported by sellers to buyers, including producers to traders
Duties/Tariffs:	Import duty paid

China HC 48-63% Cr CIF (impt.)

DataLab Name:	Chrome, High Carbon, 49-70% Cr, Spot price; China, CIF
Grade:	48-63% Cr; 6-10% C
Price basis:	CIF China ports
Credit/Payment terms:	Line of credit/Wire Transfer
Loading Location:	Major Chinese ports and stainless mills
Type:	Spot
Currency:	US dollar
Weight Unit:	Pounds/Tonne
Size:	25 mt per container
Timing:	4-8 week delivery
Main Consumer Markets:	China inland terminals/locations
Pricing:	Business reported by sellers to buyers, including producers to traders
Duties/Tariffs:	Import duty paid
Frequency:	Bi-weekly, every Tuesday and Thursday

China HC 49-53% Cr EXW

DataLab Name:	Chrome, High Carbon, 49-53% Cr, Spot price; China, EXW
Grade:	49-53% Cr; 6-10% C
Price basis:	China ex-producing point/warehouse
Credit/Payment terms:	Cash
Loading Location:	Producing plant/warehouse
Type:	Spot
Currency:	RMB
Weight Unit:	Tonnes
Size:	500 t +
Timing:	n/a
Main Consumer Markets:	China inland terminals/locations
Pricing:	Business reported by sellers to buyers, including producers to traders
Duties/Tariffs:	VAT included, any other duties excluded
Frequency:	Bi-weekly, every Tuesday and Thursday

EU HC 54-60% Cr DDP

DataLab Name:	Chrome, High Carbon, 54-60% Cr, Spot price; Europe, DDP
Grade:	54-60% Cr; 2-4% Si; 0.03-0.04% Ph; 6-8% C
Price basis:	Delivered, Duty paid, contained Cr
Credit/Payment terms:	Cash/Net 30-60 standard
Packaging:	Bulk
Loading Location:	Rotterdam warehouse or producing plant, additional locations
Type:	Spot
Currency:	US dollar in cents
Weight Unit:	Pounds
Size:	Multiple truckloads
Timing:	No more than 12 weeks forward
Main Consumer:	European inland terminals/locations
Pricing:	Business reported by sellers to buyers, including producers to traders
Duties/Tariffs:	Duty paid

US HC 62-70% Cr EXW

DataLab Name:	Chrome, High Carbon, 62-70% Cr, Spot price; USA, ex-warehouse
Grade:	62-70% Cr; 6-8% C; 1.5% max Si
Price basis:	US Ex-warehouse, contained Cr
Credit/Payment terms:	Cash/Net 30-60 standard
Packaging:	Bulk
Loading Location:	US warehouse, typically Pittsburgh or Chicago
Type:	Spot
Currency:	US dollar in cents
Weight Unit:	Pounds
Size:	Multiple truckloads
Timing:	No more than 12 weeks forward
Main Consumer Markets:	US inland terminals/locations
Pricing:	Business reported by sellers to buyers, including producers to traders
Duties/Tariffs:	Duty paid

EU HC 62-70% Cr DDP *[Discontinued]*

DataLab Name:	Chrome, High Carbon, 62-70% Cr, Spot price; Europe, DDP
Grade:	62-70% Cr; 6-8% C; 1.5% max Si
Price basis:	Delivered, Duty paid, contained Cr
Credit/Payment terms:	Cash/Net 30-60 standard
Packaging:	Bulk
Loading Location:	Rotterdam warehouse or producing plant, additional locations
Type:	Spot
Currency:	US dollar in cents
Weight Unit:	Pounds
Size:	Multiple truckloads
Timing:	No more than 12 weeks forward
Main Consumer Markets:	European inland terminals/locations
Pricing:	Business reported by sellers to buyers, including producers to traders
Duties/Tariffs:	Duty paid

EU HC 65-70% Cr DDP

DataLab Name:	Chrome, High Carbon, 65-70% Cr, Spot price; Europe, DDP
Grade:	65-70% Cr; 6-8% C; 1.5% max Si
Price basis:	Delivered, Duty paid, contained Cr
Credit/Payment terms:	Cash/Net 30-60 standard
Packaging:	Bulk
Loading Location:	Location: Rotterdam warehouse or producing plant, additional locations
Type:	Spot
Currency:	US dollar in cents
Weight Unit:	Pounds
Size:	Multiple truckloads
Timing:	No more than 12 weeks forward
Main Consumer Markets:	European inland terminals/locations
Pricing:	Business reported by sellers to buyers, including producers to traders

Duties/Tariffs: Duty paid

EU HC 60-64.9% Cr DDP

DataLab Name: Chrome, High Carbon, 60-64.9% Cr, Spot price; Europe, DDP
Grade: 60-64.9% Cr; 6-9% C; 3% max Si
Price basis: Delivered, Duty paid, contained Cr
Credit/Payment terms: Cash/Net 30-60 standard
Packaging: Bulk
Loading Location: Rotterdam warehouse or producing plant, additional locations
Type: Spot
Currency: US dollar in cents
Weight Unit: Pounds
Size: Multiple truckloads
Timing: No more than 12 weeks forward
Main Consumer Markets: European inland terminals/locations
Pricing: Business reported by sellers to buyers, including producers to traders
Duties/Tariffs: Duty paid

