

# American Metal Market

## Non-ferrous Metals

Methodology and Price Specifications

American Metal Market

American Metal Market (AMM) is the leading independent supplier of market intelligence, pricing, assessments, analysis and commentary to the North American metals industries. AMM publishes widely used reference prices for non-ferrous metals, steel and scrap markets.

AMM is completely independent and has no vested commercial interest in any of the markets it prices.

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If you have any questions, please contact the pricing administrator, [pricing@amm.com](mailto:pricing@amm.com).

**AmericanMetalMarket**

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## The price discovery process methodology

The aim of this section is to provide a clear overview of the pricing methodology and price specifications of all the non-ferrous metals markets that AMM assesses.

AMM produces independent, fair and representative price assessments on the US non-ferrous metals market on a periodic basis, most often daily, weekly and monthly. It reserves the right, based on market variations or other factors, to change the frequency of any price, assessment or index published after notifying the market of its intent.

AMM's reporters are charged with speaking to a broad sample of market participants closely or specifically involved in the buying and selling of the metal of interest. Representatives of this market, may include both sides of known contract(s), may include producers, consumers, traders and brokers.

The reporters' goal is to discover as many details as possible of all market activity including concluded business, made offers, and received bids or prices quotes over a certain defined period – generally the period since the conclusion of the previous quotation.

Pricing data is usually collected via phone conversations and email exchanges with market participants; all the relevant pricing details are entered into the AMM pricing database and available for peer review.

AMM follows industry convention for all price points, assessments and indexes. Reporters ensure that the information they receive matches these conventions.

Occasionally AMM might receive price data for material where a transaction, contract, reported bid, offer or quote may differ in some element from convention – for instance, non-standard material quality, delivery terms or delivery location, cargo size or payment terms. In such cases AMM normalizes the data.

AMM does not use volume/quantity/tonnage weighted averages and will not use information that is suspect or from an anonymous sources who refuse to detail and verify their involvement in the industry.

At the end of a pricing session, AMM reporters will collate information received and review it before setting a price or assessment. In some cases, it will set a price range, to reflect the spread of prices at which business has been transacted, offered or bid. In other cases it will specify as single number, midpoint, or index which is compiled from single numbers and/or ranges.

While AMM does not use volume/quantity/tonnage weighted averages, it does use weighting in that greater importance is given to actual and/or concluded transaction data. Depending on market liquidity, it is not always possible to obtain actual transaction data; in such cases, AMM reserves

the right to base its prices on also on bids, offers and assessments and the context of related benchmarks and/or analogous transactions, bids, offers and assessments to inform any or no directional change in pricing.

When required, particularly in instances where a market moves dramatically, AMM seeks to confirm all information on deals either by requesting a signed copy of the contract; we also accept other materials as evidence of claimed deals and reserve the right to check deal information with the counterparty, middleman, trader or other knowledgeable participant.

AMM uses its expert judgment and applies consistent procedures to exclude outlying numbers and discard prices that it believes may be questionable, unrepeatable or otherwise unrepresentative of current market conditions.

All price assessment inputs are gathered by one or more reporters who cover that/those specific market(s). Prices are reviewed and approved by a senior reporter or editor (all of whom have access to the first reporter's or reporters' documentation) prior to publication. In this way AMM ensures consistency in the application of the methodology and the exercising of judgement.

In the event that no relevant data has been reported in the assessed period, for example as a result of holidays, AMM reserves the right to roll the price over.

### **Methodology and price specification review process**

AMM continually develops and revises its methodologies in consultation with industry participants. If there are changes in the industry, AMM will revise or adopt product specifications, trading terms, conditions or other factors that reflect and are representative of typical working practices in the

industry. All methodologies, changes, revisions, adaptations or other are approved by AMM's Editor and senior management.

Please note that changes to the methodology and/or details affecting the price are implemented following a formal consultation process which starts with AMM posting on its website and/or in its daily issue an advance pricing notice providing clear details

and timeframe for the change proposed. AMM concurrently reaches out to known participants in the specific market for feedback, comment and suggestions. The objective of the consultation process is to give market participants sufficient time and opportunity to provide feedback. AMM will consider all views about the change proposed, but reserves the right to make changes it deems necessary.

