

Prices

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NEW YORK FUTURES

	Price	Change [†]	Assessed
Comex: Copper high grade cents/lb			
Settlement	216.70	-1.05%	▼ 18 Aug 16
Open interest	183,556	0.82%	▲ 17 Aug 16
Stocks (short ton)	66,383	0.55%	▲ 17 Aug 16
Comex: Gold \$/troy oz			
Settlement	1,351.20	0.65%	▲ 18 Aug 16
Open interest	570,205	-0.72%	▼ 17 Aug 16
Stocks (troy oz)	10,999,357	-2.23%	▼ 17 Aug 16
Nymex: Palladium \$/troy oz			
Settlement	713.40	3.12%	▲ 18 Aug 16
Stocks (troy oz)	78,732	15.59%	▲ 17 Aug 16
Nymex: Platinum \$/troy oz			
Settlement	1,133.20	-2.03%	▼ 18 Aug 16
Stocks (troy oz)	182,143	-0.01%	▼ 17 Aug 16
Comex: Silver cents/troy oz			
Settlement	1,972.00	-1.32%	▼ 18 Aug 16
Open interest	206,725	-2.58%	▼ 17 Aug 16

SHANGHAI FUTURES

	Price	Change [†]	Assessed
Aluminium yuan/tonne	12,740	0.99%	▲ 19 Aug 16
Copper yuan/tonne	37,330	-0.21%	▼ 19 Aug 16
Nickel cathode yuan/tonne	79,890	-1.37%	▼ 19 Aug 16
Tin ingot yuan/tonne	122,000	1.68%	▲ 19 Aug 16
Zinc yuan/tonne	17,450	0.29%	▲ 19 Aug 16
Steel rebar month 1 yuan/tonne	2,519	0.4%	▲ 19 Aug 16
Steel rebar month 2 yuan/tonne	2,556	0.31%	▲ 19 Aug 16
Steel rebar month 3 yuan/tonne	2,498	-2.95%	▼ 19 Aug 16
Weekly stocks deliverable			
Aluminium (tonnes)	110,757	-2.58%	▼ 19 Aug 16
Copper (tonnes)	172,619	-1.11%	▼ 19 Aug 16
Nickel cathode (tonnes)	109,571	0.48%	▲ 19 Aug 16
Tin ingot (tonnes)	2,374	-12.98%	▼ 19 Aug 16
Zinc (tonnes)	194,144	-1.6%	▼ 19 Aug 16
Steel Rebar (tonnes)	22,080	-1.3%	▼ 19 Aug 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	1,648-1,648.5	0.87%	▲ 19 Aug 16
Cash unofficial	1,682-1,684	2.47%	▲ 18 Aug 16
3 months official	1,662-1,662.5	1.09%	▲ 19 Aug 16
3 months unofficial	1,693-1,695	2.42%	▲ 18 Aug 16
LME Tapo notional average price (NAP)	1,644.54	0.74%	▲ 18 Aug 16
LME stocks (tonnes)	2,245,050	0.57%	▲ 18 Aug 16
Aluminium alloy (A380.1/DIN/D12S) \$			
LME cash official	1,580-1,590	2.26%	▲ 19 Aug 16
LME cash unofficial	1,553-1,563	0.45%	▲ 18 Aug 16
LME 3 months official	1,595-1,605	1.91%	▲ 19 Aug 16
LME 3 months unofficial	1,570-1,580	0.32%	▲ 18 Aug 16
LME stocks (tonnes)	11,780	3.15%	▲ 18 Aug 16

Price Change Assessed

N. American special aluminium alloy

LME cash official	1,715-1,715.5	0.01%	▲ 19 Aug 16
LME cash unofficial	1,714.5-1,724.5	-0.17%	▼ 18 Aug 16
LME 3 months official	1,730-1,735	-0.14%	▼ 19 Aug 16
LME 3 months unofficial	1,730-1,740	0%	18 Aug 16
LME stocks (tonnes)	64,240	2.85%	▲ 18 Aug 16

Copper grade A \$

LME cash official	4,773.5-4,774	0.6%	▲ 19 Aug 16
LME cash unofficial	4,790.5-4,792.5	-1.01%	▼ 18 Aug 16
LME 3 months official	4,787-4,788	0.57%	▲ 19 Aug 16
LME 3 months unofficial	4,805-4,807	-0.82%	▼ 18 Aug 16
LME Tapo notional average price (NAP)	4,808.86	-0.45%	▼ 18 Aug 16
LME stocks (tonnes)	210,625	4.08%	▲ 18 Aug 16

Lead \$

LME cash official	1,883-1,884	4.02%	▲ 19 Aug 16
LME cash unofficial	1,891.5-1,893.5	3.9%	▲ 18 Aug 16
LME 3 months official	1,893-1,894	4.05%	▲ 19 Aug 16
LME 3 months unofficial	1,901-1,903	3.93%	▲ 18 Aug 16
LME stocks (tonnes)	187,025	-0.27%	▼ 18 Aug 16

Nickel \$

LME cash official	10,245-10,250	-1.84%	▼ 19 Aug 16
LME cash unofficial	10,276-10,301	-4.11%	▼ 18 Aug 16
LME 3 months official	10,285-10,300	-1.7%	▼ 19 Aug 16
LME 3 months unofficial	10,325-10,350	-4.06%	▼ 18 Aug 16
LME stocks (tonnes)	373,512	1.16%	▲ 18 Aug 16

Tin \$

LME cash official	18,470-18,475	1.64%	▲ 19 Aug 16
LME cash unofficial	18,339-18,389	0.19%	▲ 18 Aug 16
LME 3 months official	18,420-18,425	1.36%	▲ 19 Aug 16
LME 3 months unofficial	18,325-18,375	0%	18 Aug 16
LME stocks (tonnes)	4,725	-6.71%	▼ 18 Aug 16

Zinc special high grade \$

LME cash official	2,286.5-2,287	2.2%	▲ 19 Aug 16
LME cash unofficial	2,296.5-2,298.5	0.88%	▲ 18 Aug 16
LME 3 months official	2,286-2,288	2.05%	▲ 19 Aug 16
LME 3 months unofficial	2,300-2,302	0.97%	▲ 18 Aug 16
LME stocks (tonnes)	455,875	-0.52%	▼ 18 Aug 16

Cobalt min 99.3%

LME cash official	26,250-26,750	0.47%	▲ 19 Aug 16
LME 3 months official	26,250-26,750	0.95%	▲ 19 Aug 16
LME stocks (tonnes)	635	0%	18 Aug 16

Molybdenum \$

LME cash official	15,500-16,000	0%	19 Aug 16
LME 3 months official	15,500-16,000	0%	19 Aug 16
LME stocks (tonnes)	42	0%	18 Aug 16

Steel billet

LME cash official	300-325	0%	19 Aug 16
LME cash unofficial	300-325	0%	18 Aug 16
LME 3 months official	300-325	0%	19 Aug 16
LME 3 months unofficial	300-325	0%	18 Aug 16
LME stocks (tonnes)	0	0%	18 Aug 16

[†] week-on-week change

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Gold \$/troy oz	Price	Change	Assessed
London morning	1,346.85	0.76% ▲	19 Aug 16
London afternoon	1,350.05	-0.37% ▼	18 Aug 16
Handy/Harman	1,350.05	-0.37% ▼	18 Aug 16
Silver per troy oz			
London spot pence	1,479.69	-3.48% ▼	19 Aug 16
London spot cents	1,941.5	-2.29% ▼	19 Aug 16
Handy/Harman	1,976	-1.79% ▼	18 Aug 16
Palladium \$/troy oz			
London morning	697	-3.06% ▼	18 Aug 16
London afternoon	701	-1.13% ▼	18 Aug 16
Platinum \$/troy oz			
London morning	1,124	-4.34% ▼	18 Aug 16
London afternoon	1,122	-3.69% ▼	18 Aug 16
Kuala Lumpur tin market			
Tin \$/tonne	18,430	0.16% ▲	19 Aug 16

RAND FIXING PRICES

Rand fixing prices per tonne for London Metal Exchange trade

	Price	Change [†]	Assessed
Copper	64,040.82	0.67% ▲	19 Aug 16
Aluminium	22,113.80	0.9% ▲	19 Aug 16
Lead	25,272.92	4.11% ▲	19 Aug 16
Zinc	30,678.96	2.27% ▲	19 Aug 16
Nickel	137,498.63	-1.79% ▼	19 Aug 16
Tin	247,832.89	1.59% ▲	19 Aug 16

EXCHANGE RATES

	Price	Change [†]	Assessed
LME settlement conversion rates			
\$/£	1.3109	1.17% ▲	19 Aug 16
\$/¥	100.2200	-1.77% ▼	19 Aug 16
\$/€	1.1319	1.52% ▲	19 Aug 16
Closing rates, midpoint			
\$/£	1.3164	1.53% ▲	18 Aug 16
\$/¥	100.1650	-1.14% ▼	18 Aug 16
\$/€	1.1328	1.33% ▲	18 Aug 16
£/€	1.1621	0.19% ▲	18 Aug 16
\$/CNY	6.6322	-0.14% ▼	18 Aug 16

