

Prices

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NEW YORK FUTURES			
	Price	Change [†]	Assessed
Comex: Copper high grade cents/lb			
Settlement	268.65	-2.61%	▼ 23 May 19
Open interest	270,812	5.37%	▲ 22 May 19
Stocks (short ton)	31,803	-1.28%	▼ 22 May 19
Comex: Gold \$/troy oz			
Settlement	1,284.80	-0.02%	▼ 23 May 19
Open interest	514,515	-1.88%	▼ 22 May 19
Stocks (troy oz)	7,687,411	-0.19%	▼ 22 May 19
Nymex: Palladium \$/troy oz			
Settlement	1,307.80	-1.28%	▼ 23 May 19
Stocks (troy oz)	42,182	-0.48%	▼ 22 May 19
Nymex: Platinum \$/troy oz			
Settlement	799.5	-4.09%	▼ 23 May 19
Stocks (troy oz)	175,095	-0.06%	▼ 22 May 19
Comex: Silver cents/troy oz			
Settlement	1,457.70	0.68%	▲ 23 May 19
Open interest	210,796	3.17%	▲ 22 May 19
SHANGHAIFUTURES	Price	Change [†]	Assessed
Aluminium yuan/tonne	14,240	•	▼ 24 May 19
Copper yuan/tonne	47,130		▼ 24 May 19
Nickel cathode yuan/tonne	99,890		▲ 24 May 19
Tin ingot yuan/tonne	140,610		▼ 24 May 19
Zinc yuan/tonne	20,745		▼ 24 May 19
Steel rebar month 1 yuan/tonne	3,963		▲ 24 May 19
Steel rebar month 2 yuan/tonne	3,969		▼ 24 May 19
Steel rebar month 3 yuan/tonne	4,037		▲ 24 May 19
Weekly stocks deliverable	,	•	
Aluminium (tonnes)	539,202	-5.26%	▼ 24 May 19
Copper (tonnes)	172,266		▼ 24 May 19
, ,	9,098		▲ 24 May 19
Nickel cathode (tonnes)		-0.91%	▼ 24 May 19
Nickel cathode (tonnes) Tin ingot (tonnes)	8,264	0.0170	
	8,264 56,320		▼ 24 May 19

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	1,761-1,761.5	-2.41%	▼ 24 May 19
Cash unofficial	1,748.5-1,750.5	-4.84%	▼ 23 May 19
3 months official	1,793-1,795	-2.21%	▼ 24 May 19
3 months unofficial	1,780-1,782	-4.66%	▼ 23 May 19
LME Tapo notional average price (NAP)	1,778.41	-0.24%	▼ 23 May 19
LME stocks (tonnes)	1,208,900	-2.51%	▼ 23 May 19
Aluminium alloy (A380.1/DIN/D12S) \$			
LME cash official	1,280-1,300	-3.73%	▼ 24 May 19
LME cash unofficial	1,299.5-1,309.5	-3.73%	▼ 23 May 19
LME 3 months official	1,259-1,261	-7.01%	▼ 24 May 19
LME 3 months unofficial	1,220-1,230	-9.59%	▼ 23 May 19
LME stocks (tonnes)	6,800	-6.85%	▼ 23 May 19

	Price	Change		Assessed
N. American special aluminium alloy				
LME cash official	1,130-1,131	-1.65%	▼	24 May 19
LME cash unofficial	1,148-1,168	-1.28%	▼	23 May 19
LME 3 months official	1,170-1,190	0.43%	A	24 May 19
LME 3 months unofficial	1,170-1,190	-1.26%		23 May 19
LME stocks (tonnes)	106,760	-2.87%		23 May 19
Copper grade A \$				
LME cash official	5,918.5-5,919	-1.72%	▼	24 May 19
LME cash unofficial	5,867.5-5,872.5	-3.62%	▼	23 May 19
LME 3 months official	5,945-5,950	-1.59%	▼	24 May 19
LME 3 months unofficial	5,900-5,905	-3.55%	•	23 May 19
LME Tapo notional average price (NAP)	6,078.19	-0.88%	▼	23 May 19
LME stocks (tonnes)	185,825	-2.48%	▼	23 May 19
Lead\$				
LME cash official	1,816-1,816.5	0.43%	•	24 May 19
LME cash unofficial	1,777.5-1,779.5	-2.47%	▼	23 May 19
LME 3 months official	1,828-1,830	0.3%	A	24 May 19
LME 3 months unofficial	1,791-1,793	-2.45%	▼	23 May 19
LME stocks (tonnes)	72,475	-1.26%	▼	23 May 19
Nickel\$				
LME cash official	12,150-12,155	1.08%	•	24 May 19
LME cash unofficial	11,830-11,855	-2.95%		23 May 19
LME 3 months official	12,175-12,200	1.1%	•	24 May 19
LME 3 months unofficial	11,825-11,850	-2.87%	_	23 May 19
LME stocks (tonnes)	164,058	-0.21%	T	23 May 19
Tin \$,		•	
LME cash official	19,525-19,530	-0.38%	▼	24 May 19
LME cash unofficial	19,600-19,650	-0.38%	Ť	23 May 19
LME 3 months official	19,240-19,245	-1.13%	Ť	24 May 19
LME 3 months unofficial	19,300-19,350	-1.02%	Ť	23 May 19
LME stocks (tonnes)	1,585	4.62%		23 May 19
	1,505	7.0270		ZO Way 13
Zinc special high grade \$ LME cash official	2 702 2 705	1 760/	_	24 May 10
LME cash unofficial	2,703-2,705	-1.76% -3.82%	*	24 May 19 23 May 19
LME 3 months official	2,545-2,545.5	-2.35%	Ť	24 May 19
LME 3 months unofficial	2,543-2,543.3	-4.29%	Ť	
	,, ,, ,,	-4.29%	Ť	23 May 19
LME stocks (tonnes)	102,600	-2.50 /0		23 May 19
Cobalt min 99.3%	22 222 24 222	0.00/	_	0414: 40
LME cash official	33,000-34,000	-2.9%	<u> </u>	24 May 19
LME 3 months official	33,000-34,000	-2.9%		24 May 19
LME stocks (tonnes)	892	-0.11%		23 May 19
Gold \$/troy oz				
London morning	1,275.95	-1.51%		23 May 19
London afternoon	1,283.65	-0.62%	•	23 May 19
Handy/Harman	1,283.65	-0.62%		23 May 19
Silver per troy oz				
London spot pence	1,145	-0.78%	▼	23 May 19
London spot cents	1,448	-2.13%	▼	23 May 19
Handy/Harman	1,465.40	0.65%	A	23 May 19
Palladium \$/troy oz				
London morning	1,311	-1.94%	▼	23 May 19
London afternoon	1,311	-1.8%	▼	23 May 19
Platinum \$/troy oz				
London morning	800	-5.66%	▼	23 May 19
London afternoon	798	-5.23%	▼	23 May 19
† week-on-week change			col	ntinued >





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	Price	Change		Assessed	MB BASE METAL PREMIUMS				
Kuala Lumpur tin market					All prices \$/tonne unless otherwise stated				
Tin \$/tonne	19,400	-0.61%	▼	24 May 19	*MB Copyright				
ICDX					1,7 0	Price	Change [†]		Assessed
Tin PB300 settlement price \$/tonne	19,300	-0.34%	▼	23 May 19	Copper		go		7.000000
Tin PB300 volume, tonnes	94	18.99%	A	23 May 19	Annual premium 8mm wire rod, cif				
					Nhava Sheva, \$/tonne	130-175*	-12.86%	▼	07 Sep 18
RAND FIXING PRICES					Rotterdam, Grade A, cathode, cif,	00.0.50.04	201		0414 40
Rand fixing prices per tonne for London Metal I	Exchange trade				\$/tonne	38.0-50.0*	0%		21 May 19
	Price	Change [†]		Assessed	Germany, Grade A, cathode, delivered, \$/tonne	80.0-95.0*	0%		21 May 19
Copper	85,676.34	-0.85%	•	24 May 19	North European warrants, Grade A				.,
Aluminium	25,497.36	-1.51%	•	24 May 19	cathode, in-warehouse, \$/tonne	5.0-10.0*	-50%	▼	22 May 19
Lead	26,293.47	1.34%	A	24 May 19	South European warrants, Grade A			_	
Zinc	39,154.33	-0.91%	•	24 May 19	cathode, in-warehouse, \$/tonne	5.0-10.0*	-50%	V	22 May 19
Nickel	175,941.19	2.01%		24 May 19	Leghorn, copper low-high premium, Grade A, cathode, cif, \$/tonne	50.0-60.0*	0%		21 May 19
Tin	282,692.84	0.43%		24 May 19	Japan, copper, Grade A, cathode,	00.0 00.0	070		21 may 10
					cif, \$/tonne	60.0-70.0*	0%		21 May 19
EXCHANGE RATES					South Korea, copper low-high				
	Price	Change [†]		Assessed	premium, Grade A, cathode, cif, \$/tonne	40.0-60.0*	0%		21 May 19
LME settlement conversion rates					Southeast Asian warrants, Grade A cathode, in-warehouse, \$/tonne	5.0-10.0*	-50%	•	22 May 19
\$/£	1.2658	-0.64%	▼	24 May 19	East Asian warrants, Grade A	0.0-10.0	-50 /0	•	ZZ Way 13
\$/¥	109.6300	0.05%	A	24 May 19	cathode, in-warehouse, \$ per tonne	5.0-10.0*	-50%	▼	22 May 19
\$/€	1.1183	0.13%	A	24 May 19	Southeast Asia, Grade A cathode,				
Closing rates, midpoint					cif, \$ per tonne	55.0-65.0*	0%		21 May 19
\$/£	1.2669	-0.95%	▼	23 May 19	Shanghai, copper low-high premium, Grade A, cathode, in-warehouse, \$/tonne	45.0-63.0*	5.88%		24 May 19
\$/¥	109.7300	-0.19%	▼	23 May 19	Shanghai, copper low-high premium,	45.0-05.0	3.00 /6	_	24 Way 19
\$/€	1.1150	-0.26%	▼	23 May 19	Grade A, cathode, cif, \$/tonne	45.0-63.0*	8%	A	24 May 19
£/€	1.1362	-0.7%	▼	23 May 19	Shanghai, copper cif ER, premium,				<u> </u>
\$/CNY	6.9185	0.53%	A	23 May 19	Grade A, cathode, \$/tonne	50.0-63.0*	7.62%	<u> </u>	24 May 19
					Shanghai, copper cif SX-EW, premium,	45.0.50.0*	44.700/		0414 40
BASE METALS ARBITRAGE					Grade A, cathode, \$/tonne	45.0-50.0*	11.76%	<u> </u>	24 May 19
	Price	Change [†]		Assessed	Shanghai, copper bonded in-warehouse, SX-EW, premium, Grade A, cathode, \$/tonne	45.0-50.0*	11.76%		24 May 19
Aluminium	11100	Onlingo		710000000	Shanghai, copper bonded in-warehouse,				
Import arbitrage, \$/tonne	-117.01*	-29.94%	•	24 May 19	ER, premium, Grade A, cathode, \$/tonne	50.0-63.0*	5.61%	A	24 May 19
Import arbitrage, yuan/tonne	-809.82*	-29.94%	Ť	24 May 19	Taiwan, Grade A cathode, cif, \$ per tonne	47.0-65.0*	0%		21 May 19
Importarbitrage, cfr Owensboro-	-003.02	-23.34 /0		24 May 13	United States warrants, Grade A cathode,		•••		
origin LME Warehouses, Busan, \$/tonne	264.60*	-0.47%	▼	01 May 19	\$/tonne	5.0-15.0*	0%		22 May 19
Import arbitrage, cfr Owensboro -					Copper Cathode, Grade 1 premium, Delivered Domestic US, US cents/pound	7.5-8.0*	0%		21 May 19
origin LME Warehouses, Johor, \$/tonne	270.73*	-0.84%	•	01 May 19	Copper Cathode, Grade 1 premium,	1.0 0.0	070		Z i May 10
Import arbitrage, cfr Owensboro - origin LME Warehouses, Port Klang, \$/tonne	270.72*	-0.84%	_	01 May 10	Delivered Domestic US, \$/tonne	165.3-176.4*	0%		21 May 19
Import arbitrage, cfr Owensboro-	270.73*	-0.04%	_	01 May 19	Aluminium				
origin LME Warehouses, Singapore, \$/tonne	255.64*	-0.98%	▼	01 May 19	Aluminium P1020A, in-warehouse				
Copper				,	Rotterdam duty-unpaid, spot low-high,	00.0.05.0*	E 710/		24 May 10
Import arbitrage, \$/tonne	-19.59*	-34.79%	▼	24 May 19	\$/tonne	90.0-95.0*	5.71%	<u> </u>	24 May 19
Import arbitrage, yuan/tonne	-135.62*	-34.77%	▼	24 May 19	Aluminium P1020A, cif main Korea ports, spot low-high, \$/tonne	100-110*	0%		21 May 19
Nickel					Aluminium P1020A, Southeast Asian				
Import arbitrage, \$/tonne	150.60*	138.93%	•	24 May 19	warrants, in-warehouse, \$/tonne	10.0-20.0*	0%		22 May 19
Import arbitrage, yuan/tonne	1,042.36*	138.97%	_	24 May 19	Aluminium P1020A, East Asian				
Zinc	.,				warrants, in-warehouse, \$/tonne	10.0-20.0*	0%		22 May 19
Import arbitrage, \$/tonne	-62.35*	-10.75%	•	24 May 19	Aluminium P1020A, cif Shanghai, spot low-high, \$/tonne	95.0-105.0*	0%		21 May 19
Import arbitrage, yuan/tonne	-431.57*	-10.73%	T	24 May 19	Aluminium P1020A, South Korea, fca,	00.0 100.0	070		Z i May 10
porta.bisago, jaanreinio	101.01	10.1070		21	\$/tonne	120.0-130.0*	0%		21 May 19
					Aluminium P1020A, Shanghai,				
					in-warehouse, \$/tonne	95.0-105.0*	0%		21 May 19
					Aluminium P1020A, Taiwan, cif,	100 0 110 0*	00/		21 Mov 10
					\$/tonne Aluminium P1020A, Italy, fca	100.0-110.0*	0%		21 May 19
					duty-paid, spot, \$/tonne	165.0-180.0*	1.47%	A	21 May 19
					Aluminium P1020A, Spain, fca				
					duty-paid, \$/tonne	160.0-180.0*	0%		21 May 19

