

Prices

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NEW YORK FUTURES

	Price	Change [†]	Assessed
Comex: Copper high grade cents/lb			
Settlement	259.60	-0.92% ▼	15 Dec 16
Open interest	236,269	-0.27% ▼	14 Dec 16
Stocks (short ton)	81,445	2.87% ▲	14 Dec 16
Comex: Gold \$/troy oz			
Settlement	1,127.80	-3.59% ▼	15 Dec 16
Open interest	402,111	1.35% ▲	14 Dec 16
Stocks (troy oz)	9,331,944	-3.36% ▼	14 Dec 16
Nymex: Palladium \$/troy oz			
Settlement	706.30	-4.46% ▼	15 Dec 16
Stocks (troy oz)	65,899	17.91% ▲	14 Dec 16
Nymex: Platinum \$/troy oz			
Settlement	893.60	-5.32% ▼	15 Dec 16
Stocks (troy oz)	238,119	-0.02% ▼	14 Dec 16
Comex: Silver cents/troy oz			
Settlement	1,589.70	-6.63% ▼	15 Dec 16
Open interest	164,479	1.25% ▲	14 Dec 16

SHANGHAI FUTURES

	Price	Change [†]	Assessed
Aluminium yuan/tonne	12,880	-4.2% ▼	16 Dec 16
Copper yuan/tonne	46,300	-1.87% ▼	16 Dec 16
Nickel cathode yuan/tonne	93,570	0.29% ▲	16 Dec 16
Tin ingot yuan/tonne	148,720	0.05% ▲	16 Dec 16
Zinc yuan/tonne	22,510	0.49% ▲	16 Dec 16
Steel rebar month 1 yuan/tonne	3,309	3.47% ▲	16 Dec 16
Steel rebar month 2 yuan/tonne	3,283	2.43% ▲	16 Dec 16
Steel rebar month 3 yuan/tonne	3,335	4.45% ▲	16 Dec 16
Weekly stocks deliverable			
Aluminium (tonnes)	96,196	11% ▲	16 Dec 16
Copper (tonnes)	144,026	9.15% ▲	16 Dec 16
Nickel cathode (tonnes)	101,228	-0.83% ▼	16 Dec 16
Tin ingot (tonnes)	1,519	-10.75% ▼	16 Dec 16
Zinc (tonnes)	157,611	4.52% ▲	16 Dec 16
Steel rebar (tonnes)	10,130	55.87% ▲	16 Dec 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	1,732-1,732.5	-0.57% ▼	16 Dec 16
Cash unofficial	1,750-1,752	1.13% ▲	15 Dec 16
3 months official	1,722-1,724	-0.85% ▼	16 Dec 16
3 months unofficial	1,742-1,744	1.04% ▲	15 Dec 16
LME Tapo notional average price (NAP)	1,734.5	0.6% ▲	15 Dec 16
LME stocks (tonnes)	2,117,500	0.75% ▲	15 Dec 16
Aluminium alloy (A380.1/DIN/D12S) \$			
LME cash official	1,560-1,570	0%	16 Dec 16
LME cash unofficial	1,560-1,570	0.32% ▲	15 Dec 16
LME 3 months official	1,570-1,580	0%	16 Dec 16
LME 3 months unofficial	1,570-1,580	0.32% ▲	15 Dec 16
LME stocks (tonnes)	13,580	-0.29% ▼	15 Dec 16

Price Change Assessed

N. American special aluminium alloy

LME cash official	1,715-1,725	0.29% ▲	16 Dec 16
LME cash unofficial	1,725-1,735	0.58% ▲	15 Dec 16
LME 3 months official	1,740-1,750	0.87% ▲	16 Dec 16
LME 3 months unofficial	1,740-1,750	0.58% ▲	15 Dec 16
LME stocks (tonnes)	86,780	0.65% ▲	15 Dec 16
Copper grade A \$			
LME cash official	5,648-5,649	-3.01% ▼	16 Dec 16
LME cash unofficial	5,730-5,734	-0.61% ▼	15 Dec 16
LME 3 months official	5,659-5,660	-2.82% ▼	16 Dec 16
LME 3 months unofficial	5,736-5,740	-0.51% ▼	15 Dec 16
LME Tapo notional average price (NAP)	5,792.91	-0.57% ▼	15 Dec 16
LME stocks (tonnes)	307,075	43.95% ▲	15 Dec 16
Lead \$			
LME cash official	2,262-2,263	-2.04% ▼	16 Dec 16
LME cash unofficial	2,293-2,295	0.5% ▼	15 Dec 16
LME 3 months official	2,276-2,277	-1.66% ▼	16 Dec 16
LME 3 months unofficial	2,306-2,308	0.52% ▲	15 Dec 16
LME stocks (tonnes)	187,075	-0.11% ▼	15 Dec 16
Nickel \$			
LME cash official	11,120-11,130	-1.77% ▼	16 Dec 16
LME cash unofficial	11,375-11,400	1.74% ▲	15 Dec 16
LME 3 months official	11,210-11,215	-1.43% ▼	16 Dec 16
LME 3 months unofficial	11,425-11,450	1.78% ▲	15 Dec 16
LME stocks (tonnes)	371,286	0.68% ▲	15 Dec 16
Tin \$			
LME cash official	21,345-21,350	0.28% ▲	16 Dec 16
LME cash unofficial	21,305-21,330	0.73% ▲	15 Dec 16
LME 3 months official	21,165-21,170	0.62% ▲	16 Dec 16
LME 3 months unofficial	21,175-21,200	0.71% ▲	15 Dec 16
LME stocks (tonnes)	3,415	5.56% ▲	15 Dec 16
Zinc special high grade \$			
LME cash official	2,724-2,725	0.56% ▲	16 Dec 16
LME cash unofficial	2,785.5-2,787.5	3.76% ▲	15 Dec 16
LME 3 months official	2,753-2,755	0.97% ▲	16 Dec 16
LME 3 months unofficial	2,803-2,805	3.7% ▲	15 Dec 16
LME stocks (tonnes)	430,950	-1.68% ▼	15 Dec 16
Cobalt min 99.3%			
LME cash official	32,000-32,400	2.63% ▲	16 Dec 16
LME 3 months official	32,000-32,400	2.22% ▲	16 Dec 16
LME stocks (tonnes)	673	3.22% ▲	15 Dec 16
Molybdenum \$			
LME cash official	14,750-15,250	0%	16 Dec 16
LME 3 months official	14,750-15,250	0%	16 Dec 16
LME stocks (tonnes)	0	0%	15 Dec 16
Steel billet			
LME cash official	300-325	0%	16 Dec 16
LME cash unofficial	300-325	0%	15 Dec 16
LME 3 months official	300-325	0%	16 Dec 16
LME 3 months unofficial	300-325	0%	15 Dec 16
LME stocks (tonnes)	0	0%	15 Dec 16

† week-on-week change

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Gold \$/troy oz	Price	Change	Assessed
London morning	1,134.85	-2.91%	▼ 16 Dec 16
London afternoon	1,126.95	-3.77%	▼ 15 Dec 16
Handy/Harman	1,126.95	-3.77%	▼ 15 Dec 16
Silver per troy oz			
London spot pence	1,291.23	-4.01%	▼ 16 Dec 16
London spot cents	1,605	-5.31%	▼ 16 Dec 16
Handy/Harman	1,593.5	-6.73%	▼ 15 Dec 16
Palladium \$/troy oz			
London morning	724	-1.36%	▼ 15 Dec 16
London afternoon	727	0.28%	▲ 15 Dec 16
Platinum \$/troy oz			
London morning	922	-2.64%	▼ 15 Dec 16
London afternoon	914	-2.77%	▼ 15 Dec 16
Kuala Lumpur tin market			
Tin \$/tonne	21,200	0.71%	▲ 16 Dec 16
ICDX			
Tin PB300 settlement price \$/tonne	20,805	-1.86%	▼ 15 Dec 16
Tin PB300 volume, tonnes	5	-87.5%	▼ 15 Dec 16

RAND FIXING PRICES

Rand fixing prices per tonne for London Metal Exchange trade

	Price	Change [†]	Assessed
Copper	78,896.19	-0.96%	▼ 16 Dec 16
Aluminium	24,196.79	1.53%	▲ 16 Dec 16
Lead	31,605.96	0.03%	▲ 16 Dec 16
Zinc	38,058.44	2.7%	▲ 16 Dec 16
Nickel	155,446.03	0.31%	▲ 16 Dec 16
Tin	298,182.64	2.35%	▲ 16 Dec 16

EXCHANGE RATES

	Price	Change [†]	Assessed
LME settlement conversion rates			
\$/£	1.2452	-1.08%	▼ 16 Dec 16
\$/¥	118.2100	2.58%	▲ 16 Dec 16
\$/€	1.0436	-1.1%	▼ 16 Dec 16
Closing rates, midpoint			
\$/£	1.2406	-1.18%	▼ 15 Dec 16
\$/¥	118.5750	3.79%	▲ 15 Dec 16
\$/€	1.0415	-1.86%	▼ 15 Dec 16
£/€	1.1911	0.68%	▲ 15 Dec 16
\$/CNY	6.9356	0.82%	▲ 15 Dec 16