## Aluminium

### Aluminium P1020 Midwest duty-paid premium:

Currency and Unit:	US cents per pound
Pricing point:	Delivered consumer works Midwest
Quality:	London Metal Exchange specification P1020A or 99.7% minimum Al purity (silicon 0.10% max, iron 0.20% max, zinc 0.03%, gallium 0.04%, vanadium 0.03%)
Price Type:	Assessment
Minimum Lot size:	20 tons
Frequency:	Twice a week, every Tuesday and Thursday

### Aluminium P1020 Midwest duty-paid all-in free-market price:

Currency and Unit:	US cents per pound
Pricing point:	Delivered consumer works Midwest
Quality:	London Metal Exchange specification P1020A or 99.7% minimum Al purity (silicon 0.10% max, iron 0.20% max, zinc 0.03%, gallium 0.04%, vanadium 0.03%)
Price Type:	Calculated. Formula: London Metal Exchange cash aluminium PM bid price plus AMM Midwest aluminium premium
Min Lot size:	20 tons
Frequency:	Daily

### Aluminium P1020 cif Baltimore ports premium:

Type:	Assessed range
Frequency:	Weekly
Basis:	Shipped to ports in Baltimore, Maryland, premium on top of London Metal Exchange cash prices, net back to Baltimore
Grade:	P1020A or 99.7% minimum aluminium purity (silicon 0.10% maximum, iron 0.20% maximum)
Currency:	US cents
Unit:	Per lb
Minimum lot size:	100 tonnes
Payment terms:	30 days, other payment terms normalized
Form:	Ingot

**Aluminium P1020 cif all-in free-market price:**

Type:	Calculated
Frequency:	Daily
Formula:	London Metal Exchange cash aluminium PM bid price plus American Metal Market's P1020 premium cif Baltimore, Maryland, ports
Basis:	Delivered consumer works Midwest US, premium on top of LME cash prices, net back to Baltimore
Grade:	LME specification P1020A or 99.7% minimum aluminium purity (silicon 0.10% maximum, iron 0.20% maximum, zinc 0.03% maximum, gallium 0.04% maximum, vanadium 0.03% maximum)
Currency:	US cents
Unit:	Per lb
Minimum lot size:	100 tonnes
Payment terms:	30 days, other payment terms normalized
Delivery window:	Within four weeks
Form:	Ingot

**Aluminium P1020 in-warehouse warrants**

Type:	Assessed range
Basis:	In any LME-approved warehouse in the USA (10 delivery points in June 2017), premium on top of LME cash prices
Grade:	P1020A or 99.7 % Minimum Al purity (Si 0.10% max, Fe 0.20% max)
Currency:	USD
Unit:	Tonne
Min lot size:	25 tonnes
Payment terms:	Cash against documents (7 days after bill of lading date); other terms normalized Delivery window: Prompt Release
Form:	Ingot, T-bars, Sow
Publication:	Weekly. Tuesday between 3pm and 4pm London time

**Aluminium 6063 extrusion billet upcharge:**

Currency: and Unit:	US cents per pound
Pricing point:	Delivered Midwest
Quality:	Extrusion billet ingot to meet Aluminium Assn specification AA6063 US.
Grade:	Aluminium 99.45%, silicon 0.20-0.60%, iron 0.35%, copper 0.10%, manganese 0.10%, magnesium 0.45-0.90%, chromium 0.10%, zinc 0.10%, titanium 0.10%
Price Type:	Assessment
Minimum Lot size:	20 tons
Frequency:	Every two weeks, Thursday

**Aluminium alloy C355:**

Unit and Currency: US dollars per pound

Pricing Point: Delivered. Domestic producer estimated price.

Quality: Silicon 4.50-5.50%, iron 0.13%, copper 1.00-1.50%, manganese 0.05%, magnesium 0.50-0.60%, zinc 0.05%, titanium 0.20%, aluminium remainder

Price Type: Calculated. Formula: LME cash aluminium official price (ask) + AMM Midwest aluminium premium (average) + AMM alloy surcharge assessment.