 \dagger week-on-week change



	Price	Change	Assesse
Aluminium P1020A, Turkey, cif duty-unpaid, \$/tonne	80.0-90.0*	0%	21 May 1
Aluminium ingot ADC 12 ex-works China, duty-paid, yuan/tonne	13,500-13,700*	-1.81% V	22 May 1
Aluminium ingot ADC 12 spot, main Japanese ports, \$/tonne	1,600-1,620*	-3.59% V	7 22 May 1
Aluminium P1020A, cif main Japanese ports, spot low-high, \$/tonne	90.0-105.0*	-2.5% V	7 24 May 1
Aluminium P1020A, cif main Japanese ports, quarterly, \$/tonne	105.0-105.0*	25%	▲ 25 Mar 1
Aluminium P1020A, in-warehouse Rotterdam duty-paid, spot \$/tonne	145.0-150.0*	1.72%	24 May 1
Aluminium 6063 extrusion billet, in-warehouse Rotterdam duty-paid, spot, \$/tonne	340.0-360.0*	-1.41% V	7 24 May 1
Aluminium P1020A, free market delivered, cents per pound	97.80-98.30*	-4.18% V	7 23 May 1
Aluminium P1020A, duty paid premium, delivered Midwest, cents per pound	18.5-19*	-1.32% V	24 May 1
Aluminium P1020A, cif Baltimore premium, US cents/lb	5.5-5.75*	0%	21 May 1
Aluminium P1020A, US warrants, n-warehouse, \$/tonne	115.0-125.0*	0%	22 May 1
Aluminium P1020A, delivered Sao Paulo region, spot, \$/tonne	220.0-240.0*	0%	21 May 1
Aluminium P1020A, cif Brazilian main ports duty-unpaid, spot, \$/tonne	160.0-170.0*	-2.94% V	7 21 May 1
Aluminium 6063 + 6060 extrusion pillet, cif Brazilian main ports, spot premium over LME cash), \$/tonne	320.0-340.0*	1.54%	▲ 24 May 1
Aluminium billet, delivered duty-paid North Germany (Ruhr region) over .ME 30-day pay, \$/gross tonne	380.0-400.0*	-1.27% \	24 May
Aluminium billet, delivered duty-paid Italy (Brescia area) over LME 50-day pay, \$/gross tonne	360.0-390.0*	-3.23% V	7 24 May 1
Aluminium billet, delivered duty-paid Spain over LME 60-day pay, \$/gross tonne	360.0-380.0*	-5.13% V	24 May 2
Aluminium billet, cif Thailand duty-unpaid over LME cash pay, \$/gross tonne	190.0-210.0*	0%	10 May 1
Aluminium billet, cif Japan duty-unpaid over MJP and LME cash pay, \$/gross tonne	140.0-155.0*	0%	18 Apr 1
Aluminium billet, cif Turkey (Marmara region) duty-unpaid over LME cash pay, \$/gross tonne	270.0-300.0*	0%	24 May
Aluminium foundry alloy premium, delivered duty-paid, Germany, \$/tonne	340.0-360.0*	0%	10 May 1
Aluminium foundry alloy premium, delivered duty-paid, Eastern Europe, \$/tonne	360.0-380.0*	0%	10 May 1
Aluminium foundry alloy premium, delivered duty-unpaid, US midwest, \$/tonne	12.0-15.0*	-6.9% ▼	1 0 May ²
Aluminium foundry alloy premium, delivered duty-paid cif Turkey, \$/tonne	170.0-180.0*	0%	10 May 1
Annual aluminium wheel alloy silicon 7 ingot cif main Japanese ports (Yokohama, Osaka, Nagoya) \$/tonne	120.0-140.0*	15.56%	▲ 11 Jan ⁻
Annual aluminium wheel alloy silicon 7 ingot cif main South Korean ports (Busan, Gwangyang, Incheon) \$/tonne	95.0-125.0*	22.22%	1 1 Jan ⁴
Lead			
North European warrants, min 99.97% ngots, in-warehouse, \$/tonne	10.0-15.0*	0%	22 May 1
Southeast Asian warrants, min 99.97% ngots, in-warehouse, \$/tonne	10.0-20.0*	0%	22 May 1
East Asian warrants, min 99.97% ngots, in-warehouse, \$/tonne	10.0-20.0*	0%	22 May 1
Southeast Asia, min 99.97% cif, 5/tonne	70.0-80.0*	0%	21 May 1
Southeast Asia, 99.99% cif, \$/tonne	120.0-140.0*	0%	21 May 1
Taiwan, 99.97% purity, cif, \$/tonne	60.0-90.0*	0%	21 May 1
Taiwan, 99.99% purity, cif, \$/tonne	135.0-145.0*	0%	21 May 1

	Price	Change	Assessed
India, 99.97% purity, cif, \$/tonne	70.0-95.0*	-10.81%	▼ 21 May 19
India, 99.99% purity, cif, \$/tonne	130.0-150.0*	0%	21 May 19
South European warrants, 99.97% purity, in-warehouse, \$/tonne	10.0-15.0*	0%	22 May 19
US warrants, 99.97% purity, in-warehouse, \$/tonne	20.0-30.0*	0%	22 May 19
US lead premium 99.97%, delivered domestic, cents/lb	9-11*	0%	21 May 19
US lead premium 99.99%, delivered domestic, cents/lb	11-13*	0%	21 May 19
Nickel			
Shanghai, nickel low-high premium, 99.8% purity in-warehouse, \$/tonne	220.0-250.0*	0%	21 May 19
Shanghai, nickel low-high premium, 99.8% purity, full plate, cif, \$/tonne	220.0-240.0*	0%	21 May 19
Shanghai, nickel premium, 99.80%			
purity, briquette, duty-free, cif, \$/tonne	240.0-270.0*	0%	30 Apr 19
Southeast Asian warrants, min 99.80% full plates, in-warehouse, \$/tonne	150-200*	29.63%	▲ 22 May 19
Southeast Asian warrants, min 99.80% briquettes, in-warehouse, \$/tonne	10-15*	0%	22 May 19
East Asian warrants, min 99.80% full	450.000*	00.000/	A 00M 40
plates, in-warehouse, \$/tonne East Asian warrants, min 99.80%	150-200*	29.63%	▲ 22 May 19
briquettes, in-warehouse, \$/tonne	10-15*	0%	22 May 19
North European warrants, min 99.80%, in-warehouse, \$/tonne	80-120*	-20%	▼ 22 May 19
uncut cathodes premium indicator	200.0-220.0*	0%	21 May 19
4x4 cathodes premium indicator	440.0-480.0*	-2.13%	▼ 21 May 19
briquettes premium indicator	200.0-250.0*	11.11%	▲ 21 May 19
Nickel 4x4 cathode premium, delivered			
consumer works US, US cents per pound	37-45*	0%	21 May 19
Nickel briquette premium, delivered consumer works US, US cents per pound	23-27*	-3.85%	▼ 21 May 19
Tin			
Rotterdam spot premium, 99.9% low lead ingots, in-warehouse \$/tonne	475-525*	0%	21 May 19
Rotterdam spot premium 99.9% ingot, in-warehouse \$/tonne	410-450*	0%	21 May 19
South East Asian warrants, min	20-100*	166.67%	▲ 22 May 19
99.85% ingots, in-warehouse \$/tonne Shanghai spot premium, 99.9% ingots,			,
cif, \$/tonne Shanghai spot premium, 99.9% low	230-250*	0%	21 May 19
lead ingots, cif, \$/tonne	320-350*	0%	21 May 19
Taiwan spot premium, 99.9% ingots, cif, \$/tonne	200-220*	0%	21 May 19
Baltimore premium, 99.85% ASTM grade Aingots, in-warehouse \$/tonne	450-600*	0%	21 May 19
US midwest premium, 99.85% ASTM grade Aingots, delivered \$/tonne	515-640*	0%	21 May 19
Zinc			
North European warrants, min 99.995% SHG ingots, \$/tonne	20.0-30.0*	0%	22 May 19
MB EU: Special high grade, fca			
Rotterdam, \$/tonne	90.0-105.0*	5.41%	▲ 21 May 19
Malaysia fca, 99.995%, \$/tonne	120.0-140.0*	0%	21 May 19
Southeast Asia cif, 99.995%, \$/tonne Singapore, zinc premium, 99.995%	150.0-160.0*	0%	21 May 19
purity, fca \$/tonne	120.0-140.0*	0%	21 May 19
Shanghai, zinc low-high premium, 99.995% purity, in-warehouse, \$/tonne	110.0-120.0*	-8%	▼ 21 May 19
Shanghai 99.995% purity, cif \$/tonne	100.0-110.0*	-8.7%	▼ 21 May 19
Taiwan 99.995% purity SHG ingots,			
cif \$/tonne India 99.995% purity, cif duty-unpaid	150.0-160.0*	0%	21 May 19
\$/tonne	130.0-145.0*	0%	21 May 19
†week-on-week change			continued>