BASE METALS ARBITRAGE

	Price	Change [†]	Assessed
Aluminium			
Import arbitrage, \$/tonne	-172.66*	0.33% ▲	19 Aug 16
Import arbitrage, RMB/tonne	-1,149.00*	0.29% ▲	19 Aug 16
Copper			
Import arbitrage, \$/tonne	-106.18*	0.99% ▲	19 Aug 16
Import arbitrage, RMB/tonne	-706.60*	0.96% ▲	19 Aug 16
Nickel			
Import arbitrage, \$/tonne	-615.15*	-30.05% ▼	19 Aug 16
Import arbitrage, RMB/tonne	-4,093.64*	-30.08% ▼	19 Aug 16
Zinc			
Import arbitrage, \$/tonne	-228.14*	-0.57% ▼	19 Aug 16
Import arbitrage, RMB/tonne	-1,518.21*	-0.6% ▼	19 Aug 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	35.0-45.0*	0%	17 Aug 16
Rotterdam, copper average premium, Grade A, cathode, in-warehouse \$/tonne	40.00*	0%	17 Aug 16
Leghorn, copper low-high premium, Grade A, cathode, cif, \$/tonne	60.0-70.0*	0%	15 Aug 16
Leghorn, copper average premium, Grade A, cathode, cif, \$/tonne	65.00*	0%	15 Aug 16
South Korea, copper low-high premium, Grade A, cathode, cif, \$/tonne	50.0-70.0*	9.09% ▲	18 Aug 16
South Korea, copper average premium, Grade A, cathode, cif, \$/tonne	58.00*	5.45% ▲	18 Aug 16
Singapore, copper low-high premium, Grade A, cathode, in warehouse, \$/tonne	5.0-10.0*	0%	18 Aug 16
Singapore, copper average premium, Grade A, cathode, in warehouse, \$/tonne	6.00*	0%	18 Aug 16
Shanghai, copper low-high premium, Grade A, cathode, in-warehouse, \$/tonne	38.0-50.0*	-7.37% ▼	19 Aug 16
Shanghai, copper average premium, Grade A, cathode, in-warehouse \$/tonne	46.00*	0%	19 Aug 16
Shanghai, copper low-high premium, Grade A, cathode, cif \$/tonne	38.0-50.0*	-7.37% ▼	19 Aug 16
Shanghai, copper average premium, Grade A, cathode, cif \$/tonne	45.00*	0%	19 Aug 16
Johor, copper low-high premium, Grade A, cathode, in-warehouse, \$/tonne	5.0-10.0*	0%	18 Aug 16
Johor, copper average premium, Grade A, cathode, in-warehouse \$/tonne	6.00*	-14.29% ▼	18 Aug 16
MB free market US: High-grade cathode premium indicator, \$/tonne	121.3-132.3*	-8% ▼	11 Aug 16
Aluminium			
Aluminium P1020A, in-warehouse Rotterdam duty unpaid, spot low-high, \$/tonne	65.0-75.0*	3.7% ▲	19 Aug 16
Aluminium P1020A, in-whs Rotterdam duty unpaid, spot weighted average, \$/tonne	70.00*	7.69% ▲	19 Aug 16
Aluminium P1020A, cif Korea (Gwangyang or Busan), spot low-high, \$/tonne	55.00-75.00*	-7.14% ▼	16 Aug 16
Aluminium P1020A, cif Korea (Gwangyang or Busan), spot weighted average, \$/tonne	65.00*	-7.14% ▼	16 Aug 16
Aluminium P1020A, in-warehouse Singapore, spot low-high, \$/tonne	30.0-42.0*	20% ▲	16 Aug 16
Aluminium P1020A, in-warehouse Singapore, spot weighted average, \$/tonne	37.00*	23.33% ▲	16 Aug 16
Aluminium P1020A, in-warehouse Johor, spot low-high, \$/tonne	30.0-42.0*	20% ▲	16 Aug 16
Aluminium P1020A, in-warehouse Johor, spot weighted average, \$/tonne	37.00*	23.33% ▲	16 Aug 16
Aluminium P1020A, cif Shanghai, spot low-high, \$/tonne	75.0-90.0*	-10.81% ▼	16 Aug 16
Aluminium P1020A, cif Shanghai, spot weighted average, \$/tonne	87.00*	-3.33% ▼	16 Aug 16
Aluminium P1020A, cif main Japanese ports, spot low-high, \$/tonne	70.0-85.0*	-3.12% ▼	16 Aug 16
Aluminium P1020A, cif main Japanese ports, spot weighted average, \$/tonne	75.00*	-6.25% ▼	16 Aug 16
Aluminium ingot ADC 12 spot, main Japanese ports, \$/tonne	1,680*	0%	16 Aug 16
Aluminium P1020A, in-warehouse Rotterdam duty-paid, spot \$/tonne	110.0-130.0*	2.13% ▲	19 Aug 16
Aluminium P1020A, in-warehouse Rotterdam duty-paid, for delivery three months forward, \$/tonne	110.0-130.0*	2.13% ▲	19 Aug 16

† week-on-week change

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	Price	Change	Assessed
Aluminium P1020A, cif main Japanese ports, quarterly, \$/tonne	90.0–93.0*	-21.12% ▼	05 Jul 16
Aluminium 6063 extrusion billet, in-whs Rotterdam duty–paid, spot \$/tonne	280.0–330.0*	0%	19 Aug 16
Aluminium P1020A, delivered US midwest, spot, \$/lb	0.058–0.060*	-4.08% ▼	17 Aug 16
Aluminium P1020A, delivered Sao Paulo region, spot, \$/tonne	180.0–210.0*	9.86% ▲	18 Aug 16
Aluminium P1020A, cif Brazilian main ports duty–unpaid, spot, \$/tonne	110.0–130.0*	-7.69% ▼	18 Aug 16
Aluminium 6063 + 6060 extrusion billet, cif Brazilian main ports, spot (premium over LME cash), \$/tonne	240.0–280.0*	0%	18 Aug 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%	16 Aug 16
Rotterdam, lead average premium, 99.97% purity, in warehouse, \$/tonne	20.00*	0%	16 Aug 16
Johor, lead low–high premium, 99.97% purity, in warehouse, \$/tonne	10.0–20.0*	0%	18 Aug 16
Johor, lead average premium, 99.97% purity, in warehouse, \$/tonne	15.00*	0%	18 Aug 16
MB Battery grade free market premium in warehouse €/tonne	90.0–120.0*	0%	16 Aug 16
USA lead premium 99.97%, delivered domestic, \$/lb	0.10–0.14*	0%	10 Aug 16
Nickel			
Shanghai, nickel low–high premium, 99.8% purity in warehouse \$/tonne	50.0–140.0*	-5% ▼	18 Aug 16
Shanghai, nickel average premium, 99.8% purity in warehouse \$/tonne	93.00*	-2.11% ▼	18 Aug 16
Shanghai, nickel low–high premium, 99.8% purity, full plate, cif \$/tonne	80.0–140.0*	10% ▲	18 Aug 16
Shanghai, nickel premium, 99.8% purity full plate, cif \$/tonne	85.00*	-5.56% ▼	18 Aug 16
Malaysia nickel 99.80% briquettes premium in–warehouse, \$/tonne	5–10*	0%	16 Aug 16
Singapore nickel 99.80% briquettes premium in–warehouse, \$/tonne	5–10*	0%	16 Aug 16
Malaysia nickel 99.80% full plate premium in–warehouse, \$/tonne	15–60*	-21.05% ▼	16 Aug 16
Singapore nickel 99.80% full plate premium in–warehouse, \$/tonne	15–60*	-21.05% ▼	16 Aug 16
uncut cathodes premium indicator	60.0–110.0*	0%	16 Aug 16
4x4 cathodes premium indicator	150.0–250.0*	0%	16 Aug 16
briquettes premium indicator	125.0–200.0*	0%	16 Aug 16
US: melting premium indicator \$/lb	0.180–0.230*	0%	10 Aug 16
Tin			
MB European free market			
Spot premium 99.9% \$/tonne	400–525*	0%	19 Aug 16
Spot premium 99.85% \$/tonne	325–350*	0%	19 Aug 16
United States New York spot, cents/lb	861–862	0.12% ▲	18 Aug 16
Zinc			
Rotterdam, zinc low–high premium, 99.995% purity, in warehouse, \$/tonne	90.0–100.0*	0%	17 Aug 16
Rotterdam, zinc average premium, 99.995% purity, in warehouse, \$/tonne	95.00*	0%	17 Aug 16
MB EU: Special high grade, fca Rotterdam, \$/tonne	125.0–145.0*	0%	17 Aug 16
South Korea, zinc low–high premium, 99.995% purity, in warehouse, \$/tonne	90.0–100.0*	0%	18 Aug 16
South Korea, zinc average premium, 99.995% purity, in warehouse, \$/tonne	100.00*	0%	18 Aug 16
Johor, zinc low–high premium, 99.995% purity, in warehouse, \$/tonne	60.0–80.0*	-3.45% ▼	18 Aug 16