BASE METALS ARBITRAGE

	Price	Change [†]	Assessed
Aluminium			
Import arbitrage, \$/tonne	-308.55*	40.72%	▲ 16 Dec 16
Import arbitrage, RMB/tonne	-2,148.97*	41.68%	▲ 16 Dec 16
Copper			
Import arbitrage, \$/tonne	-140.74*	26.12%	▲ 16 Dec 16
Import arbitrage, RMB/tonne	-980.21*	26.98%	▲ 16 Dec 16
Nickel			
Import arbitrage, \$/tonne	-420.95*	-16.61%	▼ 16 Dec 16
Import arbitrage, RMB/tonne	-2,931.82*	-16.04%	▼ 16 Dec 16
Zinc			
Import arbitrage, \$/tonne	-240.01*	48.64%	▲ 16 Dec 16
Import arbitrage, RMB/tonne	-1,671.61*	49.66%	▲ 16 Dec 16

MB BASE METAL PREMIUMS

All prices \$/tonne unless otherwise stated

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	Price	Change [†]	Assessed
Copper			
Rotterdam, copper low-high premium, Grade A, cathode, in-warehouse, \$/tonne	25.0-45.0*	-26.32%	▼ 14 Dec 16
Rotterdam, copper average premium, Grade A, cathode, in-warehouse \$/tonne	40.00*	-11.11%	▼ 14 Dec 16
Leghorn, copper low-high premium, Grade A, cathode, cif, \$/tonne	60.0-60.0*	0%	12 Dec 16
Leghorn, copper average premium, Grade A, cathode, cif, \$/tonne	60.00*	0%	12 Dec 16
South Korea, copper low-high premium, Grade A, cathode, cif, \$/tonne	55.0-65.0*	0%	15 Dec 16
South Korea, copper average premium, Grade A, cathode, cif, \$/tonne	60.00*	0%	15 Dec 16
Singapore, copper low-high premium, Grade A, cathode, in-warehouse, \$/tonne	5.0-15.0*	0%	15 Dec 16
Singapore, copper average premium, Grade A, cathode, in-warehouse, \$/tonne	10.00*	0%	15 Dec 16
Shanghai, copper low-high premium, Grade A, cathode, in-warehouse, \$/tonne	60.0-70.0*	0%	16 Dec 16
Shanghai, copper average premium, Grade A, cathode, in-warehouse \$/tonne	65.00*	0%	16 Dec 16
Shanghai, copper low-high premium, Grade A, cathode, cif \$/tonne	60.0-70.0*	0%	16 Dec 16
Shanghai, copper average premium, Grade A, cathode, cif \$/tonne	65.00*	0%	16 Dec 16
Johor, copper low-high premium, Grade A, cathode, in-warehouse, \$/tonne	5.0-15.0*	0%	15 Dec 16
Johor, copper average premium, Grade A, cathode, in-warehouse \$/tonne	10.00*	0%	15 Dec 16
MB free market US: High-grade cathode premium indicator, \$/tonne	110.2-121.3*	-4.55%	▼ 15 Dec 16
Aluminium			
Aluminium P1020A, in-whs Rotterdam duty unpaid, spot low-high, \$/tonne	68.0-80.0*	-4.52%	▼ 16 Dec 16
Aluminium P1020A, in-warehouse Rotterdam duty unpaid, spot weighted average, \$/tonne	72.00*	-7.1%	▼ 16 Dec 16
Aluminium P1020A, cif Korea (Gwangyang or Busan), spot low-high, \$/tonne	75.00-85.00*	10.34%	▲ 13 Dec 16
Aluminium P1020A, cif Korea (Gwangyang or Busan), spot weighted average, \$/tonne	80.00*	5.26%	▲ 13 Dec 16
Aluminium P1020A, in-warehouse Singapore, spot low-high, \$/tonne	5.0-15.0*	33.33%	▲ 13 Dec 16
Aluminium P1020A, in-warehouse Singapore, spot weighted average, \$/tonne	10.00*	14.29%	▲ 13 Dec 16
Aluminium P1020A, in-warehouse Johor, spot low-high, \$/tonne	5.0-15.0*	33.33%	▲ 13 Dec 16
Aluminium P1020A, in-warehouse Johor, spot weighted average, \$/tonne	10.00*	14.29%	▲ 13 Dec 16
Aluminium P1020A, cif Shanghai, spot low-high, \$/tonne	90.0-100.0*	11.76%	▲ 13 Dec 16
Aluminium P1020A, cif Shanghai, spot weighted average, \$/tonne	95.00*	11.76%	▲ 13 Dec 16
Aluminium P1020A, cif main Japanese ports, spot low-high, \$/tonne	75.0-85.0*	6.67%	▲ 13 Dec 16
Aluminium P1020A, cif main Japanese ports, spot weighted average, \$/tonne	81.00*	6.58%	▲ 13 Dec 16
Aluminium ingot ADC 12 spot, main Japanese ports, \$/tonne	1,800*	-0.14%	▼ 13 Dec 16
Aluminium P1020A, in-warehouse Rotterdam duty-paid, spot \$/tonne	118.0-130.0*	-4.62%	▼ 16 Dec 16
Aluminium P1020A, in-warehouse Rotterdam duty-paid, for delivery three months forward, \$/tonne	118.0-130.0*	-4.62%	▼ 16 Dec 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	290.0–320.0*	–1.61%	▼ 16 Dec 16
Aluminium P1020A, delivered US midwest, spot, \$/lb	0.080–0.085*	0%	14 Dec 16
Aluminium P1020A, delivered Sao Paulo region, spot, \$/tonne	200.0–240.0*	4.76%	▲ 15 Dec 16
Aluminium P1020A, cif Brazilian main ports duty–unpaid, spot, \$/tonne	160.0–195.0*	7.58%	▲ 08 Dec 16
Aluminium 6063 + 6060 extrusion billet, cif Brazilian main ports, spot (premium over LME cash), \$/tonne	280.0–320.0*	0%	08 Dec 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%	13 Dec 16
Rotterdam, lead average premium, 99.97% purity, in–warehouse, \$/tonne	20.00*	0%	13 Dec 16
Johor, lead low–high premium, 99.97% purity, in–warehouse, \$/tonne	10.0–15.0*	–16.67%	▼ 08 Dec 16
Johor, lead average premium, 99.97% purity, in–warehouse, \$/tonne	15.00*	0%	08 Dec 16
MB Battery grade free market premium in–warehouse, €/tonne	90.0–120.0*	0%	13 Dec 16
USA lead premium 99.97%, delivered domestic, \$/lb	0.09–0.13*	0%	09 Dec 16
Nickel			
Shanghai, nickel low–high premium, 99.8% purity in–warehouse \$/tonne	100.0–130.0*	24.32%	▲ 15 Dec 16
Shanghai, nickel average premium, 99.8% purity in–warehouse \$/tonne	110.00*	10%	▲ 15 Dec 16
Shanghai, nickel low–high premium, 99.8% purity, full plate, cif \$/tonne	100.0–130.0*	24.32%	▲ 15 Dec 16
Shanghai, nickel premium, 99.8% purity full plate, cif \$/tonne	110.00*	10%	▲ 15 Dec 16
Malaysia nickel 99.80% briquettes premium in–warehouse, \$/tonne	9–15*	20%	▲ 14 Dec 16
Singapore nickel 99.80% briquettes premium in–warehouse, \$/tonne	10–15*	25%	▲ 14 Dec 16
Malaysia nickel 99.80% full plate premium in–warehouse, \$/tonne	15–50*	0%	14 Dec 16
Singapore nickel 99.80% full plate premium in–warehouse, \$/tonne	15–50*	0%	14 Dec 16
uncut cathodes premium indicator	50.0–80.0*	0%	13 Dec 16
4x4 cathodes premium indicator	170.0–240.0*	5.13%	▲ 13 Dec 16
briquettes premium indicator	115.0–190.0*	10.91%	▲ 13 Dec 16
US: melting premium indicator \$/lb	0.170–0.230*	2.56%	▲ 14 Dec 16
Tin			
MB European free market			
Spot premium 99.9% \$/tonne	375–510*	0%	16 Dec 16
Spot premium 99.85% \$/tonne	300–355*	–3.68%	▼ 16 Dec 16
United States New York spot, cents/lb	996–997	0.81%	▲ 15 Dec 16
Zinc			
Rotterdam, zinc low–high premium, 99.995% purity, in–warehouse, \$/tonne	105.0–105.0*	10.53%	▲ 14 Dec 16
Rotterdam, zinc average premium, 99.995% purity, in–warehouse, \$/tonne	105.00*	10.53%	▲ 14 Dec 16
MB EU: Special high grade, fca Rotterdam, \$/tonne	130.0–145.0*	1.85%	▲ 14 Dec 16
South Korea, zinc low–high premium, 99.995% purity, in–warehouse, \$/tonne	90.0–90.0*	0%	15 Dec 16
South Korea, zinc average premium, 99.995% purity, in–warehouse, \$/tonne	90.00*	0%	15 Dec 16
Johor, zinc low–high premium, 99.995% purity, in–warehouse, \$/tonne	80.0–90.0*	6.25%	▲ 15 Dec 16
Johor, zinc average premium, 99.995% purity, in–warehouse, \$/tonne	88.00*	10%	▲ 15 Dec 16