India 99.995% purity, citdy-paid foa Shonne 90.0-105.0° 5.41%		Price	Change	Assessed
Italy 99 995% purity, duty-paid feas Stronne		235.0-250.0*	0%	21 May 19
Storne 135.0-145.0" 0% 21 May 19 Italy 99 995% purity, delivered 185.0-190.0" 0% 22 May 19 US warrants 99.995% purity, in-warehouse \$itone 5.0-10.0" 0% 22 May 19 US warrants 99.995% purity 5.0-10.0" 0% 22 May 19 US warrants 99.995% purity 70		90.0-105.0*	5.41%	▲ 21 May 19
Us warrants 99.995% punity, in-warehouse \$/tonne 5.0-19.0° 0% 22 May 19		135.0-145.0*	0%	21 May 19
In-warehouse \$\text{\$\text{Index}\$} \ \text{Index}\$ S.0-10.0" 0% 21 May 19	duty-paid \$/tonne	185.0-190.0*	0%	21 May 19
MB US: Special high grade, cents/lib 8.50-9.50° 0% 21 May 19		5.0-10.0*	0%	22 May 19
Alumina MB Chinese free market, metallurgical grade, delivered duty-paid, yuan/tonne 3.050.0-3,200.0* 2.63% ▲ 23 May 19 Alumina Index fob Darazil 1.29*				
Alumina MB Chinese free market, metallurgical grade, delivered duty-paid, yuan/tonne 3.050.0-3,200.0* 2.63% ▲ 23 May 19 Alumina Index fob Darazil 1.29*				
Alumina MB Chinese free market, metallurgical grade, delivered duty-paid, yuan/lonne Alumina Index fob Australia Alumina Index fob Brazil Alumina Index fob Brazil Alumina Index fob Brazil, inferred Brazil price \$ per dry metric ton 361.33* 24 May 19 Alumina Index fob Brazil, inferred Brazil price \$ per dry metric ton 361.33* 24 May 19 Alumina Index fob Brazil, inferred Brazil price \$ per dry metric ton 361.33* 24 May 19 Alumina Index fob Brazil, inferred Brazil price \$ per dry metric ton 361.33* 361.33* 301.30* 301.30* 302.325* 301.30* 302.325* 301.30* 302.325* 301.30* 302.325* 301.30* 302.329* 3	BASE METALS	Price	Change	Δssessed
MB Chinese free market, metallurgical grade, delivered duty-paid, yuan/lonne Alumina Index fob Australia 3,050,0-3,200,0° 2,63% 23 May 19 Alumina Index fob Brazil 1,29° 23 May 19 Alumina Index fob Brazil, inferred Brazil price \$ per dry metric ton 361,33° 24 May 19 Alumina Index fob Brazil, inferred Brazil price \$ per dry metric ton 361,33° 24 May 19 Alumina Index fob Brazil, inferred Brazil price \$ per dry metric ton 361,33° 24 May 19 Alumina Index fob Brazil, inferred Brazil price \$ per dry metric ton 361,33° 36	Alumina	11100	Onlange	71000000
Alumina Index fob Australia Alumina Index fob Brazil Alumina Index fob Brazil Alumina Index fob Brazil Alumina Index fob Brazil Alumina Index fob Brazil, inferred Brazil price \$ per dry metric ton 361.33* 24 May 19 Aluminium Aluminium Aluminium Stocks, tonnes Calcined petroleum coke, aluminium anode grade, fob US Gulf Coast, \$/tonne Calcined petroleum coke, aluminium anode grade, fob US Gulf Coast, \$/tonne Calcined petroleum coke, aluminium anode grade, fob China, \$/tonne Aluminium 6063 extrusion conversion margin, exw Germany, \$/tonne Aluminium 6063 extrusion conversion margin, exw Germany, \$/tonne Aluminium FRP 1050 sheet conversion margin, exw Germany, \$/tonne Aluminium FRP 5002 sheet conversion margin, exw US cents/lb Aluminium FRP 5003 sheet conversion margin, exw China, \$/tonne Bauxite fob Kamsar, Guinea \$/tonne per dmtu 7° Copper & Brass Producer premium Aurubis European Grade A cathode (average) South Africa: Palabora copper rod 7,90mm, Rand/tonne 105,182.970 -1.59% 24 May 19 24 May 19 24 May 19 25 May 19 26 Sep 18 South Africa: Palabora copper rod 7,90mm, Rand/tonne 105,182.970 -1.59% 30 Apr 19 Blister copper 98-99% spot RC cif China \$ per tonne 160-170* 0% 28 Feb 18 Copper concentrate Asia-Pacific Index RC import, \$/dmt (twice monthly on 15th and last day of month) 58.30-58.30* -1.35% 24 May 19 24 May 19 24 May 19 24 May 19 Shanghai bonded copper stocks,	MB Chinese free market, metallurgical	3,050.0-3,200.0*	2.63%	▲ 23 May 19
Alumina Index fob Brazil, inferred Brazil price \$ per dry metric ton 361.33* 24 May 19 Aluminium Shanghai bonded aluminium stocks, tonnes 5,500-6,500* -7.69% ▼ 01 May 19 Calcined petroleum coke, aluminium anode grade, fob US Gulf Coast, \$/tonne 320-325* -3.01% ▼ 02 May 19 Calcined petroleum coke, aluminium anode grade, fob China, \$/tonne 330-340* -2.9% ▼ 02 May 19 Aluminium 6063 extrusion conversion margin, exw Germany, \$/tonne 695-700* 0% 02 May 19 Aluminium 6063 extrusion conversion margin, exw Germany, \$/tonne 695-700* 0% 02 May 19 Aluminium FRP 1050 sheet conversion margin, exw Germany, \$/tonne 660-665* 0% 02 May 19 Aluminium FRP 5052 sheet conversion margin, exw Germany, \$/tonne 660-665* 0% 02 May 19 Aluminium FRP 5000 sheet conversion margin, exw China, \$/tonne 640-660* 0% 02 May 19 Bauxite fob Kamsar, Guinea \$/tonne per dmtu 37* 0% 23 May 19 Bauxite fob Kamsar, Guinea \$/tonne per dmtu 37* 0% 23 May 19 Copper & Brass Producer premium Aurubis European Grade A cathode ex-works \$/tonne 96.0 11.63% ▲ 01 Oct 18 Codelco: Contract Grade A cathode (average) 98.0 11.36% ▲ 01 Oct 18 Codelco: Contract Grade A cathode (average) 98.0 11.36% ▲ 26 Sep 18 South Africa: Palabora copper rod 7.90mm, Rand/tonne 105.182.970 -1.59% ▼ 30 Apr 19 Blister copper 98-99% spot RC cif China \$ per tonne 160-170* 0% 30 Apr 19 Blister copper 98-99% annual benchmark RC cif China \$ per tonne 160-170* 0% 30 Apr 19 Blister copper 98-99% annual benchmark RC cif China \$ per tonne 160-170* 0% 28 Feb 18 Copper concentrate Asia-Pacific Index RC import, US cents/lb (twice monthly on 15th and last day of month) 58.35-8.3* -1.35% ▼ 24 May 19 Shanghai bonded copper stocks,		360.04*	-0.17%	▼ 24 May 19
Brazil price \$ per dry metric ton 361.33* 24 May 19	Alumina Index fob Brazil	1.29*		23 May 19
Shanghai bonded aluminium stocks, tonnes 5,500-6,500* -7.69% ▼ 01 May 19 Calcined petroleum coke, aluminium anode grade, fob US Gulf Coast, \$/tonne 320-325* -3.01% ▼ 02 May 19 Calcined petroleum coke, aluminium anode grade, fob China, \$/tonne 330-340* -2.9% ▼ 02 May 19 Aluminium 6063 extrusion conversion margin, exw Germany, \$/tonne 695-700* 0% 02 May 19 Aluminium 6063 extrusion conversion margin, exw Germany, \$/tonne 660-665* 0% 02 May 19 Aluminium FRP 1050 sheet conversion margin, exw Germany, \$/tonne 660-665* 0% 02 May 19 Aluminium FRP 5052 sheet conversion margin, exw US cents/lb 82-86* -1.18% ▼ 02 May 19 Aluminium FRP 5000 sheet conversion margin, exw China, \$/tonne 640-650* 0% 02 May 19 Bauxite 6b Kamsar, Guinea \$/tonne per dmtu 37* 0% 23 May 19 Copper & Brass Producer premium Aurubis European Grade A cathode (average) 98.0 11.63% ▲ 01 Oct 18 Codelco: Contract Grade A cathode (average) 98.0 11.36% ▲ 26 Sep 18 South Africa: Palabora copper rod 7.90mm, Rand/Ionne		361.33*		24 May 19
Calcined petroleum coke, aluminium anode grade, fob US Gulf Coast, \$/tonne 320-325* -3.01% ▼ 02 May 19 Calcined petroleum coke, aluminium anode grade, fob China, \$/tonne 330-340* -2.9% ▼ 02 May 19 Aluminium 6063 extrusion conversion margin, exw Germany, \$/tonne 695-700* 0% 02 May 19 Aluminium 6063 extrusion conversion margin, exw Germany, \$/tonne 665-75* 0% 02 May 19 Aluminium FRP 1050 sheet conversion margin, exw Germany, \$/tonne 660-665* 0% 02 May 19 Aluminium FRP 5052 sheet conversion margin, exw Germany, \$/tonne 82-86* -1.18% ▼ 02 May 19 Aluminium FRP 5000 sheet conversion margin, exw US cents/lb 82-86* -1.18% ▼ 02 May 19 Aluminium FRP 5000 sheet conversion margin, exw China, \$/tonne 640-650* 0% 02 May 19 Bauxite 6b Kamsar, Guinea \$/tonne per dmtu 37* 0% 23 May 19 Copper & Brass Producer premium 37* 0% 23 May 19 Copper & Brass Producer premium 96.0 11.63% ▲ 01 Oct 18 Codeloc: Contract Grade A cathode (average) 98.0 11.63% ▲ 01 Oct 18	Aluminium			
anode grade, fob US Gulf Coast, \$/tonne	Shanghai bonded aluminium stocks, tonnes	5,500-6,500*	-7.69%	▼ 01 May 19
anode grade, fob China, \$/tonne		320-325*	-3.01%	▼ 02 May 19
margin, exw Germany, \$/tonne 695-700* 0% 02May 19 Aluminium 6063 extrusion conversion margin, exw US Midwest, cents/lb 65-75* 0% 02May 19 Aluminium FRP 1050 sheet conversion margin, exw Germany, \$/tonne 660-665* 0% 02May 19 Aluminium FRP 5052 sheet conversion margin, exw US cents/lb 82-86* -1.18% ▼ 02May 19 Aluminium FRP 5000 sheet conversion margin, exw China, \$/tonne 640-650* 0% 02May 19 Bauxite 50% 02May 19 6b Kamsar, Guinea \$/tonne per dmtu 37* 0% 23May 19 Copper & Brass Producer premium 0% 23May 19 Copper & Brass Producer premium 4 01 Oct 18 Codeloc: Contract Grade A cathode ex-works \$/tonne 96.0 11.63% ▲ 01 Oct 18 Codeloc: Contract Grade A cathode (average) 98.0 11.36% ▲ 26 Sep 18 South Africa: Palabora copper rod 7.90mm, Rand/tonne 105,182.970 -1.59% ▼ 30 Apr 19 Blister copper 98-99% spot RC cif China \$ per tonne 160-170* 0% 30 Apr 19 Bli		330-340*	-2.9%	▼ 02 May 19
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margin, exw Germany, \$/tonne 660-665* 0% 02 May 19 Aluminium FRP 5052 sheet conversion margin, exw US cents/lb 82-86* -1.18% ▼ 02 May 19 Aluminium FRP 5000 sheet conversion margin, exw China, \$/tonne 640-650* 0% 02 May 19 Bauxite 50% 23 May 19 23 May 19 23 May 19 23 May 19 Copper & Brass Producer premium 37* 0% 23 May 19 Copper & Brass Producer premium 4 01 Oct 18 Aurubis European Grade A cathode ex-works \$/tonne 96.0 11.63% ▲ 01 Oct 18 Codelco: Contract Grade A cathode (average) 98.0 11.36% ▲ 26 Sep 18 South Africa: Palabora copper rod 7.90mm, Rand/tonne 105,182.970 -1.59% ▼ 30 Apr 19 Blister copper 98-99% spot RC cif China \$per tonne 160-170* 0% 30 Apr 19 Blister copper 98-99% annual benchmark RC cif China \$per tonne 165-180* 0% 28 Feb 18 Copper concentrate Asia-Pacific Index RC import, US cents/lb (twice monthly on 15th and last day of month) 5.83-5.83* -1.35% ▼ 24 May 19 Copper Concentrate Asia-Pacific Index T		65-75*	0%	02 May 19
margin, exw US cents/lb 82-86* -1.18% ▼ 02May 19 Aluminium FRP 5000 sheet conversion margin, exw China, \$/tonne 640-650* 0% 02May 19 Bauxite	margin, exw Germany, \$/tonne	660-665*	0%	02 May 19
margin, exw China, \$/tonne 640-650* 0% 02 May 19 Bauxite fob Kamsar, Guinea \$/tonne per dmtu 37* 0% 23 May 19 fob Trombetas, Brazil \$/tonne per dmtu 37* 0% 23 May 19 Copper & Brass Producer premium Aurubis European Grade Acathode 96.0 11.63% ▲ 01 Oct 18 Codelco: Contract Grade A cathode 98.0 11.36% ▲ 26 Sep 18 South Africa: Palabora copper rod 7.90mm, Rand/tonne 105,182.970 -1.59% ▼ 30 Apr 19 Blister copper 98-99% spot RC cif China \$ per tonne 160-170* 0% 30 Apr 19 Blister copper 98-99% annual benchmark RC cif China \$ per tonne 165-180* 0% 28 Feb 18 Copper concentrate Asia-Pacific Index RC import, US cents/lb (twice monthly on 15th and last day of month) 5.83-5.83* -1.35% ▼ 24 May 19 Copper concentrate Asia-Pacific Index TC import, \$/dmt (twice monthly on 15th and last day of month) 58.30-58.30* -1.35% ▼ 24 May 19 Shanghai bonded copper stocks, ** 24 May 19	margin, exw US cents/lb	82-86*	-1.18%	▼ 02 May 19
fob Kamsar, Guinea \$/tonne per dmtu 37* 0% 23 May 19 fob Trombetas, Brazil \$/tonne per dmtu 37* 0% 23 May 19 Copper & Brass Producer premium Aurubis European Grade A cathode ex-works \$/tonne 96.0 11.63% ▲ 01 Oct 18 Codelco: Contract Grade A cathode (average) 98.0 11.36% ▲ 26 Sep 18 South Africa: Palabora copper rod 7.90mm, Rand/tonne 105,182.970 -1.59% ▼ 30 Apr 19 Blister copper 98-99% spot RC cif China \$ per tonne 160-170* 0% 30 Apr 19 Blister copper 98-99% annual benchmark RC cif China \$ per tonne 165-180* 0% 28 Feb 18 Copper concentrate Asia-Pacific Index RC import, US cents/lb (twice monthly on 15th and last day of month) 5.83-5.83* -1.35% ▼ 24 May 19 Copper concentrate Asia-Pacific Index TC import, \$/dmt (twice monthly on 15th and last day of month) 58.30-58.30* -1.35% ▼ 24 May 19 Shanghai bonded copper stocks, ** 24 May 19		640-650*	0%	02 May 19
fob Trombetas, Brazil \$/tonne per dmtu 37* 0% 23 May 19 Copper & Brass Producer premium Aurubis European Grade A cathode ex-works \$/tonne 96.0 11.63% ▲ 01 Oct 18 Codelco: Contract Grade A cathode (average) 98.0 11.36% ▲ 26 Sep 18 South Africa: Palabora copper rod 7.90mm, Rand/tonne 105,182.970 -1.59% ▼ 30 Apr 19 Blister copper 98-99% spot RC cif China \$ per tonne 160-170* 0% 30 Apr 19 Blister copper 98-99% annual benchmark RC cif China \$ per tonne 165-180* 0% 28 Feb 18 Copper concentrate Asia-Pacific Index RC import, US cents/lb (twice monthly on 15th and last day of month) 5.83-5.83* -1.35% ▼ 24 May 19 Copper concentrate Asia-Pacific Index TC import, \$/dmt (twice monthly on 15th and last day of month) 58.30-58.30* -1.35% ▼ 24 May 19 Shanghai bonded copper stocks, ** 24 May 19				
Copper & Brass Producer premium 96.0 11.63% ▲ 01 Oct 18 Codelco: Contract Grade A cathode (average) 98.0 11.36% ▲ 26 Sep 18 South Africa: Palabora copper rod 7.90mm, Rand/tonne 105,182.970 -1.59% ▼ 30 Apr 19 Blister copper 98-99% spot RC cif China \$ per tonne 160-170* 0% 30 Apr 19 Blister copper 98-99% annual benchmark RC cif China \$ per tonne 165-180* 0% 28 Feb 18 Copper concentrate Asia-Pacific Index RC import, US cents/lb (twice monthly on 15th and last day of month) 5.83-5.83* -1.35% ▼ 24 May 19 Copper concentrate Asia-Pacific Index TC import, \$/dmt (twice monthly on 15th and last day of month) 58.30-58.30* -1.35% ▼ 24 May 19 Shanghai bonded copper stocks,				
Producer premium Aurubis European Grade A cathode ex-works \$/tonne 96.0 11.63% ▲ 01 Oct 18 Codelco: Contract Grade A cathode (average) 98.0 11.36% ▲ 26 Sep 18 South Africa: Palabora copper rod 7.90mm, Rand/tonne 105,182.970 -1.59% ▼ 30 Apr 19 Blister copper 98-99% spot RC cif China \$ per tonne 160-170* 0% 30 Apr 19 Blister copper 98-99% annual benchmark RC cif China \$ per tonne 165-180* 0% 28 Feb 18 Copper concentrate Asia-Pacific Index RC import, US cents/lb (twice monthly on 15th and last day of month) 5.83-5.83* -1.35% ▼ 24 May 19 Copper concentrate Asia-Pacific Index TC import, \$/dmt (twice monthly on 15th and last day of month) 58.30-58.30* -1.35% ▼ 24 May 19 Shanghai bonded copper stocks,		31-	0%	23 May 19
Aurubis European Grade A cathode ex-works \$/tonne 96.0 11.63% ▲ 01 Oct 18 Codelco: Contract Grade A cathode (average) 98.0 11.36% ▲ 26 Sep 18 South Africa: Palabora copper rod 7.90mm, Rand/tonne 105,182.970 -1.59% ▼ 30 Apr 19 Blister copper 98-99% spot RC cif China \$ per tonne 160-170* 0% 30 Apr 19 Blister copper 98-99% annual benchmark RC cif China \$ per tonne 165-180* Copper concentrate Asia-Pacific Index RC import, US cents/lb (twice monthly on 15th and last day of month) Copper concentrate Asia-Pacific Index TC import, \$/dmt (twice monthly on 15th and last day of month) Shanghai bonded copper stocks,				
Codelco: Contract Grade A cathode (average) 98.0 11.36% ▲ 26 Sep 18 South Africa: Palabora copper rod 7.90mm, Rand/tonne 105,182.970 -1.59% ▼ 30 Apr 19 Blister copper 98-99% spot RC cif China \$ per tonne 160-170* 0% 30 Apr 19 Blister copper 98-99% annual benchmark RC cif China \$ per tonne 165-180* 0% 28 Feb 18 Copper concentrate Asia-Pacific Index RC import, US cents/lb (twice monthly on 15th and last day of month) 5.83-5.83* -1.35% ▼ 24 May 19 Copper concentrate Asia-Pacific Index TC import, \$/dmt (twice monthly on 15th and last day of month) 58.30-58.30* -1.35% ▼ 24 May 19 Shanghai bonded copper stocks,	Aurubis European Grade A cathode	96.0	11.63%	▲ 01 Oct 18
South Africa: Palabora copper rod 7.90mm, Rand/tonne 105,182.970 -1.59% ▼ 30 Apr 19 Blister copper 98-99% spot RC cif China \$ per tonne 160-170* 0% 30 Apr 19 Blister copper 98-99% annual benchmark RC cif China \$ per tonne 165-180* 0% 28 Feb 18 Copper concentrate Asia-Pacific Index RC import, US cents/lb (twice monthly on 15th and last day of month) 5.83-5.83* -1.35% ▼ 24 May 19 Chapter Concentrate Asia-Pacific Index TC import, \$ Idmt (twice monthly on 15th and last day of month) 58.30-58.30* -1.35% ▼ 24 May 19 Shanghai bonded copper stocks,	Codelco: Contract Grade A cathode			
China \$ per tonne 160-170* 0% 30 Apr 19 Blister copper 98-99% annual benchmark RC cif China \$ per tonne 165-180* 0% 28 Feb 18 Copper concentrate Asia-Pacific Index RC import, US cents/lb (twice monthly on 15th and last day of month) 5.83-5.83* -1.35% ▼ 24 May 19 Copper concentrate Asia-Pacific Index TC import, \$/dmt (twice monthly on 15th and last day of month) 58.30-58.30* -1.35% ▼ 24 May 19 Shanghai bonded copper stocks, -1.35% ▼ 24 May 19	•••	105,182.970	-1.59%	
benchmark RC cif China \$ per tonne 165-180* 0% 28 Feb 18 Copper concentrate Asia-Pacific Index RC import, US cents/lb (twice monthly on 15th and last day of month) 5.83-5.83* -1.35% ▼ 24 May 19 Copper concentrate Asia-Pacific Index TC import, \$'dmt (twice monthly on 15th and last day of month) 58.30-58.30* -1.35% ▼ 24 May 19 Shanghai bonded copper stocks,		160-170*	0%	30 Apr 19
Index RC import, US cents/lb (twice monthly on 15th and last day of month) 5.83-5.83* -1.35% ▼ 24 May 19 Copper concentrate Asia-Pacific Index TC import, \$\footnote{0}{2} \text{drut}\$ (twice monthly on 15th and last day of month) 58.30-58.30* -1.35% ▼ 24 May 19 Shanghai bonded copper stocks,		165-180*	0%	28 Feb 18
Index TC import, \$/dmt (twice monthly on 15th and last day of month) 58.30-58.30* -1.35% ▼ 24 May 19 Shanghai bonded copper stocks,	Index RC import, US cents/lb (twice	5.83-5.83*	-1.35%	▼ 24 May 19
	Index TC import, \$/dmt (twice monthly on	58.30-58.30*	-1.35%	▼ 24 May 19
		567,000-571,000*	-0.87%	▼ 20 May 19

