

Prices

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NEW YORK FUTURES

	Price	Change [†]	Assessed
Comex: Copper high grade cents/lb			
Settlement	224.45	3.65% ▲	03 Nov 16
Open interest	203,559	-3.73% ▼	02 Nov 16
Stocks (short ton)	71,961	-0.71% ▼	02 Nov 16
Comex: Gold \$/troy oz			
Settlement	1,302.10	2.7% ▲	03 Nov 16
Open interest	534,108	5.47% ▲	02 Nov 16
Stocks (troy oz)	10,573,115	0.08% ▲	02 Nov 16
Nymex: Palladium \$/troy oz			
Settlement	617.60	0.72% ▲	03 Nov 16
Stocks (troy oz)	73,567	-1.61% ▼	02 Nov 16
Nymex: Platinum \$/troy oz			
Settlement	994.40	3.4% ▲	03 Nov 16
Stocks (troy oz)	239,782	-0.22% ▼	02 Nov 16
Comex: Silver cents/troy oz			
Settlement	1,838.30	4.43% ▲	03 Nov 16
Open interest	195,313	-0.03% ▼	02 Nov 16

SHANGHAI FUTURES

	Price	Change [†]	Assessed
Aluminium yuan/tonne	13,725	-3.79% ▼	04 Nov 16
Copper yuan/tonne	39,100	2.17% ▲	04 Nov 16
Nickel cathode yuan/tonne	82,000	0.61% ▲	04 Nov 16
Tin ingot yuan/tonne	124,010	0%	04 Nov 16
Zinc yuan/tonne	19,750	3.27% ▲	04 Nov 16
Steel rebar month 1 yuan/tonne	2,572	7.26% ▲	04 Nov 16
Steel rebar month 2 yuan/tonne	2,731	6.39% ▲	04 Nov 16
Steel rebar month 3 yuan/tonne	2,726	7.11% ▲	04 Nov 16
Weekly stocks deliverable			
Aluminium (tonnes)	97,561	13.82% ▲	04 Nov 16
Copper (tonnes)	97,839	-4.59% ▼	04 Nov 16
Nickel cathode (tonnes)	107,099	-0.92% ▼	04 Nov 16
Tin ingot (tonnes)	1,974	3.08% ▲	04 Nov 16
Zinc (tonnes)	167,759	2.5% ▲	04 Nov 16
Steel rebar (tonnes)	22,146	-8.59% ▼	04 Nov 16

DAILY METAL AND STEEL

London forward LME settlement prices. All prices per tonne, unless otherwise stated, in LME warehouse, EU duty, if any paid for buyers account

	Price	Change [†]	Assessed
Aluminium high grade \$			
Cash official	1,717.5-1,718.5	0.98% ▲	04 Nov 16
Cash unofficial	1,732.5-1,734.5	2.76% ▲	03 Nov 16
3 months official	1,721-1,722	1.19% ▲	04 Nov 16
3 months unofficial	1,736-1,738	2.72% ▲	03 Nov 16
LME Tapo notional average price (NAP)	1,722.33	3.83% ▲	03 Nov 16
LME stocks (tonnes)	2,131,075	-0.58% ▼	03 Nov 16
Aluminium alloy (A380.1/DIN/D12S) \$			
LME cash official	1,555-1,565	-0.64% ▼	04 Nov 16
LME cash unofficial	1,557-1,567	0.68% ▲	03 Nov 16
LME 3 months official	1,570-1,580	-0.63% ▼	04 Nov 16
LME 3 months unofficial	1,570-1,580	0.64% ▲	03 Nov 16
LME stocks (tonnes)	13,680	0%	03 Nov 16

Price Change Assessed

N. American special aluminium alloy

LME cash official	1,730-1,740	-0.27% ▼	04 Nov 16
LME cash unofficial	1,734-1,736	0.06% ▲	03 Nov 16
LME 3 months official	1,740-1,750	-0.14% ▼	04 Nov 16
LME 3 months unofficial	1,745-1,747	0.06% ▲	03 Nov 16
LME stocks (tonnes)	78,860	0%	03 Nov 16

Copper grade A \$

LME cash official	4,942-4,943	3.26% ▲	04 Nov 16
LME cash unofficial	4,944-4,946	3.55% ▲	03 Nov 16
LME 3 months official	4,956-4,958	3.32% ▲	04 Nov 16
LME 3 months unofficial	4,956-4,958	3.64% ▲	03 Nov 16
LME Tapo notional average price (NAP)	4,883.83	3.38% ▲	03 Nov 16
LME stocks (tonnes)	305,000	-6.56% ▼	03 Nov 16

Lead \$

LME cash official	2,070-2,070.5	1.1% ▲	04 Nov 16
LME cash unofficial	2,081-2,083	2.03% ▲	03 Nov 16
LME 3 months official	2,085-2,087	1.39% ▲	04 Nov 16
LME 3 months unofficial	2,095-2,097	2.09% ▲	03 Nov 16
LME stocks (tonnes)	188,350	-0.42% ▼	03 Nov 16

Nickel \$

LME cash official	10,375-10,385	0.41% ▲	04 Nov 16
LME cash unofficial	10,465-10,475	1.6% ▲	03 Nov 16
LME 3 months official	10,420-10,430	0.53% ▲	04 Nov 16
LME 3 months unofficial	10,505-10,515	1.64% ▲	03 Nov 16
LME stocks (tonnes)	363,708	0.55% ▲	03 Nov 16

Tin \$

LME cash official	21,400-21,405	2.59% ▲	04 Nov 16
LME cash unofficial	21,310-21,360	3.45% ▲	03 Nov 16
LME 3 months official	21,225-21,250	3.12% ▲	04 Nov 16
LME 3 months unofficial	21,125-21,175	3.74% ▲	03 Nov 16
LME stocks (tonnes)	2,955	2.07% ▲	03 Nov 16

Zinc special high grade \$

LME cash official	2,440.5-2,441	2.82% ▲	04 Nov 16
LME cash unofficial	2,476.5-2,478.5	5.74% ▲	03 Nov 16
LME 3 months official	2,455-2,456	3.42% ▲	04 Nov 16
LME 3 months unofficial	2,489-2,491	5.91% ▲	03 Nov 16
LME stocks (tonnes)	449,350	-0.46% ▼	03 Nov 16

Cobalt min 99.3%

LME cash official	28,650-28,700	1.06% ▲	04 Nov 16
LME 3 months official	28,500-29,000	1.77% ▲	04 Nov 16
LME stocks (tonnes)	609	-2.56% ▼	03 Nov 16

Molybdenum \$

LME cash official	14,750-15,250	0%	04 Nov 16
LME 3 months official	14,750-15,250	0%	04 Nov 16
LME stocks (tonnes)	0	0%	03 Nov 16

Steel billet

LME cash official	300-325	0%	04 Nov 16
LME cash unofficial	300-325	0%	03 Nov 16
LME 3 months official	300-325	0%	04 Nov 16
LME 3 months unofficial	300-325	0%	03 Nov 16
LME stocks (tonnes)	0	0%	03 Nov 16

† week-on-week change

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Gold \$/troy oz	Price	Change	Assessed
London morning	1,301.70	2.83%	▲ 04 Nov 16
London afternoon	1,301	2.74%	▲ 03 Nov 16
Handy/Harman	1,301	2.74%	▲ 03 Nov 16
Silver per troy oz			
London spot pence	1,464.59	0.92%	▲ 04 Nov 16
London spot cents	1,830	3.92%	▲ 04 Nov 16
Handy/Harman	1,829	3.66%	▲ 03 Nov 16
Palladium \$/troy oz			
London morning	628	1.29%	▲ 03 Nov 16
London afternoon	627	1.62%	▲ 03 Nov 16
Platinum \$/troy oz			
London morning	985	2.6%	▲ 03 Nov 16
London afternoon	986	1.65%	▲ 03 Nov 16
Kuala Lumpur tin market			
Tin \$/tonne	21,150	3.17%	▲ 04 Nov 16

RAND FIXING PRICES

Rand fixing prices per tonne for London Metal Exchange trade

	Price	Change [†]	Assessed
Copper	66,570.84	0.31%	▲ 04 Nov 16
Aluminium	23,144.24	-1.88%	▼ 04 Nov 16
Lead	27,884.87	-1.79%	▼ 04 Nov 16
Zinc	32,874.66	-0.11%	▼ 04 Nov 16
Nickel	139,862.06	-2.43%	▼ 04 Nov 16
Tin	288,276.12	-0.39%	▼ 04 Nov 16

EXCHANGE RATES

	Price	Change [†]	Assessed
LME settlement conversion rates			
\$/£	1.2484	2.77%	▲ 04 Nov 16
\$/¥	103.0100	-2.24%	▼ 04 Nov 16
\$/€	1.1097	1.6%	▲ 04 Nov 16
Closing rates, midpoint			
\$/£	1.2455	2.31%	▲ 03 Nov 16
\$/¥	103.1750	-1.77%	▼ 03 Nov 16
\$/€	1.1094	1.61%	▲ 03 Nov 16
£/€	1.1226	0.68%	▲ 03 Nov 16
\$/CNY	6.7610	-0.25%	▼ 03 Nov 16

BASE METALS ARBITRAGE

	Price	Change [†]	Assessed
Aluminium			
Import arbitrage, \$/tonne	-99.36*	-282.92%	▼ 04 Nov 16
Import arbitrage, RMB/tonne	-673.31*	-282.43%	▼ 04 Nov 16
Copper			
Import arbitrage, \$/tonne	-126.88*	45.2%	▲ 04 Nov 16
Import arbitrage, RMB/tonne	-859.79*	44.83%	▲ 04 Nov 16
Nickel			
Import arbitrage, \$/tonne	-518.10*	0.84%	▲ 04 Nov 16
Import arbitrage, RMB/tonne	-3,510.82*	0.57%	▲ 04 Nov 16
Zinc			
Import arbitrage, \$/tonne	-158.17*	8.11%	▲ 04 Nov 16
Import arbitrage, RMB/tonne	-1,071.82*	7.83%	▲ 04 Nov 16