	Price	Change	Assessed
Singapore, zinc low–high premium, 99.995% purity, in–warehouse, \$/tonne	75.0–90.0*	3.12%	▲ 15 Dec 16
Singapore, zinc average premium, 99.995% purity, in–warehouse, \$/tonne	84.00*	5%	▲ 15 Dec 16
Shanghai, zinc low–high premium, 99.995% purity, in–warehouse, \$/tonne	120.0–135.0*	2%	▲ 15 Dec 16
Shanghai, zinc average premium, 99.995% purity, in–warehouse, \$/tonne	128.00*	2.4%	▲ 15 Dec 16
MB US: Special high grade, \$/lb	0.060–0.065*	–3.85%	▼ 08 Dec 16

BASE METALS

	Price	Change*	Assessed
Alumina			
MB Chinese free market, metallurgical grade, delivered duty paid RMB/tonne	2,900.0–3,070.0*	–0.17%	▼ 15 Dec 16
Alumina Index fob Australia	340.75*	0.67%	▲ 15 Dec 16
Alumina Index fob Brazil	–1.77*		08 Dec 16
Alumina Index fob Brazil, inferred Brazil price \$ per dry metric ton	336.70*		08 Dec 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):	5,475.2–5,505.3	–1.99%	▼ 14 Dec 16
cathodes:	5,400.0–5,500.0	–2.42%	▼ 14 Dec 16
South Africa: Palabora copper rod 7.90mm, Rand/tonne	86,657.840	15.13%	▲ 01 Dec 16
Copper concentrate Asia–Pacific Index RC import, US cents/lb (twice monthly on 15th and last day of month)	8.28–8.28*	–2.47%	▼ 15 Dec 16
Copper concentrate Asia–Pacific Index TC import, \$/dmt (twice monthly on 15th and last day of month)	82.80–82.80*	–2.47%	▼ 15 Dec 16
Shanghai bonded copper stocks, tonnes	465,000–465,000*	–1.06%	▼ 05 Dec 16

Nickel

Nickel pig iron high grade NPI content 10–15% contract price delivered duty paid China RMB per nickel unit price	1,000.00–1,020.00*0%		13 Dec 16
Nickel pig iron high grade NPI content 10–15% spot price China RMB per nickel unit price	1,000.00–1,020.00*0%		13 Dec 16
Nickel ore			
Laterite ore with 1.5% nickel content cif China, \$/tonne	48–52*	0%	13 Dec 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	64–66*	0.78%	▲ 13 Dec 16

Lead

Germany: (VDM) virgin soft, €/tonne	2,390.00–2,420.00	0.18%	▲ 30 Nov 16
European automotive battery premium free market (Eurobat)			
in–warehouse Rotterdam €/tonne			
Soft lead (average)	155.55*	0.05%	▲ 30 Nov 16
Ca/Ca grid grid lead (average)	423.24*	1.07%	▲ 30 Nov 16
Connector lead (average)	543.80*	–5.42%	▼ 30 Nov 16
European industrial battery premium free market (Eurobat)			
in–warehouse Rotterdam €/tonne			
Stand–by refined or soft lead (average)	260.65*	5.19%	▲ 30 Nov 16
Traction refined or soft lead (average)	265.50	6%	▲ 30 Nov 16

For an explanation of these premiums, see <http://www.eurobat.org/statistics>

Zinc

Germany: (VDM) virgin, €/tonne	2,760.00–2,760.00	0.36%	▲ 14 Dec 16
UK: Special high grade, delivered monthly average price £/tonne	2,341*	11.64%	▲ 01 Dec 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%	16 Dec 16
Johnson Matthey base price: (unfab) \$/troy oz (08.00 hrs)	675	0%	16 Dec 16
Englehard base price: \$/troy oz	700	0%	16 Dec 16
Palladium			
European free market: min 99.9%, \$/troy oz in-warehouse	690–727*	–3.67% ▼	16 Dec 16
Englehard base price: \$/troy oz	705	–4.86% ▼	16 Dec 16
Johnson Matthey base price: (unfab) \$/troy oz (08.00 hrs)	697	–6.69% ▼	16 Dec 16
Platinum			
European free market: min 99.9%, \$/troy oz in-warehouse	901–915*	–3.51% ▼	16 Dec 16
Englehard base price: \$/troy oz	907	–3.3% ▼	16 Dec 16
Johnson Matthey base price: (unfab) \$/troy oz (08.00 hrs)	910	–3.29% ▼	16 Dec 16
Rhodium			
European free market: min 99.9%, \$/troy oz in-warehouse	790–890*	12% ▲	16 Dec 16
Englehard base price: \$/troy oz	850	9.68% ▲	16 Dec 16
Johnson Matthey base price: (unfab) \$/troy oz (08.00 hrs)	825	7.84% ▲	16 Dec 16
Ruthenium			
European free market: min 99.9%, \$/troy oz in-warehouse	34–44*	0%	16 Dec 16
Englehard base price: \$/troy oz	42	0%	16 Dec 16
Johnson Matthey base price: (unfab) \$/troy oz (08.00 hrs)	40	0%	16 Dec 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	7,350–7,550*	1.71% ▲	16 Dec 16
MMTA Standard Grade II, \$/tonne in-warehouse Rotterdam	7,250–7,500*	1.37% ▲	16 Dec 16
MB Chinese free market MMTA Standard Grade II, delivered duty paid RMB/tonne	47,500–49,200*	1.79% ▲	14 Dec 16
Arsenic			
MB free market \$/lb	1.00–1.35*	0%	09 Dec 16
Bismuth			
MB free market \$/lb	4.50–4.80*	0%	16 Dec 16
MB China domestic, min 99.99%, RMB/tonne	70,000–76,000*	6.57% ▲	16 Dec 16
Cadmium			
MB free market min 99.95% cents/lb	65.00–70.00*	0%	16 Dec 16
MB free market min 99.99% cents/lb	68.00–75.00*	0%	16 Dec 16
Chromium			
MB free market aluminio-thermic min 99% \$/tonne	7,500–7,800*	4.08% ▲	16 Dec 16
Cobalt			
MB free market high-grade \$/lb	14.25–15.00*	3.36% ▲	16 Dec 16
MB free market low-grade \$/lb	13.95–14.50*	2.71% ▲	16 Dec 16
MB high-grade, weighted average of all confirmed international trades, \$/lb	14.75*	3.51% ▲	16 Dec 16
MB low-grade, weighted average of all confirmed international trades, \$/lb	14.22*	3.12% ▲	16 Dec 16
MB China domestic, min 99.8% RMB/tonne	252,000–255,000*	4.54% ▲	16 Dec 16
Cobalt tetroxide min 72.6% Co delivered China RMB/tonne	173,000–175,000*	0%	16 Dec 16

	Price	Change	Assessed
Gallium			
MB free market \$/kg	150–170*	0%	16 Dec 16
MB China domestic, min 99.99%, RMB/kg	950–1,050*	2.56% ▲	14 Dec 16
Germanium			
Germanium dioxide MB free market \$/kg	610–710*	0%	16 Dec 16
Germanium metal \$/kg Rotterdam	850–950*	0%	16 Dec 16
Germanium metal MB China domestic, min 99.999%, RMB/kg	6,300–6,800*	0%	14 Dec 16
Hafnium			
Hafnium 1% Zr max, in-warehouse global locations, \$/kg	950–1,050*	0%	09 Dec 16
Indium			
MB free market \$/kg	190–230*	0%	16 Dec 16
MB China domestic, min 99.99% RMB/kg	1,300–1,400*	17.39% ▲	14 Dec 16
Indium Corp ingots min 99.97% \$/kg fob	440.00	–40.94% ▼	26 Jun 15
Magnesium			
European free market \$ per tonne	2,350–2,500*	0%	16 Dec 16
China free market min 99.8% Mg, fob China main ports, \$ per tonne	2,450–2,460*	0.2% ▲	14 Dec 16
MB Chinese free market min 99% Mg, ex-works RMB/tonne	16,200–16,400*	–0.61% ▼	14 Dec 16
Manganese flake			
MB free market \$/tonne	2,650–2,730*	4.47% ▲	16 Dec 16
Mercury			
MB free market \$ per flask	1,050–1,275*	0%	09 Dec 16
Rhenium in-warehouse Rotterdam duty paid			
Metal pellets, min 99.9% \$/lb	770–900*	0%	09 Dec 16
APR catalytic grade \$/kg Re	2,100–2,350*	0%	09 Dec 16
Selenium			
MB free market \$/lb	11.50–13.50*	21.95% ▲	16 Dec 16
MB China domestic, min 99.9%, RMB/kg	260–300*	86.67% ▲	16 Dec 16
Selenium dioxide, MB China domestic, min 98%, RMB/kg	280–300*	152.17% ▲	16 Dec 16
Silicon			
MB free market €/tonne	1,700–1,830*	0%	16 Dec 16
US free market cents/lb	98–102*	8.99% ▲	08 Dec 16
Export from mainland China min 98.5%, \$/tonne fob	1,550–1,560*	–0.96% ▼	14 Dec 16
Tellurium			
MB free market \$/kg	25.00–40.00*	0%	16 Dec 16
MB China domestic, min 99.99%, RMB/kg	350–400*	15.38% ▲	16 Dec 16
Titanium			
MB free market ferro-titanium 70% (max 4.5% Al) \$/kg Ti d/d Europe	3.00–3.30*	1.61% ▲	16 Dec 16
Titanium ores \$/tonne			
Rutile conc min 95% Tio2 bagged, fob/Aus	750–800	0%	15 Dec 16
Rutile bulk conc min 95% Tio2 fob/Aus	710–760	1.38% ▲	15 Dec 16
Ilmenite bulk conc min 54% Tio2 fob/Aus	100–110	0%	15 Dec 16