	Price	Change	Assessed
Nickel		·	
Nickel pig iron high grade NPI content 10-15% contract price delivered duty-paid China yuan per nickel unit price	955-970*	0%	21 May 19
Nickel pig iron high grade NPI content 10-15% spot price China yuan per nickel unit price	950-970*	0%	21 May 19
Shanghai bonded nickel stocks, tonnes	22,600-29,600*	-13.86%	▼ 01 May 19
Nickel ore			
Laterite ore with 1.5% nickel content cif China, \$/tonne	29-30*	0%	21 May 19
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	49-51*	0%	21 May 19
Nickel sulfate min 21%, max: 22.5%; cobalt 10ppm max, China ex-works, yuan/tonne	24,300-24,800*	0%	21 May 19
Lead			
Lead concentrate spot treatment charge (TC) high silver CIF China, \$/tonne	40-60*	0%	26 Apr 19
Lead concentrate spot treatment charge (TC) low silver CIF China, \$/tonne	15-35*	-23.08%	▼ 26 Apr 19
Lead concentrate (TC) high silver, annual benchmark, \$/tonne	98*	0%	05 Apr 18
Lead concentrate (TC) low silver, annual benchmark, \$/tonne	99*	0%	15 Mar 18
Zinc			
UK: Special high grade, delivered monthly average price £/tonne	2,397*	1.4%	▲ 01 May 19
Zinc concentrate spot treatment charge (TC) CIF Asia-Pacific \$/tonne	260-290*	-4.35% '	▼ 26 Apr 19
Zinc concentrate spot treatment charge (TC) deliverd North China yuan/tonne	6,600-6,900*	0.75%	▲ 26 Apr 19
Zinc concentrate spot treatment charge (TC) deliverd South China yuan/tonne	6,400-6,600*	0.78%	▲ 26 Apr 19
Shanghai bonded zinc stocks, tonnes	93,500-100,500*		▲ 01 May 19