MB BASE METAL PREMIUMS

All prices \$/tonne unless otherwise stated

*MB Copyright

	Price	Change [†]	Assessed
Copper			
Rotterdam, copper low-high premium, Grade A, cathode, in-warehouse, \$/tonne	40.0-50.0*	0%	02 Nov 16
Rotterdam, copper average premium, Grade A, cathode, in-warehouse \$/tonne	45.00*	0%	02 Nov 16
Leghorn, copper low-high premium, Grade A, cathode, cif, \$/tonne	60.0-70.0*	0%	31 Oct 16
Leghorn, copper average premium, Grade A, cathode, cif, \$/tonne	65.00*	0%	31 Oct 16
South Korea, copper low-high premium, Grade A, cathode, cif, \$/tonne	60.0-75.0*	0%	03 Nov 16
South Korea, copper average premium, Grade A, cathode, cif, \$/tonne	70.00*	0%	03 Nov 16
Singapore, copper low-high premium, Grade A, cathode, in-warehouse, \$/tonne	5.0-15.0*	17.65%	▲ 03 Nov 16
Singapore, copper average premium, Grade A, cathode, in-warehouse, \$/tonne	9.00*	0%	03 Nov 16
Shanghai, copper low-high premium, Grade A, cathode, in-warehouse, \$/tonne	85.0-95.0*	5.88%	▲ 04 Nov 16
Shanghai, copper average premium, Grade A, cathode, in-warehouse \$/tonne	90.00*	9.76%	▲ 04 Nov 16
Shanghai, copper low-high premium, Grade A, cathode, cif \$/tonne	85.0-95.0*	9.09%	▲ 04 Nov 16
Shanghai, copper average premium, Grade A, cathode, cif \$/tonne	90.00*	9.76%	▲ 04 Nov 16
Johor, copper low-high premium, Grade A, cathode, in-warehouse, \$/tonne	5.0-15.0*	17.65%	▲ 03 Nov 16
Johor, copper average premium, Grade A, cathode, in-warehouse \$/tonne	9.00*	0%	03 Nov 16
MB free market US: High-grade cathode premium indicator, \$/tonne	115.7-126.8*	0%	03 Nov 16
Aluminium			
Aluminium P1020A, in-whs Rotterdam duty unpaid, spot low-high, \$/tonne	70.0-85.0*	-6.06%	▼ 04 Nov 16
Aluminium P1020A, in-warehouse Rotterdam duty unpaid, spot weighted average, \$/tonne	80.00*	-3.03%	▼ 04 Nov 16
Aluminium P1020A, cif Korea (Gwangyang or Busan), spot low-high, \$/tonne	60.00-69.00*	0%	01 Nov 16
Aluminium P1020A, cif Korea (Gwangyang or Busan), spot weighted average, \$/tonne	64.75*	2.78%	▲ 01 Nov 16
Aluminium P1020A, in-warehouse Singapore, spot low-high, \$/tonne	5.0-10.0*	0%	01 Nov 16
Aluminium P1020A, in-warehouse Singapore, spot weighted average, \$/tonne	9.38*	25.07%	▲ 01 Nov 16
Aluminium P1020A, in-warehouse Johor, spot low-high, \$/tonne	5.0-10.0*	0%	01 Nov 16
Aluminium P1020A, in-warehouse Johor, spot weighted average, \$/tonne	9.38*	25.07%	▲ 01 Nov 16
Aluminium P1020A, cif Shanghai, spot low-high, \$/tonne	75.0-100.0*	-5.41%	▼ 01 Nov 16
Aluminium P1020A, cif Shanghai, spot weighted average, \$/tonne	90.00*	0%	01 Nov 16
Aluminium P1020A, cif main Japanese ports, spot low-high, \$/tonne	65.0-75.0*	3.7%	▲ 01 Nov 16
Aluminium P1020A, cif main Japanese ports, spot weighted average, \$/tonne	70.25*	3.31%	▲ 01 Nov 16
Aluminium ingot ADC 12 spot, main Japanese ports, \$/tonne	1,700*	0.29%	▲ 01 Nov 16
Aluminium P1020A, in-warehouse Rotterdam duty-paid, spot \$/tonne	130.0-145.0*	1.85%	▲ 04 Nov 16
Aluminium P1020A, in-warehouse Rotterdam duty-paid, for delivery three months forward, \$/tonne	130.0-145.0*	1.85%	▲ 04 Nov 16

† week-on-week change

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	Price	Change	Assessed
Aluminium P1020A, cif main Japanese ports, quarterly, \$/tonne	75.0–75.0*	-18.03%	▼ 04 Oct 16
Aluminium 6063 extrusion billet, in-whs Rotterdam duty–paid, spot \$/tonne	300.0–320.0*	0%	04 Nov 16
Aluminium P1020A, delivered US midwest, spot, \$/lb	0.068–0.073*	0%	02 Nov 16
Aluminium P1020A, delivered Sao Paulo region, spot, \$/tonne	160.0–240.0*	0%	03 Nov 16
Aluminium P1020A, cif Brazilian main ports duty–unpaid, spot, \$/tonne	120.0–140.0*	1.96%	▲ 27 Oct 16
Aluminium 6063 + 6060 extrusion billet, cif Brazilian main ports, spot (premium over LME cash), \$/tonne	280.0–320.0*	0%	27 Oct 16
Aluminium extrusion billet premium 6063 cif Japan, yearly, \$/tonne	150.0–160.0*	0%	04 Apr 16
Lead			
Rotterdam, lead low–high premium, 99.97% purity, in–warehouse, \$/tonne	15.0–25.0*	0%	01 Nov 16
Rotterdam, lead average premium, 99.97% purity, in–warehouse, \$/tonne	20.00*	0%	01 Nov 16
Johor, lead low–high premium, 99.97% purity, in–warehouse, \$/tonne	20.0–20.0*	33.33%	▲ 27 Oct 16
Johor, lead average premium, 99.97% purity, in–warehouse, \$/tonne	20.00*	33.33%	▲ 27 Oct 16
MB Battery grade free market premium in–warehouse, €/tonne	90.0–120.0*	0%	01 Nov 16
USA lead premium 99.97%, delivered domestic, \$/lb	0.09–0.13*	-8.33%	▼ 10 Oct 16
Nickel			
Shanghai, nickel low–high premium, 99.8% purity in–warehouse \$/tonne	70.0–150.0*	0%	03 Nov 16
Shanghai, nickel average premium, 99.8% purity in–warehouse \$/tonne	94.00*	4.44%	▲ 03 Nov 16
Shanghai, nickel low–high premium, 99.8% purity, full plate, cif \$/tonne	100.0–150.0*	2.04%	▲ 03 Nov 16
Shanghai, nickel premium, 99.8% purity full plate, cif \$/tonne	105.00*	0%	03 Nov 16
Malaysia nickel 99.80% briquettes premium in–warehouse, \$/tonne	8–15*	27.78%	▲ 02 Nov 16
Singapore nickel 99.80% briquettes premium in–warehouse, \$/tonne	8–15*	27.78%	▲ 02 Nov 16
Malaysia nickel 99.80% full plate premium in–warehouse, \$/tonne	15–55*	-6.67%	▼ 02 Nov 16
Singapore nickel 99.80% full plate premium in–warehouse, \$/tonne	15–55*	-6.67%	▼ 02 Nov 16
uncut cathodes premium indicator	60.0–90.0*	0%	01 Nov 16
4x4 cathodes premium indicator	150.0–250.0*	0%	01 Nov 16
briquettes premium indicator	90.0–150.0*	0%	01 Nov 16
US: melting premium indicator \$/lb	0.150–0.200*	0%	02 Nov 16
Tin			
MB European free market			
Spot premium 99.9% \$/tonne	375–500*	0%	04 Nov 16
Spot premium 99.85% \$/tonne	325–350*	0%	04 Nov 16
United States New York spot, cents/lb	967–968	3.31%	▲ 27 Oct 16
Zinc			
Rotterdam, zinc low–high premium, 99.995% purity, in–warehouse, \$/tonne	90.0–100.0*	0%	02 Nov 16
Rotterdam, zinc average premium, 99.995% purity, in–warehouse, \$/tonne	95.00*	0%	02 Nov 16
MB EU: Special high grade, fca Rotterdam, \$/tonne	125.0–145.0*	0%	02 Nov 16
South Korea, zinc low–high premium, 99.995% purity, in–warehouse, \$/tonne	90.0–90.0*	0%	03 Nov 16
South Korea, zinc average premium, 99.995% purity, in–warehouse, \$/tonne	90.00*	0%	03 Nov 16
Johor, zinc low–high premium, 99.995% purity, in–warehouse, \$/tonne	70.0–80.0*	0%	03 Nov 16
Johor, zinc average premium, 99.995% purity, in–warehouse, \$/tonne	75.00*	4.17%	▲ 03 Nov 16

	Price	Change	Assessed
Singapore, zinc low–high premium, 99.995% purity, in–warehouse, \$/tonne	70.0–80.0*	0%	03 Nov 16
Singapore, zinc average premium, 99.995% purity, in–warehouse, \$/tonne	75.00*	4.17%	▲ 03 Nov 16
Shanghai, zinc low–high premium, 99.995% purity, in–warehouse, \$/tonne	105.0–120.0*	2.27%	▲ 03 Nov 16
Shanghai, zinc average premium, 99.995% purity, in–warehouse, \$/tonne	112.00*	0%	03 Nov 16
MB US: Special high grade, \$/lb	0.060–0.070*	0%	27 Oct 16