† week-on-week change

continued >>

NOBLE ALLOYS & ORES			
	Price	Change†	Assessed
Molybdenum molybdc oxide			
Europe drummed molybdc oxide \$/lb Mo	6.45–6.60*	–4.04% ▼	16 Dec 16
US canned molybdc oxide \$/lb Mo	6.50–6.70*	–3.65% ▼	15 Dec 16
Ferro-molybdenum			
Basis 65% min, in-warehouse Rotterdam \$/kg Mo	16.35–16.90*	–3.06% ▼	16 Dec 16
US free market 65–70% Mo \$/lb in-warehouse Pittsburgh	8.20–8.50*	0%	15 Dec 16
MB Chinese free market concentrate 45% Mo in-warehouse China RMB/mtu	1,060–1,080*	0%	14 Dec 16
Tungsten			
European free market APT \$/mtu	187–198*	0.79% ▲	16 Dec 16
Export from mainland China APT Chinese No1 grade, min 88.5% W03, \$/mtu fob	188–194*	1.87% ▲	14 Dec 16
MB Chinese free market concentrate 65% W03 in-warehouse China RMB/tonne	72,000–75,000*	3.52% ▲	14 Dec 16
Ferro-tungsten			
Basis 75% W min \$/kg W in-warehouse Rotterdam duty unpaid	25.80–26.20*	–0.29% ▼	16 Dec 16
China export min 75% \$/kg W, fob China	26.30–26.50*	0.76% ▲	14 Dec 16
Vanadium			
Ferro-vanadium basis 78% min, free delivery duty paid consumer plant, 1st grade, Western Europe \$/kg V	22.80–23.60*	1.09% ▲	16 Dec 16
US free market ferro-vanadium \$/lb in-warehouse Pittsburgh	11.20–11.75*	2% ▲	15 Dec 16
Vanadium pentoxide min 98%, in-warehouse Rotterdam \$ per lb V2O5	4.85–5.20*	1.52% ▲	16 Dec 16
Zircon			
Foundry grade bulk \$/tonne fob Australia	950–1,000	0%	15 Dec 16
Premium bulk \$/tonne fob Australia	1,000–1,050	0%	15 Dec 16

BULK ALLOYS			
	Price	Change†	Assessed
Ferro-chrome \$/lb Cr			
China import charge chrome 50% Cr index, cif Shanghai, duty unpaid	1.35*	0%	16 Dec 16
Lumpy Cr charge basis 52% Cr (and high carbon) quarterly	1.65*	50% ▲	16 Dec 16
6–8% C basis 60% Cr max 1.5% Si	1.30–1.50*	8.53% ▲	16 Dec 16
0.10% C average 60–70% Cr	2.13–2.22*	3.33% ▲	16 Dec 16
European low carbon in-warehouse 0.06% C max – 65% Cr	2.15–2.25*	3.53% ▲	16 Dec 16
Low phosphorous Cr min 65% C max 7% Si max 1% p max 0.015% Ti max 0.05%	1.30–1.38*	9.39% ▲	16 Dec 16
Japan import 8–9% C, basis 60% Cr, cif Japan, duty unpaid \$/lb contained chrome	1.28–1.35*	1.94% ▲	15 Dec 16
US free market in-warehouse Pittsburgh 6–8% C basis 60–65% Cr max 2% Si	1.250–1.330*	14.67% ▲	15 Dec 16
US free market low carbon duty paid fob Pittsburgh			
0.05% C – 65% min Cr	2.10–2.15*	0%	15 Dec 16
0.10% C – 62% min Cr	2.00–2.08*	3.55% ▲	15 Dec 16
0.15% C – 60% min Cr	1.96–1.99*	3.13% ▲	15 Dec 16
Spot 6–8% C basis 50% Cr delivered duty paid China RMB/tonne	10,300–11,000*	–0.47% ▼	16 Dec 16
Contract 6–8% C basis 50% Cr delivered duty paid China RMB/tonne	10,400–11,000*	0%	16 Dec 16