Minimum Lot size: 20 tons

Frequency: Daily

**Aluminium alloy A356.2:**

Unit and Currency: US dollars per pound

Pricing Point: Delivered. Domestic producer estimated price.

Quality: Silicon 6.50-7.50%, iron 0.12%, copper 0.10%, manganese 0.05%, magnesium 0.30-0.45%, zinc 0.05%, titanium 0.20%, aluminium remainder

Price Type: Calculated. Formula: LME cash aluminium official price (ask) + AMM Midwest aluminium premium (average) + AMM alloy surcharge assessment.

Minimum Lot size: 20 tons

Frequency: Daily

**Aluminium 6061 (extrusion hom):**

Unit and Currency: US dollars per pound

Pricing Point: Delivered. Domestic producer estimated price.

Quality: Aluminium 99.45%, silicon 0.40-0.80%, iron 0.70%, copper 0.15-0.40%, manganese 0.15%, magnesium 0.80-1.20%, chromium 0.15-0.35%, zinc 0.25%, titanium 0.15%

Price Type: Calculated

Minimum Lot size: 20 tons

Frequency: Monthly

**Aluminium 6063 (extrusion hom):**

Unit and Currency: US dollars per pound

Pricing Point: Delivered

Quality: Aluminium 99.45%, silicon 0.20-0.60%, iron 0.35%, copper 0.10%, manganese 0.10%, magnesium 0.45-0.90%, chromium 0.10%, zinc 0.10%, titanium 0.10%

Price Type: Calculated

Minimum Lot size: 20 tons

Frequency: Monthly

**Aluminium alloy A380.1:**

Currency and unit: US cents per pound  
Pricing point: Delivered Midwest  
Quality: Copper 3.00-4.00%, iron 1.00%, magnesium 0.10%, manganese 0.50%, nickel 0.50%, silicon 7.50-9.50%, tin 0.35%, zinc 2.90%, aluminium remainder. Form: Ingot  
Price Type: Assessment  
Payment terms: Net 30 days post delivery  
Minimum Lot size: Truckload/20 tons  
Frequency: Twice a week, every Monday and Thursday

**Aluminium alloy 319.1:**

Unit and Currency: US cents per pound  
Pricing Point: Delivered Midwest  
Quality: Copper 3.00-4.00%, iron 0.80%, magnesium 0.10% , manganese 0.50%, nickel 0.35%, silicon 5.50-6.50%, titanium 0.25%, zinc 1.00%  
Price Type: Assessment  
Minimum Lot size: 20 tons  
Frequency: Twice a week, every Monday and Thursday

**Aluminium alloy 356.1:**

Unit and Currency: US cents per pound  
Pricing Point: Delivered Midwest  
Quality: Copper 0.25%, iron 0.50%, magnesium 0.25-0.45%, manganese 0.50%, silicon 6.50-7.50%, titanium 0.25%, zinc 0.35%  
Price Type: Assessment  
Minimum Lot size: 20 tons  
Frequency: Twice a week, every Monday and Thursday

**Aluminium alloy A360.1:**

Unit and Currency: US cents per pound  
Pricing Point: Delivered Midwest  
Quality: Copper 0.60%, iron 1.00%, magnesium 0.45-0.60%, manganese 0.35%, nickel 0.50%, silicon 9.0-10.0%, tin 0.15%, zinc 0.40%  
Price Type: Assessment  
Minimum Lot size: 20 tons  
Frequency: Twice a week, every Monday and Thursday

**Aluminium alloy A413.1:**

Unit and Currency:	US cents per pound
Pricing Point:	Delivered Midwest
Quality:	Copper 1.00%, iron 1.00%, magnesium 0.10%, manganese 0.35%, nickel 0.50%, silicon 11.0-13.0%, tin 0.15%, zinc 0.40%
Price Type:	Assessment
Minimum Lot size:	20 tons
Frequency:	Twice a week, every Monday and Thursday