BASE METALS

	Price	Change*	Assessed
Alumina			
MB Chinese free market, metallurgical grade, delivered duty paid RMB/tonne	2,500.0–2,700.0*	0%	03 Nov 16
Alumina Index fob Australia	293.97*	2.65%	▲ 03 Nov 16
Alumina Index fob Brazil	-0.66*		27 Oct 16
Alumina Index fob Brazil, inferred Brazil price \$ per dry metric ton	285.72*		27 Oct 16
Copper & Brass			
Producer premium			
Codelco: Contract 2016 Grade A cathode (average)	92.0	-17.86%	▼ 04 Jan 16
Germany: (VDM) Electro, €/tonne			
wirebar (DEL):	4,477.2–4,506.1	1.65%	▲ 02 Nov 16
cathodes:	4,400.0–4,450.0	1.37%	▲ 02 Nov 16
South Africa: Palabora copper rod 7.90mm, Rand/tonne	75,268.980	-0.19%	▼ 01 Nov 16
Copper concentrate Asia–Pacific Index RC import, US cents/lb (twice monthly on 15th and last day of month)	9.90–9.90*	-1.69%	▼ 31 Oct 16
Copper concentrate Asia–Pacific Index TC import, \$/dmt (twice monthly on 15th and last day of month)	99.00–99.00*	-1.69%	▼ 31 Oct 16
Shanghai bonded copper stocks, tonnes	490,000–490,000*	-3.92%	▼ 24 Oct 16
Nickel			
Nickel pig iron high grade NPI content 10–15% contract price delivered duty paid China RMB per nickel unit price	850.00–870.00*	0%	01 Nov 16
Nickel pig iron high grade NPI content 10–15% spot price China RMB per nickel unit price	850.00–865.00*	0%	01 Nov 16
Nickel ore			
Laterite ore with 1.5% nickel content cif China, \$/tonne	35–37*	0%	01 Nov 16
Nickel ore 1.8% basis cif China, 15–20% Fe, water content: 30–35%, Si:Mg ratio less than 2, lot size 50,000 tonnes, \$/tonne	51–52*	0%	01 Nov 16
Lead			
Germany: (VDM) virgin soft, €/tonne	2,060.00–2,090.00–0.48%	▼	02 Nov 16
European automotive battery premium free market (Eurobat)			
in–warehouse Rotterdam €/tonne			
Soft lead (average)	155.48*	0.21%	▲ 29 Sep 16
Ca/Ca grid grid lead (average)	418.77*	7.47%	▲ 29 Sep 16
Connector lead (average)	574.97*	15.15%	▲ 29 Sep 16
European industrial battery premium free market (Eurobat)			
in–warehouse Rotterdam €/tonne			
Stand–by refined or soft lead (average)	247.80*	4.76%	▲ 29 Sep 16
Traction refined or soft lead (average)	250.48	5.7%	▲ 29 Sep 16
For an explanation of these premiums, see http://www.eurobat.org/statistics			
Zinc			
Germany: (VDM) virgin, €/tonne	2,320.00–2,320.00	0%	02 Nov 16
UK: Special high grade, delivered monthly average price £/tonne	2,097*	7.54%	▲ 01 Nov 16

* week–on–week change

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PRECIOUS METALS			
	Price	Change [†]	Assessed
Iridium			
MB free market: min 99.9%, \$/troy oz in-warehouse	635-735*	0%	04 Nov 16
Johnson Matthey base price: (unfab) \$/troy oz (08.00 hrs)	675	3.85%	▲ 04 Nov 16
Engelhard base price: \$/troy oz	685	1.48%	▲ 04 Nov 16
Palladium			
European free market: min 99.9%, \$/troy oz in-warehouse	616-627*	1.06%	▲ 04 Nov 16
Engelhard base price: \$/troy oz	626	0.97%	▲ 04 Nov 16
Johnson Matthey base price: (unfab) \$/troy oz (08.00 hrs)	627	1.79%	▲ 04 Nov 16
Platinum			
European free market: min 99.9%, \$/troy oz in-warehouse	987-1,000*	2.69%	▲ 04 Nov 16
Engelhard base price: \$/troy oz	998	2.57%	▲ 04 Nov 16
Johnson Matthey base price: (unfab) \$/troy oz (08.00 hrs)	1,000	2.99%	▲ 04 Nov 16
Rhodium			
European free market: min 99.9%, \$/troy oz in-warehouse	720-820*	10%	▲ 04 Nov 16
Engelhard base price: \$/troy oz	775	6.9%	▲ 04 Nov 16
Johnson Matthey base price: (unfab) \$/troy oz (08.00 hrs)	780	9.09%	▲ 04 Nov 16
Ruthenium			
European free market: min 99.9%, \$/troy oz in-warehouse	34-44*	-4.88%	▼ 04 Nov 16
Engelhard base price: \$/troy oz	42	0%	04 Nov 16
Johnson Matthey base price: (unfab) \$/troy oz (08.00 hrs)	40	0%	04 Nov 16
MINOR METALS			
	Price	Change [†]	Assessed
Antimony			
MB free market Regulus, min 99.65%, max Se 50 ppm, max 100 ppm Bi, \$/tonne in-warehouse Rotterdam	7,500-7,800*	0%	04 Nov 16
MMTA Standard Grade II, \$/tonne in-warehouse Rotterdam	7,400-7,700*	0%	04 Nov 16
MB Chinese free market MMTA Standard Grade II, delivered duty paid RMB/tonne	46,000-47,500*	-3.11%	▼ 02 Nov 16
Arsenic			
MB free market \$/lb	1.00-1.35*	0%	28 Oct 16
Bismuth			
MB free market \$/lb	4.50-4.95*	0%	04 Nov 16
MB China domestic, min 99.99%, RMB/tonne	64,000-66,000*	-1.52%	▼ 04 Nov 16
Cadmium			
MB free market min 99.95% cents/lb	59.00-66.00*	5.93%	▲ 04 Nov 16
MB free market min 99.99% cents/lb	60.00-69.00*	0%	04 Nov 16
Chromium			
MB free market aluminio-thermic min 99% \$/tonne	6,800-7,100*	0.72%	▲ 04 Nov 16
Cobalt			
MB free market high-grade \$/lb	13.00-13.75*	0%	04 Nov 16
MB free market low-grade \$/lb	12.85-13.60*	1.15%	▲ 04 Nov 16
MB high-grade, weighted average of all confirmed international trades, \$/lb	13.35*	-1.91%	▼ 02 Nov 16
MB low-grade, weighted average of all confirmed international trades, \$/lb	13.24*	3.84%	▲ 04 Nov 16
MB China domestic, min 99.8% RMB/tonne	212,000-223,000*	0.46%	▲ 04 Nov 16
Cobalt tetroxide min 72.6% Co delivered China RMB/tonne	156,000-162,000*	0.95%	▲ 04 Nov 16

	Price	Change	Assessed
Gallium			
MB free market \$/kg	130-140*	3.85%	▲ 04 Nov 16
MB China domestic, min 99.99%, RMB/kg	800-850*	1.23%	▲ 02 Nov 16
Germanium			
Germanium dioxide MB free market \$/kg	610-710*	0%	04 Nov 16
Germanium metal \$/kg Rotterdam	850-1,000*	0%	04 Nov 16
Germanium metal MB China domestic, min 99.999%, RMB/kg	6,000-6,500*	0%	02 Nov 16
Hafnium			
Hafnium 1% Zr max, in-warehouse global locations, \$/kg	1,000-1,100*	0%	28 Oct 16
Indium			
MB free market \$/kg	200-245*	0%	04 Nov 16
MB China domestic, min 99.99% RMB/kg	1,130-1,180*	0.43%	▲ 02 Nov 16
Indium Corp ingots min 99.97% \$/kg fob	440.00	-40.94%	▼ 26 Jun 15
Magnesium			
European free market \$ per tonne	2,350-2,450*	0%	04 Nov 16
China free market min 99.8% Mg, fob China main ports, \$ per tonne	2,440-2,470*	1.87%	▲ 02 Nov 16
MB Chinese free market min 99% Mg, ex-works RMB/tonne	16,400-16,600*	2.48%	▲ 02 Nov 16
Manganese flake			
MB free market \$/tonne	1,900-1,970*	0%	04 Nov 16
Mercury			
MB free market \$ per flask	940-1,250*	0%	28 Oct 16
Rhenium in-warehouse Rotterdam duty paid			
Metal pellets, min 99.9% \$/lb	770-900*	0%	28 Oct 16
APR catalytic grade \$/kg Re	2,350-2,600*	0%	28 Oct 16
Selenium			
MB free market \$/lb	8.00-9.50*	0%	04 Nov 16
MB China domestic, min 99.9%, RMB/kg	120-140*	-7.14%	▼ 04 Nov 16
Selenium dioxide, MB China domestic, min 98%, RMB/kg	82-90*	6.83%	▲ 04 Nov 16
Silicon			
MB free market €/tonne	1,600-1,700*	0%	04 Nov 16
US free market cents/lb	88-92*	0.56%	▲ 10 Oct 16
Export from mainland China min 98.5%, \$/tonne fob	1,430-1,450*	0.7%	▲ 02 Nov 16
Tellurium			
MB free market \$/kg	25.00-40.00*	0%	04 Nov 16
MB China domestic, min 99.99%, RMB/kg	250-265*	0%	04 Nov 16
Titanium			
MB free market ferro-titanium 70% (max 4.5% Al) \$/kg Ti d/d Europe	3.10-3.30*	0%	04 Nov 16
Titanium ores \$/tonne			
Rutile conc min 95% Tio2 bagged, fob/Aus	750-800	0%	03 Nov 16
Rutile bulk conc min 95% Tio2 fob/Aus	700-750	0%	03 Nov 16
Ilmenite bulk conc min 54% Tio2 fob/Aus	100-110	0%	03 Nov 16

† week-on-week change

continued >>

NOBLE ALLOYS & ORES			
	Price	Change†	Assessed
Molybdenum molybdc oxide			
Europe drummed molybdc oxide \$/lb Mo	6.60–6.70*	3.5%	▲ 04 Nov 16
US canned molybdc oxide \$/lb Mo	6.60–6.80*	1.52%	▲ 03 Nov 16
Ferro-molybdenum			
Basis 65% min, in-warehouse Rotterdam \$/kg Mo	16.75–17.00*	2.9%	▲ 04 Nov 16
US free market 65–70% Mo \$/lb in-warehouse Pittsburgh	7.85–8.30*	1.89%	▲ 03 Nov 16
MB Chinese free market concentrate 45% Mo in-warehouse China RMB/mtu	960–980*	1.04%	▲ 02 Nov 16
Tungsten			
European free market APT \$/mtu	198–205*	2.28%	▲ 04 Nov 16
Export from mainland China APT Chinese No1 grade, min 88.5% W03, \$/mtu fob	196–200*	0.76%	▲ 02 Nov 16
MB Chinese free market concentrate 65% W03 in-warehouse China RMB/tonne	74,000–75,000*	0.68%	▲ 02 Nov 16
Ferro-tungsten			
Basis 75% W min \$/kg W in-warehouse Rotterdam duty unpaid	26.00–26.50*	0.38%	▲ 04 Nov 16
China export min 75% \$/kg W, fob China	26.20–26.50*	0.38%	▲ 02 Nov 16
Vanadium			
Ferro-vanadium basis 78% min, free delivery duty paid consumer plant, 1st grade, Western Europe \$/kg V	23.00–23.60*	3.56%	▲ 04 Nov 16
US free market ferro-vanadium \$/lb in-warehouse Pittsburgh	10.15–11.00*	3.17%	▲ 03 Nov 16
Vanadium pentoxide min 98%, in-warehouse Rotterdam \$ per lb V2O5	4.50–4.65*	6.4%	▲ 04 Nov 16
Zircon			
Foundry grade bulk \$/tonne fob Australia	950–1,000	0%	03 Nov 16
Premium bulk \$/tonne fob Australia	1,000–1,050	0%	03 Nov 16