	Price	Change	Assessed
Chrome ore \$/tonne			
<i>Chrome ore cif main Chinese ports</i>			
South African UG2 chrome ore concs, basis 42%	390–400*	1.28% ▲	16 Dec 16
Turkish lumpy 40–42% cfr main Chinese ports	430–440*	0%	16 Dec 16
Ferro-manganese			
basis 78% Mn (scale pro rata) standard 7.5% C €/tonne	1,265–1,300*	0%	16 Dec 16
US free market 78% Mn standard 7.5% C \$/long ton in-warehouse Pittsburgh	1,300–1,370*	2.3% ▲	15 Dec 16
US free market medium carbon duty paid fob Pittsburgh, 80% min Mn 1.5% max C \$/lb	0.95–0.98*	0%	15 Dec 16
MB Chinese free market min 65% Mn max 7.0% C in-warehouse China RMB/tonne	8,200–8,300*	0%	16 Dec 16
Manganese ore			
44% Mn, cif Tianjin \$/dmtu of metal contained	9.22*	3.13% ▲	16 Dec 16
37% Mn, fob Port Elizabeth \$/dmtu of metal contained	7.42*	–0.4% ▼	16 Dec 16
Ferro-silicon			
Lumpy basis 75% Si (scale pro rata) €/tonne	1,100–1,130*	6.19% ▲	16 Dec 16
US free market \$/lb in-warehouse Pittsburgh lumpy basis 75% Si – imported	0.78–0.82*	2.56% ▲	15 Dec 16
Export from mainland China, min 75% Si, 7.5% C, \$/tonne, fob	1,230–1,240*	0.41% ▲	16 Dec 16
MB Chinese free market min 75% in-warehouse China RMB/tonne	5,600–5,800*	–2.56% ▼	16 Dec 16
Silico-manganese			
Lumpy basis 65–75% Mn basis 15–19% Si (scale pro rata) €/tonne	1,245–1,300*	0%	16 Dec 16
US free market \$/lb in-warehouse Pittsburgh	0.67–0.70*	5.38% ▲	15 Dec 16
MB Chinese free market min 65% Mn max 17% Si in-warehouse China RMB/tonne	8,300–8,500*	–2.33% ▼	16 Dec 16
65% min Mn 16% min Si \$/tonne fob India	1,100–1,180*	1.33% ▲	16 Dec 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%	14 Dec 16
Wire rod (mesh quality)	400–420*	0%	14 Dec 16
Plate (8–40mm)	480–500*	0%	14 Dec 16
Hot rolled coil	500–520*	3.03% ▲	14 Dec 16
Cold rolled coil	620–640*	1.61% ▲	14 Dec 16
Hot-dip galvanized coil	650–660*	0%	14 Dec 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%	14 Dec 16
Wire rod (mesh quality)	370–375*	0%	14 Dec 16
Plate (8–40mm)	470–480*	–3.06% ▼	14 Dec 16
Hot rolled coil	520–525*	10% ▲	14 Dec 16
Cold rolled coil	630–645*	7.14% ▲	14 Dec 16
Hot-dip galvanized coil	640–650*	12.17% ▲	14 Dec 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	420–430*	1.19% ▲	14 Dec 16
Wire rod (mesh quality)	355–365*	0%	14 Dec 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	450–465*	0%	14 Dec 16
Wire rod (mesh quality)	460–470*	0%	14 Dec 16
Sections (medium)	580–590*	4.93% ▲	14 Dec 16
Beams	500–530*	–0.96% ▼	14 Dec 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	445–455*	0%	14 Dec 16
Wire rod (mesh quality)	450–460*	0%	14 Dec 16
Sections (medium)	545–560*	3.27% ▲	14 Dec 16
Beams	520–540*	0.95% ▲	14 Dec 16
Central Europe domestic € per tonne ex-works			
Hot rolled coil	510–520*	1.98% ▲	14 Dec 16
Poland domestic zloty per tonne ex-works			
Rebar	1,940–1,980*	–0.51% ▼	16 Dec 16
Northern Europe € per tonne ex-works			
Plate (8–40mm)	560–590*	2.68% ▲	14 Dec 16
Hot rolled coil	540–550*	0%	14 Dec 16
Cold rolled coil	640–660*	0%	14 Dec 16
Hot-dip galvanized coil	650–670*	–0.75% ▼	14 Dec 16
Beams	485–515*	–0.99% ▼	14 Dec 16
Hollow sections	565–575*	5.07% ▲	14 Dec 16
Southern Europe € per tonne ex-works			
Plate (8–40mm)	520–530*	6.06% ▲	14 Dec 16
Hot rolled coil	520–530*	2.44% ▲	14 Dec 16
Cold rolled coil	620–640*	1.61% ▲	14 Dec 16
Hot-dip galvanized coil	630–640*	1.6% ▲	14 Dec 16
Beams	505–525*	0.98% ▲	14 Dec 16
Hollow sections	530–545*	3.37% ▲	14 Dec 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	445–455*	0.56% ▲	14 Dec 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	390–400*	0%	12 Dec 16
Slab	400–415*	0%	12 Dec 16
Rebar	420–425*	0.72% ▲	12 Dec 16
Wire rod (mesh)	430–440*	–0.57% ▼	12 Dec 16
Heavy plate (10–50mm)	465–470*	–0.53% ▼	12 Dec 16
Hot rolled coil	475–490*	–1.03% ▼	12 Dec 16
Cold rolled coil	560–570*	0.8% ▲	12 Dec 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	34,500–34,550*	0%	12 Dec 16
Hot rolled sheet	38,200–40,100*	1.16% ▲	12 Dec 16
Cold rolled sheet	46,000–46,200*	0%	12 Dec 16
Plate	36,150–36,200*	1.62% ▲	12 Dec 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	395–400*	–4.79% ▼	15 Dec 16
Rebar	430–440*	0%	15 Dec 16
Wire rod (mesh quality)	450–460*	0%	15 Dec 16
Merchant bars	450–460*	0%	15 Dec 16
Structural pipe	530–540*	3.88% ▲	14 Dec 16
Hot rolled coil	530–535*	2.4% ▲	16 Dec 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	385–400*	–3.09% ▼	15 Dec 16
Rebar	410–425*	–1.76% ▼	15 Dec 16
Wire rod (mesh quality)	440–450*	–1.66% ▼	15 Dec 16
Hot rolled coil	540–550*	3.32% ▲	16 Dec 16
Cold rolled coil	650–660*	3.15% ▲	16 Dec 16
Hot dip galvanized	710–755*	0%	16 Dec 16
Prepainted galvanized	820–855*	0%	16 Dec 16
Turkish imports			
<i>Metal Bulletin's appraisal of prices for imported commercial-quality carbon steel, \$ per tonne cfr main Turkish port</i>			
Billet	395–405*	0%	15 Dec 16
Hot rolled coil	495–510*	0%	16 Dec 16
Cold rolled coil	560–590*	0%	16 Dec 16
UAE imports			
<i>Metal Bulletin's appraisal of prices for imported commercial-quality carbon steel, \$ per tonne cfr Jebel Ali</i>			
Billet	410–420*	0%	13 Dec 16
Rebar	430–440*	–1.69% ▼	13 Dec 16
Hot rolled coil	569–570*	4.98% ▲	13 Dec 16
Cold rolled coil	659–660*	7.24% ▲	13 Dec 16
Hot dip galvanized coil	690–740*	2.14% ▲	13 Dec 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	435–445*	–0.56% ▼	13 Dec 16
Hot rolled coil	579–580*	6.33% ▲	13 Dec 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	1,730–1,750*	0%	13 Dec 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	15.50–15.70*	4% ▲	14 Dec 16
Rebar (12–25mm)	18.00–18.20*	3.43% ▲	14 Dec 16
Plate	22.00–23.40*	12.38% ▲	14 Dec 16
Hot rolled coil	23.50–24.60*	2.34% ▲	14 Dec 16
Cold rolled coil	27.00–27.50*	0.93% ▲	14 Dec 16
Hot-dip galvanized coil	30.00–30.50*	7.4% ▲	14 Dec 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	410–420*	0%	14 Dec 16
Rebar	430–440*	0%	14 Dec 16
Cold rolled coil	575–600*	2.17% ▲	14 Dec 16
Hot rolled coil	514–515*	3.42% ▲	14 Dec 16
Plate	470–490*	0%	14 Dec 16
Hot dip galvanized coil	699–700*	6.79% ▲	14 Dec 16
Prepainted galvanized	700–720*	0%	14 Dec 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	9,200–9,492*	1.85% ▲	15 Dec 16
Egyptian import			
<i>Metal Bulletin's appraisal of prices for imported commercial-quality carbon steel, \$ per tonne cfr main port</i>			
Billet	415–420*	–3.47% ▼	15 Dec 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	360–380*	0%	16 Dec 16
Slab	420–430*	3.03% ▲	16 Dec 16
Rebar	400–425*	0%	16 Dec 16
Wire rod mesh quality	400–425*	0%	16 Dec 16
Heavy plate over 10mm	400–425*	0%	16 Dec 16
Hot rolled coil (dry)	425–450*	0%	16 Dec 16
Cold rolled coil	555–575*	0%	16 Dec 16
Galvanized coil	705–710*	0%	16 Dec 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	490–500*	2.59% ▲	16 Dec 16
Hot rolled coil	525–535*	1.92% ▲	16 Dec 16
Cold rolled coil	600–610*	0.41% ▲	16 Dec 16
Galvanized coil	650–670*	0.76% ▲	16 Dec 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	645–650*	4.86% ▲	09 Dec 16
Cold rolled coil	760–775*	3.72% ▲	09 Dec 16
Galvanized coil	1,050–1,140*	3.55% ▲	09 Dec 16
Rebar	800–820*	0%	09 Dec 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	3,240–3,480*	9.98% ▲	09 Dec 16
Cold rolled coil	3,590–3,700*	9.87% ▲	09 Dec 16
Hot dip galvanized coil	4,050–4,215*	9.91% ▲	09 Dec 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%	09 Dec 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%	09 Dec 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	417–422*	–2.1% ▼	07 Dec 16
Merchant bars	580–600*	9.26% ▲	28 Nov 16
Wire rod (low carbon)	431–445*	0.57% ▲	14 Dec 16
Medium sections	520–560*	8% ▲	28 Nov 16
Medium plate	515–540*	0%	14 Dec 16
Hot rolled coil (commodity)	590–605*	10.65% ▲	14 Dec 16
Cold rolled coil	690–735*	–0.7% ▼	14 Dec 16
Hot dipped galvanized 0.012–0.015, G30	840–860*	0%	14 Dec 16
Hot dipped galvanized 0.019, G60	720–765*	9.19% ▲	16 Nov 16
ERW linepipe (X42)	640–640*	6.67% ▲	29 Nov 16
OCTG API5CT – casing J/K55	690–690*	0%	29 Nov 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*	1.92% ▲	07 Dec 16
Wire rod (mesh quality fob mill)	475–495*	10.23% ▲	14 Dec 16
Plate (fob mill)	590–590*	3.51% ▲	09 Dec 16
Hot rolled sheet (fob mill)	600–600*	0%	15 Dec 16
Cold rolled sheet (fob mill)	820–820*	0%	15 Dec 16
Hot-dip galvanized (base) Midwest (fob mill)	820–820*	0%	15 Dec 16
ERW linepipe (X42) (fob mill)	840–840*	3.7% ▲	29 Nov 16
OCTG API5CT – casing J/K55 (fob mill)	850–850*	3.66% ▲	29 Nov 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 Nov 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	450–460*	1.68%	▲ 16 Dec 16
Wire rod (mesh quality)	450–455*	1.69%	▲ 16 Dec 16
Heavy plate	490–500*	5.88%	▲ 16 Dec 16
Hot rolled coil	515–520*	3.5%	▲ 16 Dec 16
Cold rolled coil	600–610*	5.68%	▲ 16 Dec 16
Galvanized coil 1mm	625–635*	0.8%	▲ 16 Dec 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	3,420–3,460*	3.77%	▲ 16 Dec 16
Wire rod (mesh)	3,380–3,400*	3.51%	▲ 16 Dec 16
Sections	3,350–3,380*	2.75%	▲ 16 Dec 16
Plate	3,650–3,690*	6.38%	▲ 16 Dec 16
Hot rolled coil (min 2mm)	3,940–3,980*	5.32%	▲ 16 Dec 16
Cold rolled coil (0.5 – 2 mm)	4,850–4,900*	4.28%	▲ 16 Dec 16
Hot-dip galvanized coil	5,300–5,350*	3.6%	▲ 16 Dec 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	3,040–3,040*	5.19%	▲ 16 Dec 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	3,840–3,880*	5.18%	▲ 16 Dec 16
Rebar	3,220–3,250*	6.77%	▲ 16 Dec 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	3,780–3,820*	13.94%	▲ 16 Dec 16
Wire rod (mesh)	3,480–3,500*	3.41%	▲ 16 Dec 16
Sections	3,750–3,780*	8.66%	▲ 16 Dec 16
Plate	3,860–3,900*	7.03%	▲ 16 Dec 16
Hot rolled coil (min 2mm)	4,000–4,020*	5.39%	▲ 16 Dec 16
Cold rolled coil (0.5 – 2 mm)	4,880–4,900*	3.38%	▲ 16 Dec 16
Hot-dip galvanized coil	5,400–5,450*	3.83%	▲ 16 Dec 16
Southeast Asia imports			
<i>Metal Bulletin's appraisal of prices in Southeast Asia for commercial-quality carbon steel & per tonne cfr</i>			
Billet	410–425*	3.73%	▲ 12 Dec 16
Slab (Asia/East Asia)	410–425*	3.73%	▲ 12 Dec 16
Hot rolled coil (Vietnam)	505–515*	3.03%	▲ 12 Dec 16
Rebar (Singapore)	435–440*	6.71%	▲ 12 Dec 16
Wire rod (low carbon)	435–450*	2.91%	▲ 12 Dec 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	375–380*	0%	09 Dec 16
Plate (12–40mm)	470–475*	16.67%	▲ 09 Dec 16
Hot rolled coil (commodity)	515–520*	4.02%	▲ 09 Dec 16
Hot-dip galvanized coil	730–740*	0%	09 Dec 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)	480–490*	1.04%	▲ 09 Dec 16
Hot rolled coil (commodity)	510–520*	1.98%	▲ 09 Dec 16
Hot rolled coil (CR grade)	510–520*	1.98%	▲ 09 Dec 16
Cold rolled	595–605*	0.42%	▲ 09 Dec 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	22,100–22,200*	0%	09 Dec 16
Heavy plate	35,000–35,500*	9.3%	▲ 09 Dec 16
Hot rolled coil	36,500–37,000*	8.89%	▲ 09 Dec 16
Cold rolled coil	40,500–41,000*	7.95%	▲ 09 Dec 16
DRI	14,000–14,100*	–0.71%	▼ 09 Dec 16
Hot-dip galvanized coil	47,000–47,500*	9.25%	▲ 09 Dec 16
Rebar	22,500–22,700*	–0.44%	▼ 09 Dec 16