## Copper

**Copper cathode premium:**

Unit and Currency:	US cents per pound
Pricing Point:	Delivered Midwest
Quality:	Delivered premium over cost of Grade 1 Electrolytic Copper Cathode as adopted by the American Society for Testing and Materials (B115-00)
Price Type:	Assessment
Minimum Lot size:	25,000 lbs
Frequency:	Weekly, Tuesday

**Copper cathode:**

Unit and Currency:	US cents per pound
Pricing Point:	Delivered Midwest
Quality:	Grade 1 Electrolytic Copper Cathode as adopted by the American Society for Testing and Materials (B115-00)
Price Type:	Calculated. Formula: Comex spot close price plus AMM copper premium
Frequency updated:	Daily

**Copper rod premium**

Currency and unit:	US cents per pound
Pricing point:	Delivered Midwest
Quality:	Purity of 99.95-99.99%
Frequency:	Monthly, first Thursday
Price type:	Assessment
Gauge:	Thicknesses of 8 millimeters or 0.3125 inches
Typical lot size:	25,000 pounds

## Lead

### Lead 99.97% ingot premium:

Unit and Currency:	US cents per pound
Pricing Point:	Delivered consumer works, Midwest
Quality:	Lead of 99.97% to 99.99% purity conforming to LME specification BS EN 12659:1999, GB/T 469/2005 or ASTM B29-03 (2009)
Shape:	Ingot
Minimum Lot size:	20 tonnes
Price Type:	Assessment
Payment terms:	30 days, other payment terms normalised
Delivery window:	Within 5 weeks
Frequency:	Weekly, Tuesday

### Lead 99.99% ingot premium:

Unit and Currency:	US cents per pound
Pricing Point:	Delivered consumer works, Midwest
Quality:	Lead of 99.99% minimum purity conforming to LME specification BS EN 12659:1999, GB/T 469/2005 or ASTM B29-03 (2009)
Shape:	Ingot
Minimum Lot size:	20 tonnes
Price Type:	Assessment
Payment terms:	30 days, other payment terms normalised
Delivery window:	Within 5 weeks
Frequency:	Weekly, Tuesday

### Lead 99.97% price:

Unit and Currency:	US cents per pound
Pricing Point:	Delivered consumer works, Midwest
Quality:	Delivered premium over cost of lead of 99.97% purity conforming to BS EN 12659:1999, GB/T 469/2005 or ASTM B29-03 (2009)
Shape:	Ingot
Price Type:	Calculated. Formula: London Metal Exchange official cash AM bid lead price plus AMM lead premium
Frequency:	Daily

## Lead 99.97% ingot warrants

Type:	Assessed range
Basis:	In any LME-approved warehouse in the USA, premium on top of LME cash prices
Grade:	Lead of 99.97% to 99.99% purity conforming to LME specification BS EN 12659:1999, GB/T 469/2005 or ASTM B29-03 (2009)
Currency:	USD
Unit:	Tonne
Min lot size:	25 tonnes
Payment terms:	Cash, other payment terms normalized
Delivery window:	Prompt release
Form:	Cathode
Publication:	Weekly. Tuesday between 3pm and 4pm London time

## Nickel

### Nickel cathode premium

Unit and currency:	US cents per lb
Pricing Point:	Delivered consumer works US
Form:	4x4 cut cathode
Quality:	99.8% minimum primary nickel conforming to LME specification: ASTM B39-79 (2013) or GB/T 6516-2010 - Ni9990 grade specification: ASTM B39-79 (2013) or GB/T 6516-2010 - Ni9990 grade
Price Type:	Assessed range
Minimum lot size:	20 tonnes
Payment terms:	30 days, other payment terms normalized
Delivery window:	Within four weeks
Publication:	Every Tuesday between 3pm and 4pm London time

### Nickel cathode price

Unit and currency:	US cents per lb
Pricing Point:	Delivered consumer works US
Quality:	99.8% minimum primary 4x4 nickel cut cathodes conforming to LME specification: ASTM B39-79 (2013) or GB/T 6516-2010 - Ni9990 grade specification: ASTM B39-79 (2013) or GB/T 6516-2010 - Ni9990 grade. Smaller cut cathode dimensions may be normalized.
Price Type:	Calculated price. LME official cash AM bid price plus nickel 4x4 cathode delivered US premium
Minimum lot size:	20 tonnes
Payment terms:	30 days, other payment terms normalized
Delivery window:	Within four weeks
Form:	4x4 cut cathode
Frequency:	Daily