US LC 0.05% C EXW

DataLab Name: Chrome, Low Carbon, 0.05% C, Spot price; USA, ex-warehouse
Grade: 65-70% Cr; 0.05 C
Price basis: US Ex-warehouse, contained Cr
Credit/Payment terms: Cash/Net 30-60 standard
Packaging: Bulk
Loading Location: US warehouse, typically Pittsburgh or Chicago
Type: Spot
Currency: US dollar in cents
Weight Unit: Pounds
Size: Minimum 10 mt
Timing: No more than 12 weeks forward
Main Consumer Markets: US inland terminals/locations
Pricing: Business reported by sellers to buyers, including producers to traders
Duties/Tariffs: Duty paid

EU LC 0.05% C DDP

DataLab Name: Chrome, Low Carbon, 0.05% C, Spot price; Europe, DDP
Grade: 65-70% Cr; 0.05 C
Price basis: Delivered, Duty paid, contained Cr
Credit/Payment terms: Cash/Net 30-60 standard
Packaging: Bulk
Loading Location: Rotterdam warehouse or producing plant, additional locations
Type: Spot
Currency: US dollar in cents
Weight Unit: Pounds
Size: Single truckload
Timing: No more than 12 weeks forward
Main Consumer Markets: European inland terminals/locations
Pricing: Business reported by sellers to buyers, including producers to traders
Duties/Tariffs: Duty paid

US LC 0.10% C EXW

DataLab Name: Chrome, Low Carbon, 0.10% C, Spot price; USA, ex-warehouse
Grade: 65-70% Cr; 0.10 C
Price basis: US ex-warehouse, contained Cr
Credit/Payment terms: Cash/Net 30-60 standard
Packaging: Bulk
Loading Location: US warehouse, typically Pittsburgh or Chicago
Type: Spot
Currency: US dollar in cents
Weight Unit: Pounds
Size: Single truckload
Timing: No more than 12 weeks forward

Main Consumer Markets: US inland terminals/locations
 Pricing: Business reported by sellers to buyers, including producers to traders
 Duties/Tariffs: Duty paid

EU LC 0.10% C DDP

DataLab Name: Chrome, Low Carbon, 0.10% C, Spot price; Europe, DDP
Grade: 65-70% Cr; 0.10 C
Price basis: Delivered, duty paid, contained Cr
Credit/Payment terms: Cash/Net 30-60 standard
Packaging: Bulk
Loading Location: Rotterdam warehouse or producing plant, additional locations
Type: Spot
Currency: US dollar in cents
Weight Unit: Pounds
Size: Multiple truckloads
Timing: No more than 12 weeks forward
 Main Consumer Markets: European inland terminals/locations
 Pricing: Business reported by sellers to buyers, including producers to traders
 Duties/Tariffs: Duty paid

US LC 0.15% C EXW

DataLab Name: Chrome, Low Carbon, 0.15% C, Spot price; USA, ex-warehouse
Grade: 65-70% Cr; 0.15 C
Price basis: US ex-warehouse, contained Cr
Credit/Payment terms: Cash/Net 30-60 standard
Packaging: Bulk
Loading Location: US warehouse, typically Pittsburgh or Chicago
Type: Spot
Currency: US dollar in cents
Weight Unit: Pounds
Size: Single truckload
Timing: No more than 12 weeks forward
 Main Consumer Markets: US inland terminals/locations
 Pricing: Business reported by sellers to buyers, including producers to traders
 Duties/Tariffs: Duty paid

US FeCr/Sr EXW

DataLab Name: Chrome, Fe Cr/Sr, Spot price; USA, ex-warehouse
Grade: 40% Cr; 40% Si
Price basis: US ex-warehouse
Credit/Payment terms: Cash/Net 30-60 standard
Packaging: Bulk
Loading Location: US warehouse, typically Pittsburgh or Chicago
Type: Spot
Currency: US dollar in cents
Weight Unit: Pounds
Size: Multiple truckloads
Timing: No more than 12 weeks forward
 Main Consumer Markets: US inland terminals/locations
 Pricing: Formula price based on US FeSi and US HC FeCr 60-70% Cr
 Duties/Tariffs: Duty paid

Japan HC 60-70% CIF

DataLab Name: Chrome, High Carbon, Spot price; Japan, CIF
Grade: 60-70%
Price basis: CIF major Japanese port, contained Cr
Credit/Payment terms: Cash/Net 30 days
Packaging: Bulk
Loading Location: Producing ports
Type: Spot
Currency: US cents
Weight Unit: Pounds

Size: Multiple containers or larger
 Timing: No more than eight weeks forward, with some leeway for holidays
 Main Consumer Markets: Japan inland terminals/locations
 Pricing: Business reported by sellers to buyers, including producers to traders
 Duties/Tariffs: VAT unpaid

Japan LC 0.1% CIF

DataLab Name: Chrome, Low Carbon, 0.10% C, Spot price; Japan, CIF
 Grade: 0.10 C
 Price basis: CIF major Japanese port, contained Cr
 Credit/Payment terms: Cash/Net 30 days
 Packaging: Bulk
 Loading Location: Producing ports
 Type: Spot
 Currency: US cents
 Weight Unit: Pounds
 Size: Multiple containers or larger
 Timing: No more than 12 weeks forward, with some leeway for holidays
 Main Consumer Markets: Japan inland terminals/locations
 Pricing: Business reported by sellers to buyers, including producers to traders
 Duties/Tariffs: VAT unpaid

Chrome Ore

China Lump 42% Cr CIF (TR orig.)