†week-on-week change

continued >



PRECIOUS METALS			
	Price	Change [†]	Assessed
Iridium			
MB free market: min 99.9%, \$/troy oz	1 110 1 510+	00/	0414 46
In-warehouse	1,410-1,510*	0%	24 May 19
Johnson Matthey base price: (unfab) \$/troy oz (08 hrs)	1,480	0%	24 May 19
Englehard base price: \$/troy oz	1,485	0%	24 May 19
Palladium	,		., .
European free market: min 99.9%,			
\$/troy oz in-warehouse	1,311-1,339*	-0.36%	▼ 24 May 19
Englehard base price: \$/troy oz	1,327	-0.9%	▼ 24 May 19
Johnson Matthey base price: (unfab)			
\$/troy oz (08 hrs)	1,339	0.75%	▲ 24 May 19
Platinum			
European free market: min 99.9%, \$/troy oz in-warehouse	798-810*	-3.42%	▼ 24 May 10
	806	-3.36%	▼ 24 May 19
Englehard base price: \$/troy oz Johnson Matthey base price: (unfab)	000	-3.30 /0	▼ Z4 IVIdy IS
\$/troy oz (08 hrs)	810	-2.64%	▼ 24 May 19
Rhodium			
European free market: min 99.9%,			
\$/troy oz in-warehouse	2,750-2,875*	-1.66%	▼ 24 May 19
Englehard base price: \$/troy oz	2,875	-0.86%	▼ 24 May 19
Johnson Matthey base price: (unfab)	0.000	4.040/	- 0444
\$/troy oz (08 hrs)	2,860	-1.04%	▼ 24 May 19
Ruthenium			
European free market: min 99.9%, \$/troy oz in-warehouse	225-270*	0%	24 May 19
Englehard base price: \$/troy oz	270	0%	24 May 19
Johnson Matthey base price: (unfab)	210		Z Tillay To
\$/troy oz (08 hrs)	265	-0.75%	▼ 24 May 19
MINOR METALS			
	Price	Change [†]	Assessed
Antimony			
•			
MB free market Regulus, min 99.65%,			
MB free market Regulus, min 99.65%, max Se 50 ppm, max 100 ppm Bi,	6.700-6.950*	-2.85%	▼ 24 May 19
MB free market Regulus, min 99.65%, max Se 50 ppm, max 100 ppm Bi, \$/tonne in-warehouse Rotterdam	6,700-6,950*	-2.85%	▼ 24 May 19
MB free market Regulus, min 99.65%, max Se 50 ppm, max 100 ppm Bi, \$/tonne in-warehouse Rotterdam MMTA Standard Grade II, \$/tonne	6,700-6,950* 6,500-6,750*	-2.85%	
MB free market Regulus, min 99.65%, max Se 50 ppm, max 100 ppm Bi, \$/tonne in-warehouse Rotterdam MMTA Standard Grade II, \$/tonne in-warehouse Rotterdam MB Chinese free market MMTA Standard	6,500-6,750*	-3.99%	▼ 24 May 19
MB free market Regulus, min 99.65%, max Se 50 ppm, max 100 ppm Bi, \$/tonne in-warehouse Rotterdam MMTA Standard Grade II, \$/tonne in-warehouse Rotterdam MB Chinese free market MMTA Standard Grade II, delivered duty-paid yuan/tonne			▼ 24 May 19
MB free market Regulus, min 99.65%, max Se 50 ppm, max 100 ppm Bi, \$/tonne in-warehouse Rotterdam MMTA Standard Grade II, \$/tonne in-warehouse Rotterdam MB Chinese free market MMTA Standard Grade II, delivered duty-paid yuan/tonne Arsenic	6,500-6,750* 39,000-40,000*	-3.99%	▼ 24 May 19
MB free market Regulus, min 99.65%, max Se 50 ppm, max 100 ppm Bi, \$/tonne in-warehouse Rotterdam MMTA Standard Grade II, \$/tonne in-warehouse Rotterdam MB Chinese free market MMTA Standard Grade II, delivered duty-paid yuan/tonne Arsenic MB free market \$/lb	6,500-6,750*	-3.99%	▼ 24 May 19
MB free market Regulus, min 99.65%, max Se 50 ppm, max 100 ppm Bi, \$/tonne in-warehouse Rotterdam MMTA Standard Grade II, \$/tonne in-warehouse Rotterdam MB Chinese free market MMTA Standard Grade II, delivered duty-paid yuan/tonne Arsenic MB free market \$/lb Bismuth	6,500-6,750* 39,000-40,000* 1.20-1.5*	-3.99% -3.07%	▼ 24 May 15 ▼ 22 May 15 24 May 15
MB free market Regulus, min 99.65%, max Se 50 ppm, max 100 ppm Bi, \$/tonne in-warehouse Rotterdam MMTA Standard Grade II, \$/tonne in-warehouse Rotterdam MB Chinese free market MMTA Standard Grade II, delivered duty-paid yuan/tonne Arsenic MB free market \$/lb Bismuth MB free market \$/lb	6,500-6,750* 39,000-40,000*	-3.99%	▼ 24 May 15 ▼ 22 May 15 24 May 15
MB free market Regulus, min 99.65%, max Se 50 ppm, max 100 ppm Bi, \$/tonne in-warehouse Rotterdam MMTA Standard Grade II, \$/tonne in-warehouse Rotterdam MB Chinese free market MMTA Standard Grade II, delivered duty-paid yuan/tonne Arsenic MB free market \$/lb Bismuth MB free market \$/lb MB China domestic, min 99.99%,	6,500-6,750* 39,000-40,000* 1.20-1.5* 3.20-3.40*	-3.99% -3.07% 0% -2.94%	▼ 24 May 15 ▼ 22 May 15 24 May 15 ▼ 24 May 15
MB free market Regulus, min 99.65%, max Se 50 ppm, max 100 ppm Bi, \$/tonne in-warehouse Rotterdam MMTA Standard Grade II, \$/tonne in-warehouse Rotterdam MB Chinese free market MMTA Standard Grade II, delivered duty-paid yuan/tonne Arsenic MB free market \$/lb Bismuth MB China domestic, min 99.99%, yuan/tonne	6,500-6,750* 39,000-40,000* 1.20-1.5*	-3.99% -3.07%	▼ 24 May 15 ▼ 22 May 15 24 May 15 ▼ 24 May 15
MB free market Regulus, min 99.65%, max Se 50 ppm, max 100 ppm Bi, \$/tonne in-warehouse Rotterdam MMTA Standard Grade II, \$/tonne in-warehouse Rotterdam MB Chinese free market MMTA Standard Grade II, delivered duty-paid yuan/tonne Arsenic MB free market \$/lb Bismuth MB free market \$/lb MB China domestic, min 99.99%, yuan/tonne Cadmium	6,500-6,750* 39,000-40,000* 1.20-1.5* 3.20-3.40* 41,500-44,000*	-3.99% -3.07% 0% -2.94% 0.59%	▼ 24 May 15 ▼ 22 May 15 24 May 15 ▼ 24 May 15 ▲ 24 May 15
MB free market Regulus, min 99.65%, max Se 50 ppm, max 100 ppm Bi, \$/tonne in-warehouse Rotterdam MMTA Standard Grade II, \$/tonne in-warehouse Rotterdam MB Chinese free market MMTA Standard Grade II, delivered duty-paid yuan/tonne Arsenic MB free market \$/lb Bismuth MB free market \$/lb MB China domestic, min 99.99%, yuan/tonne Cadmium MB free market min 99.95% cents/lb	6,500-6,750* 39,000-40,000* 1.20-1.5* 3.20-3.40* 41,500-44,000*	-3.99% -3.07% 0% -2.94% 0.59%	▼ 24 May 15 ▼ 22 May 15 24 May 15 ▼ 24 May 15 ▲ 24 May 15 24 May 15
MB free market Regulus, min 99.65%, max Se 50 ppm, max 100 ppm Bi, \$/tonne in-warehouse Rotterdam MMTA Standard Grade II, \$/tonne in-warehouse Rotterdam MB Chinese free market MMTA Standard Grade II, delivered duty-paid yuan/tonne Arsenic MB free market \$/lb Bismuth MB free market \$/lb MB China domestic, min 99.99%, yuan/tonne Cadmium MB free market min 99.95% cents/lb MB free market min 99.99% cents/lb	6,500-6,750* 39,000-40,000* 1.20-1.5* 3.20-3.40* 41,500-44,000*	-3.99% -3.07% 0% -2.94% 0.59%	▼ 24 May 15 ▼ 22 May 15 24 May 15 ▼ 24 May 15 ▲ 24 May 15 24 May 15
MB free market Regulus, min 99.65%, max Se 50 ppm, max 100 ppm Bi, \$/tonne in-warehouse Rotterdam MMTA Standard Grade II, \$/tonne in-warehouse Rotterdam MB Chinese free market MMTA Standard Grade II, delivered duty-paid yuan/tonne Arsenic MB free market \$/lb Bismuth MB China domestic, min 99.99%, yuan/tonne Cadmium MB free market min 99.95% cents/lb MB free market min 99.99% cents/lb Chromium	6,500-6,750* 39,000-40,000* 1.20-1.5* 3.20-3.40* 41,500-44,000*	-3.99% -3.07% 0% -2.94% 0.59%	▼ 24 May 15 ▼ 22 May 15 24 May 15 ▼ 24 May 15 ▲ 24 May 15 24 May 15
MB free market Regulus, min 99.65%, max Se 50 ppm, max 100 ppm Bi, \$/tonne in-warehouse Rotterdam MMTA Standard Grade II, \$/tonne in-warehouse Rotterdam MB Chinese free market MMTA Standard Grade II, delivered duty-paid yuan/tonne Arsenic MB free market \$/lb Bismuth MB free market \$/lb MB China domestic, min 99.99%, yuan/tonne Cadmium MB free market min 99.95% cents/lb MB free market min 99.99% cents/lb Chromium MB free market alumino-thermic min	6,500-6,750* 39,000-40,000* 1.20-1.5* 3.20-3.40* 41,500-44,000* 125-133* 128-141*	-3.99% -3.07% 0% -2.94% 0.59%	▼ 24 May 15
MB free market Regulus, min 99.65%, max Se 50 ppm, max 100 ppm Bi, \$/tonne in-warehouse Rotterdam MMTA Standard Grade II, \$/tonne in-warehouse Rotterdam MB Chinese free market MMTA Standard Grade II, delivered duty-paid yuan/tonne Arsenic MB free market \$/lb Bismuth MB free market \$/lb MB China domestic, min 99.99%, yuan/tonne Cadmium MB free market min 99.95% cents/lb MB free market min 99.99% cents/lb Chromium MB free market alumino-thermic min 99% \$/tonne	6,500-6,750* 39,000-40,000* 1.20-1.5* 3.20-3.40* 41,500-44,000*	-3.99% -3.07% 0% -2.94% 0.59% 0%	▼ 24 May 15
MB free market Regulus, min 99.65%, max Se 50 ppm, max 100 ppm Bi, \$/tonne in-warehouse Rotterdam MMTA Standard Grade II, \$/tonne in-warehouse Rotterdam MB Chinese free market MMTA Standard Grade II, delivered duty-paid yuan/tonne Arsenic MB free market \$/lb Bismuth MB free market \$/lb MB China domestic, min 99.99%, yuan/tonne Cadmium MB free market min 99.95% cents/lb MB free market min 99.99% cents/lb Chromium MB free market alumino-thermic min 99% \$/tonne Cobalt	6,500-6,750* 39,000-40,000* 1.20-1.5* 3.20-3.40* 41,500-44,000* 125-133* 128-141* 7,900-8,250*	-3.99% -3.07% 0% -2.94% 0.59% 0% 0%	▼ 24 May 15 24 May 15 24 May 15 ▼ 24 May 15 24 May 15 24 May 15 24 May 15
MB free market Regulus, min 99.65%, max Se 50 ppm, max 100 ppm Bi, \$/tonne in-warehouse Rotterdam MMTA Standard Grade II, \$/tonne in-warehouse Rotterdam MB Chinese free market MMTA Standard Grade II, delivered duty-paid yuan/tonne Arsenic MB free market \$/lb Bismuth MB free market \$/lb MB China domestic, min 99.99%, yuan/tonne Cadmium MB free market min 99.95% cents/lb MB free market min 99.99% cents/lb Chromium MB free market alumino-thermic min 99% \$/tonne Cobalt MB free market alloy-grade \$/lb	6,500-6,750* 39,000-40,000* 1.20-1.5* 3.20-3.40* 41,500-44,000* 125-133* 128-141* 7,900-8,250* 17-17.70*	-3.99% -3.07% 0% -2.94% 0.59% 0% -2.12%	▼ 24 May 15 24 May 15 24 May 15 ▼ 24 May 15
MB free market Regulus, min 99.65%, max Se 50 ppm, max 100 ppm Bi, \$/tonne in-warehouse Rotterdam MMTA Standard Grade II, \$/tonne in-warehouse Rotterdam MB Chinese free market MMTA Standard Grade II, delivered duty-paid yuan/tonne Arsenic MB free market \$/lb Bismuth MB China domestic, min 99.99%, yuan/tonne Cadmium MB free market min 99.95% cents/lb MB free market min 99.99% cents/lb Chromium MB free market alumino-thermic min 99% \$/tonne Cobalt MB free market alloy-grade \$/lb MB free market alloy-grade \$/lb	6,500-6,750* 39,000-40,000* 1.20-1.5* 3.20-3.40* 41,500-44,000* 125-133* 128-141* 7,900-8,250*	-3.99% -3.07% 0% -2.94% 0.59% 0% 0%	▼ 24 May 15 24 May 15 24 May 15 ▼ 24 May 15
MB free market Regulus, min 99.65%, max Se 50 ppm, max 100 ppm Bi, \$/tonne in-warehouse Rotterdam MMTA Standard Grade II, \$/tonne in-warehouse Rotterdam MB Chinese free market MMTA Standard Grade II, delivered duty-paid yuan/tonne Arsenic MB free market \$/lb Bismuth MB free market \$/lb MB China domestic, min 99.99%, yuan/tonne Cadmium MB free market min 99.95% cents/lb Chromium MB free market alumino-thermic min 99% \$/tonne Cobalt MB free market alloy-grade \$/lb MB free market alloy-grade \$/lb MB free market standard-grade \$/lb MB free market standard-grade \$/lb MB alloy-grade, weighted average	6,500-6,750* 39,000-40,000* 1.20-1.5* 3.20-3.40* 41,500-44,000* 125-133* 128-141* 7,900-8,250* 17-17.70*	-3.99% -3.07% 0% -2.94% 0.59% 0% -2.12%	▼ 24 May 15 ▼ 24 May 15 ▼ 24 May 15 ▼ 24 May 15
MB free market Regulus, min 99.65%, max Se 50 ppm, max 100 ppm Bi, \$/tonne in-warehouse Rotterdam MMTA Standard Grade II, \$/tonne in-warehouse Rotterdam MB Chinese free market MMTA Standard Grade II, delivered duty-paid yuan/tonne Arsenic MB free market \$/lb Bismuth MB free market \$/lb MB China domestic, min 99.99%, yuan/tonne Cadmium MB free market min 99.95% cents/lb MB free market min 99.99% cents/lb Chromium MB free market alumino-thermic min 99% \$/tonne Cobalt MB free market alloy-grade \$/lb MB free market standard-grade \$/lb MB free market standard-grade \$/lb MB alloy-grade, weighted average of all confirmed international trades, \$/lb	6,500-6,750* 39,000-40,000* 1.20-1.5* 3.20-3.40* 41,500-44,000* 125-133* 128-141* 7,900-8,250* 17-17.70* 16-16.55*	-3.99% -3.07% 0% -2.94% 0.59% 0% -2.12% 0% -1.51%	▼ 24 May 15 ▼ 24 May 15 ▼ 24 May 15 ▼ 24 May 15
MB free market Regulus, min 99.65%, max Se 50 ppm, max 100 ppm Bi, \$/tonne in-warehouse Rotterdam MMTA Standard Grade II, \$/tonne in-warehouse Rotterdam MB Chinese free market MMTA Standard Grade II, delivered duty-paid yuan/tonne Arsenic MB free market \$/lb Bismuth MB free market \$/lb MB China domestic, min 99.99%, yuan/tonne Cadmium MB free market min 99.95% cents/lb MB free market min 99.99% cents/lb Chromium MB free market allumino-thermic min 99% \$/tonne Cobalt MB free market alloy-grade \$/lb MB free market standard-grade \$/lb MB free market standard-grade \$/lb MB alloy-grade, weighted average of all confirmed international trades, \$/lb MB standard-grade, weighted average	6,500-6,750* 39,000-40,000* 1.20-1.5* 3.20-3.40* 41,500-44,000* 125-133* 128-141* 7,900-8,250* 17-17.70* 16-16.55*	-3.99% -3.07% 0% -2.94% 0.59% 0% -2.12% 0% -1.51%	▼ 24 May 15
MB free market Regulus, min 99.65%, max Se 50 ppm, max 100 ppm Bi, \$/tonne in-warehouse Rotterdam MMTA Standard Grade II, \$/tonne in-warehouse Rotterdam MB Chinese free market MMTA Standard Grade II, delivered duty-paid yuan/tonne Arsenic MB free market \$/lb Bismuth MB free market \$/lb MB China domestic, min 99.99%, yuan/tonne Cadmium MB free market min 99.95% cents/lb MB free market min 99.99% cents/lb Chromium MB free market alumino-thermic min 99% \$/tonne Cobalt MB free market alloy-grade \$/lb MB free market standard-grade \$/lb MB alloy-grade, weighted average of all confirmed international trades, \$/lb MB standard-grade, weighted average of all confirmed international trades, \$/lb MB China domestic, min 99.8%	6,500-6,750* 39,000-40,000* 1.20-1.5* 3.20-3.40* 41,500-44,000* 125-133* 128-141* 7,900-8,250* 17-17.70* 16-16.55* 17.75* 15.80*	-3.99% -3.07% 0% -2.94% 0.59% 0% -2.12% -1.51% 4.04% -5.05%	▼ 24 May 15
MB free market Regulus, min 99.65%, max Se 50 ppm, max 100 ppm Bi, \$/tonne in-warehouse Rotterdam MMTA Standard Grade II, \$/tonne in-warehouse Rotterdam MB Chinese free market MMTA Standard Grade II, delivered duty-paid yuan/tonne Arsenic MB free market \$/lb Bismuth MB free market \$/lb MB China domestic, min 99.99%, yuan/tonne Cadmium MB free market min 99.95% cents/lb MB free market alumino-thermic min 99% \$/tonne Cobalt MB free market alloy-grade \$/lb MB free market standard-grade \$/lb MB free market standard-grade \$/lb MB alloy-grade, weighted average of all confirmed international trades, \$/lb MB Standard-grade, weighted average of all confirmed international trades, \$/lb MB China domestic, min 99.8% yuan/tonne	6,500-6,750* 39,000-40,000* 1.20-1.5* 3.20-3.40* 41,500-44,000* 125-133* 128-141* 7,900-8,250* 17-17.70* 16-16.55* 17.75*	-3.99% -3.07% 0% -2.94% 0.59% 0% -2.12% -1.51% 4.04% -5.05%	▼ 24 May 15 ▼ 24 May 15 ▼ 22 May 15 24 May 15 24 May 15 ■ 24 May 15 24 May 15 24 May 15 ■ 24 May 15 ▼ 24 May 15
MB free market Regulus, min 99.65%, max Se 50 ppm, max 100 ppm Bi, \$/tonne in-warehouse Rotterdam MMTA Standard Grade II, \$/tonne in-warehouse Rotterdam MB Chinese free market MMTA Standard Grade II, delivered duty-paid yuan/tonne Arsenic MB free market \$/lb Bismuth MB free market \$/lb MB China domestic, min 99.99%, yuan/tonne Cadmium MB free market min 99.95% cents/lb MB free market min 99.99% cents/lb Chromium MB free market alumino-thermic min 99% \$/tonne Cobalt MB free market standard-grade \$/lb MB free market standard-grade \$/lb MB alloy-grade, weighted average of all confirmed international trades, \$/lb MB Schina domestic, min 99.8% yuan/tonne Cobalt hydroxide index min 30% Co,	6,500-6,750* 39,000-40,000* 1.20-1.5* 3.20-3.40* 41,500-44,000* 125-133* 128-141* 7,900-8,250* 17-17.70* 16-16.55* 17.75* 15.80*	-3.99% -3.07% 0% -2.94% 0.59% 0% -2.12% 0% -1.51% 4.04% -5.05% * -2.51%	▼ 24 May 15
MB free market Regulus, min 99.65%, max Se 50 ppm, max 100 ppm Bi, \$/tonne in-warehouse Rotterdam MMTA Standard Grade II, \$/tonne in-warehouse Rotterdam MB Chinese free market MMTA Standard Grade II, delivered duty-paid yuan/tonne Arsenic MB free market \$/lb Bismuth MB free market \$/lb MB China domestic, min 99.99%, yuan/tonne Cadmium MB free market min 99.95% cents/lb MB free market min 99.99% cents/lb Chromium MB free market alumino-thermic min 99% \$/tonne Cobalt MB free market alloy-grade \$/lb MB free market standard-grade \$/lb MB alloy-grade, weighted average of all confirmed international trades, \$/lb MB Standard-grade, weighted average of all confirmed international trades, \$/lb MB China domestic, min 99.8% yuan/tonne	6,500-6,750* 39,000-40,000* 1.20-1.5* 3.20-3.40* 41,500-44,000* 125-133* 128-141* 7,900-8,250* 17-17.70* 16-16.55* 17.75* 15.80*	-3.99% -3.07% 0% -2.94% 0.59% 0% -2.12% -1.51% 4.04% -5.05%	▼ 24 May 15