	Price	Change	Assessed
Johor, zinc average premium, 99.995% purity, in warehouse, \$/tonne	68.00*	-2.86% ▼	18 Aug 16
Singapore, zinc low–high premium, 99.995% purity, in warehouse, \$/tonne	60.0–80.0*	-3.45% ▼	18 Aug 16
Singapore, zinc average premium, 99.995% purity, in warehouse, \$/tonne	68.00*	-2.86% ▼	18 Aug 16
Shanghai, zinc low–high premium, 99.995% purity, in warehouse, \$/tonne	100.0–110.0*	5% ▲	18 Aug 16
Shanghai, zinc average premium, 99.995% purity, in warehouse, \$/tonne	104.00*	0.97% ▲	18 Aug 16
MB US: Special high grade, \$/lb	0.060–0.070*	0%	18 Aug 16

BASE METALS

	Price	Change [†]	Assessed
Alumina			
MB Chinese free market, metallurgical grade, delivered, duty paid RMB/tonne	1,850.0–1,900.0*	8.7% ▲	19 Aug 16
Alumina Index fob Australia	228.04*	-0.91% ▼	19 Aug 16
Alumina Index fob Brazil	-6.04*		19 Aug 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):	4,440.3–4,468.9	0.76% ▲	10 Aug 16
cathodes:	4,390.0–4,470.0	0.68% ▲	10 Aug 16
South Africa: Palabora copper rod 7.90mm, Rand/tonne	79,815.280	0.5% ▲	01 Aug 16
Copper concentrate Asia–Pacific Index RC import, US cents/lb (twice monthly on 15th and last day of month)	10.17–10.17*	-1.17% ▼	15 Aug 16
Copper concentrate Asia–Pacific Index TC import, \$/dmt (twice monthly on 15th and last day of month)	101.70–101.70*	-1.17% ▼	15 Aug 16
Shanghai bonded copper stocks, tonnes	570,000–570,000*	-1.72% ▼	15 Aug 16
Nickel			
Nickel pig iron high grade NPI content 10–15% contract price delivered duty paid China RMB per nickel unit price	830.00–870.00*	1.19% ▲	16 Aug 16
Nickel pig iron high grade NPI content 10–15% spot price China RMB per nickel unit price	850.00–870.00*	3.61% ▲	16 Aug 16
Nickel ore			
Laterite ore with 1.5% nickel content cif China, \$/tonne	34–36*	0%	16 Aug 16
Nickel ore 1.8% basis cif China 15–20% Fe water content: 30–35% Si:Mg 2 Lot size 50,000 tonnes, \$/tonne	40–42*	0%	16 Aug 16
Lead			
Germany: (VDM) virgin soft, €/tonne	1,840.00–1,850.00	1.65% ▲	10 Aug 16
European automotive battery premium free market (Eurobat)			
in warehouse Rotterdam €/tonne			
Soft lead (average)	155.16*	-0.17% ▼	01 Jun 16
Ca/Ca grid grid lead (average)	389.68*	-0.83% ▼	01 Jun 16
Connector lead (average)	499.34*	-2.51% ▼	01 Jun 16
European industrial battery premium free market (Eurobat)			
in warehouse Rotterdam €/tonne			
Stand–by refined or soft lead (average)	236.53*	-1.51% ▼	01 Jun 16
Traction refined or soft lead (average)	236.97	-1.63% ▼	01 Jun 16
<i>For an explanation of these premiums, see http://www.eurobat.org/statistics</i>			
Zinc			
Germany: (VDM) virgin, €/tonne	1,580.00–1,600.00	-4.22% ▼	09 Dec 15
UK: Special high grade, delivered monthly average price £/tonne	1,875*	15.96% ▲	01 Aug 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	550–650*	1.69% ▲	19 Aug 16
Johnson Matthey base price: (unfab) \$/troy oz (08.00 hrs)	595	1.71% ▲	19 Aug 16
Englehard base price: \$/troy oz	600	4.35% ▲	19 Aug 16
Palladium			
European free market: min 99.9%, \$/troy oz in warehouse	701–715*	1.22% ▲	19 Aug 16
Englehard base price: \$/troy oz	711	2.16% ▲	19 Aug 16
Johnson Matthey base price: (unfab) \$/troy oz (08.00 hrs)	709	1.87% ▲	19 Aug 16
Platinum			
European free market: min 99.9%, \$/troy oz in warehouse	1,117–1,131*	–2.56% ▼	19 Aug 16
Englehard base price: \$/troy oz	1,125	–2% ▼	19 Aug 16
Johnson Matthey base price: (unfab) \$/troy oz (08.00 hrs)	1,122	–2.35% ▼	19 Aug 16
Rhodium			
European free market: min 99.9%, \$/troy oz in warehouse	600–700*	5.69% ▲	19 Aug 16
Englehard base price: \$/troy oz	650	3.17% ▲	19 Aug 16
Johnson Matthey base price: (unfab) \$/troy oz (08.00 hrs)	645	1.57% ▲	19 Aug 16
Ruthenium			
European free market: min 99.9%, \$/troy oz in warehouse	37–47*	0%	19 Aug 16
Englehard base price: \$/troy oz	42	0%	19 Aug 16
Johnson Matthey base price: (unfab) \$/troy oz (08.00 hrs)	42	0%	19 Aug 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	7,000–7,300*	0%	19 Aug 16
MMTA Standard Grade II, \$/tonne in warehouse Rotterdam	7,000–7,300*	0%	19 Aug 16
MB Chinese free market MMTA Standard Grade II, delivered duty paid RMB/tonne	44,000–45,000*	4.71% ▲	17 Aug 16
Arsenic			
MB free market \$/lb	1.00–1.35*	0%	19 Aug 16
Bismuth			
MB free market \$/lb	4.20–4.60*	1.73% ▲	19 Aug 16
MB China domestic, min 99.99%, RMB/tonne	64,000–65,000*	4.03% ▲	19 Aug 16
Cadmium			
MB free market min 99.95% cents/lb	50.00–54.00*	0%	19 Aug 16
MB free market min 99.99% cents/lb	51.00–57.00*	0%	19 Aug 16
Chromium			
MB free market aluminio-thermic min 99% \$/tonne	6,900–7,400*	–2.05% ▼	19 Aug 16
Cobalt			
MB free market high-grade \$/lb	12.40–12.90*	0%	19 Aug 16
MB free market low-grade \$/lb	11.95–12.55*	0%	19 Aug 16
MB high-grade, weighted average of all confirmed international trades, \$/lb	12.66*	–1.02% ▼	19 Aug 16
MB low-grade, weighted average of all confirmed international trades, \$/lb	12.19*	0.58% ▲	19 Aug 16
MB China domestic, min 99.8% RMB/tonne	208,000–219,000*	0.95% ▲	19 Aug 16
Cobalt tetroxide min 72.6% Co delivered China RMB/tonne	140,000–145,000*	2.52% ▲	19 Aug 16

	Price	Change	Assessed
Gallium			
MB free market \$/kg	110–130*	–7.69% ▼	19 Aug 16
MB China domestic, min 99.99%, RMB/kg	715–750*	0%	17 Aug 16
Germanium			
Germanium dioxide MB free market \$/kg	660–760*	–11.25% ▼	19 Aug 16
Germanium metal \$/kg Rotterdam	950–1,150*	–12.5% ▼	19 Aug 16
Germanium metal MB China domestic, min 99.999%, RMB/kg	5,800–6,300*	–1.63% ▼	17 Aug 16
Hafnium			
Hafnium 1% Zr max, in warehouse global locations, \$/kg	1,000–1,100*	0%	19 Aug 16
Indium			
MB free market \$/kg	200–245*	–8.25% ▼	19 Aug 16
MB China domestic, min 99.99% RMB/kg	1,200–1,250*	–1.21% ▼	17 Aug 16
Indium Corp ingots min 99.97% \$/kg fob	440.00	–40.94% ▼	26 Jun 15
Magnesium			
European free market \$ per tonne	2,075–2,170*	0%	19 Aug 16
China free market min 99.8% Mg, fob China main ports, \$ per tonne	2,200–2,230*	0.23% ▲	17 Aug 16
MB Chinese free market min 99% Mg, ex-works RMB/tonne	14,000–14,300*	0.35% ▲	17 Aug 16
Manganese flake			
MB free market \$/tonne	1,700–1,770*	2.06% ▲	19 Aug 16
Mercury			
MB free market \$ per flask	960–1,260*	0%	19 Aug 16
Rhenium in warehouse Rotterdam duty paid			
Metal pellets, min 99.9% \$/lb	795–900*	–0.29% ▼	19 Aug 16
APR catalytic grade \$/kg Re	2,300–2,575*	–0.31% ▼	19 Aug 16
Selenium			
MB free market \$/lb	10.50–12.50*	–2.13% ▼	19 Aug 16
MB China domestic, min 99.9%, RMB/kg	140–180*	–5.88% ▼	19 Aug 16
Selenium dioxide, MB China domestic, min 98%, RMB/kg	85–90*	12.9% ▲	19 Aug 16
Silicon			
MB free market €/tonne	1,600–1,700*	0%	19 Aug 16
US free market cents/lb	88–92*	0%	11 Aug 16
Export from mainland China min 98.5%, \$/tonne fob	1,420–1,450*	–0.35% ▼	17 Aug 16
Tellurium			
MB free market \$/kg	25.00–35.00*	0%	19 Aug 16
MB China domestic, min 99.99%, RMB/kg	240–255*	3.12% ▲	19 Aug 16
Titanium			
MB free market ferro-titanium 70% (max 4.5% Al) \$/kg Ti d/d Europe	3.40–3.60*	0%	19 Aug 16
Titanium ores \$/tonne			
Rutile conc min 95% Tio2 bagged, fob/Aus	620–650	0%	18 Aug 16
Rutile bulk conc min 95% Tio2 fob/Aus	650–700	0%	18 Aug 16
Ilmenite bulk conc min 54% Tio2 fob/Aus	100–110	0%	18 Aug 16