BULK ALLOYS

	Price	Change†	Assessed
Ferro-chrome \$/lb Cr			
China import charge chrome 50% Cr index, cif Shanghai, duty unpaid	1.16*	8.41%	▲ 04 Nov 16
Lumpy Cr charge basis 52% Cr (and high carbon) quarterly	1.1*	12.24%	▲ 26 Sep 16
6–8% C basis 60% Cr max 1.5% Si	0.96–1.02*	0.51%	▲ 04 Nov 16
0.10% C average 60–70% Cr	1.88–1.96*	2.4%	▲ 04 Nov 16
European low carbon in-warehouse 0.06% C max – 65% Cr	1.92–2.00*	1.03%	▲ 04 Nov 16
Low phosphorous Cr min 65% C max 7% Si max 1% p max 0.015% Ti max 0.05%	0.90–0.99*	0%	04 Nov 16
Japan import 8–9% C, basis 60% Cr, cif Japan, duty unpaid \$/lb contained chrome	1.00–1.05*	0%	03 Nov 16
US free market in-warehouse Pittsburgh 6–8% C basis 60–65% Cr max 2% Si	0.940–1.000*	8.38%	▲ 03 Nov 16
US free market low carbon duty paid fob Pittsburgh			
0.05% C – 65% min Cr	2.06–2.10*	0%	03 Nov 16
0.10% C – 62% min Cr	1.77–1.83*	0.56%	▲ 03 Nov 16
0.15% C – 60% min Cr	1.74–1.76*	0.57%	▲ 03 Nov 16
Spot 6–8% C basis 50% Cr delivered duty paid China RMB/tonne	8,500–9,300*	2.3%	▲ 28 Oct 16
Contract 6–8% C basis 50% Cr delivered duty paid China RMB/tonne	6,850–7,300*	0%	28 Oct 16

	Price	Change	Assessed
Chrome ore \$/tonne			
<i>Chrome ore cif main Chinese ports</i>			
South African UG2 chrome ore concs, basis 42%	340–360*	11.11%	▲ 04 Nov 16
Turkish lumpy 40–42% cfr main Chinese ports	370–390*	8.57%	▲ 04 Nov 16
Ferro-manganese			
basis 78% Mn (scale pro rata) standard 7.5% C €/tonne	850–925*	11.64%	▲ 04 Nov 16
US free market 78% Mn standard 7.5% C \$/long ton in-warehouse Pittsburgh	870–920*	4.07%	▲ 03 Nov 16
US free market medium carbon duty paid fob Pittsburgh, 80% min Mn 1.5% max C \$/lb	0.81–0.83*	3.14%	▲ 03 Nov 16
MB Chinese free market min 65% Mn max 7.0% C in-warehouse China RMB/tonne	7,300–7,500*	15.62%	▲ 28 Oct 16
Manganese ore			
44% Mn, cif Tianjin \$/dmtu of metal contained	8.27*	4.68%	▲ 04 Nov 16
37% Mn, fob Port Elizabeth \$/dmtu of metal contained	6.98*	3.41%	▲ 04 Nov 16
Ferro-silicon			
Lumpy basis 75% Si (scale pro rata) €/tonne	920–975*	0%	04 Nov 16
US free market \$/lb in-warehouse Pittsburgh lumpy basis 75% Si – imported	0.71–0.75*	2.1%	▲ 03 Nov 16
Export from mainland China, min 75% Si, 7.5% C, \$/tonne, fob	1,150–1,170*	9.43%	▲ 28 Oct 16
MB Chinese free market min 75% in-warehouse China RMB/tonne	5,600–5,900*	9.52%	▲ 28 Oct 16
Silico-manganese			
Lumpy basis 65–75% Mn basis 15–19% Si (scale pro rata) €/tonne	820–930*	8.36%	▲ 04 Nov 16
US free market \$/lb in-warehouse Pittsburgh	0.44–0.48*	4.55%	▲ 03 Nov 16
MB Chinese free market min 65% Mn max 17% Si in-warehouse China RMB/tonne	7,500–7,800*	6.25%	▲ 28 Oct 16
65% min Mn 16% min Si \$/tonne fob India	1,000–1,050*	2.76%	▲ 04 Nov 16

† week-on-week change

CARBON STEEL – EUROPE

	Price	Change [†]	Assessed
Northern Europe imports			
<i>Metal Bulletin's appraisal of cfr prices for imported, non-EU origin, commercial-quality carbon steel, € per tonne cfr main EU port</i>			
Rebar	400–410*	0%	02 Nov 16
Wire rod (mesh quality)	400–425*	0%	02 Nov 16
Plate (8–40mm)	430–440*	1.16% ▲	02 Nov 16
Hot rolled coil	430–440*	0%	02 Nov 16
Cold rolled coil	520–530*	0%	02 Nov 16
Hot-dip galvanized coil	500–520*	0%	02 Nov 16
Southern Europe imports			
<i>Metal Bulletin's appraisal of cfr prices for imported, non-EU origin, commercial-quality carbon steel, € per tonne cfr main EU port</i>			
Rebar	360–365*	0%	02 Nov 16
Wire rod (mesh quality)	370–375*	0%	02 Nov 16
Plate (8–40mm)	400–410*	0%	02 Nov 16
Hot rolled coil	430–440*	0%	02 Nov 16
Cold rolled coil	530–550*	0%	02 Nov 16
Hot-dip galvanized coil	445–460*	0%	02 Nov 16
Southern Europe exports			
<i>Metal Bulletin's appraisal of Southern Europe mills' prices for export outside Southern Europe of commercial-quality carbon steel, € per tonne fob main Southern European port</i>			
Rebar	350–370*	5.88% ▲	02 Nov 16
Wire rod (mesh quality)	345–355*	0%	02 Nov 16
Northern Europe domestic			
<i>Metal Bulletin's appraisal of prices within the EU (excluding the UK) for commercial-quality carbon steel of EU origin, € per tonne delivered basis point</i>			
Rebar	400–410*	–0.61% ▼	02 Nov 16
Wire rod (mesh quality)	440–450*	0%	02 Nov 16
Sections (medium)	495–525*	0.49% ▲	02 Nov 16
Beams	480–500*	0.51% ▲	02 Nov 16
Southern Europe domestic			
<i>Metal Bulletin's appraisal of prices within the EU (excluding the UK) for commercial-quality carbon steel of EU origin, € per tonne delivered basis point</i>			
Rebar	340–345*	0%	02 Nov 16
Wire rod (mesh quality)	350–355*	0%	02 Nov 16
Sections (medium)	450–490*	0%	02 Nov 16
Beams	470–500*	1.57% ▲	02 Nov 16
Central Europe domestic € per tonne ex-works			
Hot rolled coil	420–430*	0.59% ▲	02 Nov 16
Poland domestic zloty per tonne ex-works			
Rebar	1,660–1,690*	0.3%	▲ 04 Nov 16
Northern Europe € per tonne ex-works			
Plate (8–40mm)	530–540*	2.88% ▲	02 Nov 16
Hot rolled coil	440–460*	0%	02 Nov 16
Cold rolled coil	540–560*	0.92% ▲	02 Nov 16
Hot-dip galvanized coil	550–570*	0%	02 Nov 16
Beams	465–485*	0.53% ▲	02 Nov 16
Hollow sections	480–510*	0.51% ▲	02 Nov 16
Southern Europe € per tonne ex-works			
Plate (8–40mm)	440–450*	1.14% ▲	02 Nov 16
Hot rolled coil	430–440*	0%	02 Nov 16
Cold rolled coil	520–540*	0.47% ▲	02 Nov 16
Hot-dip galvanized coil	520–540*	0.95% ▲	02 Nov 16
Beams	455–485*	1.62% ▲	02 Nov 16
Hollow sections	435–475*	0%	02 Nov 16

CARBON STEEL – NORTH AFRICA

	Price	Change [†]	Assessed
Algeria imports			
<i>Metal Bulletin's appraisal of cfr prices for imported, EU origin, commercial-quality carbon steel, € per tonne cfr main port</i>			
Rebar	360–390*	5.63% ▲	02 Nov 16

CARBON STEEL – CIS

	Price	Change [†]	Assessed
CIS exports (Black Sea)			
<i>Metal Bulletin's appraisal of CIS mills' prices for export outside the CIS of commercial-quality carbon steel, \$ per tonne fob stowed main Black Sea port</i>			
Billet	340–345*	4.42% ▲	31 Oct 16
Slab	350–360*	2.16% ▲	31 Oct 16
Rebar	380–385*	1.73% ▲	31 Oct 16
Wire rod (mesh)	390–395*	2.61% ▲	31 Oct 16
Heavy plate (10–50mm)	390–408*	0%	31 Oct 16
Hot rolled coil	420–430*	3.66% ▲	31 Oct 16
Cold rolled coil	490–495*	6.14% ▲	31 Oct 16
CIS domestic			
<i>Metal Bulletin's appraisal of prices within Russia for commercial-quality carbon steel of CIS origin, rubles per tonne, carriage paid to (cpt) inc VAT</i>			
Rebar	30,500–30,550*	0%	31 Oct 16
Hot rolled sheet	35,500–35,550*	1.72% ▲	31 Oct 16
Cold rolled sheet	41,700–41,800*	0.85% ▲	31 Oct 16
Plate	32,800–33,300*	–0.83% ▼	31 Oct 16