### Nickel briquette premium

Unit and currency:	US cents per lb
Pricing point:	Delivered consumer works US
Form:	Briquette
Quality:	99.8% minimum primary nickel conforming to LME specification: ASTM B39-79 (2013) or GB/T 6516-2010 - Ni9990 grade specification: ASTM B39-79 (2013) or GB/T 6516-2010 - Ni9990 grade
Type:	Assessed range
Minimum lot size:	20 tonnes
Payment terms:	30 days, other payment terms normalized
Delivery window:	Within four weeks
Publication:	Every Tuesday between 3pm and 4pm London time

### Nickel briquette price

Unit and currency:	US cents per lb
Pricing Point:	Delivered consumer works US
Quality:	99.8% minimum primary nickel briquettes conforming to LME specification: ASTM B39-79 (2013) or GB/T 6516-2010 - Ni9990 grade specification: ASTM B39-79 (2013) or GB/T 6516-2010 - Ni9990 grade
Price Type:	Calculated price. LME official cash AM bid price plus nickel 4x4 cathode delivered US premium
Minimum lot size:	20 tonnes
Payment terms:	30 days, other payment terms normalized
Delivery window:	Within four weeks
Form:	Briquette
Frequency:	Daily

## Tin

### Tin grade A premium:

Unit and Currency:	US dollars per tonne
Quality:	Delivered premium over cost of tin of 99.85% purity (min) conforming to BS EN 610:1996
Price Type:	Assessment
Pricing Point:	US Midwest
Minimum Lot size:	20 tonnes
Frequency:	Weekly, Tuesday

### Tin grade A price:

Unit and Currency:	US dollars per tonne
Quality:	Tin of 99.85% purity (min) conforming to BS EN 610:1996 (LME)
Price Type:	Calculated. Formula: London Metal Exchange official cash AM bid tin price plus AMM tin premium
Frequency:	Daily

**Tin ingot in-warehouse Baltimore premium:**

Unit and Currency:	US dollars per tonne
Quality:	Minimum 99.85% tin purity conforming to LME specification: BS EN 610:1996, max 500ppm lead, total impurities must not exceed 0.15%
Price Type:	Assessment
Pricing Point:	In-warehouse Baltimore, premium on top of LME cash prices
Lot size:	20 tonnes
Payment terms:	Cash against documents, other payment terms normalized
Shape:	Ingot
Frequency:	Weekly. Tuesday 3pm to 4pm London time

## Zinc

**Zinc Special High Grade premium:**

Unit and Currency:	US cents per pound
Pricing Point:	Delivered consumer works, Midwest
Quality:	Min 99.995% special high grade zinc, conforming to LME specifications: BS EN 1179:2003, ISO 752:2004 - ZN-1 grade, ASTM B6-12 - LME grade or GB/T 470-2008
Shape:	Ingot
Price Type:	Assessment
Minimum Lot size:	20 tonnes
Payment terms:	30 days, other payment terms normalised
Delivery Window:	Within 4 weeks
Frequency:	Weekly, Tuesday

**Zinc SHG ingot warrants**

Type:	Assessed range
Basis:	In any LME-approved warehouse in the USA, premium on top of LME cash prices
Grade:	Special High Grade zinc of minimum 99.995% purity, conforming to LME specifications and relevant standards: BS EN 1179:2003, ISO 752:2004 - ZN-1 grade, ASTM B6-12 - LME grade or GB/T 470-2008
Currency:	USD
Unit:	Tonne
Min lot size:	25 tonnes
Payment terms:	Cash, other payment terms normalized
Delivery window:	Prompt release
Form:	Ingot
Publication:	Weekly. Tuesday between 3pm and 4pm London time