† week-on-week change

continued >>

NOBLE ALLOYS & ORES			
	Price	Change†	Assessed
Lithium ores			
Petalite 4.2% Li ₂ O bagged fob Durban \$/tonne	170–265	0%	18 Aug 16
Spodumene 7.25% Li ₂ O cif Europe \$/tonne	740–790	0%	18 Aug 16
Molybdenum molybdc oxide			
Europe drummed molybdc oxide \$/lb Mo	7.40–7.60*	1.01% ▲	19 Aug 16
US canned molybdc oxide \$/lb Mo	7.20–7.40*	2.1% ▲	18 Aug 16
Ferro-molybdenum			
basis 65% min, in-warehouse Rotterdam \$/kg Mo	17.80–18.35*	0.42% ▲	19 Aug 16
US free market 65–70% Mo \$/lb in warehouse Pittsburgh	8.50–8.75*	3.92% ▲	18 Aug 16
MB Chinese free market concentrate 45% Mo in warehouse China RMB/mtu	920–950*	1.08% ▲	17 Aug 16
Tungsten			
European free market APT \$/mtu	185–200*	0%	19 Aug 16
Export from mainland China APT Chinese No1 grade, min 88.5% W03, \$/mtu fob	190–200*	0%	17 Aug 16
MB Chinese free market concentrate 65% W03 in warehouse China RMB/tonne	70,000–72,000*	–3.4% ▼	17 Aug 16
Ferro-tungsten			
Basis 75% W min \$/kg W in warehouse Rotterdam duty unpaid	25.50–26.50*	0%	19 Aug 16
China export min 75% \$/kg W, fob China	26.00–26.30*	–0.57% ▼	17 Aug 16
Vanadium			
Ferro-vanadium basis 78% min, free delivery duty paid consumer plant, 1st grade, Western Europe \$/kg V	19.00–19.90*	0%	19 Aug 16
US free market ferro-vanadium \$/lb in warehouse Pittsburgh	9.80–10.30*	1.01% ▲	18 Aug 16
Vandium pentoxide min 98%, in-warehouse Rotterdam \$ per lb V205	3.50–3.80*	8.96% ▲	19 Aug 16
Zircon			
Foundry grade bulk \$/tonne fob Australia	950–1,000	0%	18 Aug 16
Premium bulk \$/tonne fob Australia	1,000–1,050	0%	18 Aug 16
BULK ALLOYS			
	Price	Change†	Assessed
Ferro-chrome \$/lb Cr			
China import charge chrome 50% Cr index, cif Shanghai, duty unpaid	0.76*	0%	19 Aug 16
Lumpy Cr charge basis 52% Cr (and high carbon) quarterly	0.98*	19.51% ▲	22 Jun 16
6–8% C basis 60% Cr max 1.5% Si	0.79–0.83*	0%	19 Aug 16
0.10% C average 60–70% Cr	1.87–1.90*	0%	12 Aug 16
European low carbon in warehouse 0.06% C max – 65% Cr	1.90–1.98*	0%	12 Aug 16
Low phosphorous Cr min 65% C max 7% Si max 1% p max 0.015% Ti max 0.05%	0.85–0.90*	0%	12 Aug 16
Japan import 8–9% C, basis 60% Cr, cif Japan, duty unpaid \$/lb contained chrome	0.72–0.75*	0%	18 Aug 16
US free market in warehouse Pittsburgh 6–8% C basis 60–65% Cr max 2% Si	0.860–0.900*	0%	18 Aug 16
US free market low carbon duty paid fob Pittsburgh			
0.05% C – 65% min Cr	2.10–2.15*	0%	18 Aug 16
0.10% C – 62% min Cr	1.79–1.84*	0%	18 Aug 16
0.15% C – 60% min Cr	1.76–1.78*	0%	18 Aug 16
Spot 6–8% C basis 50% Cr delivered duty paid China RMB/tonne	5,770–5,890*	0%	19 Aug 16
Contract 6–8% C basis 50% Cr delivered duty paid China RMB/tonne	5,900–6,130*	0%	19 Aug 16

	Price	Change	Assessed
Chrome ore \$/tonne			
<i>Chrome ore cif main Chinese ports</i>			
South African UG2 chrome ore concs, basis 42%	160–165*	1.25% ▲	19 Aug 16
Turkish lumpy 40–42% cfr main Chinese ports	220–225*	0%	19 Aug 16
Ferro-manganese			
basis 78% Mn (scale pro rata) standard 7.5% C €/tonne	660–690*	0%	19 Aug 16
US free market 78% Mn standard 7.5% C \$/long ton in warehouse Pittsburgh	820–850*	0%	18 Aug 16
US free market medium carbon duty paid fob Pittsburgh, 80% min Mn 1.5% max C \$/lb	0.76–0.79*	0%	18 Aug 16
MB Chinese free market min 65% Mn max 7.0% C in warehouse China RMB/tonne	5,300–5,500*	–5.26% ▼	19 Aug 16
Manganese ore			
44% Mn, cif Tianjin \$/dmtu of metal contained	4.46*	22.53% ▲	19 Aug 16
37% Mn, fob Port Elizabeth \$/dmtu of metal contained	3.53*	4.13% ▲	19 Aug 16
Ferro-silicon			
Lumpy basis 75% Si (scale pro rata) €/tonne	900–950*	0%	19 Aug 16
US free market \$/lb in warehouse Pittsburgh lumpy basis 75% Si – imported	0.68–0.73*	0%	18 Aug 16
Export from mainland China, min 75% Si, 7.5% C, \$/tonne, fob	1,020–1,050*	–0.96% ▼	19 Aug 16
MB Chinese free market min 75% in warehouse China RMB/tonne	4,500–4,800*	0%	19 Aug 16
Silico-manganese			
Lumpy basis 65–75% Mn basis 15–19% Si (scale pro rata) €/tonne	700–730*	0%	19 Aug 16
US free market \$/lb in warehouse Pittsburgh	0.41–0.42*	0%	18 Aug 16
MB Chinese free market min 65% Mn max 17% Si in warehouse China RMB/tonne	6,100–6,400*	–9.42% ▼	19 Aug 16
65% min Mn 16% min Si \$/tonne fob India	760–795*	1.63% ▲	16 Aug 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%	17 Aug 16
Wire rod (mesh quality)	400–450*	0%	17 Aug 16
Plate (8–40mm)	420–440*	0%	17 Aug 16
Hot rolled coil	390–420*	0%	17 Aug 16
Cold rolled coil	490–500*	0%	17 Aug 16
Hot-dip galvanized coil	470–480*	–1.04% ▼	17 Aug 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	390–395*	0%	17 Aug 16
Wire rod (mesh quality)	380–395*	0%	17 Aug 16
Plate (8–40mm)	400–410*	0%	17 Aug 16
Hot rolled coil	390–400*	0%	17 Aug 16
Cold rolled coil	475–490*	0%	17 Aug 16
Hot-dip galvanized coil	445–460*	0%	17 Aug 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	365–370*	0%	17 Aug 16
Wire rod (mesh quality)	380–405*	–3.68% ▼	17 Aug 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	440–460*	0%	17 Aug 16
Wire rod (mesh quality)	450–480*	0%	17 Aug 16
Sections (medium)	510–530*	0%	17 Aug 16
Beams	525–535*	0%	17 Aug 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	380–385*	0%	17 Aug 16
Wire rod (mesh quality)	390–400*	0%	17 Aug 16
Sections (medium)	505–520*	0%	17 Aug 16
Beams	530–540*	0%	17 Aug 16
Central Europe domestic € per tonne ex-works			
Hot rolled coil	390–400*	0%	17 Aug 16
Poland domestic zloty per tonne ex-works			
Rebar	1,650–1,680*	0%	19 Aug 16
Northern Europe € per tonne ex-works			
Plate (8–40mm)	480–510*	0%	17 Aug 16
Hot rolled coil	415–440*	0.59% ▲	17 Aug 16
Cold rolled coil	510–540*	1.94% ▲	17 Aug 16
Hot-dip galvanized coil	510–540*	0%	17 Aug 16
Beams	510–520*	0%	17 Aug 16
Hollow sections	495–515*	0%	17 Aug 16
Southern Europe € per tonne ex-works			
Plate (8–40mm)	420–430*	0%	17 Aug 16
Hot rolled coil	390–410*	0%	17 Aug 16
Cold rolled coil	500–520*	0%	17 Aug 16
Hot-dip galvanized coil	500–520*	0%	17 Aug 16
Beams	515–525*	0%	17 Aug 16
Hollow sections	490–505*	0%	17 Aug 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	385–390*	0%	17 Aug 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	317–320*	–0.47% ▼	15 Aug 16
Slab	310–325*	0.79% ▲	15 Aug 16
Rebar	355–365*	2.13% ▲	15 Aug 16
Wire rod (mesh)	355–370*	2.84% ▲	15 Aug 16
Heavy plate (10–50mm)	350–390*	0%	15 Aug 16
Hot rolled coil	360–375*	0.68% ▲	15 Aug 16
Cold rolled coil	410–411*	1.36% ▲	15 Aug 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	28,000–30,500*	–1.68% ▼	15 Aug 16
Hot rolled sheet	35,400–36,000*	–0.9% ▼	15 Aug 16
Cold rolled sheet	39,000–41,000*	–2.5% ▼	15 Aug 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	350–355*	–0.7% ▼	18 Aug 16
Rebar	370–380*	–1.96% ▼	18 Aug 16
Wire rod (mesh quality)	390–400*	0%	18 Aug 16
Merchant bars	440–445*	0%	18 Aug 16
Structural pipe	450–470*	–1.08% ▼	10 Aug 16
Hot rolled coil	380–390*	0%	19 Aug 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	345–350*	0%	18 Aug 16
Rebar	385–405*	0.64% ▲	18 Aug 16
Wire rod (mesh quality)	420–430*	0%	18 Aug 16
Hot rolled coil	410–420*	0%	19 Aug 16
Cold rolled coil	520–530*	1.94% ▲	19 Aug 16
Hot dip galvanized	560–590*	–0.43% ▼	19 Aug 16
Prepainted galvanized	630–680*	0%	19 Aug 16
Turkish imports			
<i>Metal Bulletin's appraisal of prices for imported commercial-quality carbon steel, \$ per tonne cfr main Turkish port</i>			
Billet	330–340*	0%	18 Aug 16
Hot rolled coil	380–390*	1.32% ▲	19 Aug 16
Cold rolled coil	420–430*	–1.28% ▼	19 Aug 16
UAE imports			
<i>Metal Bulletin's appraisal of prices for imported commercial-quality carbon steel, \$ per tonne cfr Jebel Ali</i>			
Billet	325–335*	–3.65% ▼	16 Aug 16
Rebar	385–390*	–1.27% ▼	16 Aug 16
Hot rolled coil	400–420*	3.8% ▲	16 Aug 16
Cold rolled coil	500–510*	4.66% ▲	16 Aug 16
Hot dip galvanized coil	550–600*	2.68% ▲	16 Aug 16