STEELBENCHMARKER™ PRICES

Region: USA east of the Mississippi	Price	Change [†]	Assessed
Standard plate (\$/metric tonne)	666	6.05%	▲ 12 Dec 16
Standard plate (\$/short ton)	604	6.15%	▲ 12 Dec 16
Hot rolled coil (\$/metric tonne)	629	6.97%	▲ 14 Dec 16
Hot rolled coil (\$/short ton)	570	6.94%	▲ 12 Dec 16
Cold rolled coil (\$/metric tonne)	851	6.11%	▲ 14 Dec 16
Cold rolled coil (\$/short ton)	772	6.04%	▲ 12 Dec 16
Region: Mainland China			
Rebar	401	4.7%	▲ 14 Dec 16
Standard plate	427	3.39%	▲ 12 Dec 16
Hot rolled coil	453	4.38%	▲ 14 Dec 16
Cold rolled coil	561	2.75%	▲ 14 Dec 16
Region: World export market			
Hot rolled coil (\$/metric tonne)	490	2.73%	▲ 14 Dec 16

STAINLESS STEEL

	Price	Change [†]	Assessed
Asia import			
\$/tonne cif East Asian port			
Grade 304 2mm CR coil 2B	2,280–2,300*	5.77%	▲ 16 Dec 16
Grade 304 HR sheet	2,180–2,200*	3.55%	▲ 16 Dec 16
China domestic			
yuan/tonne, in-warehouse			
Grade 304 2mm CR coil	17,600–17,700*	4.44%	▲ 16 Dec 16
Grade 430 2mm CR coil	10,300–10,400*	2.99%	▲ 16 Dec 16
EU export			
€/tonne fob N. European port			
Min 100 tonne lot			
Grade 304 2mm CR sheet	2,259–2,326*	0%	16 Dec 16
EU domestic			
2mm 304 cold rolled stainless sheet, €/tonne			
N. Europe Base price	1,100–1,130*	0%	16 Dec 16
Alloy surcharge	1,159–1,196*	0%	16 Dec 16
2mm 316 cold rolled stainless sheet, €/tonne			
Base price	1,420–1,445*	0%	16 Dec 16
Alloy surcharge	1,605–1,683*	0%	16 Dec 16
304 stainless steel bright bar, €/tonne			
Base price	950–970*	0%	16 Dec 16
Alloy surcharge	1,360–1,494*	0%	16 Dec 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	94–94*	3.31%	▲ 08 Dec 16
Grade 316 coiled plate	126–126*	2.45%	▲ 08 Dec 16
Grade 304 cold rolled sheet	110–110*	2.8%	▲ 08 Dec 16
Grade 316L cold rolled sheet	144–144*	2.13%	▲ 08 Dec 16
Raw materials index			
EU domestic stainless steel \$ per tonne			
304 Europe raw materials index	1,278.01*	1.06%	▲ 12 Dec 16

continued >>

CHINA IRON ORE			
<i>cfr main China port \$ per dry metric tonne</i>			
	Price	Change [†]	Assessed
Iron ore index (62% Fe)	81.49*	-0.21%	▼ 16 Dec 16
Iron ore pellet index cfr Qingdao (65% Fe)	109.73*	-0.88%	▼ 16 Dec 16
Iron ore concentrate index cfr Qingdao (66% Fe)	102.12*	0.99%	▲ 16 Dec 16
Metal Bulletin Indicator for US\$/% Fe in iron ore fines cfr Qingdao	1.15*	26.37%	▲ 01 Dec 16

IRAN IRON ORE			
<i>cfr China US \$ per tonne</i>			
	Price	Change [†]	Assessed
Iron ore fines index (60% Fe)	74.67-74.67*	2.41%	▲ 14 Dec 16

COKING COAL			
<i>\$ per metric tonne</i>			
	Price	Change [†]	Assessed
Premium hard coking coal cfr China	262.75-262.75*	-6.44%	▼ 16 Dec 16
Hard coking coal cfr China	239.57-239.57*	-12.86%	▼ 16 Dec 16
Premium hard coking coal fob Australia	257.23-257.23*	-4.98%	▼ 16 Dec 16
Hard coking coal fob Australia	236.40-236.40*	-10.94%	▼ 16 Dec 16
China hard coking coal Shanxi spot market domestic delivered yuan/tonne	1,470-1,750*	-0.92%	▼ 16 Dec 16
65% CSR coke \$/tonne fob Tianjin	320-340*	-5.04%	▼ 13 Dec 16

FERROUS SCRAP			
	Price	Change [†]	Assessed

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

OA plate and structural	155-165*	6.67%	▲ 09 Dec 16
1&2 old steel	130-140*	8%	▲ 09 Dec 16
12A/C new production heavy and shovellable steel	152-162*	4.67%	▲ 09 Dec 16
12D new production heavy and shovellable steel	157-167*	4.52%	▲ 09 Dec 16

Bales and cuttings

4A new steel bales	157-167*	4.52%	▲ 09 Dec 16
4C new steel bales	152-162*	4.67%	▲ 09 Dec 16
8A new loose light cuttings	147-157*	4.83%	▲ 09 Dec 16
8B new loose light cuttings	132-142*	5.38%	▲ 09 Dec 16

Turnings

UK inter-merchant 7B heavy steel turnings	100-110*	5%	▲ 09 Dec 16
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Cast iron

9A/10 heavy and light cast iron	130-140*	3.85%	▲ 09 Dec 16
9B/C cylinder block scrap	150-160*	3.33%	▲ 09 Dec 16
11A cast iron borings	85-100*	5.71%	▲ 09 Dec 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	70-90*	0%	09 Dec 16
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UK ferrous scrap export

MB assessment \$ job main UK port

HMS 1&2 (80:20 mix)	257-259*	1.57%	▲ 16 Dec 16
Shredded	262-264*	1.54%	▲ 16 Dec 16

Indian imports

MB assessment \$/tonne cfr Nhava Sheva

MB index cfr India shredded	264.43*	-2.29%	▼ 09 Dec 16
HMS 1&2 (80:20 mix)	235-240*	1.06%	▲ 16 Dec 16

	Price	Change	Assessed
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Alloy steel scrap domestic

UK wholesale merchants' stainless (£/tonne)

18/8 solids	880-920*	0%	16 Dec 16
18/8 turnings	750-780*	0%	16 Dec 16
12-13% Cr solids	200-220*	23.53%	▲ 16 Dec 16
16-17% Cr solids	230-250*	14.29%	▲ 16 Dec 16

Cif Europe stainless € per tonne

18/8 solids	1,100-1,120*	1.83%	▲ 16 Dec 16
18/8 turnings	970-985*	-0.26%	▼ 16 Dec 16

Rotterdam export

MB assessment \$/tonne fob Rotterdam

MB index fob Rotterdam HMS 1&2 (80:20)	246.29*	-0.44%	▼ 09 Dec 16
HMS 1&2 (70:30 mix)	246-248*	1.65%	▲ 16 Dec 16
Shredded	257-263*	-1.14%	▼ 16 Dec 16

Turkish import

MB assessment \$/tonne cfr main Turkish ports

MB index cfr Turkey HMS 1&2 (80:20) (North Europe material)	275.18*	4.32%	▲ 15 Dec 16
MB index cfr Turkey HMS 1&2 (80:20) (United States material)	283.72*	3.9%	▲ 15 Dec 16
HMS 1&2 (75:25 mix)	263-265*	1.54%	▲ 16 Dec 16
Shredded	274-280*	-1.07%	▼ 16 Dec 16

Turkish domestic

MB assessment delivered

Melting scrap from shipbreaking (\$/tonne)	242.00-250.00*	-0.61%	▼ 12 Dec 16
Auto bundle scrap (Turkish lira/tonne)	750.00-800.00*	0%	12 Dec 16