DataLab Name: Chrome, Lump, 42% Cr, Spot Price; Turkey origin, CIF
 Grade: 42% lumpy, 2:6:1 Cr to Fe ratio
 Price basis: CIF Chinese main port
 Credit/Payment terms: Cash/Net 30-60 standard
 Packaging: Bulk, container
 Loading Location: Turkish main port
 Type: Spot
 Currency: US dollar
 Weight Unit: Dry Tonne
 Size: Multiple containers or larger
 Timing: No more than 12 weeks forward
 Main Consumer Markets: China inland terminals/locations
 Pricing: Business reported by sellers to buyers, including producers to traders
 Duties/Tariffs: Duty paid
 Frequency: Bi-weekly, every Tuesday and Thursday

China Conc. 48% Cr CIF (TR orig.)

DataLab Name: Chrome, Concentrates, 46-48% Cr, Spot price; China, Turkey origin, CIF
 Grade: 48% Cr
 Price basis: CIF main Chinese port
 Credit/Payment terms: Cash/Net 30-60 standard
 Packaging: Bulk, container
 Loading Location: Turkish main port
 Type: Spot
 Currency: US dollar
 Weight Unit: Dry Tonne
 Size: Multiple containers or larger
 Timing: No more than 12 weeks forward
 Main Consumer Markets: China inland terminals/locations
 Pricing: Business reported by sellers to buyers, including producers to traders
 Duties/Tariffs: Duty paid
 Frequency: Bi-weekly, every Tuesday and Thursday

China Ore 38-40% Cr CIF (ZA orig.)

DataLab Name: Chrome, Concentrates, 38-40% Cr, Spot price; China, South Africa origin, CIF
 Grade: 38-40% lumpy

Price basis: CIF main Chinese port
 Credit/Payment terms: Cash/Net 30-60 standard
 Packaging: Bulk, container
 Loading Location: Main South African port
 Type: Spot
 Currency: US dollar
 Weight Unit: Dry Tonne
 Size: Multiple containers or larger
 Timing: No more than 12 weeks forward
 Main Consumer Markets: China inland terminals/locations
 Pricing: Business reported by sellers to buyers, including producers to traders
 Duties/Tariffs: Duty paid
 Frequency: Bi-weekly, every Tuesday and Thursday

China Conc. 44% Cr CIF (ZA orig.)

DataLab Name: Chrome, Concentrates, 44% Cr, Spot price; China, South Africa origin, CIF
 Grade: 44% Cr
 Price basis: CIF Chinese main port
 Credit/Payment terms: Cash/Net 30-60 standard
 Packaging: Bulk, container
 Loading Location: Main South African port
 Type: Spot
 Currency: US dollar
 Weight Unit: Dry Tonne
 Size: Multiple containers or larger
 Timing: No more than 12 weeks forward
 Main Consumer Markets: China inland terminals/locations
 Pricing: Business reported by sellers to buyers, including producers to traders
 Duties/Tariffs: Duty paid
 Frequency: Bi-weekly, every Tuesday and Thursday

China UG2 42% Cr CIF (ZA orig.)

DataLab Name: Chrome, UG2 Concentrates, 42% Cr, Spot price; China, South Africa origin, CIF
 Grade: 42% Cr
 Price basis: CIF main Chinese port
 Credit/Payment terms: Cash/Net 30-60 standard
 Packaging: Bulk, container
 Loading Location: Main South African port
 Type: Spot
 Currency: US dollar
 Weight Unit: Tonne
 Size: Multiple containers or larger
 Timing: No more than 12 weeks forward
 Main Consumer Markets: China inland terminals/locations
 Pricing: Business reported by sellers to buyers, including producers to traders
 Duties/Tariffs: No
 Frequency: Bi-weekly, every Tuesday and Thursday

China UG2 42% Cr (ZA orig.) FOT Tianjin

DataLab Name: Chrome, UG2 Concentrates, 42% Cr, Spot price; China, South Africa origin, FOT
 Grade: 42% Cr
 Price basis: FOT Tianjin port, per dmtu
 Credit/Payment terms: Cash
 Packaging: Bulk, container
 Loading Location: Producing plant
 Type: Spot
 Currency: RMB
 Weight Unit: Dry tonne
 Size: Multiple containers or larger
 Timing: n/a
 Main Consumer Markets: Smelters in China and traders
 Pricing: Business reported by sellers to buyers