[†] week-on-week change

	Price	Change	Assessed
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	1,725–1,750*	0%	16 Aug 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	13.00–13.60*	-0.37% ▼	17 Aug 16
Rebar (12–25mm)	15.50–16.00*	0.32% ▲	17 Aug 16
Plate	17.00–18.50*	0%	17 Aug 16
Hot rolled coil	18.00–19.50*	-0.27% ▼	17 Aug 16
Cold rolled coil	20.20–22.50*	-0.7% ▼	17 Aug 16
Hot-dip galvanized coil	23.50–25.20*	-0.2% ▼	17 Aug 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	340–350*	0%	17 Aug 16
Rebar	390–400*	0%	17 Aug 16
Cold rolled coil	400–420*	-1.2% ▼	17 Aug 16
Hot rolled coil	380–390*	-1.91% ▼	17 Aug 16
Plate	370–400*	0%	17 Aug 16
Hot dip galvanized coil	470–480*	-0.52% ▼	17 Aug 16
Prepainted galvanized	570–580*	0.88% ▲	17 Aug 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	5,860–6,000*	0%	18 Aug 16
Egyptian import			
<i>Metal Bulletin's appraisal of prices for imported commercial-quality carbon steel, \$ per tonne cfr main port</i>			
Billet	338–340*	1.5% ▲	18 Aug 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	310–330*	-6.57% ▼	19 Aug 16
Slab	305–325*	1.61% ▲	19 Aug 16
Rebar	360–380*	-12.43% ▼	19 Aug 16
Wire rod mesh quality	360–380*	-12.43% ▼	19 Aug 16
Heavy plate over 10mm	400–425*	0%	19 Aug 16
Hot rolled coil (dry)	380–395*	0%	19 Aug 16
Cold rolled coil	465–480*	0%	19 Aug 16
Galvanized coil	770–775*	0%	19 Aug 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	380–390*	0%	19 Aug 16
Hot rolled coil	410–430*	3.7% ▲	19 Aug 16
Cold rolled coil	435–460*	0%	19 Aug 16
Galvanized coil	520–550*	5.94% ▲	19 Aug 16

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	595–605*	0%	05 Aug 16
Cold rolled coil	715–725*	0%	05 Aug 16
Galvanized coil	985–1,070*	0%	05 Aug 16
Rebar	800–820*	0%	05 Aug 16

	Price	Change	Assessed
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	2,805–3,015*	0%	05 Aug 16
Cold rolled coil	3,110–3,210*	0%	05 Aug 16
Hot dip galvanized coil	3,510–3,655*	0%	05 Aug 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%	05 Aug 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%	05 Aug 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	363–367*	-1.75% ▼	17 Aug 16
Merchant bars	560–580*	0%	29 Jul 16
Wire rod (low carbon)	390–403*	-1.25% ▼	10 Aug 16
Medium sections	540–560*	0%	28 Jul 16
Medium plate	475–500*	-5.34% ▼	10 Aug 16
Hot rolled coil (commodity)	490–520*	-1.94% ▼	10 Aug 16
Cold rolled coil	580–610*	-4.8% ▼	10 Aug 16
Hot dipped galvanized 0.012–0.015, G30	660–730*	0%	10 Aug 16
Hot dipped galvanized 0.019, G60	665–720*	0%	10 Aug 16
ERW linepipe (X42)	600–600*	0%	26 Jul 16
OCTG API5CT – casing J/K55	650–650*	0%	26 Jul 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)	520–540*	0%	17 Aug 16
Wire rod (mesh quality fob mill)	500–520*	0%	10 Aug 16
Plate (fob mill)	590–590*	0%	12 Aug 16
Hot rolled sheet (fob mill)	590–590*	-1.67% ▼	18 Aug 16
Cold rolled sheet (fob mill)	800–800*	-1.84% ▼	18 Aug 16
Hot-dip galvanized (base) Midwest (fob mill)	800–800*	-2.44% ▼	18 Aug 16
ERW linepipe (X42) (fob mill)	810–810*	0%	26 Jul 16
OCTG API5CT – casing J/K55 (fob mill)	850–850*	0%	26 Jul 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)	32.10–32.10*	0%	29 Jul 16

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	345–350*	1.46% ▲	19 Aug 16
Wire rod (mesh quality)	360–365*	0.69% ▲	19 Aug 16
Heavy plate	360–370*	2.82% ▲	19 Aug 16
Hot rolled coil	385–395*	1.3% ▲	19 Aug 16
Cold rolled coil	405–410*	0%	19 Aug 16
Galvanized coil 1mm	520–530*	5% ▲	19 Aug 16

† week-on-week change

	Price	Change	Assessed
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	2,430–2,450*	0.83% ▲	19 Aug 16
Wire rod (mesh)	2,640–2,650*	0.57% ▲	19 Aug 16
Sections	2,820–2,860*	5.19% ▲	19 Aug 16
Plate	2,630–2,680*	1.34% ▲	19 Aug 16
Hot rolled coil (min 2mm)	2,780–2,800*	1.45% ▲	19 Aug 16
Cold rolled coil (0.5 – 2 mm)	3,350–3,750*	7.58% ▲	19 Aug 16
Hot-dip galvanized coil	3,800–3,850*	0.66% ▲	19 Aug 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	2,250–2,250*	-1.32% ▼	19 Aug 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	2,800–2,820*	3.69% ▲	19 Aug 16
Rebar	2,420–2,440*	1.25% ▲	19 Aug 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	2,610–2,640*	-1.5% ▼	19 Aug 16
Wire rod (mesh)	2,540–2,640*	-3.18% ▼	19 Aug 16
Sections	2,980–3,050*	4.87% ▲	19 Aug 16
Plate	2,750–2,770*	1.66% ▲	19 Aug 16
Hot rolled coil (min 2mm)	2,890–2,940*	6% ▲	19 Aug 16
Cold rolled coil (0.5 – 2 mm)	3,300–3,450*	1.81% ▲	19 Aug 16
Hot-dip galvanized coil	4,000–4,050*	5.92% ▲	19 Aug 16
South East Asia Imports			
<i>Metal Bulletin's appraisal of prices in South East Asia for commercial-quality carbon steel ex per tonne cfr</i>			
Billet	345–350*	2.21% ▲	15 Aug 16
Slab (Asia/East Asia)	345–350*	2.21% ▲	15 Aug 16
Hot rolled coil (Vietnam)	385–400*	1.29% ▲	15 Aug 16
Cold rolled coil	415–425*	0%	15 Aug 16
Hot dip galvanized coil	485–500*	7.07% ▲	15 Aug 16
Rebar (Singapore)	340–345*	1.48% ▲	15 Aug 16
Wire rod (low carbon)	360–370*	2.82% ▲	15 Aug 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	320–325*	3.2% ▲	19 Aug 16
Plate (12–40mm)	410–415*	0%	19 Aug 16
Hot rolled coil (commodity)	380–385*	0%	19 Aug 16
Hot-dip galvanized coil	730–740*	0%	19 Aug 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)	390–400*	0%	19 Aug 16
Hot rolled coil (commodity)	400–410*	0%	19 Aug 16
Hot rolled coil (CR grade)	400–410*	0%	19 Aug 16
Cold rolled	460–470*	0%	19 Aug 16
Indian domestic			
<i>Metal Bulletin's appraisal of prices within India for commercial-quality carbon steel, rupees per tonne ex-works</i>			
Billet	19,800–19,900*	1.53% ▲	19 Aug 16
Heavy plate	29,500–30,000*	0%	19 Aug 16
Hot rolled coil	30,500–31,000*	0%	19 Aug 16
Cold rolled coil	35,000–35,500*	0%	19 Aug 16
DRI	13,000–13,100*	3.16% ▲	19 Aug 16
Hot-dip galvanized coil	39,500–40,500*	0%	19 Aug 16
Rebar	22,300–22,400*	3.23% ▲	19 Aug 16