CARBON STEEL – MIDDLE EAST

	Price	Change [†]	Assessed
Turkish exports			
<i>Metal Bulletin's appraisal of Turkish mills' prices for export of commercial-quality carbon steel, \$ per tonne fob main Turkish port</i>			
Billet	375–385*	7.04% ▲	03 Nov 16
Rebar	410–420*	7.79% ▲	03 Nov 16
Wire rod (mesh quality)	410–430*	3.7% ▲	03 Nov 16
Merchant bars	440–450*	4.71% ▲	03 Nov 16
Structural pipe	450–470*	0%	12 Oct 16
Hot rolled coil	450–460*	0%	04 Nov 16
Turkish domestic			
<i>Metal Bulletin's appraisal of prices within Turkey for commercial-quality carbon steel of Turkish origin, \$ per tonne ex-works</i>			
Billet	363–370*	1.81% ▲	03 Nov 16
Rebar	408–430*	5.41% ▲	03 Nov 16
Wire rod (mesh quality)	435–456*	4.82% ▲	03 Nov 16
Hot rolled coil	470–480*	2.7% ▲	04 Nov 16
Cold rolled coil	560–580*	–2.56% ▼	04 Nov 16
Hot dip galvanized	640–660*	0.78% ▲	04 Nov 16
Prepainted galvanized	760–775*	0%	04 Nov 16
Turkish imports			
<i>Metal Bulletin's appraisal of prices for imported commercial-quality carbon steel, \$ per tonne cfr main Turkish port</i>			
Billet	370–375*	7.97% ▲	03 Nov 16
Hot rolled coil	445–455*	1.12% ▲	04 Nov 16
Cold rolled coil	510–520*	4.57% ▲	04 Nov 16
UAE imports			
<i>Metal Bulletin's appraisal of prices for imported commercial-quality carbon steel, \$ per tonne cfr Jebel Ali</i>			
Billet	360–370*	3.55% ▲	01 Nov 16
Rebar	400–410*	5.19% ▲	01 Nov 16
Hot rolled coil	440–445*	3.51% ▲	01 Nov 16
Cold rolled coil	540–545*	11.86% ▲	01 Nov 16
Hot dip galvanized coil	610–620*	6.03% ▲	01 Nov 16

† week-on-week change

	Price	Change	Assessed
Saudi Arabia imports			
<i>Metal Bulletin's appraisal of prices for imported commercial-quality carbon steel, \$ per tonne cfr</i>			
Rebar	405-410*	5.16% ▲	01 Nov 16
Hot rolled coil	440-450*	5.95% ▲	01 Nov 16

UAE domestic			
<i>Metal Bulletin's appraisal of prices within UAE for commercial-quality carbon steel of UAE origin, dirhams per tonne ex-works</i>			
Rebar	1,451-1,460*	0%	01 Nov 16

Iran domestic			
<i>Metal Bulletin's appraisal of prices within Iran for commercial-quality carbon steel of Iranian origin, million rials per tonne delivered warehouse Tehran</i>			
Billet	13.10-13.50*	-0.37% ▼	02 Nov 16
Rebar (12-25mm)	15.20-15.60*	0.65% ▲	02 Nov 16
Plate	18.00-19.50*	0.4% ▲	02 Nov 16
Hot rolled coil	18.50-19.15*	0.67% ▲	02 Nov 16
Cold rolled coil	20.40-22.60*	1.18% ▲	02 Nov 16
Hot-dip galvanized coil	22.85-25.00*	-0.93% ▼	02 Nov 16

Iran imports			
<i>Metal Bulletin's appraisal of prices quoted by overseas suppliers for commercial-quality carbon steel to Iranian buyers, \$ per tonne cfr Iranian northern ports</i>			
Billet	350-360*	0%	02 Nov 16
Rebar	410-420*	2.47% ▲	02 Nov 16
Cold rolled coil	450-460*	-0.55% ▼	02 Nov 16
Hot rolled coil	400-410*	-2.41% ▼	02 Nov 16
Plate	400-420*	0%	02 Nov 16
Hot dip galvanized coil	520-530*	-1.87% ▼	02 Nov 16
Prepainted galvanized	590-600*	0%	02 Nov 16

Egyptian domestic			
<i>Metal Bulletin's appraisal of prices within Egypt for commercial-quality carbon steel of Egyptian origin, £ per tonne ex-works</i>			
Rebar	7,250-7,350*	0%	03 Nov 16

Egyptian import			
<i>Metal Bulletin's appraisal of prices for imported commercial-quality carbon steel, \$ per tonne cfr main port</i>			
Billet	370-380*	1.35% ▲	03 Nov 16

CARBON STEEL - LATIN AMERICA

	Price	Change†	Assessed
Latin American exports			
<i>Metal Bulletin's appraisal of Latin American mills' prices for export outside Latin America of commercial-quality carbon steel, \$ per tonne fob stowed main Latin American port</i>			
Billet	315-320*	0%	04 Nov 16
Slab	340-355*	2.21% ▲	04 Nov 16
Rebar	380-390*	0%	04 Nov 16
Wire rod mesh quality	380-390*	0%	04 Nov 16
Heavy plate over 10mm	400-425*	0%	04 Nov 16
Hot rolled coil (dry)	390-395*	0%	04 Nov 16
Cold rolled coil	525-540*	-0.47% ▼	04 Nov 16
Galvanized coil	705-710*	0%	04 Nov 16

South America imports			
<i>Metal Bulletin's appraisal of cfr prices for imported, commercial-quality carbon steel, \$ per tonne cfr main ports</i>			
Plate	415-420*	2.45% ▲	04 Nov 16
Hot rolled coil	450-470*	8.24% ▲	04 Nov 16
Cold rolled coil	520-540*	8.72% ▲	04 Nov 16
Galvanized coil	595-605*	3.9% ▲	04 Nov 16

	Price	Change	Assessed
Argentina domestic \$ per tonne ex-works			
<i>Metal Bulletin's appraisal of prices within Argentina for commercial-quality carbon steel, \$ per tonne</i>			
Hot rolled coil	615-620*	2.92% ▲	04 Nov 16
Cold rolled coil	735-745*	2.78% ▲	04 Nov 16
Galvanized coil	1,015-1,100*	2.92% ▲	04 Nov 16
Rebar	800-820*	0%	04 Nov 16

Brazil domestic			
<i>Metal Bulletin's appraisal of prices within Brazil for commercial-quality carbon steel, Reais per tonne ex-works</i>			
Hot rolled coil	2,945-3,165*	4.98% ▲	04 Nov 16
Cold rolled coil	3,265-3,370*	4.98% ▲	04 Nov 16
Hot dip galvanized coil	3,685-3,835*	4.95% ▲	04 Nov 16

<i>Metal Bulletin's appraisal of prices within Brazil for commercial-quality carbon steel, Reais per tonne delivered</i>			
Rebar	2,905-3,045*	0%	04 Nov 16

Peru domestic Nuevos Soles per tonne ex-works			
<i>Metal Bulletin's appraisal of prices within Peru for commercial-quality carbon steel, Peruvian Nuevos Soles per tonne</i>			
Rebar	2,315-2,655*	0%	04 Nov 16

CARBON STEEL - NAFTA

	Price	Change†	Assessed
US imports			
<i>Metal Bulletin's appraisal of prices for imported, non-Nafta origin, commercial-quality carbon steel, \$ per short ton cfr port Houston</i>			
Rebar	386-395*	8.32% ▲	02 Nov 16
Merchant bars	530-550*	1.89% ▲	28 Oct 16
Wire rod (low carbon)	386-395*	3.03% ▲	26 Oct 16
Medium sections	480-520*	0%	27 Oct 16
Medium plate	465-480*	0%	02 Nov 16
Hot rolled coil (commodity)	440-460*	0%	02 Nov 16
Cold rolled coil	580-620*	0%	02 Nov 16
Hot dipped galvanized 0.012-0.015, G30	670-700*	0%	02 Nov 16
Hot dipped galvanized 0.019, G60	660-700*	0%	02 Nov 16
ERW linepipe (X42)	600-600*	0%	25 Oct 16
OCTG API5CT - casing J/K55	690-690*	4.55% ▲	25 Oct 16

US domestic			
<i>AMM's appraisal of prices within the USA for commercial-quality carbon steel of US or Canadian origin, \$ per short ton, delivery terms as indicated</i>			
Rebar (fob mill)	480-500*	4.26% ▲	02 Nov 16
Wire rod (mesh quality fob mill)	420-440*	-4.44% ▼	26 Oct 16
Plate (fob mill)	470-470*	0%	28 Oct 16
Hot rolled sheet (fob mill)	480-480*	2.13% ▲	03 Nov 16
Cold rolled sheet (fob mill)	700-700*	1.45% ▲	03 Nov 16
Hot-dip galvanized (base) Midwest (fob mill)	710-710*	2.9% ▲	03 Nov 16
ERW linepipe (X42) (fob mill)	810-810*	0%	25 Oct 16
OCTG API5CT - casing J/K55 (fob mill)	820-820*	-3.53% ▼	25 Oct 16

<i>AMM's appraisal of prices within the USA for commercial-quality carbon steel of US or Canadian origin, \$ per hundredweight, delivery terms as indicated</i>			
Merchant bar 3 x 3 1/4 angle (fob mill)	30.50-30.50*	0%	28 Oct 16