Duties/Tariffs: Duty paid
 Frequency: Bi-weekly, every Tuesday and Thursday

Chrome Metal

US Aluminothermic 99% Cr EXW

DataLab Name: Chrome, Aluminothermic, 99% Cr, Spot price; USA, ex-warehouse
Grade: Aluminothermic chrome metal, 99% Cr
Price basis: US ex-warehouse
Credit/Payment terms: Cash/Net 30-60 standard
Packaging: Bulk
Loading Location: US warehouse, typically Pittsburgh or Chicago
Type: Spot
Currency: US dollar
Weight Unit: Pounds
Size: 5 mt
Timing: No more than 12 weeks forward
Main Consumer Markets: US inland terminals/locations
Pricing: Business reported by sellers to buyers, including producers to traders
Duties/Tariffs: Duty paid

EU Aluminothermic 99% Cr DDP

DataLab Name: Chrome, Aluminothermic, 99% Cr, Spot price; Europe, DDP
Grade: Aluminothermic chrome metal, 99% Cr
Price basis: Delivered, Duty Paid, per Tonne
Credit/Payment terms: Cash/Net 30-60 standard
Packaging: Bulk
Loading Location: Rotterdam
Type: Spot
Currency: US dollar
Weight Unit: Tonne
Size: Partial and Full Truckloads
Timing: No more than 12 weeks forward
Main Consumer Markets: EU inland terminals/locations
Pricing: Business reported by sellers to buyers, including producers to traders
Duties/Tariffs: Duty paid

Molybdenum

Ferromolybdenum

US FeMo 65% Mo EXW

DataLab Name:	Molybdenum, FeMo, Spot price; USA, EXW
Grade:	65% min Mo – 0.5% Cu; 1.5% Si; 0.06% P; 0.1% C; 0.1% S.
Price basis:	US ex-warehouse
Credit/Payment terms:	Cash/Net 30
Loading Location:	Major US ports/warehouse; domestic destinations only
Type:	Spot
Currency:	US dollar
Weight Unit:	Pounds of Mo
Size:	5 mt
Timing:	No more than 8 weeks forward
Main Consumer Markets:	US terminals/locations
Pricing:	Business reported by sellers to buyers – no inter-trade activity
Duties/Tariffs:	Duty paid

EU FeMo 65% Mo DDP

DataLab Name:	Molybdenum, FeMo, Spot price; Europe, DDP
Grade:	65% min Mo – 0.5% Cu; 1.5% Si; 0.06% P; 0.1% C; 0.1% S.
Price basis:	DDP
Credit/Payment terms:	Cash/Net 30
Loading Location:	Major European ports/warehouse
Type:	Spot
Currency:	US dollar
Weight Unit:	Kilos of Mo
Size:	10 mt to 20 mt (partial and full truckloads)
Timing:	No more than 8 weeks forward
Main Consumer Markets:	European terminals/locations
Pricing:	Business reported by sellers to buyers – no inter-trade activity
Duties/Tariffs:	Duty paid

China FeMo 60% Mo DAP

DataLab Name:	Molybdenum, FeMo, Spot price; China, DAP
Grade:	60% min Mo
Price basis:	Delivered consumer
Credit/Payment terms:	Cash/Net 30 days
Type:	Spot
Currency:	Rmb
Weight Unit:	Tonne
Size:	10 mt to 20 mt (partial and full truckloads)
Timing:	No more than four weeks forward, with some leeway for holiday
Main Consumer Markets:	Chinese mills
Pricing:	Business reported by sellers to buyers – no inter-trade activity
Duties/Tariffs:	VAT included, any other duties excluded
Frequency:	Bi-weekly, every Tuesday and Thursday

Molybdenum Oxide

US Oxide 60% Mo EXW

DataLab Name:	Molybdenum, Oxide, Spot price; USA, EXW
Grade:	60% min Mo – 0.5% Cu, 0.1% P, lead and sulfur
Price basis:	US ex-warehouse
Credit/Payment terms:	Cash/Net 30
Loading Location:	Major US ports/warehouse
Type:	Spot
Currency:	US dollar

Weight Unit: Pounds of Mo
 Size: 5 mt packed in bags or drums
 Timing: No more than 8 weeks forward
 Main Consumer Markets: US terminals/locations
 Pricing: Business reported by sellers to buyers – no inter-trade activity
 Duties/Tariffs: Duty paid

EU Oxide 60% Mo EXW

DataLab Name: Molybdenum, Oxide, Spot price; Europe, EXW
 Grade: 60% min Mo – 0.5% Cu, 0.1% P, lead and sulfur
 Price basis: EXW
 Credit/Payment terms: Cash/Net 30
 Loading Location: Major Europe ports/warehouse
 Type: Spot
 Currency: US dollar
 Weight Unit: Pounds of Mo
 Size: 10 mt to 20 mt (partial and full truckloads) packed in bags or drums
 Timing: No more than 8 weeks forward
 Main Consumer Markets: Western Europe terminals/locations
 Pricing: Business reported by sellers to buyers – no inter-trade activity
 Duties/Tariffs: Duty paid

Main Asia Ports Oxide CIF

DataLab Name: Molybdenum, Oxide, Spot price; Asia, Main ports, CIF
 Grade: 60% min Mo – 0.5% Cu, 0.1% P, lead and sulfur
 Price basis: CIF Main Asia Ports (other locations in the Asian region may be reflected in the assessment after normalisation)
 Credit/Payment terms: Cash/Net 30 days
 Type: Spot
 Currency: US dollar
 Weight Unit: Pounds of Mo
 Size: 10 mt to 20 mt (partial and full truckloads) packed in bags or drums
 Timing: No more than four weeks forward, with some leeway for holiday
 Main Consumer Markets: Japanese, Chinese, S. Korean terminals/locations (other locations in the Asian region may be reflected in the assessment after normalisation)
 Pricing: Business reported by sellers to buyers – no inter-trade activity
 Duties/Tariffs: Duty paid
 Frequency: Weekly, every Friday