STEELBENCHMARKER™ PRICES			
	Price	Change*	Assessed
Region: USA east of the Mississippi			
Standard plate (\$/metric tonne)	699	-1.27% ▼	08 Aug 16
Standard plate (\$/short ton)	634	-1.25% ▼	08 Aug 16
Hot rolled coil (\$/metric tonne)	679	-1.16% ▼	08 Aug 16
Hot rolled coil (\$/short ton)	616	-1.28% ▼	08 Aug 16
Cold rolled coil (\$/metric tonne)	899	0%	08 Aug 16
Cold rolled coil (\$/short ton)	816	0.12% ▲	08 Aug 16
Region: Mainland China			
Rebar	309	4.75% ▲	08 Aug 16
Standard plate	330	4.43% ▲	08 Aug 16
Hot rolled coil	337	4.33% ▲	08 Aug 16
Cold rolled coil	403	3.6% ▲	08 Aug 16
Region: World export market			
Hot rolled coil (\$/metric tonne)	367	0.82% ▲	08 Aug 16
STAINLESS STEEL			
	Price	Change*	Assessed
Asia import			
\$/tonne cif East Asian port			
Grade 304 2mm CR coil 2B	1,850–1,900*	-1.06% ▼	19 Aug 16
Grade 304 HR sheet	1,780–1,830*	-1.1% ▼	19 Aug 16
China domestic			
yuan/tonne, in warehouse			
Grade 304 2mm CR coil	12,650–12,800*	-1.36% ▼	19 Aug 16
Grade 430 2mm CR coil	7,100–7,200*	-1.38% ▼	19 Aug 16
EU export			
€/tonne fob N. European port			
Min 100 tonne lot			
Grade 304 2mm CR sheet	2,015–2,103*	0.49% ▲	19 Aug 16
EU domestic			
2mm 304 cold rolled stainless sheet, €/tonne			
Base price	1,080–1,090*	0.93% ▲	19 Aug 16
Alloy surcharge	935–1,013*	0%	19 Aug 16
2mm 316 cold rolled stainless sheet, €/tonne			
Base price	1,380–1,390*	0.73% ▲	19 Aug 16
Alloy surcharge	1,355–1,450*	0%	19 Aug 16
304 stainless steel bright bar, €/tonne			
Base price	870–900*	1.14% ▲	19 Aug 16
Alloy surcharge	1,160–1,301*	0%	19 Aug 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	87–87*	3.57% ▲	04 Aug 16
Grade 316 coiled plate	119–119*	3.48% ▲	04 Aug 16
Grade 304 cold rolled sheet	103–103*	5.1% ▲	04 Aug 16
Grade 316L cold rolled sheet	137–137*	3.01% ▲	04 Aug 16

continued >>

CHINA IRON ORE			
<i>cfr main China port \$ per dry metric tonne</i>			
	Price	Change†	Assessed
Iron ore index (62% fe)	60.95*	0.96%	▲ 19 Aug 16
Iron ore pellet index cfr Qingdao (65% fe)	92.81*	-0.31%	▼ 19 Aug 16
Iron ore concentrate index cfr Qingdao (66% fe)	75.64*	1.65%	▲ 19 Aug 16

IRAN IRON ORE			
<i>cfr China US \$ per tonne</i>			
	Price	Change†	Assessed
Iron ore fines index (60% Fe)	56.90–56.90*	0.69%	▲ 17 Aug 16

COKING COAL			
<i>\$ per metric tonne</i>			
	Price	Change†	Assessed
Premium hard coking coal cfr China	122.67–122.67*	11.61%	▲ 19 Aug 16
Hard coking coal cfr China	114.12–114.12*	9.05%	▲ 19 Aug 16
Premium hard coking coal fob Australia	117.40–117.40*	9.9%	▲ 19 Aug 16
Hard coking coal fob Australia	110.71–110.71*	14.28%	▲ 19 Aug 16
China hard coking coal Shanxi spot market domestic delivered yuan/tonne	770–870*	0%	19 Aug 16
65% CSR coke \$/tonne FOB Tianjin	190–200*	11.75%	▲ 16 Aug 16

FERROUS SCRAP			
	Price	Change†	Assessed
UK ferrous scrap domestic			
<i>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 therefore be read in conjunction with editorial comment on the Ferrous scrap pages.</i>			
<i>£/tonne</i>			
Cut grades			
0A plate and structural	130–140*	3.85%	▲ 12 Aug 16
1&2 old steel	105–115*	4.76%	▲ 12 Aug 16
12A/C New production heavy and shovellable steel	130–140*	3.85%	▲ 12 Aug 16
12D New production heavy and shovellable steel	135–145*	3.7%	▲ 12 Aug 16
Bales and cuttings			
4A new steel bales	135–145*	3.7%	▲ 12 Aug 16
4C new steel bales	130–140*	3.85%	▲ 12 Aug 16
8A new loose light cuttings	125–135*	4%	▲ 12 Aug 16
8B new loose light cuttings	110–120*	4.55%	▲ 12 Aug 16
Turnings			
UK inter-merchant 7B heavy steel turnings	85–95*	5.88%	▲ 12 Aug 16
Cast iron			
9A/10 heavy and light cast iron	110–120*	4.55%	▲ 12 Aug 16
9B/C cylinder block scrap	130–140*	3.85%	▲ 12 Aug 16
11A cast iron borings	90–100*	5.56%	▲ 12 Aug 16
<i>Prices relate to new UK scrap specifications</i>			
<i>Please see MB.com for full explanation of price changes</i>			
UK intermerchant weekly price			
<i>£/tonne</i>			
5C loose old light	50–70*	0%	12 Aug 16
UK ferrous scrap export			
<i>MB assessment \$/tonne cfr main UK port</i>			
HMS 1&2 (80:20 mix)	209–211*	-3%	▼ 12 Aug 16
Shredded	214–216*	-2.93%	▼ 12 Aug 16
Indian imports			
<i>MB assessment \$/tonne cfr Nhava Sheva</i>			
MB index cfr India shredded	232.91*	2.14%	▲ 12 Aug 16
HMS 1&2 (80:20 mix)	195–210*	-1.22%	▼ 12 Aug 16