USA export

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

HMS 1&2 (80:20)	260.50*	0%	14 Dec 16
Shredded	265.50*	0%	14 Dec 16

USA domestic

AMM Midwest index \$/gross ton delivered mill

No1 heavy melting scrap	249.95*	20.09%	▲ 12 Dec 16
No1 busheling	273.16*	18.82%	▲ 12 Dec 16
Shredded	271.03*	20%	▲ 12 Dec 16

China domestic

yuan/tonne delivered mill

Heavy scrap	1,680-1,740*	-0.87%	▼ 16 Dec 16
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Taiwan import

\$/tonne cfr main port

HMS 1&2 (80:20 mix) (USA material)	250-255*	1.41%	▲ 16 Dec 16
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Germany domestic

€/tonne composite sales price ex-yard, source: BDSV

No E2/8 (new steel scrap)	187.90	20.84%	▲ 01 Nov 16
No E1 (old steel scrap)	175.40	21.89%	▲ 01 Nov 16
No E3 (old thick steel scrap)	192.50	21.99%	▲ 01 Nov 16
No E40 (shredded steel scrap)	199.10	22.83%	▲ 01 Nov 16
No E5 (steel turnings)	153.40	26.36%	▲ 01 Nov 16

MB assessment €/tonne delivered at mill

Grade E40 (shredded steel scrap)	215-230	2.3%	▲ 16 Dec 16
No E8 (thin new production steel scrap)	210-230	2.33%	▲ 16 Dec 16
No E3 scrap	210-225	2.35%	▲ 16 Dec 16

Italy domestic

MB assessment €/tonne delivered at mill

No E3 (old thick scrap)	220.00	3.49%	▲ 15 Dec 16
No E8 (thin new production steel)	230.00	4.44%	▲ 15 Dec 16

[†] week-on-week change

continued >>

SCRAP SUBSTITUTES

	Price	Change [†]	Assessed
EU imports \$/tonne			
Pig iron imports cif Italy	300–330*	0%	15 Dec 16
Latin American exports \$/tonne, delivery terms as stated			
Hot briquetted iron Venezuela	205–225*	0%	16 Dec 16
Pig iron fob Vitoria/Rio	270–280*	0%	16 Dec 16
Pig iron fob Ponta da Maderia	295–300*	0%	16 Dec 16
US imports \$/tonne cfr Gulf of Mexico			
Pig iron	310–315*	0%	16 Dec 16
CIS exports \$/tonne fob main port			
Pig iron Baltic Sea	330–350*	–3.55%	▼ 15 Dec 16
Pig iron Black Sea	285–310*	0%	15 Dec 16
China domestic yuan/tonne delivered warehouse			
Pig iron	2,600–2,700*	5.58%	▲ 16 Dec 16

NON-FERROUS SCRAP EUROPE

	Price	Change [†]	Assessed
Aluminium			
European free market MB assessment €/tonne			
Floated frag	1,210–1,250*	0.82%	▲ 16 Dec 16
Cast	1,110–1,190*	0.88%	▲ 16 Dec 16
Mixed turnings 6%	1,020–1,070*	0.97%	▲ 16 Dec 16
Germany per 1000kg			
Pure cuttings	1,240–1,320	3.23%	▲ 14 Dec 16
Commercial cast	1,190–1,290	1.64%	▲ 14 Dec 16
H9 extrusions	1,560–1,660	1.26%	▲ 14 Dec 16
Alloy turnings	920–1,040	1.55%	▲ 14 Dec 16
Source: VDM			
France per 1000kg			
Pure cuttings	1,450–1,470	1.74%	▲ 13 Dec 16
Old rolled	720–750	3.52%	▲ 13 Dec 16
Commercial cast	850–880	1.76%	▲ 13 Dec 16
Source: Lettre d'Information Metaux			
Italy per 1000kg			
Pure cuttings	1,170–1,270	1.67%	▲ 07 Dec 16
Old mixed scrap	1,085–1,135	1.83%	▲ 07 Dec 16
Commercial cast	1,005–1,055	0.98%	▲ 07 Dec 16
Source: Assomet			
Copper			
Germany per 1000kg			
Copper wire (berry)	5,100–5,180	–1.53%	▼ 14 Dec 16
Heavy copper	4,730–4,860	–1.44%	▼ 14 Dec 16
Heavy brass	3,100–3,340	–3.01%	▼ 14 Dec 16
Brass turnings (MS 58)	3,430–3,650	–1.67%	▼ 14 Dec 16
Brass sheet (MS 63)	3,600–3,820	–1.33%	▼ 14 Dec 16
Source: Verein Deutscher Metallhändler			
France per 1000kg			
Electro cuttings	4,700–4,780	–1.96%	▼ 13 Dec 16
No 1 bright wire	4,600–4,650	–2.79%	▼ 13 Dec 16
Mixed (96%)	4,500–4,530	–0.22%	▼ 13 Dec 16
Brass plate cuttings 70/30	3,500–3,600	0%	13 Dec 16
Brass turnings	2,700–2,750	0%	13 Dec 16
Mixed brass	2,700–2,725	–0.46%	▼ 13 Dec 16
Source: Lettre d'Information Metaux			
Italy per 1000kg			
Electrolytic dd EN 12861–S–Cu–2	5,251–5,303	–0.99%	▼ 07 Dec 16
Enamelled wire EN 12861–S–Cu–3	5,089–5,141	–1.03%	▼ 07 Dec 16
New from tubes, strips etc EN 12861–S–Cu–4	5,210–5,262	–1%	▼ 07 Dec 16
Old from tubes, strips etc 12861–S–Cu–7	4,936–4,988	–1.06%	▼ 07 Dec 16

EN12861–S–Cu–Zn–1–A–Cu 63.5%	4,163–4,240	–1.29%	▼ 07 Dec 16
Mixed from valves/taps EN 12861–S–Cu–Zn–6	3,370–3,600	–0.29%	▼ 07 Dec 16
Several 95% m/m 12861–S–Cu–Zn–7	3,410–3,488	–1.57%	▼ 07 Dec 16
Source: Assomet			

STEELBENCHMARKER™ SCRAP PRICES

	Price	Change [†]	Assessed
Region: USA, east of the Mississippi			
Shredded scrap (\$/metric tonne)**	271	7.54%	▲ 12 Dec 16
Shredded scrap (\$/gross ton)**	276	7.81%	▲ 12 Dec 16
No 1 heavy melting scrap (\$/metric tonne)	242	13.62%	▲ 12 Dec 16
No 1 heavy melting scrap (\$/gross ton)	246	13.89%	▲ 12 Dec 16
No 1 busheling scrap (\$/metric tonne)	276	7.39%	▲ 12 Dec 16
No 1 busheling scrap (\$/gross ton)	280	7.28%	▲ 12 Dec 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*	0%	14 Dec 16
Commercial pure cuttings	1,015–1,085*	–1.41%	▼ 14 Dec 16
Clean HE9 extrusions	1,240–1,300*	0%	14 Dec 16
Loose old rolled cuttings	800–840*	0%	14 Dec 16
Baled old rolled	870–920*	0%	14 Dec 16
Commercial cast	920–960*	0%	14 Dec 16
Cast wheels	1,100–1,180*	–1.72%	▼ 14 Dec 16
Commercial turnings	650–700*	0%	14 Dec 16
Group 7 turnings	500–570*	0%	14 Dec 16
MB and LME aluminium scrap discounts			
£ per tonne			
Group 1 pure 99% & Litho	80–140*	22.22%	▲ 14 Dec 16
Commercial pure cuttings	295–365*	11.86%	▲ 14 Dec 16
Clean HE9 extrusions	80–140*	22.22%	▲ 14 Dec 16
Loose old rolled cuttings	394–434*	1.72%	▲ 14 Dec 16
Baled old rolled	314–364*	2.11%	▲ 14 Dec 16
Commercial cast	274–314*	2.44%	▲ 14 Dec 16
Cast wheels	54–134*	40.3%	▲ 14 Dec 16
Commercial turnings	534–584*	1.27%	▲ 14 Dec 16
Group 7 turnings	664–734*	1.01%	▲ 14 Dec 16

Titanium			
\$/lb cif			
Turnings, unprocessed type 90/6/4 (0.5% Sn max)	0.55–0.60*	0%	14 Dec 16
Turnings, unprocessed 90/6/4 (over 0.5% max 2% Sn)	0.30–0.35*	0%	14 Dec 16
Copper scrap discount			
cents/lb			
No 2 copper (birch/cliff) imported into China 94–96% cif China	27–30*	29.55%	▲ 28 Nov 16