**Zinc Special High Grade price:**

Unit and Currency: US cents per pound  
Pricing Point: Delivered consumer works, Midwest  
Quality: Zinc of 99.995% purity (min.) conforming to BS EN 1179: 2003  
Price Type: Calculated. Formula: London Metal Exchange official cash AM bid zinc price plus AMM zinc premium  
Frequency: Daily

**Zinc Nos. 3 and 7 die casting alloy premium:**

Unit and Currency: US cents per pound  
Pricing Point: Delivered Midwest  
Quality: Aluminium 3.70-4.30%, magnesium 0.005-0.06%, copper max. 0.10%, iron max. 0.05%, lead max. 0.005%, cadmium max. 0.004%, tin max. 0.002%, zinc remainder  
Price Type: Assessment  
Minimum Lot size: 20 tons  
Frequency: Every two weeks, Thursday

**Zinc Nos. 3 and 7 die casting alloy price:**

Unit and Currency: US cents per pound  
Pricing Point: Delivered Midwest  
Quality: Aluminium 3.70-4.30%, magnesium 0.005-0.06%, copper max. 0.10% , iron max. 0.05%, lead max. 0.005%, cadmium max. 0.004%, tin max. 0.002%, zinc remainder  
Price Type: Calculated. Formula: London Metal Exchange official cash AM bid zinc price plus AMM zinc Nos. 3 and 7 die casting alloys, premium  
Frequency: Daily

**Zinc No. 5 die casting alloy premium:**

Unit and Currency: US cents per pound  
Pricing Point: Delivered Midwest  
Quality: Aluminium 3.70-4.30%, magnesium 0.02-0.06%, copper 0.70-1.20%, iron max. 0.05%; lead max. 0.005%, cadmium max. 0.004%, tin max. 0.002%; zinc remainder  
Price Type: Assessment  
Minimum Lot size: 20 tons  
Frequency: Every two weeks, Thursday

**Zinc No. 5 die casting alloy price:**

Unit and Currency: US cents per pound  
Pricing Point: Delivered Midwest  
Quality: Aluminium 3.70-4.30%, magnesium 0.02-0.06%, copper 0.70-1.20%, iron max. 0.05%, lead max. 0.005%, cadmium max. 0.004%, tin max. 0.002%, zinc remainder  
Price Type: Calculated. Formula: London Metal Exchange official cash AM bid zinc price plus AMM zinc No. 5 die casting alloy premium  
Frequency: Daily

**Zinc No. 2 die casting alloy premium:**

Unit and Currency: US cents per pound  
Pricing Point: Delivered Midwest  
Quality: Aluminium 3.70-4.30%, magnesium 0.02-0.06%, copper 2.60-3.30%, iron max. 0.05%, lead max. 0.005%, cadmium max. 0.004%, tin 0.002%, zinc remainder  
Price Type: Assessment  
Minimum Lot size: 20 tons  
Frequency: Every two weeks, Thursday

**Zinc No. 2 die casting alloys price:**

Unit and Currency: US cents per pound  
Pricing Point: Delivered Midwest  
Quality: Aluminium 3.70-4.30%, magnesium 0.02-0.06%, copper 2.60-3.30%, iron max. 0.05%, lead max. 0.005%, cadmium max. 0.004%, tin 0.002%, zinc remainder  
Price Type: Calculated. Formula: London Metal Exchange official cash AM bid zinc price plus AMM zinc No. 2 die casting alloy premium  
Frequency: Daily

**Zinc-aluminium No. 8 foundry alloy premium:**

Unit and Currency: US cents per pound  
Pricing Point: Delivered Midwest  
Quality: Aluminium 8.00-8.80%, magnesium 0.01-0.03%, copper 0.80-1.30%; iron max. 0.006%, lead max. 0.006%, cadmium max. 0.006%, tin max. 0.003%; zinc remainder  
Price Type: Assessment  
Minimum Lot size: 20 tons  
Frequency: Every two weeks, Thursday