	Price	Change	Assessed
Alloy steel scrap domestic			
<i>UK wholesale merchants' stainless (£/tonne)</i>			
18/8 solids	760–800*	0.65%	▲ 19 Aug 16
18/8 turnings	645–680*	0.38%	▲ 19 Aug 16
12–13% Cr solids	75–95*	0%	19 Aug 16
16–17% Cr solids	105–135*	0%	19 Aug 16
Cif Europe stainless € per tonne			
18/8 solids	970–980*	0%	19 Aug 16
18/8 turnings	870–890*	2.03%	▲ 19 Aug 16
Rotterdam export			
<i>MB assessment \$/tonne fob Rotterdam</i>			
MB index fob Rotterdam HMS 1&2 (80:20)	206.03*	-1.59%	▼ 12 Aug 16
HMS 1&2 (70:30 mix)	198–200*	-4.33%	▼ 12 Aug 16
Shredded	218–220*	-0.23%	▼ 12 Aug 16
Turkish import			
<i>MB assessment \$/tonne cfr main Turkish ports</i>			
MB index cfr Turkey HMS 1&2 (80:20) (North Europe material)	213.17*	-1.91%	▼ 18 Aug 16
MB index cfr Turkey HMS 1&2 (80:20) (United States material)	221.61*	-1.18%	▼ 18 Aug 16
HMS 1&2 (70:25 mix)	211–213*	-4.07%	▼ 12 Aug 16
Shredded	231–233*	-0.22%	▼ 12 Aug 16
Turkish domestic			
<i>MB assessment delivered</i>			
Melting scrap from shipbreaking (\$/tonne)	220.00–225.00*	0%	15 Aug 16
Auto bundle scrap (Turkish lira/tonne)	615.00–655.00*	0%	15 Aug 16
USA export			
<i>AMM ferrous scrap export index \$/tonne East Coast fob New York</i>			
HMS 1&2 (80:20)	216.00*	0%	17 Aug 16
Shredded	220.70*	0%	17 Aug 16
USA domestic			
<i>AMM Midwest index \$/gross ton delivered mill</i>			
No1 heavy melting scrap	221.27*	-0.54%	▼ 10 Aug 16
No1 busheling	264.28*	-3.61%	▼ 10 Aug 16
Shredded	241.81*	0.21%	▲ 10 Aug 16
China domestic			
<i>yuan/tonne delivered mill</i>			
Heavy scrap	1,550–1,590*	5.02%	▲ 19 Aug 16
Taiwan import			
<i>\$/tonne cfr main port</i>			
HMS 1&2 (80:20 mix) (USA material)	220–222*	2.08%	▲ 19 Aug 16
Germany domestic			
<i>€/tonne delivered at scrapyard, source: BDSV</i>			
No E2/8 (new steel scrap)	153.80	-8.51%	▼ 01 Jul 16
No E1 (old steel scrap)	141.00	-9.5%	▼ 01 Jul 16
No E3 (old thick steel scrap)	155.70	-9.63%	▼ 01 Jul 16
No E40 (shredded steel scrap)	161.90	-10.35%	▼ 01 Jul 16
No E5 (steel turnings)	119.70	-7.85%	▼ 01 Jul 16
<i>MB assessment €/tonne delivered at mill</i>			
Grade E40 (shredded steel scrap)	180–190	2.78%	▲ 16 Aug 16
No E8 (thin new production steel scrap)	175–190	2.82%	▲ 16 Aug 16
No E3 scrap)	175–185	1.41%	▲ 16 Aug 16
Italy domestic			
<i>MB assessment €/tonne delivered at mill</i>			
No E3 (old thick scrap)	175.00	0%	16 Aug 16
No E8 (thin new production steel)	190.00	0%	16 Aug 16

† week-on-week change

continued >>

SCRAP SUBSTITUTES

	Price	Change [†]	Assessed
EU imports \$/tonne			
Pig iron imports cif Italy	250–255*	0%	18 Aug 16
Latin American exports \$/tonne, delivery terms as stated			
Hot briquetted iron Venezuela	230–250*	0%	19 Aug 16
Pig iron fob Vitoria/Rio	215–230*	0%	19 Aug 16
Pig iron fob Ponta da Maderia	240–250*	0%	19 Aug 16
US imports \$/tonne cfr Gulf of Mexico			
Pig iron	255–265*	0%	19 Aug 16
CIS exports \$/tonne fob main port			
Pig iron Baltic Sea	270–275*	0%	18 Aug 16
Pig iron Black Sea	225–235*	0%	18 Aug 16
China domestic yuan/tonne delivered warehouse			
Pig iron	1,850–1,900*	3.88% ▲	19 Aug 16

NON-FERROUS SCRAP EUROPE

	Price	Change [†]	Assessed
Aluminium			
European free market MB assessment €/tonne			
Floated frag	1,250–1,280*	0%	19 Aug 16
Cast	1,150–1,230*	0%	19 Aug 16
Mixed turnings 6%	1,010–1,070*	0%	19 Aug 16

Germany per 1000kg

Pure cuttings	1,230–1,310	1.6% ▲	10 Aug 16
Commercial cast	1,210–1,330	1.6% ▲	10 Aug 16
H9 extrusions	1,440–1,550	-0.33% ▼	10 Aug 16
Alloy turnings	890–1,010	2.15% ▲	10 Aug 16

Source: VDM

France per 1000kg

Pure cuttings	1,280–1,320	0%	19 Jul 16
Old rolled	850–900	0%	19 Jul 16
Commercial cast	850–880	-1.14% ▼	19 Jul 16

Source: Lettre d'Information Metaux

Italy per 1000kg

Pure cuttings	1,165–1,265	0%	22 Jul 16
Old mixed scrap	1,115–1,165	0%	22 Jul 16
Commercial cast	1,065–1,115	0%	22 Jul 16

Source: Assomet

Copper

Germany per 1000kg

Copper wire (berry)	4,210–4,390	-0.69% ▼	10 Aug 16
Heavy copper	3,910–4,150	-0.25% ▼	10 Aug 16
Heavy brass	2,600–2,800	0.37% ▲	10 Aug 16
Brass turnings (MS 58)	2,900–3,090	-1.48% ▼	10 Aug 16
Brass sheet (MS 63)	3,140–3,350	0%	10 Aug 16

Source: Verein Deutscher Metallhändler

France per 1000kg

Electro cuttings	4,050–4,100	3.82% ▲	19 Jul 16
No 1 bright wire	3,850–3,870	3.9% ▲	19 Jul 16
Mixed (96%)	3,800–3,870	3.23% ▲	19 Jul 16
Brass plate cuttings 70/30	3,000–3,100	2.52% ▲	19 Jul 16
Brass turnings	2,500–2,550	2.02% ▲	19 Jul 16
Mixed brass	2,530–2,550	2.01% ▲	19 Jul 16

Source: Lettre d'Information Metaux

Italy per 1000kg

Electrolytic dd EN 12861-S-Cu-2	4,271–4,323	0.82% ▲	22 Jul 16
Enamelled wire EN 12861-S-Cu-3	4,109–4,161	0.85% ▲	22 Jul 16
New from tubes, strips etc EN 12861-S-Cu-4	4,230–4,282	0.83% ▲	22 Jul 16
Old from tubes, strips etc 12861-S-Cu-7	3,956–4,008	0.89% ▲	22 Jul 16

EN12861-S-Cu-Zn-1-A-Cu 63.5%	3,349–3,426	1.04% ▲	22 Jul 16
Mixed from valves/taps EN 12861-S-Cu-Zn-6	2,798–2,876	1.25% ▲	22 Jul 16
Several 95% m/m 12861-S-Cu-Zn-7	2,598–2,676	1.35% ▲	22 Jul 16

Source: Assomet

STEELBENCHMARKER™ SCRAP PRICES

	Price	Change [†]	Assessed
Region: USA, east of the Mississippi			
Shredded scrap (\$/metric tonne)**	237	0%	08 Aug 16
Shredded scrap (\$/gross ton)**	241	0%	08 Aug 16
No 1 heavy melting scrap (\$/metric tonne)	213	2.4% ▲	08 Aug 16
No 1 heavy melting scrap (\$/gross ton)	216	1.89% ▲	08 Aug 16
No 1 busheling scrap (\$/metric tonne)	261	-5.43% ▼	08 Aug 16
No 1 busheling scrap (\$/gross ton)	266	-5% ▼	08 Aug 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	1,150–1,200*	0%	17 Aug 16
Commercial pure cuttings	950–980*	2.12% ▲	17 Aug 16
Clean HE9 extrusions	1,150–1,200*	0%	17 Aug 16
Loose old rolled cuttings	750–800*	0%	17 Aug 16
Baled old rolled	840–900*	0%	17 Aug 16
Commercial cast	880–920*	1.12% ▲	17 Aug 16
Cast wheels	1,070–1,120*	0%	17 Aug 16
Commercial turnings	600–670*	1.6% ▲	17 Aug 16
Group 7 turnings	450–550*	0%	17 Aug 16

MB and LME aluminium scrap discounts

£ per tonne			
Group 1 pure 99% & Litho	77–127*	41.67% ▲	17 Aug 16
Commercial pure cuttings	297–327*	3.31% ▲	17 Aug 16
Clean HE9 extrusions	77–127*	41.67% ▲	17 Aug 16
Loose old rolled cuttings	402–452*	3.39% ▲	17 Aug 16
Baled old rolled	302–362*	4.4% ▲	17 Aug 16
Commercial cast	282–322*	1.34% ▲	17 Aug 16
Cast wheels	82–132*	15.05% ▲	17 Aug 16
Commercial turnings	532–602*	0.71% ▲	17 Aug 16
Group 7 turnings	652–752*	2.03% ▲	17 Aug 16

Titanium

\$/lb cif

Turnings, unprocessed type 90/6/4 (0.5% Sn max)	0.55–0.80*	3.85% ▲	17 Aug 16
Turnings, unprocessed 90/6/4 (over 0.5% max 2% Sn)	0.31–0.37*	0%	17 Aug 16