	Price	Change	Assessed
Cobalt hydroxide payable indicator, min	11100	onunge	71000000
30% Co, cif China, % payable of Fastmarkets' standard-grade cobalt price (low-end)	67-69*	0%	15 May 19
Cobalt tetroxide min 72.6% Co delivered China yuan/tonne	180,000-185,000*	-1.35%	▼ 24 May 19
Cobalt sulfate, Co 20.5% basis, China ex-works, yuan/tonne	43,000-45,000*	-6.38%	▼ 24 May 19
Cobalt sulfate, Co 20.5% basis,			
adjustment to standard-grade cobalt low-end price, exw China, \$/lb	-3.833.27*	20.54%	▲ 24 May 19
Gallium			
MB free market \$/kg	153-160*	0%	24 May 19
MB China domestic, min 99.99%, yuan/kg	950-980*	0%	22 May 19
Germanium			
Germanium dioxide MB free market \$/kg	950-1,150*	0%	24 May 19
Germanium metal \$/kg Rotterdam	1,200-1,300*	-3.85%	▼ 24 May 19
Germanium metal MB China domestic, min 99.999%, yuan/kg	7,400-8,000*	-1.28%	▼ 22 May 19
Hafnium			
Hafnium 1% Zr max, in-warehouse global locations, \$/kg	900-1,050*	0%	24 May 19
Indium	000-1,000	0 /0	Z+IVIQY 13
MB free market \$/kg	170-190*	-2.7%	▼ 24 May 19
MB China domestic, min 99.99% yuan/kg	1,080-1,120*	-3.51%	▼ 22 May 19
Magnesium			<u> </u>
European free market \$ per tonne	2,600-2,700*	0%	24 May 19
China free market min 99.8% Mg, fob China main ports, \$ per tonne	2,500-2,550*	0%	24 May 19
MB Chinese free market min 99% Mg,	10.000.10.700*	0.450/	A 04M40
ex-works yuan/tonne	16,650-16,700*	0.15%	▲ 24 May 19
Manganese flake MB free market 99.7%, \$/tonne	2,010-2,100*	0%	24 May 19
Electrolytic manganese flake basis			
99.7%, fob China \$/tonne	1,875-1,930*	-1.93%	▼ 24 May 19
MP from market © par fleak	2.400.2.700*	0%	24 May 10
MB free market \$ per flask Rhenium in-warehouse Rotterdam duty paid	2,400-2,700*	0 /0	24 May 19
Metal pellets, min 99.9% \$/lb	650-715*	0%	24 May 19
APR catalytic grade \$/kg Re	1,300-1,500*	0%	24 May 19
Selenium			<u> </u>
MB free market \$/lb	9-11*	0%	24 May 19
MB China domestic, min 99.9%, yuan/kg	140-175*	-1.56%	▼ 24 May 19
Silicon			
Grade 441, min 99% Si in-warehouse Rotterdam, €/tonne	1,820-1,920*	0%	24 May 19
Grade 553, min 98.5% Si in-warehouse		00/	· ·
Rotterdam, €/tonne US free market cents/lb	1,700-1,800* 108-112*	-2.22%	24 May 19 10 May 19
Export from mainland China min	100-112	-2.22/0	+ TO May 19
98.5%, \$/tonne fob	1,440-1,510*	0.68%	▲ 24 May 19
Tellurium	E1 CE*	00/	041440
MB free market 99.9-99.99%, \$/kg MB China domestic, min 99.99%,	51-65*	0%	24 May 19
yuan/kg	390-420*	0%	24 May 19
Titanium			
MB free market ferro-titanium 70% (max 4.5% AI) \$/kg Ti d/d Europe	5.20-5.5*	0%	22 May 19
Titanium ores \$/tonne			
Rutile conc min 95% Tio2 bagged, fob/Aus	1,150-1,350	0%	23 May 19
Rutile bulk conc min 95% Tio2 fob/Aus	1,100-1,200	0%	23 May 19
Ilmenite concentrate, 47-49% Tio2 cif China	180-190	0%	23 May 19
			<u> </u>
† week-on-week change			continued >



	Price	Change [†]	Assesse
Molybdenum molybdic oxide			
Europe drummed molybdic oxide \$/lb Mo	11.90-12.10*	-1.44%	▼ 24 May 1
US canned molybdic oxide \$/lb Mo	12.20-12.45*	-0.6%	▼ 23 May 1
Ferro-molybdenum			
Basis 65% min, in-warehouse Rotterdam \$/kg Mo	27.5-28*	-1.42%	▼ 24 May 1
US free market 65-70% Mo \$/Ib in-warehouse Pittsburgh	12.90-13.20*	-1.51%	▼ 23 May 1
Tungsten			
European free market APT \$/mtu	270-280*	0%	24 May 1
Export from mainland China APT Chinese No1 grade, min 88.5% W03, S/mtu fob	250-265*	-3.92%	▼ 22 May 1
MB Chinese free market concentrate 65% Wo3 in-warehouse China yuan/tonne	93,000-95,000*	-1.05%	▼ 22 May 1
Ferro-tungsten			
Basis 75% W min \$/kg W in-warehouse Rotterdam duty-unpaid	32.5-33.5*	0%	24 May 1
Vanadium			
Ferro-vanadium basis 78% min, fob, China \$/kg V	33-36*	-6.76%	▼ 23 May 1
Ferro-vanadium basis 78% min, free delivery duty paid consumer plant, 1st grade, Western Europe \$/kg V	32.15-36*	-4.01%	▼ 24 May 1
US free market ferro-vanadium \$/lb in-warehouse Pittsburgh	18.5-19.5*	-11.63%	▼ 23 May 1
Vanadium pentoxide 98% min, fob, China \$/lb V205	7.60-7.90*	-4.32%	▼ 23 May 1
Vanadium pentoxide min 98%, in-warehouse Rotterdam \$/Ib V205	7-7.95*	1.7%	▲ 24 May 1