EU Moly Metal DDP

DataLab Name: EU Mo Metal 99.8% DDP
 Grade: 99.8% min Mo
 Price basis: Delivered, Duty Paid, per Kilo
 Credit/Payment terms: Cash/Net 30
 Loading Location: Major Europe ports/warehouse
 Type: Spot
 Currency: US dollar
 Weight Unit: Kilogramme
 Size: 5 mt to 20 mt
 Timing: No more than 8 weeks forward
 Main Consumer Markets: Western Europe terminals/locations
 Pricing: Business reported by sellers to buyers – no inter-trade activity
 Duties/Tariffs: Duty paid

Noble Alloys & Minor Metals

Ferrotitanium

US FeTi 68-72% Ti EXW

DataLab Name:	Ferrotitanium, 68-72% Ti, Spot price; USA, ex-warehouse
Grade:	68-72% min Ti – max: 0.5% N; 0.2% C; 6% Al; 1% Sn; 3% V
Price basis:	US ex-warehouse
Credit/Payment terms:	Cash/Net 30
Loading Location:	Major US ports/warehouse
Type:	Spot
Currency:	US dollar
Weight Unit:	Pounds of Ti
Size:	Minimum 5 mt
Timing:	No more than 8 weeks forward
Main Consumer Markets:	US terminals/locations
Pricing:	Business reported by sellers to buyers – no inter-trade activity
Duties/Tariffs:	Duty paid

EU FeTi 68-72% Ti DDP

DataLab Name:	Ferrotitanium, 68-72% Ti, Spot price; Europe, DDP
Grade:	68-72% min Ti – max: 0.5% N; 0.2% C; 6% Al; 1% Sn; 3% V
Price basis:	DDP
Credit/Payment terms:	Cash/Net 30
Loading Location:	Major European ports/warehouse
Type:	Spot
Currency:	US dollar
Weight Unit:	Kilograms of Ti
Size:	Minimum 2 mt
Timing:	No more than 8 weeks forward
Main Consumer Markets:	European terminals/locations
Pricing:	Business reported by sellers to buyers – no inter-trade activity
Duties/Tariffs:	Duty paid

Ferrotungsten

US FeW 72-75% W EXW

DataLab Name:	Ferrotungsten, 72-75% W, Spot price; USA, ex-warehouse
Grade:	72-75% min W – 0.5% Si, 0.05% Cu, 0.25% Mn, 0.2% C
Price basis:	US ex-warehouse
Credit/Payment terms:	Cash/Net 30
Loading Location:	Major US ports/warehouse
Type:	Spot
Currency:	US dollar
Weight Unit:	Pounds of W
Size:	2 mt to 10 mt uncrushed 100x10, packed in 100-kilo drums.
Timing:	No more than 8 weeks forward
Main Consumer Markets:	US terminals/locations
Pricing:	Business reported by sellers to buyers – no inter-trade activity
Duties/Tariffs:	Duty paid

EU FeW 72-75% W DDP

DataLab Name:	Ferrotungsten, 72-75% W, Spot price; Europe, DDP
Grade:	72-75% min W – 0.5% Si, 0.05% Cu, 0.25% Mn, 0.2% C
Price basis:	DDP
Credit/Payment terms:	Cash/Net 30
Loading Location:	Major European ports/warehouse
Type:	Spot

Currency:	US dollar
Weight Unit:	Kilograms of W
Size:	Minimum 2 mt
Timing:	No more than 8 weeks forward
Main Consumer Markets:	European terminals/locations
Pricing:	Business reported by sellers to buyers – no inter-trade activity
Duties/Tariffs:	Duty paid

Ferrovanadium

US FeV 80% V EXW

DataLab Name:	Ferrovanadium, 80% V, Spot price; USA, ex-warehouse
Grade:	80% min V – 1.50%max Al; 1.50%max Si; 0.25%max C; 0.05%max S; 0.05%max P
Price basis:	US ex-warehouse
Credit/Payment terms:	Cash/Net 30
Loading Location:	Major US ports/warehouse
Type:	Spot
Currency:	US dollar
Weight Unit:	Pounds of V
Size:	5 mt packed in 25-lb bags of V on pallets
Timing:	No more than 8 weeks forward
Main Consumer Markets:	US terminals/locations
Pricing:	Business reported by sellers to buyers – no inter-trade activity
Duties/Tariffs:	Duty paid

EU FeV 80% V DDP

DataLab Name:	Ferrovanadium, 80% V, Spot price; Europe, DDP
Grade:	80% min V – 1.50%max Al; 1.50%max Si; 0.25%max C; 0.05%max S; 0.05%max P
Price basis:	DDP
Credit/Payment terms:	Cash/Net 30
Loading Location:	Major Europe ports/warehouse
Type:	Spot
Currency:	US dollar
Weight Unit:	Kilograms of V
Size:	Minimum 5 mt packed in 250kg drums or supersacks
Timing:	No more than 8 weeks forward
Main Consumer Markets:	Europe terminals/locations
Pricing:	Business reported by sellers to buyers – no inter-trade activity
Duties/Tariffs:	Duty paid