† week-on-week change

CARBON STEEL – ASIA			
	Price	Change [†]	Assessed
China exports			
<i>Metal Bulletin's appraisal of Chinese mills prices for export of commercial-quality carbon steel, \$ per tonne fob main China port</i>			
Rebar	380–385*	6.99%	▲ 04 Nov 16
Wire rod (mesh quality)	395–400*	8.16%	▲ 04 Nov 16
Heavy plate	400–405*	3.87%	▲ 04 Nov 16
Hot rolled coil	440–445*	6.63%	▲ 04 Nov 16
Cold rolled coil	500–505*	4.15%	▲ 04 Nov 16
Galvanized coil 1mm	575–580*	0.87%	▲ 04 Nov 16
Eastern China domestic			
<i>Metal Bulletin's appraisal of prices in eastern China for commercial-quality carbon steel of Chinese origin, yuan per tonne ex-warehouse</i>			
Rebar	2,650–2,700*	7%	▲ 04 Nov 16
Wire rod (mesh)	2,750–2,780*	6.96%	▲ 04 Nov 16
Sections	2,900–2,920*	2.28%	▲ 04 Nov 16
Plate	2,980–3,030*	6%	▲ 04 Nov 16
Hot rolled coil (min 2mm)	3,180–3,200*	7.05%	▲ 04 Nov 16
Cold rolled coil (0.5 – 2 mm)	3,960–4,020*	5.14%	▲ 04 Nov 16
Hot-dip galvanized coil	4,560–4,650*	5.5%	▲ 04 Nov 16
Northern China domestic			
<i>Metal Bulletin's appraisal of prices in northern China for commercial-quality carbon steel of Chinese origin (Tangshan), yuan per tonne ex-works</i>			
Billet	2,410–2,410*	6.17%	▲ 04 Nov 16
<i>Metal Bulletin's appraisal of prices in northern China for commercial-quality carbon steel of Chinese origin, yuan per tonne ex-warehouse</i>			
Hot rolled coil	3,040–3,080*	6.43%	▲ 04 Nov 16
Rebar	2,620–2,660*	9.32%	▲ 04 Nov 16
Southern China domestic			
<i>Metal Bulletin's appraisal of prices in southern China for commercial-quality carbon steel of Chinese origin, yuan per tonne ex-warehouse</i>			
Rebar	2,850–2,880*	0%	04 Nov 16
Wire rod (mesh)	2,960–3,000*	6.81%	▲ 04 Nov 16
Sections	3,040–3,060*	2.87%	▲ 04 Nov 16
Plate	2,920–2,970*	4.99%	▲ 04 Nov 16
Hot rolled coil (min 2mm)	3,180–3,220*	6.67%	▲ 04 Nov 16
Cold rolled coil (0.5 – 2 mm)	4,100–4,180*	7.12%	▲ 04 Nov 16
Hot-dip galvanized coil	4,550–4,600*	3.04%	▲ 04 Nov 16
Southeast Asia imports			
<i>Metal Bulletin's appraisal of prices in Southeast Asia for commercial-quality carbon steel & per tonne cfr</i>			
Billet	355–365*	2.86%	▲ 31 Oct 16
Slab (Asia/East Asia)	355–365*	2.86%	▲ 31 Oct 16
Hot rolled coil (Vietnam)	430–440*	2.35%	▲ 31 Oct 16
Rebar (Singapore)	350–355*	1.44%	▲ 31 Oct 16
Wire rod (low carbon)	375–385*	1.33%	▲ 31 Oct 16
Indian exports			
<i>Metal Bulletin's appraisal of Indian mills' prices for export of commercial-quality carbon steel, \$ per tonne fob main India port</i>			
Billet	330–335*	0%	28 Oct 16
Plate (12–40mm)	410–420*	0%	28 Oct 16
Hot rolled coil (commodity)	435–445*	0%	28 Oct 16
Hot-dip galvanized coil	730–740*	0%	28 Oct 16
Indian imports			
<i>Metal Bulletin's appraisal of prices for imported, non-EU origin, commercial-quality carbon steel, \$ per tonne cfr main India port</i>			
Plate (20–60mm)	420–425*	1.2%	▲ 28 Oct 16
Hot rolled coil (commodity)	440–445*	3.51%	▲ 28 Oct 16
Hot rolled coil (CR grade)	445–450*	4.68%	▲ 28 Oct 16
Cold rolled	520–525*	7.18%	▲ 28 Oct 16

Indian domestic	Price	Change	Assessed
<i>Metal Bulletin's appraisal of prices within India for commercial-quality carbon steel, rupees per tonne ex-works</i>			
Billet	21,000–21,100*	–1.41%	▼ 28 Oct 16
Heavy plate	32,000–32,500*	0%	28 Oct 16
Hot rolled coil	33,500–34,000*	0%	28 Oct 16
Cold rolled coil	37,500–38,000*	0%	28 Oct 16
DRI	14,100–14,300*	–0.7%	▼ 28 Oct 16
Hot-dip galvanized coil	42,500–43,500*	0%	28 Oct 16
Rebar	22,400–22,500*	0%	28 Oct 16

STEELBENCHMARKER™ PRICES

Region: USA east of the Mississippi	Price	Change [†]	Assessed
Standard plate (\$/metric tonne)	612	–3.47%	▼ 24 Oct 16
Standard plate (\$/short ton)	556	–3.3%	▼ 24 Oct 16
Hot rolled coil (\$/metric tonne)	546	–4.04%	▼ 24 Oct 16
Hot rolled coil (\$/short ton)	496	–3.88%	▼ 24 Oct 16
Cold rolled coil (\$/metric tonne)	757	–2.57%	▼ 24 Oct 16
Cold rolled coil (\$/short ton)	686	–2.7%	▼ 24 Oct 16
Region: Mainland China			
Rebar	323	3.86%	▲ 24 Oct 16
Standard plate	345	2.99%	▲ 24 Oct 16
Hot rolled coil	361	2.56%	▲ 24 Oct 16
Cold rolled coil	464	2.65%	▲ 24 Oct 16
Region: World export market			
Hot rolled coil (\$/metric tonne)	417	4.51%	▲ 24 Oct 16

STAINLESS STEEL

Asia import	Price	Change [†]	Assessed
\$/tonne cif East Asian port			
Grade 304 2mm CR coil 2B	2,000–2,020*	0.75%	▲ 04 Nov 16
Grade 304 HR sheet	1,900–1,920*	0.79%	▲ 04 Nov 16
China domestic			
yuan/tonne, in-warehouse			
Grade 304 2mm CR coil	15,000–15,200*	2.03%	▲ 04 Nov 16
Grade 430 2mm CR coil	9,000–9,050*	6.8%	▲ 04 Nov 16
EU export			
€/tonne fob N. European port			
Min 100 tonne lot			
Grade 304 2mm CR sheet	2,129–2,216*	0.12%	▲ 04 Nov 16
EU domestic			
2mm 304 cold rolled stainless sheet, €/tonne			
N. Europe Base price	1,090–1,115*	0.23%	▲ 04 Nov 16
Alloy surcharge	1,039–1,101*	0%	04 Nov 16
2mm 316 cold rolled stainless sheet, €/tonne			
Base price	1,420–1,435*	1.24%	▲ 04 Nov 16
Alloy surcharge	1,469–1,571*	0%	04 Nov 16
304 stainless steel bright bar, €/tonne			
Base price	900–920*	0%	04 Nov 16
Alloy surcharge	1,280–1,340*	0%	04 Nov 16
US domestic			
<i>AMM's appraisal of prices within the USA for commercial-quality stainless steel of US or Canadian origin, \$ per hundredweight, fob</i>			
Grade 304 coiled plate	91–91*	4.62%	▲ 03 Nov 16
Grade 316 coiled plate	123–123*	3.38%	▲ 03 Nov 16
Grade 304 cold rolled sheet	107–107*	3.88%	▲ 03 Nov 16
Grade 316L cold rolled sheet	141–141*	2.92%	▲ 03 Nov 16
Raw materials index			
EU domestic stainless steel \$ per tonne			
304 Europe raw materials index	1,130.58*	1.17%	▲ 31 Oct 16

continued >>

CHINA IRON ORE*cfr main China port \$ per dry metric tonne*

	Price	Change†	Assessed
Iron ore index (62% fe)	65.00*	1.63% ▲	04 Nov 16
Iron ore pellet index cfr Qingdao (65% fe)	96.54*	-0.32% ▼	04 Nov 16
Iron ore concentrate index cfr Qingdao (66% fe)	81.72*	3.73% ▲	04 Nov 16
Metal Bulletin Indicator for US\$/% Fe in iron ore fines cfr Qingdao	0.91*	1.11% ▲	01 Nov 16

IRAN IRON ORE*cfr China US \$ per tonne*

	Price	Change†	Assessed
Iron ore fines index (60% Fe)	58.32–58.32*	9.42% ▲	02 Nov 16

COOKING COAL*\$ per metric tonne*

	Price	Change†	Assessed
Premium hard coking coal cfr China	279.89–279.89*	8.45% ▲	04 Nov 16
Hard coking coal cfr China	247.69–247.69*	10.46% ▲	04 Nov 16
Premium hard coking coal fob Australia	270.45–270.45*	7.68% ▲	04 Nov 16
Hard coking coal fob Australia	240.97–240.97*	11.73% ▲	04 Nov 16
China hard coking coal Shanxi spot market domestic delivered yuan/tonne	1,500–1,600*	6.16% ▲	04 Nov 16
65% CSR coke \$/tonne fob Tianjin	300–310*	7.96% ▲	01 Nov 16

FERROUS SCRAP

	Price	Change†	Assessed
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UK ferrous scrap domestic

The following is Metal Bulletin's evaluation of UK prices for processed scrap delivered to consumers within the month listed. Prices may vary according to region and destination, and should be read in conjunction with editorial comment on the Ferrous scrap pages.

*£/tonne***Cut grades**

0A plate and structural	125–135*	-3.7% ▼	11 Oct 16
1&2 old steel	100–110*	-4.55% ▼	11 Oct 16
12A/C new production heavy and shovellable steel	125–135*	-3.7% ▼	11 Oct 16
12D new production heavy and shovellable steel	130–140*	-3.57% ▼	11 Oct 16

Bales and cuttings

4A new steel bales	130–140*	-3.57% ▼	11 Oct 16
4C new steel bales	125–135*	-3.7% ▼	11 Oct 16
8A new loose light cuttings	120–130*	-3.85% ▼	11 Oct 16
8B new loose light cuttings	105–115*	-4.35% ▼	11 Oct 16

Turnings

UK inter-merchant 7B heavy steel turnings	80–90*	-5.56% ▼	11 Oct 16
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Cast iron

9A/10 heavy and light cast iron	105–115*	-4.35% ▼	11 Oct 16
9B/C cylinder block scrap	125–135*	-3.7% ▼	11 Oct 16
11A cast iron borings	70–85*	-6.06% ▼	11 Oct 16

*Prices relate to new UK scrap specifications**Please see MB.com for full explanation of price changes***UK intermerchant weekly price***£/tonne*

5C loose old light	50–70*	0%	28 Oct 16
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UK ferrous scrap export*MB assessment \$/tonne cfr main UK port*

HMS 1&2 (80:20 mix)	235–236*	9.03% ▲	04 Nov 16
Shredded	240–241*	8.82% ▲	04 Nov 16

Indian imports*MB assessment \$/tonne cfr Nhava Sheva*

MB index cfr India shredded	255.14*	5.96% ▲	04 Nov 16
HMS 1&2 (80:20 mix)	225–235*	3.84% ▲	04 Nov 16

Price Change Assessed**Alloy steel scrap domestic***UK wholesale merchants' stainless (£/tonne)*

18/8 solids	800–830*	0%	04 Nov 16
18/8 turnings	680–705*	0%	04 Nov 16
12–13% Cr solids	95–120*	0%	04 Nov 16
16–17% Cr solids	130–150*	0%	04 Nov 16