BULKALLOYS			
	Price	Change [†]	Assessed
Ferro-chrome \$/lb Cr			
China import charge chrome 50% Cr index, cif Shanghai, duty-unpaid	0.79*	-1.25%	▼ 24 May 19
Ferro-Chrome European Benchmark Indicator, Lumpy Cr charge basis 52% (and high carbon), \$ per lb	1.08*	-0.92%	▼ 24 May 19
Spot 6-8% C basis 50% Cr delivered duty paid China yuan/tonne	6,700-6,900*	0%	24 May 19
Contract 6-8% C basis 50% Cr delivered duty paid China yuan/tonne	6,550-7,100*	-2.5%	▼ 24 May 19
Lumpy Cr charge basis 52% Cr (and high carbon) quarterly	1.2*	7.14%	▲ 01 Apr 19
High carbon 6-8.5% C basis 60-70% Cr max 1.5% Si, major European destinations	0.89-0.96*	0%	24 May 19
0.10% C average 65-70% Cr	1.85-1.95*	-2.56%	▼ 17 May 19
European low carbon in-warehouse 0.06% C max - 65% Cr	1.90-2*	-2.99%	▼ 17 May 19
Low phosphorous Cr min 65% C max 7% Si max 1% p max 0.015% Ti max 0.05%	0.98-1.06*	-1.92%	▼ 17 May 19
High-carbon ferro-chrome 57-65% Cr, cif duty-updaid Japan, \$/lb	0.80-0.83*	-2.4%	▼ 23 May 19
High carbon ferro-chrome 57-65% Cr, cif duty-unpaid South Korea, \$/lb	0.79-0.81*	-2.44%	▼ 23 May 19
US free market low carbon duty-paid fob Pi	ttsburgh		
US free market in-warehouse Pittsburgh 6-8% C basis 60-65% Cr max 2% Si	1.080-1.180*	0%	23 May 19
0.05%C - 65% min Cr	2.12-2.18*	0%	23 May 19
0.10% C - 62% min Cr	1.93-1.96*	-0.26%	▼ 23 May 19
0.15% C - 60% min Cr	1.87-1.90*	0%	23 May 19

	Price	Change	Assessed
Chrome ore \$/tonne			
Chrome ore cif main Chinese ports			
South African UG2 chrome ore concs, index basis 42%	155*	-4.91%	▼ 24 May 19
Turkish lumpy 40-42% cfr main Chinese ports	195-205*	-4.76%	▼ 24 May 19
Chrome Ore inventories at the main ports of Tianjin, Qinzhou, Lianyungang and Shanghai, million tonnes	2.47-2.54*	6.82%	▲ 13 May 19
Ferro-manganese			
basis 78% Mn (scale pro rata) standard 7.5% C €/tonne	1,050-1,100*	0%	24 May 19
US free market 78% Mn standard 7.5% C \$/long ton in-warehouse Pittsburgh	1,350-1,400*	0%	23 May 19
US free market medium carbon duty-paid fob Pittsburgh, 80% min Mn 1.5% max C \$/Ib	1.13-1.15*	0%	23 May 19
MB Chinese free market min 65% Mn max 7.0% C in-warehouse China yuan/tonne	6,600-6,700*	0%	24 May 19
Manganese ore			
44% Mn index, cif Tianjin \$/dmtu of metal contained	6.15*	-0.49%	▼ 24 May 19
37% Mn index, fob Port Elizabeth \$/dmtu of metal contained	4.90*	-2.97%	▼ 24 May 19
37% Mn index, cif Tianjin \$/dmtu of metal contained	5.60*	-2.61%	▼ 24 May 19
base 37% Mn port index, range 35-39%, fot Tianjin yuan/dmtu	45.5*	-0.44%	▼ 24 May 19
base 44% Mn port index, range 42-48%, fot Tianjin yuan/dmtu	48.5*	-1.82%	▼ 24 May 19
Inventories at the main ports of Tianjin and Qinzhou, million tonnes	3.93-4*	2.99%	▲ 20 May 19
Ferro-nickel			
China premium, 26-32% nickel contained, cif China, \$/tonne	-200100*	-18.92%	▼ 29 Apr 19
Ferro-silicon			
Lumpy basis 75% Si (scale pro rata),			
major European destinations, €/tonne US free market \$/Ib in-warehouse	1,000-1,050*	0%	24 May 19
Pittsburgh lumpy basis 75% Si - imported	0.88-0.93*	0%	23 May 19
Export from mainland China, min 75% Si, 7.5% C, \$/tonne, fob	1,130-1,180*	0%	24 May 19
MB Chinese free market min 75% Si, in-warehouse China, yuan/tonne	5,900-6,100*	0%	24 May 19
Silico-manganese			
Lumpy basis 65-75% Mn basis 15-19% Si (scale pro rata), major European destinations, €/tonne	970-1,020*	0%	24 May 19
US free market \$/Ib in-warehouse Pittsburgh	0.64-0.65*	0%	23 May 19
MB Chinese free market min 65% Mn max 17% Si in-warehouse duty-paid China yuan/tonne		0%	24 May 19
65% min Mn 16% min Si \$/tonne fob India	7,000-7,100* 1,030-1,050*	0%	24 May 19 24 May 19
S.S. MINTER TO JOHN ST WILD TO US HIGH	1,000 1,000	U /U	24 May 19