† week-on-week change

continued >>

NON-FERROUS FOUNDRY INGOTS

	Price	Change [†]	Assessed
Aluminium UK £/tonne			
MB free market			
LM24 pressure diecasting ingot	1,360–1,420*	0.36% ▲	17 Aug 16
LM6/LM25 gravity diecasting ingot	1,580–1,620*	0%	17 Aug 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	1,610–1,670*	0%	19 Aug 16
Aluminum US \$/lb delivered Midwest			
A380.1 alloy	0.83–0.85*	0%	18 Aug 16
AFFIMET €/tonne			
AS12	3,255	1.88% ▲	01 Aug 16
AS12 UN	2,880	0.17% ▲	01 Aug 16
AS9 U3	2,255	0.22% ▲	01 Aug 16
AS5 U3	2,605	0.19% ▲	01 Aug 16
Reflects generally larger traded lots			
VDM €/1000 kg delivered			
DIN 226	2,180–2,280	0%	10 Aug 16
DIN 231	2,260–2,360	0%	10 Aug 16
DIN 311	2,240–2,340	0%	10 Aug 16
Aluminium bronze £/tonne UK			
AB1 ex-works	4,100	0%	16 Aug 16
AB2 ex-works	4,200	0%	16 Aug 16
Source: C. F. Booth Ltd			
Brass UK £/tonne			
SCB3 ex-works	3,400	0%	16 Aug 16
High tensile HTB1 ex-works	3,500	0%	16 Aug 16
Source: C. F. Booth Ltd			
Gunmetal UK £/tonne			
LG2 85/5/5/5 ex-works	3,950	0%	16 Aug 16
LG4 87/7/3/3 ex-works	4,550	0%	16 Aug 16
G11.15 PB ex-works	5,200	0%	16 Aug 16
Source: C. F. Booth Ltd			
Phosphor bronze UK £/tonne			
PB1 ex-works	5,550	0%	16 Aug 16
Source: C. F. Booth Ltd			
Phosphor copper £/tonne			
10% P ex-works	5,550	0%	16 Aug 16
15% P ex-works	5,650	0%	16 Aug 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	2,287	5.1% ▲	01 Aug 16
Brock Metal ZL5	2,308	5% ▲	01 Aug 16

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Monthly averages: July

BASE METALS

	Low	High
Aluminium		
Aluminium P1020A, in-warehouse Rotterdam duty unpaid, spot \$/tonne Rotterdam premium	60.00	70.95
Aluminium P1020A, in-warehouse Rotterdam duty paid, spot \$/tonne H/G Cash \$/tonne	110.00	123.89
Alumina		
Index fob Australia	239.91	
Copper		
US High-grade cathode premium indicator, \$/tonne	132.28	143.30
Nickel		
Free market in warehouse premium		
Europe \$/tonne uncut cathodes	60.00	125.00
4x4 cathodes	150.00	250.00
briquettes	125.00	200.00
US Melting \$/lb	0.18	0.23
Plating \$/lb	0.50	0.60
Tin		
European free market		
Spot Premium 99.9% \$/tonne	400.00	522.00
Spot premium 99.85% \$/tonne	325.00	350.00
Kuala Lumpur (ex-smelter) \$/tonne	17,800.05	

MINOR METALS

Antimony		
MB free market Regulus 99.65%, max Se 50ppm, \$/tonne in warehouse	6,716.67	7,100.00
MMTA Standard grade II \$/tonne	6,677.78	7,000.00
Bismuth		
MB free market min. 99.99%, \$/lb, tonne lots in warehouse	4.14	4.41
Cadmium		
MB free market		
min 99.95%, cents/lb in warehouse	61.56	66.44
min 99.99%, cents/lb in warehouse	64.33	71.00
Cobalt		
MB free market		
High Grade, \$/lb in warehouse	11.18	11.97
Low Grade, \$/lb in warehouse	11.03	11.56
Germanium Dioxide		
MB free market min 99.99%, \$/kg	770.00	850.00
Rotterdam \$/kg	1,122.22	1,322.22
Indium		
MB free market Ingots min 99.97%, \$/kg in warehouse	220.56	265.56
Magnesium		
MB free market min 99.8%, \$/tonne	2,035.00	2,132.00
China free market min 99.8%	2,142.50	2,172.50
Mercury		
MB free market min 99.99%, \$/flask in warehouse	960.00	1,260.00

	Low	High
Selenium		
MB free market		
min 99.5% in warehouse \$/lb	9.94	12.17
Silicon		
MB free market €/tonne	1,610.00	1,710.00
Titanium		
Ferro-Titanium		
70% (max 4.5% Al), \$/kg d/d Europe	3.38	3.60

ORES & ALLOYS

	Low	High
Molybdenum		
Free market in warehouse		
Europe drummed molybdic oxide \$/lb Mo	6.66	6.84
US canned molybdic oxide \$/lb Mo	6.63	6.93
Ferro-molybdenum		
basis 65% min, in-warehouse Rotterdam, \$/kg Mo	16.67	17.18
Tungsten		
European free market APT \$/mtu	182.00	195.00
Ferro-tungsten		
basis 75% W min	24.52	25.31
Vanadium		
min 98%, in-warehouse Rotterdam, \$/lb V2O5	3.01	3.26
Ferro-vanadium		
basis 78% min, free delivery duty paid consumer plant, 1st grade Western Europe \$/kg V	17.09	17.74
US Free market 70–80%	10.14	10.64

PRECIOUS METALS

Gold		
London \$/troy oz Morning	1,337.43	
Afternoon	1,337.33	
London £/troy oz Morning	1,016.95	
Afternoon	1,017.31	
\$/troy oz Handy/Harman	1,336.66	
Palladium		
Morning \$/troy oz	642.24	
Afternoon \$/troy oz	646.05	
Platinum: per troy oz		
Morning \$/troy oz	1,086.24	
Afternoon \$/troy oz	1,086.48	
Rhodium		
European free market		
min 99.9% in warehouse, \$/troy oz	589.05	689.05
Silver		
London		
spot pence/troy oz	1,514.30	
spot cents/troy oz	1,992.86	
Handy/Harman cents/troy oz	1,999.18	

FOUNDRY INGOTS

	<i>Low</i>	<i>High</i>
Aluminium		
LM24	1,325.00	1,410.00
LM6/LM25	1,567.50	1,610.00
Aluminium Europe €/tonne	1,596.00	1,664.00
Phosphor Bronze		
PB1 ex-works £/tonne	5,550.00	
Zinc Alloy		
10 tonne lots ZL3 £/tonne	2,176.00	

EXCHANGE RATES (CLOSING RATES)

\$/£	1.31
\$/yen	104.13
\$/€	1.11

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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 July (21 days)
 LME averages are mean of buyers and sellers except for settlement and 3 months sellers.

	<i>July 2016 Low \$</i>	<i>High \$</i>	<i>July average \$</i>
Aluminium (\$)			
Cash	1,452.50	1,681.75	1,629.46
3 months	1,451.25	1,695.25	1,640.65
Settlement	1,453.00	1,682.00	1,629.83
3 months seller	1,451.50	1,695.50	1,640.98
Copper Grade A (\$)			
Cash	4,310.25	5,102.50	4,855.36
3 months	4,320.25	5,070.25	4,871.11
Settlement	4,310.50	5,103.00	4,855.79
3 months seller	4,320.50	5,070.50	4,871.95
Copper Grade A (£)			
Settlement	3,005.51	3,778.88	3,689.93
3 months seller	3,012.06	3,781.89	3,697.64
Lead (\$)			
Cash	1,596.50	1,900.75	1,834.36
3 months	1,597.50	1,908.00	1,843.18
Settlement	1,597.00	1,901.00	1,834.88
3 months seller	1,598.00	1,909.00	1,843.98
Lead (£)			
Settlement	1,098.84	1,421.84	1,394.33
3 months seller	1,100.75	1,426.44	1,399.52
Nickel (\$)			
Cash	7,705.00	10,662.50	10,248.93
3 months	7,737.50	10,705.00	10,289.88
Settlement	7,710.00	10,665.00	10,251.90
3 months seller	7,750.00	10,710.00	10,295.48
Tin (\$)			
Cash	13,225.00	18,197.50	17,827.38
3 months	13,212.50	18,225.00	17,793.33
Settlement	13,235.00	18,200.00	17,833.10
3 months seller	13,225.00	18,250.00	17,808.81

	<i>July 2016 Low \$</i>	<i>High \$</i>	<i>July average \$</i>
Zinc (\$)			
Cash	1,453.25	2,262.50	2,184.43
3 months	1,466.50	2,267.00	2,187.96
Settlement	1,453.50	2,263.00	2,184.83
3 months seller	1,467.00	2,268.00	2,188.62
Cobalt (\$)			
Cash	21,702.50	26,200.00	25,089.52
3 months	21,800.00	26,250.00	25,098.81
Settlement	21,705.00	26,250.00	25,244.05
3 months seller	21,850.00	26,500.00	25,333.33
Molybdenum (\$)			
Cash	11,500.00	16,750.00	15,285.71
3 months	11,500.00	16,750.00	15,285.71
Settlement	11,750.00	17,000.00	15,535.71
3 months seller	11,750.00	17,000.00	15,535.71
Aluminium Alloy (\$)			
Cash	1,492.50	1,610.00	1,529.33
3 months	1,527.50	1,625.00	1,554.29
Settlement	1,495.00	1,615.00	1,533.90
3 months seller	1,530.00	1,630.00	1,559.05
Nasaa (\$)			
Cash	1,650.00	1,739.50	1,708.46
3 months	1,667.50	1,760.00	1,726.31
Settlement	1,651.00	1,740.00	1,710.00
3 months seller	1,670.00	1,765.00	1,729.52
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

\$/£	1.32
\$/yen	104.12
\$/€	1.11