Cif Europe stainless € per tonne

18/8 solids	970–980*	0%	04 Nov 16
18/8 turnings	855–860*	-2% ▼	04 Nov 16

Rotterdam export*MB assessment \$/tonne fob Rotterdam*

MB index fob Rotterdam HMS 1&2 (80:20)	224.00*	4.22% ▲	04 Nov 16
HMS 1&2 (70:30 mix)	220–222*	4.99% ▲	04 Nov 16
Shredded	239–243*	7.11% ▲	04 Nov 16

Turkish import*MB assessment \$/tonne cfr main Turkish ports*

MB index cfr Turkey HMS 1&2 (80:20) (North Europe material)	240.23*	4.92% ▲	04 Nov 16
MB index cfr Turkey HMS 1&2 (80:20) (United States material)	246.05*	4.09% ▲	04 Nov 16
HMS 1&2 (75:25 mix)	233–235*	4.7% ▲	04 Nov 16
Shredded	252–256*	6.72% ▲	04 Nov 16

Turkish domestic*MB assessment delivered*

Melting scrap from shipbreaking (\$/tonne)	235.00–236.00*	0%	31 Oct 16
Auto bundle scrap (Turkish lira/tonne)	685.00–715.00*	4.48% ▲	31 Oct 16

USA export*AMM ferrous scrap export index \$/tonne East Coast fob New York*

HMS 1&2 (80:20)	217.40*	0%	02 Nov 16
Shredded	222.19*	0%	02 Nov 16

USA domestic*AMM Midwest index \$/gross ton delivered mill*

No1 heavy melting scrap	182.00*	-9.7% ▼	10 Oct 16
No1 busheling	203.81*	-12.93% ▼	10 Oct 16
Shredded	201.48*	-8.08% ▼	10 Oct 16

China domestic*yuan/tonne delivered mill*

Heavy scrap	1,650–1,690*	3.09% ▲	04 Nov 16
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Taiwan import*\$/tonne cfr main port*

HMS 1&2 (80:20 mix) (USA material)	218–228*	6.19% ▲	04 Nov 16
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Germany domestic*€/tonne composite sales price ex-yard, source: BDSV*

No E2/8 (new steel scrap)	155.50	-4.19% ▼	03 Oct 16
No E1 (old steel scrap)	143.90	-4.45% ▼	03 Oct 16
No E3 (old thick steel scrap)	157.80	-4.19% ▼	03 Oct 16
No E40 (shredded steel scrap)	162.10	-5.09% ▼	03 Oct 16
No E5 (steel turnings)	121.40	-5.3% ▼	03 Oct 16

MB assessment €/tonne delivered at mill

Grade E40 (shredded steel scrap)	170–183	-5.87% ▼	18 Oct 16
No E8 (thin new production steel scrap)	175–180	-2.74% ▼	18 Oct 16
No E3 scrap)	165–180	-5.48% ▼	18 Oct 16

Italy domestic*MB assessment €/tonne delivered at mill*

No E3 (old thick scrap)	170.00	-1.39% ▼	20 Oct 16
No E8 (thin new production steel)	180.00	-5.13% ▼	20 Oct 16

† week-on-week change

continued >>

SCRAP SUBSTITUTES

	Price	Change [†]	Assessed
EU imports \$/tonne			
Pig iron imports cif Italy	296–301*	9.54%	▲ 03 Nov 16
Latin American exports \$/tonne, delivery terms as stated			
Hot briquetted iron Venezuela	200–205*	6.58%	▲ 04 Nov 16
Pig iron fob Vitoria/Rio	265–270*	8.08%	▲ 04 Nov 16
Pig iron fob Ponta da Maderia	290–295*	7.34%	▲ 04 Nov 16
US imports \$/tonne cfr Gulf of Mexico			
Pig iron	305–310*	6.96%	▲ 04 Nov 16
CIS exports \$/tonne fob main port			
Pig iron Baltic Sea	290–300*	0%	03 Nov 16
Pig iron Black Sea	280–285*	6.6%	▲ 03 Nov 16
China domestic yuan/tonne delivered warehouse			
Pig iron	2,210–2,350*	3.87%	▲ 04 Nov 16

NON-FERROUS SCRAP EUROPE

	Price	Change [†]	Assessed
Aluminium			
European free market MB assessment €/tonne			
Floated frag	1,160–1,200*	–0.42%	▼ 04 Nov 16
Cast	1,070–1,170*	0.9%	▲ 04 Nov 16
Mixed turnings 6%	980–1,040*	1%	▲ 04 Nov 16

Germany per 1000kg

Pure cuttings	1,250–1,330	2.38%	▲ 02 Nov 16
Commercial cast	1,190–1,320	2.03%	▲ 02 Nov 16
H9 extrusions	1,450–1,570	2.03%	▲ 02 Nov 16
Alloy turnings	920–1,040	3.7%	▲ 02 Nov 16

Source: VDM

France per 1000kg

Pure cuttings	1,280–1,300	5.31%	▲ 27 Sep 16
Old rolled	680–720	–2.78%	▼ 27 Sep 16
Commercial cast	830–850	–1.18%	▼ 27 Sep 16

Source: Lettre d'Information Metaux

Italy per 1000kg

Pure cuttings	1,115–1,215	–0.43%	▼ 28 Oct 16
Old mixed scrap	1,030–1,080	–0.47%	▼ 28 Oct 16
Commercial cast	970–1,020	–0.5%	▼ 28 Oct 16

Source: Assomet

Copper**Germany per 1000kg**

Copper wire (berry)	4,220–4,400	1.65%	▲ 02 Nov 16
Heavy copper	3,950–4,150	1.76%	▲ 02 Nov 16
Heavy brass	2,640–2,880	1.85%	▲ 02 Nov 16
Brass turnings (MS 58)	2,980–3,200	2.49%	▲ 02 Nov 16
Brass sheet (MS 63)	3,220–3,400	1.53%	▲ 02 Nov 16

Source: Verein Deutscher Metallhändler

France per 1000kg

Electro cuttings	3,900–3,920	1.16%	▲ 27 Sep 16
No 1 bright wire	3,700–3,730	1.09%	▲ 27 Sep 16
Mixed (96%)	3,650–3,670	1.24%	▲ 27 Sep 16
Brass plate cuttings 70/30	3,080–3,120	0.81%	▲ 27 Sep 16
Brass turnings	2,450–2,500	0%	27 Sep 16
Mixed brass	2,450–2,480	1.02%	▲ 27 Sep 16

Source: Lettre d'Information Metaux

Italy per 1000kg

Electrolytic dd EN 12861–S–Cu–2	4,200–4,252	3.91%	▲ 28 Oct 16
Enamelled wire EN 12861–S–Cu–3	4,038–4,090	4.07%	▲ 28 Oct 16
New from tubes, strips etc EN 12861–S–Cu–4	4,159–4,211	3.95%	▲ 28 Oct 16
Old from tubes, strips etc 12861–S–Cu–7	3,885–3,937	4.24%	▲ 28 Oct 16

EN12861–S–Cu–Zn–1–A–Cu 63.5%	3,360–3,437	3.09%	▲ 28 Oct 16
Mixed from valves/taps EN 12861–S–Cu–Zn–6	2,670–2,900	2.58%	▲ 28 Oct 16
Several 95% m/m 12861–S–Cu–Zn–7	2,609–2,687	4.01%	▲ 28 Oct 16

Source: Assomet

STEELBENCHMARKER™ SCRAP PRICES

	Price	Change [†]	Assessed
Region: USA, east of the Mississippi			
Shredded scrap (\$/metric tonne)**	194	0%	24 Oct 16
Shredded scrap (\$/gross ton)**	197	0%	24 Oct 16
No 1 heavy melting scrap (\$/metric tonne)	174	0%	24 Oct 16
No 1 heavy melting scrap (\$/gross ton)	177	0%	24 Oct 16
No 1 busheling scrap (\$/metric tonne)	199	0%	24 Oct 16
No 1 busheling scrap (\$/gross ton)	202	0%	24 Oct 16

**For shredded scrap the region is for all but the West Coast

UK NON-FERROUS SCRAP

	Price	Change [†]	Assessed
Aluminium – actual price			
£ per tonne			

Group 1 pure 99% & Litho	1,240–1,300*	4.53%	▲ 02 Nov 16
Commercial pure cuttings	1,000–1,060*	2.49%	▲ 02 Nov 16
Clean HE9 extrusions	1,240–1,300*	4.53%	▲ 02 Nov 16
Loose old rolled cuttings	750–800*	0%	02 Nov 16
Baled old rolled	840–880*	0%	02 Nov 16
Commercial cast	890–940*	1.1%	▲ 02 Nov 16
Cast wheels	1,130–1,180*	2.67%	▲ 02 Nov 16
Commercial turnings	610–660*	1.6%	▲ 02 Nov 16
Group 7 turnings	450–530*	0%	02 Nov 16

MB and LME aluminium scrap discounts

£ per tonne			
Group 1 pure 99% & Litho	99–159*	4.88%	▲ 02 Nov 16
Commercial pure cuttings	339–399*	10.81%	▲ 02 Nov 16
Clean HE9 extrusions	99–159*	4.88%	▲ 02 Nov 16
Loose old rolled cuttings	479–529*	3.92%	▲ 02 Nov 16
Baled old rolled	399–439*	4.75%	▲ 02 Nov 16
Commercial cast	339–389*	2.54%	▲ 02 Nov 16
Cast wheels	99–149*	–8.15%	▼ 02 Nov 16
Commercial turnings	619–669*	1.42%	▲ 02 Nov 16
Group 7 turnings	749–829*	2.47%	▲ 02 Nov 16

Titanium

\$/lb cif			
Turnings, unprocessed type 90/6/4 (0.5% Sn max)	0.55–0.67*	0%	02 Nov 16
Turnings, unprocessed 90/6/4 (over 0.5% max 2% Sn)	0.30–0.35*	0%	02 Nov 16

Copper scrap discount

cents/lb			
No 2 copper (birch/cliff) imported into China 94–96% cif China	21–23*	7.32%	▲ 31 Oct 16