Tantalum

US Ta Ore 30% Ta EXW *[Discontinued]*

DataLab Name:	Tantalum Ore, 30% Ta₂O₅, Spot price; USA, ex-warehouse
Grade:	30% Ta
Price basis:	US ex-warehouse
Credit/Payment terms:	Cash/Net 30
Loading Location:	Major US ports/warehouse
Type:	Spot
Currency:	US dollar
Weight Unit:	Pounds of Ta
Size:	2 mt to 5 mt.
Timing:	No more than 8 weeks forward
Main Consumer Markets:	US terminals/locations
Pricing:	Business reported by sellers to buyers – no inter-trade activity
Duties/Tariffs:	Duty paid

Tungsten

US W Ore 65% WO3 EXW [Discontinued]

DataLab name:	Tungsten Ore, 65% WO3, Spot price; US, ex-warehouse
Grade:	65% min WO3 – S 0.7% max S; 0.05% max P; 0.15% max As; 0.13% max Cu; 0.2% max Sn; 7% max SiO2; 5% max Ca
Price basis:	US ex-warehouse
Credit/Payment terms:	Cash/Net 30
Loading Location:	Major US ports/warehouse
Type:	Spot
Currency:	US dollar
Weight Unit:	Pounds of W
Size:	5 mt to 10 mt
Timing:	No more than 8 weeks forward
Main Consumer Markets:	US terminals/locations
Pricing:	Business reported by sellers to buyers – no inter-trade activity
Duties/Tariffs:	Duty paid

US W APT 88.5% WO3 EXW [Discontinued]

DataLab Name:	Tungsten APT, 88.5% WO3, Spot price; USA, ex-warehouse
Grade:	88%.5 WO3
Price basis:	US ex-warehouse
Credit/Payment terms:	Cash/Net 30
Loading Location:	Major US ports/warehouse
Type:	Spot
Currency:	US dollar
Weight Unit:	Pounds of W
Size:	5 mt to 10 mt
Timing:	No more than 8 weeks forward
Main Consumer Markets:	US terminals/locations
Pricing:	Business reported by sellers to buyers – no inter-trade activity
Duties/Tariffs:	Duty paid

China FeW 72-75% W FOB

DataLab Name:	Ferrotungsten, 72-75% W, Spot price; China, FOB
Grade:	72-75% min W – S: 0.08% max; P: 0.05% max; C: 0.4% max; Si: 0.7% max; Mn: 0.5% max
Price basis:	Per kg W, fob China
Credit/Payment terms:	Cash
Loading Location:	Chinese ports
Type:	Spot
Currency:	US dollar
Weight Unit:	Tonne
Size:	10 mt min
Timing:	1-6 weeks
Main Consumer Markets:	Japan, South Korea, the US, and EU
Pricing:	Business reported by sellers to buyers, including producers to traders
Duties/Tariffs:	No export duty
Frequency:	Bi-weekly, every Tuesday and Thursday

China tungsten concentrate 65% WO3 – domestic DAP

DataLab Name:	Tungsten Ore, 60% WO3, Spot price; China, DAP
Grade:	WO3: 65% max; S: 0.8% max; P: 0.10% max; As: 0.15% max; Mo: 0.05% max; Ca: 5% max; Mn: 1.5% max; Cu: 0.25% max; Sn: 0.25% max; SiO2: 7.0% max
Price basis:	Per mt, delivered place, mainly Jiangxi
Credit/Payment terms:	Cash
Loading Location:	Producing plant
Type:	Spot
Currency:	RMB
Weight Unit:	Tonne
Size:	50t min

Timing: n/a
 Main Consumer Markets: Middle and east China
 Pricing: Business reported by sellers to buyers, including producers to traders
 Duties/Tariffs: VAT included, any other duties excluded
 Frequency: Bi-weekly, every Tuesday and Thursday

China APT 88.5% DAP

DataLab Name: [Tungsten APT, 88.5% WO3, Spot price; China, DAP](#)
 Grade: WO3: 88.5% min
 Price basis: Per mt, delivered place, mainly Hunan, Fujian, Sichuan
 Credit/Payment terms: Cash
 Loading Location: Producing plant
 Type: Spot
 Currency: RMB
 Weight Unit: Tonne
 Size: 20t min
 Timing: n/a
 Main Consumer Markets: Central, eastern and southern China
 Pricing: Business reported by sellers to buyers, including producers to traders
 Duties/Tariffs: VAT included, any other duties excluded
 Frequency: Bi-weekly, every Tuesday and Thursday