† week-on-week change

continued >>

NON-FERROUS FOUNDRY INGOTS

	Price	Change [†]	Assessed
Aluminium UK £/tonne			
MB free market			
LM24 pressure diecasting ingot	1,420–1,490*	0.69% ▲	14 Dec 16
LM6/LM25 gravity diecasting ingot	1,630–1,700*	1.22% ▲	14 Dec 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	1,595–1,715*	2.8% ▲	16 Dec 16
Aluminum US \$/lb delivered Midwest			
A380.1 alloy	0.83–0.84*	0%	15 Dec 16
AFFIMET €/tonne			
AS12	3,600	5.88% ▲	01 Dec 16
AS12 UN	2,805	1.45% ▲	01 Dec 16
AS9 U3	2,180	1.87% ▲	01 Dec 16
AS5 U3	2,530	1.61% ▲	01 Dec 16
Reflects generally larger traded lots			
VDM €/1000 kg delivered			
DIN 226	2,230–2,330	1.33% ▲	14 Dec 16
DIN 231	2,310–2,410	1.29% ▲	14 Dec 16
DIN 311	2,290–2,390	1.3% ▲	14 Dec 16
Aluminium bronze £/tonne UK			
AB1 ex-works	4,750	0%	13 Dec 16
AB2 ex-works	4,850	0%	13 Dec 16
Source: C. F. Booth Ltd			
Brass UK £/tonne			
SCB3 ex-works	3,800	0%	13 Dec 16
High tensile HTB1 ex-works	3,900	0%	13 Dec 16
Source: C. F. Booth Ltd			
Gunmetal UK £/tonne			
LG2 85/5/5/5 ex-works	4,650	0%	13 Dec 16
LG4 87/7/3/3 ex-works	5,250	0%	13 Dec 16
G11.15 PB ex-works	6,200	0%	13 Dec 16
Source: C. F. Booth Ltd			
Phosphor bronze UK £/tonne			
PB1 ex-works	6,850	0%	13 Dec 16
Source: C. F. Booth Ltd			
Phosphor copper £/tonne			
10% P ex-works	6,350	0%	13 Dec 16
15% P ex-works	6,450	0%	13 Dec 16
Source: C. F. Booth Ltd			
Zinc alloys UK £/tonne			
Brock Metal Co contract alloy price (delivered UK)			
Brock Metal ZL3	2,727	7.32% ▲	01 Dec 16
Brock Metal ZL5	2,753	7.41% ▲	01 Dec 16

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Monthly averages: November

BASE METALS

	Low	High
Aluminium		
Aluminium P1020A, in-warehouse Rotterdam duty unpaid, spot \$/tonne		
Rotterdam premium	71.36	85.00
Aluminium P1020A, in-warehouse Rotterdam duty paid, spot \$/tonne		
H/G Cash \$/tonne	125.56	143.33
Alumina		
Index fob Australia	307.38	
Copper		
US High-grade cathode premium indicator, \$/tonne	115.74	126.77
Nickel		
Free market in-warehouse premium		
Europe \$/tonne uncut cathodes	56.00	90.00
4x4 cathodes	150.00	250.00
briquettes	92.00	155.00
US Melting \$/lb	0.15	0.21
Tin		
European free market		
Spot Premium 99.9% \$/tonne	375.00	495.00
Spot premium 99.85% \$/tonne	325.00	357.50
Kuala Lumpur (ex-smelter) \$/tonne	20,996.36	

MINOR METALS

Antimony		
MB free market		
Regulus 99.65%, max Se 50ppm, \$/tonne in-warehouse	7,333.33	7,561.11
MMTA Standard grade II \$/tonne	7,288.89	7,522.22
Bismuth		
MB free market		
min. 99.99%, \$/lb, tonne lots in-warehouse	4.47	4.79
Cadmium		
MB free market		
min 99.95%, cents/lb in-warehouse	61.11	67.44
min 99.99%, cents/lb in-warehouse	63.56	72.33
Cobalt		
MB free market		
High grade, \$/lb in-warehouse	13.45	14.07
Low grade, \$/lb in-warehouse	13.10	13.74
Germanium dioxide		
MB free market min 99.99%, \$/kg	610.00	710.00
Rotterdam \$/kg	850.00	1,000.00
Indium		
MB free market		
ingots min 99.97%, \$/kg in-warehouse	196.67	241.67
Magnesium		
MB free market		
min 99.8%, \$/tonne	2,350.00	2,492.50
China free market min 99.8%	2,444.00	2,468.00

	Low	High
Mercury		
MB free market		
min 99.99%, \$/flask in-warehouse	995.00	1,262.50
Selenium		
MB free market		
min 99.5% in-warehouse \$/lb	7.78	9.28
Silicon		
MB free market €/tonne	1,648.75	1,755.00
Titanium		
Ferro-titanium		
70% (max 4.5% Al), \$/kg d/d Europe	3.01	3.26

ORES & ALLOYS

	Low	High
Molybdenum		
Free market in-warehouse Europe		
drummed molybdic oxide \$/lb Mo	6.59	6.77
US canned molybdic oxide \$/lb Mo	6.75	6.95
Ferro-molybdenum		
basis 65% min, in-warehouse		
Rotterdam, \$/kg Mo	16.68	17.13
Tungsten		
European free market APT \$/mtu	195.50	202.25
Ferro-tungsten		
basis 75% W min	26.09	26.48
Vanadium		
min 98%, in-warehouse Rotterdam, \$/lb V2O5	4.69	4.88
Ferro-vanadium		
basis 78% min, free delivery duty		
paid consumer plant, 1st grade Western		
Europe \$/kg V	22.91	23.82
US Free market 70–80%	10.58	11.38

PRECIOUS METALS

Gold		
London \$/troy oz	Morning	1,240.29
	Afternoon	1,235.98
London £/troy oz	Morning	998.06
	Afternoon	994.66
\$/troy oz	Handy/Harman	1,238.35
Palladium		
Morning \$/troy oz		693.41
Afternoon \$/troy oz		697.41
Platinum		
Morning \$/troy oz		954.64
Afternoon \$/troy oz		953.27
Rhodium		
European free market		
min 99.9% in-warehouse, \$/troy oz		721.82 821.82
Silver		
London		
spot pence/troy oz		1,400.66
spot cents/troy oz		1,741.55
Handy/Harman cents/troy oz		1,740.74

FOUNDRY INGOTS

	Low	High
Aluminium		
LM24	1,402.00	1,466.00
LM6/LM25	1,616.00	1,666.00
Aluminium Europe €/tonne	1,520.00	1,612.50
Phosphor bronze		
PB1 ex-works £/tonne	6,440.00	
Zinc alloy		
10 tonne lots ZL3 £/tonne	2,541.00	

EXCHANGE RATES (CLOSING RATES)

\$/£	1.24
\$/yen	108.56
\$/€	1.08

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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 November (22 days)
LME averages are mean of buyers and sellers except for settlement and 3 months sellers.

	January–November 2016		November
	Low	High	average
	\$	\$	\$
Aluminium (\$)			
Cash	1,452.50	1,776.75	1,734.86
3 months	1,451.25	1,778.50	1,733.65
Settlement	1,453.00	1,777.00	1,735.30
3 months seller	1,451.50	1,779.00	1,734.02
Copper Grade A (\$)			
Cash	4,310.25	5,935.25	5,442.73
3 months	4,320.25	5,947.50	5,455.38
Settlement	4,310.50	5,935.50	5,443.25
3 months seller	4,320.50	5,950.00	5,456.48
Copper Grade A (£)			
Settlement	3,005.51	4,789.40	4,377.91
3 months seller	3,012.06	4,789.89	4,378.82
Lead (\$)			
Cash	1,596.50	2,465.75	2,178.38
3 months	1,597.50	2,474.75	2,191.80
Settlement	1,597.00	2,466.00	2,178.84
3 months seller	1,598.00	2,475.00	2,192.45
Lead (£)			
Settlement	1,098.84	1,989.83	1,752.62
3 months seller	1,100.75	1,990.02	1,759.66
Nickel (\$)			
Cash	7,705.00	11,732.50	11,139.77
3 months	7,737.50	11,765.00	11,184.55
Settlement	7,710.00	11,735.00	11,142.95
3 months seller	7,750.00	11,770.00	11,190.68
Tin (\$)			
Cash	13,225.00	21,942.50	21,228.07
3 months	13,212.50	21,747.50	21,012.39
Settlement	13,235.00	21,945.00	21,235.00
3 months seller	13,225.00	21,750.00	21,027.05

	January–November 2016		November
	Low	High	average
	\$	\$	\$
Zinc (\$)			
Cash	1,453.25	2,906.50	2,568.41
3 months	1,466.50	2,910.50	2,581.53
Settlement	1,453.50	2,907.00	2,568.84
3 months seller	1,467.00	2,911.00	2,582.20
Cobalt (\$)			
Cash	21,702.50	30,000.00	29,293.18
3 months	21,800.00	30,000.00	29,250.00
Settlement	21,705.00	30,250.00	29,486.36
3 months seller	21,850.00	30,250.00	29,495.45
Molybdenum (\$)			
Cash	11,500.00	16,750.00	15,000.00
3 months	11,500.00	16,750.00	15,000.00
Settlement	11,750.00	17,000.00	15,250.00
3 months seller	11,750.00	17,000.00	15,250.00
Aluminium Alloy (\$)			
Cash	1,492.50	1,610.00	1,551.73
3 months	1,522.50	1,625.00	1,567.50
Settlement	1,495.00	1,615.00	1,556.41
3 months seller	1,525.00	1,630.00	1,572.27
Nasaa (\$)			
Cash	1,650.00	1,767.50	1,709.23
3 months	1,667.50	1,785.00	1,724.31
Settlement	1,651.00	1,770.00	1,711.20
3 months seller	1,670.00	1,790.00	1,727.93
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

\$/£	1.24
\$/yen	108.34
\$/€	1.08