**Zinc-aluminium No. 8 foundry alloy price:**

Unit and Currency:	US cents per pound
Pricing Point:	Delivered Midwest
Quality:	Aluminium 8.00-8.80%, magnesium 0.01-0.03%, copper 0.80-1.30%; iron max. 0.006%, lead max. 0.006%, cadmium max. 0.006%, tin max. 0.003%; zinc remainder
Price Type:	Calculated. Formula: London Metal Exchange official cash AM bid zinc price plus AMM zinc-aluminium No. 8 foundry alloy premium
Frequency:	Daily

**Zinc-aluminium No. 12 foundry alloy premium:**

Unit and Currency:	US cents per pound
Pricing Point:	Delivered Midwest
Quality:	Aluminium 10.50-11.50%, magnesium 0.01-0.03%, copper 0.50-1.20%, iron max. 0.075%, lead max. 0.006%, cadmium max. 0.006%; tin max. 0.003%, zinc remainder
Price Type:	Assessment
Minimum Lot size:	20 tons
Frequency:	Every two weeks, Thursday

**Zinc-aluminium No.12 foundry alloy price:**

Unit and Currency:	US cents per pound
Pricing Point:	Delivered Midwest
Quality:	Aluminium 10.50-11.50%, magnesium 0.01-0.03%, copper 0.50-1.20%, iron max. 0.075%, lead max. 0.006%, cadmium max. 0.006%; tin max. 0.003%, zinc remainder
Price Type:	Calculated. Formula: London Metal Exchange official cash AM bid zinc price plus AMM zinc-aluminium No. 12 foundry alloy premium
Frequency:	Daily

**Zinc-aluminium No. 27 foundry alloy premium:**

Unit and Currency:	US cents per pound
Pricing Point:	Delivered Midwest
Quality:	Aluminium 25.00-28.00%, magnesium 0.01-0.02%, copper 2.00-2.50%, iron max. 0.075%, lead max. 0.006%, cadmium max. 0.006%, tin max. 0.003%, zinc remainder
Price Type:	Assessment
Minimum Lot size:	20 tons
Frequency:	Every two weeks, Thursday

**Zinc-aluminium No. 27 foundry alloys price:**

Unit and Currency: US cents per pound

Pricing Point: Delivered Midwest

Quality: Aluminium 25.00-28.00%, magnesium 0.01-0.02%, copper 2.00-2.50%, iron max. 0.075%, lead max. 0.006%, cadmium max. 0.006%, tin max. 0.003%, zinc remainder

Price Type: Calculated. Formula: London Metal Exchange official cash AM bid zinc price plus AMM zinc-aluminium No. 27 foundry alloys premium

Frequency: Daily

**Titanium sponge:**

Unit and Currency: US dollars per pound

Pricing point: f.o.b. shipping point

Price Type: Calculated

Frequency: Monthly

Note: Imported for consumption from Japan, U.S. Department of Commerce data, average of most recent three months available, landed duty-paid value

**Titanium ingot:**

Unit and Currency: US dollars per pound

Pricing point: f.o.b. shipping point

Quality: 6Al-4V (Aluminum 6%, vanadium 4%, titanium remainder)

Price Type: Assessment

Frequency: Quarterly

**Titanium plate, alloy:**

Unit and Currency: US dollars per pound

Pricing point: f.o.b. shipping point

Quality: AMS 4911 ½ inch x 48 inch x 120 inch

Price Type: Assessment

Frequency: Quarterly

**Titanium bar, alloy:**

Unit and Currency: US dollars per pound

Pricing point: f.o.b. shipping point

Quality: AMS 4928, 1-inch diameter

Price Type: Assessment

Frequency: Quarterly

**Titanium plate, commercially pure:**

Unit and Currency: US dollars per pound

Pricing point: f.o.b. shipping point

Quality: ASTM-B265 Grade 2, ½ inch x 96 inch x 240 inch

Price Type: Assessment

Frequency: Quarterly

**Titanium sheet, commercially pure:**

Unit and Currency: US dollars per pound  
Pricing point: f.o.b. shipping point  
Quality: ASTM-B265 Grade 2, 1/8 inch x 36 inch x 96 inch  
Price Type: Assessment  
Frequency: Quarterly