China APT 88.5% WO3 FOB

DataLab Name: [Tungsten APT, 88.5% WO3, Spot price; China, FOB](#)
 Grade: WO3: 88.5% min
 Price basis: Per mtu WO3, fob China
 Credit/Payment terms: Cash
 Loading Location: Chinese ports
 Type: Spot
 Currency: US dollar
 Weight Unit: Tonne
 Size: 17t min
 Timing: 1-6 weeks
 Main Consumer Markets: Japan, South Korea, the US, and EU
 Pricing: Business reported by sellers to buyers, including producers to traders
 Duties/Tariffs: No export duty
 Frequency: Bi-weekly, every Tuesday and Thursday

Vanadium

China V2O5 98% V FOB *[Discontinued]*

DataLab Name: [Vanadium, V2O5 98% V, Spot price; China, FOB](#)
 Grade: 98% V
 Price basis: FOB China
 Credit/Payment terms: Cash/Net 30
 Loading Location: Major Chinese ports
 Type: Spot
 Currency: US dollar
 Weight Unit: Pound
 Size: 5 mt to 10 mt
 Timing: No more than 8 weeks forward
 Main Consumer Markets: US terminals/locations
 Pricing: Business reported by sellers to buyers – no inter-trade activity
 Duties/Tariffs: Duty paid
 Frequency: Bi-weekly, every Tuesday and Thursday

China V2O5 98% V DAP (dom.)

DataLab Name: [Vanadium, V2O5 98% V, Spot price; China, DAP](#)
 Grade: 98% V
 Price basis: DAP China
 Credit/Payment terms: Cash/Net 30

Loading Location:	Major Chinese ports
Type:	Spot
Currency:	Chinese RMB
Weight Unit:	Tonne
Size:	5 mt to 10 mt
Timing:	No more than four weeks forward, with some leeway for holiday
Main Consumer Markets:	Chinese inland terminals/locations
Pricing:	Business reported by sellers to buyers – no inter-trade activity
Duties/Tariffs:	Duty paid
Frequency:	Bi-weekly, every Tuesday and Thursday

Minor Metals

US Antimony 99.65% Sb EXW

DataLab Name:	Antimony, 99.65% Sb, Spot price; USA, ex-warehouse
Grade:	99.65% min Sb ingot, max 0.15% As, max 50 ppm Se, balance Pb
Price basis:	US ex-warehouse
Credit/Payment terms:	Cash/Net 30
Loading Location:	Major US ports/warehouse; domestic destinations only
Type:	Spot
Currency:	US dollar
Weight Unit:	Pounds
Size:	10 mt to 20 mt (partial and full truckloads)
Timing:	No more than 8 weeks forward
Main Consumer Markets:	US inland terminals/locations
Pricing:	Business reported by sellers to buyers – no inter-trade activity
Duties/Tariffs:	Duty paid

EU Antimony 99.65% Sb EXW

DataLab Name:	Antimony, 99.65% Sb, Spot price; Europe, ex-warehouse
Grade:	99.65% min Sb ingot, max 0.15% As, max 50 ppm Se, balance Pb
Price basis:	EU ex-warehouse
Credit/Payment terms:	Cash/Net 30
Loading Location:	Rotterdam
Type:	Spot
Currency:	US dollar
Weight Unit:	Tonne
Size:	10 mt to 20 mt (partial and full truckloads)
Timing:	No more than 8 weeks forward
Main Consumer Markets:	EU inland terminals/locations
Pricing:	Business reported by sellers to buyers – no inter-trade activity
Duties/Tariffs:	Duty paid

US Bismuth 99.99% Bi EXW

DataLab Name:	Bismuth, 99.99% Bi, Spot price; USA, ex-warehouse
Grade:	99.99% min Bi ingot/shot
Price basis:	US ex-warehouse
Credit/Payment terms:	Cash/Net 30
Loading Location:	Major US ports/warehouse; domestic destinations only
Type:	Spot
Currency:	US dollar
Weight Unit:	Pounds
Size:	1 mt to 5 mt (small volume lots)
Timing:	No more than 8 weeks forward
Main Consumer Markets:	US inland terminals/locations
Pricing:	Business reported by sellers to buyers – no inter-trade activity
Duties/Tariffs:	Duty paid

EU Bismuth 99.99% Bi EXW

DataLab Name:	Bismuth, 99.99% Bi, Spot price; Europe, ex-warehouse
Grade:	99.99% min Bi ingot/shot

Price basis: EU ex-warehouse
 Credit/Payment terms: Cash/Net 30
 Loading Location: Rotterdam
 Type: Spot
 Currency: US dollar
 Weight Unit: Pounds
 Size: 1 mt to 5 mt (small volume lots)
 Timing: No more than 8 weeks forward
 Main Consumer Markets: EU inland terminals/locations
 Pricing: Business reported by sellers to buyers – no inter-trade activity
 Duties/Tariffs: Duty paid

US Cadmium 99.95% Cd EXW *[Discontinued]*

DataLab Name: [Cadmium, 99.95% Cd, Spot price; USA, ex-warehouse](#)
 Grade: 99.95% min Cd sticks
 Price basis: US ex-warehouse
 Credit/Payment terms: Cash/Net 30
 Loading Location: Major US ports/warehouse; domestic destinations only
 Type: Spot
 Currency: US dollar
 Weight Unit: Pounds
 Size: 500 lb to 5 mt (small volume lots)
 Timing: No more than 8 weeks forward
 Main Consumer Markets: US inland terminals/locations
 Pricing: Business reported by sellers to buyers – no inter-trade activity
 Duties/Tariffs: Duty paid