† week-on-week change

continued >>

NON-FERROUS FOUNDRY INGOTS

	Price	Change [†]	Assessed
Aluminium UK £/tonne			
MB free market			
LM24 pressure diecasting ingot	1,390–1,450*	1.79% ▲	02 Nov 16
LM6/LM25 gravity diecasting ingot	1,600–1,650*	1.88% ▲	02 Nov 16
NB: prices expressed delivered consumer works, LM series as specified in BS1490			
Aluminium Europe			
MB free market			
Duty paid delivered works pressure diecasting ingot price (DIN226/A380) – €/tonne	1,500–1,590*	–0.96% ▼	04 Nov 16
Aluminum US \$/lb delivered Midwest			
A380.1 alloy	0.82–0.83*	0%	03 Nov 16
AFFIMET €/tonne			
AS12	3,400	4.29% ▲	01 Nov 16
AS12 UN	2,765	–2.3% ▼	01 Nov 16
AS9 U3	2,140	–2.95% ▼	01 Nov 16
AS5 U3	2,490	–2.54% ▼	01 Nov 16
Reflects generally larger traded lots			
VDM €/1000 kg delivered			
DIN 226	2,170–2,270	0%	02 Nov 16
DIN 231	2,250–2,350	0%	02 Nov 16
DIN 311	2,230–2,330	0%	02 Nov 16
Aluminium bronze £/tonne UK			
AB1 ex-works	4,300	1.18% ▲	01 Nov 16
AB2 ex-works	4,400	1.15% ▲	01 Nov 16
Source: C. F. Booth Ltd			
Brass UK £/tonne			
SCB3 ex-works	3,550	1.43% ▲	01 Nov 16
High tensile HTB1 ex-works	3,650	1.39% ▲	01 Nov 16
Source: C. F. Booth Ltd			
Gunmetal UK £/tonne			
LG2 85/5/5/5 ex-works	4,150	1.22% ▲	01 Nov 16
LG4 87/7/3/3 ex-works	4,750	1.06% ▲	01 Nov 16
G11.15 PB ex-works	5,450	0.93% ▲	01 Nov 16
Source: C. F. Booth Ltd			
Phosphor bronze UK £/tonne			
PB1 ex-works	6,000	2.56% ▲	01 Nov 16
Source: C. F. Booth Ltd			
Phosphor copper £/tonne			
10% P ex-works	5,800	0.87% ▲	01 Nov 16
15% P ex-works	5,900	0.85% ▲	01 Nov 16
Source: C. F. Booth Ltd			
Zinc alloys UK £/tonne			
Brock Metal Co contract alloy price (delivered UK, min 25 tonne lots)			
Brock Metal ZL3	2,432	4.42% ▲	03 Oct 16
Brock Metal ZL5	2,453	4.34% ▲	03 Oct 16

Metal Bulletin

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Monthly averages: October

BASE METALS

	Low	High
Aluminium		
Aluminium P1020A, in-warehouse Rotterdam duty unpaid, spot \$/tonne		
Rotterdam premium	74.05	82.86
Aluminium P1020A, in-warehouse Rotterdam duty paid, spot \$/tonne		
H/G Cash \$/tonne	125.00	135.63
Alumina		
Index fob Australia	266.19	
Copper		
US High-grade cathode premium indicator, \$/tonne	115.74	126.77
Nickel		
Free market in-warehouse premium		
Europe \$/tonne uncut cathodes	60.00	90.00
4x4 cathodes	150.00	250.00
briquettes	90.00	150.00
US Melting \$/lb	0.16	0.20
Plating \$/lb	0.50	0.60
Tin		
European free market		
Spot Premium 99.9% \$/tonne	375.00	500.00
Spot premium 99.85% \$/tonne	325.00	350.00
Kuala Lumpur (ex-smelter) \$/tonne	19,998.00	

MINOR METALS

Antimony		
MB free market Regulus 99.65%, max Se 50ppm, \$/tonne in-warehouse	7,465.00	7,750.00
MMTA Standard grade II \$/tonne	7,415.00	7,700.00
Bismuth		
MB free market		
min. 99.99%, \$/lb, tonne lots in-warehouse	4.50	4.95
Cadmium		
MB free market		
min 99.95%, cents/lb in-warehouse	51.50	57.25
min 99.99%, cents/lb in-warehouse	53.50	60.63
Cobalt		
MB free market		
High Grade, \$/lb in-warehouse	12.78	13.55
Low Grade, \$/lb in-warehouse	12.56	13.24
Germanium Dioxide		
MB free market min 99.99%, \$/kg	601.25	701.25
Rotterdam \$/kg	850.00	1,000.00
Indium		
MB free market		
Ingots min 99.97%, \$/kg in-warehouse	198.75	245.00
Magnesium		
MB free market		
min 99.8%, \$/tonne	2,320.00	2,417.50
China free market min 99.8%	2,352.50	2,372.50

	Low	High
Mercury		
MB free market		
min 99.99%, \$/flask in-warehouse	940.00	1,250.00
Selenium		
MB free market		
min 99.5% in-warehouse \$/lb	8.78	10.09
Silicon		
MB free market €/tonne	1,600.00	1,700.00
Titanium		
Ferro-Titanium		
70% (max 4.5% Al), \$/kg d/d Europe	3.15	3.31

ORES & ALLOYS

	Low	High
Molybdenum		
Free market in-warehouse		
Europe drummed molybdic oxide \$/lb Mo	6.66	6.78
US canned molybdic oxide \$/lb Mo	6.71	6.98
Ferro-molybdenum		
basis 65% min, in-warehouse Rotterdam, \$/kg Mo	16.67	16.97
Tungsten		
European free market APT \$/mtu	189.50	197.75
Ferro-tungsten		
basis 75% W min	25.51	26.11
Vanadium		
min 98%, in-warehouse Rotterdam, \$/lb V2O5	3.84	4.05
Ferro-vanadium		
basis 78% min, free delivery duty paid consumer plant, 1st grade Western Europe \$/kg V	19.73	20.64
US Free market 70–80%	9.24	9.74

PRECIOUS METALS

Gold		
London \$/troy oz	Morning	1,268.93
	Afternoon	1,266.57
London £/troy oz	Morning	1,027.78
	Afternoon	1,027.38
\$/troy oz	Handy/Harman	1,266.57
Palladium		
Morning \$/troy oz	650.48	
Afternoon \$/troy oz	648.52	
Platinum: per troy oz		
Morning \$/troy oz	960.43	
Afternoon \$/troy oz	959.14	
Rhodium		
European free market		
min 99.9% in-warehouse, \$/troy oz	632.14	729.76
Silver		
London		
spot pence/troy oz	1,436.48	
spot cents/troy oz	1,773.71	
Handy/Harman cents/troy oz	1,764.07	

FOUNDRY INGOTS

	Low	High
Aluminium		
LM24	1,367.50	1,420.00
LM6/LM25	1,577.50	1,610.00
Aluminium Europe €/tonne	1,537.50	1,607.50
Phosphor Bronze		
PB1 ex-works £/tonne	5,812.50	
Zinc Alloy		
10 tonne lots ZL3 £/tonne	2,432.00	

EXCHANGE RATES (CLOSING RATES)

\$/£	1.23
\$/yen	103.90
\$/€	1.10

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Metal Bulletin monthly average prices are calculated on those price quotations formulated during the month.

LONDON METAL EXCHANGE

High, low and average October (21 days)
LME averages are mean of buyers and sellers except for settlement and 3 months sellers.

	January–October 2016		October average
	Low	High	
	\$	\$	\$
Aluminium (\$)			
Cash	1,452.50	1,722.75	1,663.57
3 months	1,451.25	1,723.50	1,668.99
Settlement	1,453.00	1,723.00	1,663.95
3 months seller	1,451.50	1,724.00	1,669.33
Copper Grade A (\$)			
Cash	4,310.25	5,102.50	4,731.76
3 months	4,320.25	5,070.25	4,750.42
Settlement	4,310.50	5,103.00	4,732.14
3 months seller	4,320.50	5,070.50	4,751.12
Copper Grade A (£)			
Settlement	3,005.51	3,970.64	3,835.64
3 months seller	3,012.06	3,973.74	3,843.52
Lead (\$)			
Cash	1,596.50	2,105.25	2,039.50
3 months	1,597.50	2,105.50	2,050.06
Settlement	1,597.00	2,105.50	2,039.93
3 months seller	1,598.00	2,106.00	2,050.64
Lead (£)			
Settlement	1,098.84	1,698.88	1,653.37
3 months seller	1,100.75	1,709.07	1,658.87
Nickel (\$)			
Cash	7,705.00	10,897.50	10,262.26
3 months	7,737.50	10,945.00	10,308.45
Settlement	7,710.00	10,900.00	10,266.43
3 months seller	7,750.00	10,950.00	10,315.71
Tin (\$)			
Cash	13,225.00	20,987.50	20,171.55
3 months	13,212.50	20,712.50	19,999.17
Settlement	13,235.00	21,000.00	20,182.38
3 months seller	13,225.00	20,725.00	20,009.05

	January–October 2016		October average
	Low	High	
	\$	\$	\$
Zinc (\$)			
Cash	1,453.25	2,418.25	2,313.83
3 months	1,466.50	2,413.00	2,322.86
Settlement	1,453.50	2,418.50	2,314.14
3 months seller	1,467.00	2,414.00	2,323.55
Cobalt (\$)			
Cash	21,702.50	28,750.00	28,235.71
3 months	21,800.00	28,750.00	28,230.95
Settlement	21,705.00	29,000.00	28,395.48
3 months seller	21,850.00	29,000.00	28,480.95
Molybdenum (\$)			
Cash	11,500.00	16,750.00	15,119.05
3 months	11,500.00	16,750.00	15,130.95
Settlement	11,750.00	17,000.00	15,369.05
3 months seller	11,750.00	17,000.00	15,392.86
Aluminium Alloy (\$)			
Cash	1,492.50	1,610.00	1,558.10
3 months	1,527.50	1,625.00	1,573.10
Settlement	1,495.00	1,615.00	1,563.10
3 months seller	1,530.00	1,630.00	1,578.10
Nasaa (\$)			
Cash	1,650.00	1,767.50	1,722.62
3 months	1,667.50	1,785.00	1,738.48
Settlement	1,651.00	1,770.00	1,724.21
3 months seller	1,670.00	1,790.00	1,742.14
Steel Billet (\$)			
Cash	75.00	312.50	312.50
3 months	90.00	315.00	312.50
Settlement	100.00	325.00	325.00
3 months seller	115.00	340.00	325.00

LME SETTLEMENT CONVERSION RATES

\$/£	1.23
\$/yen	103.82
\$/€	1.10