**Ferro-chrome, high carbon:**

Unit and Currency:	US cents per pound
Pricing Point:	f.o.b. warehouse
Quality:	Chromium min. 62.00%, silicon max. 3.00%, carbon 6.00-8.00%
Price Type:	Assessment
Minimum Lot size:	20 tons
Frequency:	Once a week, every Thursday

**Ferro-chrome, low carbon, 0.05%C-65% min Cr:**

Unit and Currency:	US cents per pound
Pricing Point:	f.o.b. warehouse
Quality:	Chromium min. 65.00%, carbon 0.05%, silicon max. 1.00%
Price Type:	Assessment
Minimum Lot size:	20 tons
Frequency:	Once a week, every Thursday

**Ferro-chrome, low carbon, 0.10%C-62% min Cr:**

Unit and Currency:	US cents per pound
Pricing Point:	f.o.b. warehouse
Quality:	Chromium min 62.00%, carbon 0.10%, silicon max 1.00%
Price Type:	Assessment
Minimum Lot size:	20 tons
Frequency:	Once a week, every Thursday

**Ferro-chrome, low carbon, 0.15%C-60% min Cr:**

Unit and Currency:	US cents per pound
Pricing Point:	f.o.b. warehouse
Quality:	Chromium min. 60.00%, carbon 0.15%, silicon max. 1.00%
Price Type:	Assessment
Minimum Lot size:	20 tons
Frequency:	Once a week, every Thursday

**Ferro-manganese, high carbon:**

Unit and Currency: US dollars per long ton  
Pricing Point: f.o.b. warehouse  
Quality: Manganese 78.00%, carbon 7.50%  
Price Type: Assessment  
Minimum Lot size: 20 tons  
Frequency: Once a week, every Thursday

**Ferro-manganese, medium carbon:**

Unit and Currency: US cents per pound  
Pricing Point: f.o.b. warehouse  
Quality: Manganese min. 80.00%, carbon max. 1.50%  
Price Type: Assessment  
Minimum Lot size: 20 tons  
Frequency: Once a week, every Thursday

**Ferro-manganese, low carbon:**

Unit and Currency: US cents per pound  
Pricing Point: f.o.b. warehouse  
Quality: Manganese min. 80.00%, carbon max. 0.80%  
Price Type: Assessment  
Minimum Lot size: 20 tons  
Frequency: Once a week, every Thursday

**Ferro-silicon:**

Unit and Currency: US cents per pound  
Pricing Point: f.o.b. warehouse  
Quality: Silicon 75.00%  
Price Type: Assessment  
Minimum Lot size: 20 tons  
Frequency: Once a week, every Thursday

**Ferro-molybdenum:**

Unit and Currency: US dollars per pound  
Pricing Point: f.o.b. warehouse  
Quality: Molybdenum 65.00-70.00%  
Price Type: Assessment  
Minimum Lot size: 10 tons  
Frequency: Once a week, every Thursday

**Ferro-vanadium:**

Unit and Currency: US dollars per pound  
Pricing Point: f.o.b. warehouse  
Quality: Vanadium 70.00-80.00%  
Price Type: Assessment  
Minimum Lot size: 10 tons  
Frequency: Once a week, every Thursday

**Molybdenum canned molybdic oxide:**

Unit and Currency: US dollars per pound  
Pricing Point: f.o.b. warehouse  
Quality: Molybdenum min. 57.00%, copper max. 0.50%; phosphorus 0.05%; lead 0.05%; sulfur 0.10%; carbon 0.10%; moisture 0.10%  
Price Type: Assessment  
Minimum Lot size: 10 tons  
Frequency: Once a week, every Thursday

**Silico-manganese:**

Unit and Currency: US cents per pound  
Pricing Point: f.o.b. warehouse  
Quality: Manganese min. 65.00%; silicon min. 16.00%  
Price Type: Assessment  
Minimum Lot size: 20 tons  
Frequency: Once a week, every Thursday

**Silicon metal:**

Unit and Currency: US cents per pound  
Pricing Point: Delivered  
Quality: Silicon 98.50%, iron 0.50%, aluminum 0.50%, calcium 0.30%  
Price Type: Assessment  
Minimum Lot size: 20 tons  
Frequency: Once a month

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