EU Cadmium 99.95% Cd EXW *[Discontinued]*

DataLab Name: [Cadmium, 99.95% Cd, Spot price; Europe, ex-warehouse](#)
 Grade: 99.95% min Cd sticks
 Price basis: EU ex-warehouse
 Credit/Payment terms: Cash/Net 30
 Loading Location: Rotterdam
 Type: Spot
 Currency: US dollar
 Weight Unit: Pounds
 Size: 500 lb to 5 mt (small volume lots)
 Timing: No more than 8 weeks forward
 Main Consumer Markets: US inland terminals/locations
 Pricing: Business reported by sellers to buyers – no inter-trade activity
 Duties/Tariffs: Duty paid

US Indium 99.99% In EXW

DataLab Name: [Indium, 99.99% In, Spot price; USA, ex-warehouse](#)
 Grade: 99.99% min In
 Price basis: US ex-warehouse
 Credit/Payment terms: Cash/Net 30
 Loading Location: Major US ports/warehouse; domestic destinations only
 Type: Spot
 Currency: US dollar
 Weight Unit: Kilos
 Size: 100 kg lots
 Timing: No more than 8 weeks forward
 Main Consumer Markets: US inland terminals/locations
 Pricing: Business reported by sellers to buyers – no inter-trade activity
 Duties/Tariffs: Duty paid

EU Indium 99.99% In EXW

DataLab Name: [Indium, 99.99% In, Spot price; Europe, ex-warehouse](#)
 Grade: 99.99% min In
 Price basis: EU ex-warehouse
 Credit/Payment terms: Cash/Net 30

Loading Location:	Rotterdam
Type:	Spot
Currency:	US dollar
Weight Unit:	Kilos
Size:	100 kg lots
Timing:	No more than 8 weeks forward
Main Consumer Markets:	EU inland terminals/locations
Pricing:	Business reported by sellers to buyers – no inter-trade activity
Duties/Tariffs:	Duty paid

US Selenium 99.5% Se EXW

DataLab Name:	Selenium, 99.5% Se, Spot price; USA, ex-warehouse
Grade:	99.5% min Se – min 200 mesh
Price basis:	US ex-warehouse
Credit/Payment terms:	Cash/Net 30
Loading Location:	Major US ports/warehouse; domestic destinations only
Type:	Spot
Currency:	US dollar
Weight Unit:	Pounds
Size:	500kg to 5 mt (small lot transactions)
Timing:	No more than 8 weeks forward
Main Consumer Markets:	US inland terminals/locations
Pricing:	Business reported by sellers to buyers – no inter-trade activity
Duties/Tariffs:	Duty paid

EU Selenium 99.5% Se EXW

DataLab Name:	Selenium, 99.5% Se, Spot price; Europe, ex-warehouse
Grade:	99.5% min Se – min 200 mesh
Price basis:	EU ex-warehouse
Credit/Payment terms:	Cash/Net 30
Loading Location:	Rotterdam
Type:	Spot
Currency:	US dollar
Weight Unit:	Pounds
Size:	500kg to 5 mt (small lot transactions)
Timing:	No more than 8 weeks forward
Main Consumer Markets:	EU inland terminals/locations
Pricing:	Business reported by sellers to buyers – no inter-trade activity
Duties/Tariffs:	Duty paid

Cobalt

EU 99.8% Co DDP

DataLab Name:	Cobalt, 99.8% Co, Spot price; Europe, DDP
Grade:	99.8% min Co
Price basis:	Delivered, duty paid, per pound
Credit/Payment terms:	Cash/Net 30-60 standard
Loading Location:	Rotterdam
Type:	Spot
Currency:	US Dollar
Weight Unit:	Pound
Size:	min 1 tonne
Timing:	No more than 8 weeks forward
Main Consumer Markets:	European inland terminals/locations
Pricing:	Business reported by sellers to buyers, including producers to traders

US 99.8% Co EXW

DataLab Name:	Cobalt, 99.8% Co, Spot price; USA, ex-warehouse
Grade:	99.8% min Co
Price basis:	US ex-warehouse

Credit/Payment terms:	Cash/Net 30-60 standard
Loading Location:	Major US ports/warehouse; domestic destinations only
Type:	Spot
Currency:	US Dollar
Weight Unit:	Pound
Size:	min 1 tonne
Timing:	No more than 8 weeks forward
Main Consumer Markets:	European inland terminals/locations
Pricing:	Business reported by sellers to buyers, including producers to traders

China 99.8% Co DAP

DataLab Name:	Cobalt, 99.8% Co, Spot price; China, DAP
Grade:	99.8% min Co
Price basis:	DAP
Credit/Payment terms:	Bank acceptance (other payment normalized)
Loading Location:	Producer plant
Type:	Spot - Assessed
Currency:	RMB
Weight Unit:	Metric ton of material
Size:	Min lot size 1 tonne
Timing:	No more than 4 weeks forward
Main Consumer Markets:	China
Pricing:	Business reported by sellers to buyers, including producers to traders
Duties/Tariffs:	VAT included, any other duties excluded
Frequency:	Weekly, every Friday