 † week-on-week change continued >



				CARBON STEEL - CIS			
	Price	Change [†]	Assessed		Price	Change [†]	Assess
Northern Europe imports				CIS exports (Black Sea)			
Fastmarkets MB's assessment of cfr pric steel, € per tonne cfr main EU port	es for imported, non-EU c	origin, commercial	-quality carbon	Fastmarkets MB's assessment of CIS carbon steel, \$ per tonne fob stowed n		the CIS of comm	ercial-quality
Rebar	465-495*	0%	22 May 19	Billetindex	432*	3.35%	24 May
Wire rod (mesh quality)	500-510*	0%	22 May 19	Slab	450-455*	-0.55%	7 20 May
Plate (8-40mm)	550-560*	0%	22 May 19	Rebar	460-460*	0%	20 May
Hot rolled coil	460-470*	-0.53%	▼ 22 May 19	Wire rod (mesh)	495-500*	-1%	7 20 May
Cold rolled coil	560-570*	0%	22 May 19	Heavy plate (10-50mm)	550-585*	-0.87%	7 20 May
Hot-dip galvanized coil	590-600*	0%	22 May 19	Hot rolled coil	460-480*	0%	20 May
Southern Europe imports				Cold rolled coil	535-550*	0.46%	20 May
Fastmarkets MB's assessment of cfr pric steel, € per tonne cfr main EU port	es for imported, non-EU c	origin, commercial	-quality carbon	Russia domestic Fastmarkets MB's assessment of price	es within Russia for commerci	al-quality carbon	staal ruhlas
Rebar	465-495*	0%	22 May 19	tonne, carriage paid to (cpt) inc VAT	os within Nassia for commerci	ar-quality carbon	stooi, rubios
Wire rod (mesh quality)	500-510*	0%	22 May 19	Rebar	39,000-39,200*	0%	20 May
Plate (8-40mm)	510-520*	0%	22 May 19	Hot rolled sheet	43,000-44,500*	0%	20 May
Hot rolled coil	460-465*	0%	22 May 19	Cold rolled sheet	49,300-51,000*	0%	20 May
Cold rolled coil	540-550*	0%	22 May 19	Plate	43,500-45,000*	0%	20 May
Hot-dip galvanized coil	590-600*	0%	22 May 19				
Southern Europe exports				CARBON STEEL - MIDDLE EAST			
Fastmarkets MB's assessment of Southe commercial-quality carbon steel, € per to			outhern Europe of	Turkish synaste	Price	Change [†]	Assess
Rebar	465-480*	0%	22 May 19	Turkish exports	liink mille) mile en fan en en ent af a		
Wire rod (mesh quality)	470-485*	0%	22 May 19 22 May 19	Fastmarkets MB's assessment of Turk per tonne fob main Turkish port	kisn milis' prices for export of c	ommerciai-quality	carbon stee
	470-403	0 70	ZZIVIQY 13	Billet	435-440*	3.55%	23 May
Northern Europe domestic	=			Rebar	455-485*		23 May
Fastmarkets MB's assessment of prices carbon steel of EU origin, € per tonne del	, -	ne UK) for comme	rcial-quality	Wire rod (mesh quality)	510-525*		23 Mar
carbon steer or Eo origin, e per torine der	ivereu pasis poirii			vviic rod (mestr quality)	310-323		23 May
Dohor	EDE EAE*	00/	22 May 10	Merchant hare	550-555*		
	525-545* 500-520*	0%	22 May 19	Merchant bars Structural pine	550-555* 570-590*	0%	
Rebar Wire rod (mesh quality) Sections (medium)	500-520*	-2.86%	▼ 22 May 19	Structural pipe	570-590*	0%	08 May
Wire rod (mesh quality) Sections (medium)	500-520* 600-630*	-2.86% 0%	▼ 22 May 19 22 May 19	Structural pipe Hot rolled coil	570-590* 520-530*	0% 3.96%	08 May 24 May
Wire rod (mesh quality) Sections (medium) Beams	500-520*	-2.86% 0%	▼ 22 May 19	Structural pipe Hot rolled coil Hot dip galvanized	570-590*	0% 3.96%	08 May 24 May
	500-520* 600-630* 585-615* within the EU (excluding to	-2.86% 0% -0.83%	▼ 22 May 19 22 May 19 ▼ 22 May 19	Structural pipe Hot rolled coil	570-590* 520-530* 680-690*	0% 3.96% 4 5.38% 4	08 May 24 May 24 May
Wire rod (mesh quality) Sections (medium) Beams Southern Europe domestic Fastmarkets MB's assessment of prices	500-520* 600-630* 585-615* within the EU (excluding to	-2.86% 0% -0.83%	▼ 22 May 19 22 May 19 ▼ 22 May 19	Structural pipe Hot rolled coil Hot dip galvanized Turkish domestic Fastmarkets MB's assessment of pric	570-590* 520-530* 680-690*	0% 3.96% 4 5.38% 4	08 May 24 May 24 May
Wire rod (mesh quality) Sections (medium) Beams Southern Europe domestic Fastmarkets MB's assessment of prices carbon steel of EU origin, € per tonne del	500-520* 600-630* 585-615* within the EU (excluding tivered basis point	-2.86% 0% -0.83% the UK) for comme 0%	▼ 22 May 19 22 May 19 ▼ 22 May 19 ▼ 22 May 19	Structural pipe Hot rolled coil Hot dip galvanized Turkish domestic Fastmarkets MB's assessment of pricorigin, \$ pertonne ex-works	570-590* 520-530* 680-690* es within Turkey for commerci	0% 3.96% 4 5.38% 4 al-quality carbon 1.72% 4	08 May 24 May 24 May 25 teel of Turkis 23 May
Wire rod (mesh quality) Sections (medium) Beams Southern Europe domestic Fastmarkets MB's assessment of prices carbon steel of EU origin, €per tonne del	500-520* 600-630* 585-615* within the EU (excluding to livered basis point 500-510*	-2.86% 0% -0.83% the UK) for comme 0%	▼ 22 May 19 22 May 19 ▼ 22 May 19 ▼ 22 May 19 rcial-quality 22 May 19	Structural pipe Hot rolled coil Hot dip galvanized Turkish domestic Fastmarkets MB's assessment of pricorigin, \$ pertonne ex-works Billet	570-590* 520-530* 680-690* es within Turkey for commerci 440-445*	0% 3.96% 4 5.38% 4 4 4 4 1.72% 4 3.9% 4	08 May 24 May
Wire rod (mesh quality) Sections (medium) Beams Southern Europe domestic Fastmarkets MB's assessment of prices carbon steel of EU origin, € per tonne del Rebar Wire rod (mesh quality) Sections (medium)	500-520* 600-630* 585-615* within the EU (excluding to livered basis point 500-510* 500-520*	-2.86% 0% -0.83% he UK) for comme 0% -2.86%	▼ 22 May 19 22 May 19 ▼ 22 May 19 ▼ 22 May 19 ✓ 22 May 19 ▼ 22 May 19 ▼ 22 May 19	Structural pipe Hot rolled coil Hot dip galvanized Turkish domestic Fastmarkets MB's assessment of pricorigin, \$pertonne ex-works Billet Hot rolled coil	570-590* 520-530* 680-690* es within Turkey for commerci 440-445* 530-535*	0% 3.96%	08 May 24 May
Wire rod (mesh quality) Sections (medium) Beams Southern Europe domestic Fastmarkets MB's assessment of prices carbon steel of EU origin, € per tonne del Rebar Wire rod (mesh quality)	500-520* 600-630* 585-615* within the EU (excluding tivered basis point 500-510* 500-520* 610-635* 615-625*	-2.86% 0% -0.83% he UK) for comme 0% -2.86% 0%	▼ 22 May 19 22 May 19 ▼ 22 May 19 ▼ 22 May 19 rcial-quality 22 May 19 ▼ 22 May 19 22 May 19	Structural pipe Hot rolled coil Hot dip galvanized Turkish domestic Fastmarkets MB's assessment of pricorigin, \$pertonne ex-works Billet Hot rolled coil Cold rolled coil	570-590* 520-530* 680-690* es within Turkey for commerci 440-445* 530-535* 620-630*	0% 3.96%	08 May 24 May 24 May 24 May 24 May 224 May 24 May 24 May 24 May
Wire rod (mesh quality) Sections (medium) Beams Southern Europe domestic Fastmarkets MB's assessment of prices carbon steel of EU origin, € per tonne del Rebar Wire rod (mesh quality) Sections (medium) Beams Central Europe domestic € per tonne ellotrolled coil	500-520* 600-630* 585-615* within the EU (excluding the livered basis point 500-510* 500-520* 610-635* 615-625* ex-works 470-480*	-2.86% 0% -0.83% he UK) for comme 0% -2.86% 0%	▼ 22 May 19 22 May 19 ▼ 22 May 19 ▼ 22 May 19 rcial-quality 22 May 19 ▼ 22 May 19 22 May 19	Structural pipe Hot rolled coil Hot dip galvanized Turkish domestic Fastmarkets MB's assessment of pricorigin, \$pertonne ex-works Billet Hot rolled coil Cold rolled coil Hot dip galvanized Prepainted galvanized Fastmarkets MB's assessment of pricorigins	570-590* 520-530* 680-690* es within Turkey for commerci 440-445* 530-535* 620-630* 680-710* 770-805* es within Turkey for commerci	0% 3.96% 4 5.38% 4 1.72% 4 3.9% 4 3.31% 4 4.65% 4	08 May 24 May
Wire rod (mesh quality) Sections (medium) Beams Southern Europe domestic Fastmarkets MB's assessment of prices carbon steel of EU origin, € per tonne del. Rebar Wire rod (mesh quality) Sections (medium) Beams Central Europe domestic € per tonne ellotrolled coil	500-520* 600-630* 585-615* within the EU (excluding the livered basis point 500-510* 500-520* 610-635* 615-625* ex-works 470-480*	-2.86% 0% -0.83% he UK) for comme 0% -2.86% 0% 0%	▼ 22 May 19 22 May 19 ▼ 22 May 19 rcial-quality 22 May 19 ▼ 22 May 19 22 May 19 22 May 19 22 May 19	Structural pipe Hot rolled coil Hot dip galvanized Turkish domestic Fastmarkets MB's assessment of pricorigin, \$pertonne ex-works Billet Hot rolled coil Cold rolled coil Hot dip galvanized Prepainted galvanized	570-590* 520-530* 680-690* es within Turkey for commerci 440-445* 530-535* 620-630* 680-710* 770-805* es within Turkey for commerci	0% 3.96%	08 May 24 May 24 May 24 May 23 May 24 May
Wire rod (mesh quality) Sections (medium) Beams Southern Europe domestic Fastmarkets MB's assessment of prices carbon steel of EU origin, € per tonne del Rebar Wire rod (mesh quality) Sections (medium) Beams Central Europe domestic € per tonne et Hot rolled coil Poland domestic zloty per tonne ex-were results and the sections of the secti	500-520* 600-630* 585-615* within the EU (excluding trivered basis point 500-510* 500-520* 610-635* 615-625* ex-works 470-480* orks 2,120-2,240*	-2.86% 0% -0.83% he UK) for comme 0% -2.86% 0% 0%	▼ 22 May 19 22 May 19 ▼ 22 May 19 rcial-quality 22 May 19 ▼ 22 May 19 22 May 19 22 May 19 22 May 19	Structural pipe Hot rolled coil Hot dip galvanized Turkish domestic Fastmarkets MB's assessment of pricorigin, \$pertonne ex-works Billet Hot rolled coil Cold rolled coil Hot dip galvanized Prepainted galvanized Fastmarkets MB's assessment of pricorigin, TRY pertonne ex-works 18% V	570-590* 520-530* 680-690* es within Turkey for commerci 440-445* 530-535* 620-630* 680-710* 770-805* es within Turkey for commerci	0% 3.96% 4 5.38% 4 1.72% 4 3.9% 4 3.31% 4 4.65% 4	08 May 24 May 24 May 23 May 24 May 37 May 38 May
Wire rod (mesh quality) Sections (medium) Beams Southern Europe domestic Fastmarkets MB's assessment of prices carbon steel of EU origin, € per tonne del. Rebar Wire rod (mesh quality) Sections (medium) Beams Central Europe domestic € per tonne entrolled coil Poland domestic zloty per tonne ex-werker Rebar Northern Europe € per tonne ex-works	500-520* 600-630* 585-615* within the EU (excluding to livered basis point 500-510* 500-520* 610-635* 615-625* ex-works 470-480* orks 2,120-2,240* s	-2.86% 0% -0.83% he UK) for comme 0% -2.86% 0% 0% 0% -0.91%	▼ 22 May 19 22 May 19 ▼ 22 May 19 ▼ 22 May 19 ▼ 22 May 19 ▼ 22 May 19 24 May 19	Structural pipe Hot rolled coil Hot dip galvanized Turkish domestic Fastmarkets MB's assessment of pricorigin, \$ pertonne ex-works Billet Hot rolled coil Cold rolled coil Hot dip galvanized Prepainted galvanized Fastmarkets MB's assessment of pricorigin, TRY pertonne ex-works 18% V Rebar Wire rod (mesh quality)	570-590* 520-530* 680-690* es within Turkey for commerci 440-445* 530-535* 620-630* 680-710* 770-805* es within Turkey for commerci /AT included 3,330-3,420*	0% 3.96%	08 May 24 May 24 May 23 May 24 May
Wire rod (mesh quality) Sections (medium) Beams Southern Europe domestic Fastmarkets MB's assessment of prices carbon steel of EU origin, € per tonne del. Rebar Wire rod (mesh quality) Sections (medium) Beams Central Europe domestic € per tonne € Hot rolled coil Poland domestic zloty per tonne ex-we Rebar Northern Europe € per tonne ex-works Plate (8-40mm)	500-520* 600-630* 585-615* within the EU (excluding to livered basis point 500-510* 500-520* 610-635* 615-625* ex-works 470-480* orks 2,120-2,240* s 580-590*	-2.86% 0% -0.83% he UK) for comme 0% -2.86% 0% 0% 0% -0.91%	▼ 22 May 19 22 May 19 ▼ 22 May 19 ▼ 22 May 19 ▼ 22 May 19 ▼ 22 May 19 ▼ 22 May 19 22 May 19 22 May 19 22 May 19 ▼ 24 May 19 22 May 19	Structural pipe Hot rolled coil Hot dip galvanized Turkish domestic Fastmarkets MB's assessment of price origin, \$ pertonne ex-works Billet Hot rolled coil Cold rolled coil Hot dip galvanized Prepainted galvanized Fastmarkets MB's assessment of price origin, TRY pertonne ex-works 18% V Rebar Wire rod (mesh quality) Turkish imports	570-590* 520-530* 680-690* es within Turkey for commerci 440-445* 530-535* 620-630* 680-710* 770-805* es within Turkey for commerci /AT included 3,330-3,420* 3,600-3,790*	0% 3.96% 4.5.38% al-quality carbon 3.9% 4.65% 4.65% 4.404 4.65% 4.404 4.227%	08 May 24 May 23 May 23 May
Wire rod (mesh quality) Sections (medium) Beams Southern Europe domestic Fastmarkets MB's assessment of prices carbon steel of EU origin, € per tonne del. Rebar Wire rod (mesh quality) Sections (medium) Beams Central Europe domestic € per tonne € Hot rolled coil Poland domestic zloty per tonne ex-ware. Rebar Northern Europe € per tonne ex-works. Plate (8-40mm) Hot rolled coil	500-520* 600-630* 585-615* within the EU (excluding to livered basis point 500-510* 500-520* 610-635* 615-625* ex-works 470-480* orks 2,120-2,240* 580-590* 480-490*	-2.86% 0% -0.83% he UK) for comme 0% -2.86% 0% 0% -0.91% 0%	▼ 22 May 19 22 May 19 ▼ 22 May 19 ▼ 22 May 19 ▼ 22 May 19 ▼ 22 May 19 ▼ 22 May 19 22 May 19 22 May 19 ■ 22 May 19 ■ 22 May 19 ■ 24 May 19 ■ 24 May 19 ■ 22 May 19	Structural pipe Hot rolled coil Hot dip galvanized Turkish domestic Fastmarkets MB's assessment of price origin, \$ pertonne ex-works Billet Hot rolled coil Gold rolled coil Hot dip galvanized Prepainted galvanized Fastmarkets MB's assessment of price origin, TRY pertonne ex-works 18% V Rebar Wire rod (mesh quality) Turkish imports Fastmarkets MB's assessment of price	570-590* 520-530* 680-690* es within Turkey for commerci 440-445* 530-535* 620-630* 680-710* 770-805* es within Turkey for commerci /AT included 3,330-3,420* 3,600-3,790*	0% 3.96% 4.5.38% al-quality carbon 3.9% 4.65% 4.65% 4.404 4.65% 4.404 4.227%	08 May 24 May 23 May 23 May
Wire rod (mesh quality) Sections (medium) Beams Southern Europe domestic Fastmarkets MB's assessment of prices carbon steel of EU origin, € per tonne del Rebar Wire rod (mesh quality) Sections (medium) Beams Central Europe domestic € per tonne € Hotrolled coil Poland domestic zloty per tonne ex-ware Rebar Northern Europe € per tonne ex-works Plate (8-40mm) Hotrolled coil Cold rolled coil	500-520* 600-630* 585-615* within the EU (excluding to livered basis point) 500-510* 500-520* 610-635* 615-625* ex-works 470-480* orks 2,120-2,240* 8 580-590* 480-490* 570-590*	-2.86% 0% -0.83% he UK) for comme 0% -2.86% 0% 0% -0.91% 0% 0% 0% 0.87%	▼ 22 May 19 22 May 19 ▼ 22 May 19 ▼ 22 May 19 ▼ 22 May 19 ▼ 22 May 19	Structural pipe Hot rolled coil Hot dip galvanized Turkish domestic Fastmarkets MB's assessment of pricorigin, \$ pertonne ex-works Billet Hot rolled coil Hot dip galvanized Prepainted galvanized Fastmarkets MB's assessment of pricorigin, TRY pertonne ex-works 18% V Rebar Wire rod (mesh quality) Turkish imports Fastmarkets MB's assessment of pricomain Turkish port	570-590* 520-530* 680-690* es within Turkey for commerci 440-445* 530-535* 620-630* 680-710* 770-805* es within Turkey for commerci /AT included 3,330-3,420* 3,600-3,790*	0% 3.96% 4.5.38% 1.72% 4.3.9% 4.65% 4.65% 4.4.equality carbon 2.27% 3.21% 4.4.equality carbon steel	08 May 24 May 23 May 23 May 3 Per tonne
Wire rod (mesh quality) Sections (medium) Beams Southern Europe domestic Fastmarkets MB's assessment of prices carbon steel of EU origin, € per tonne del Rebar Wire rod (mesh quality) Sections (medium) Beams Central Europe domestic € per tonne € Hotrolled coil Poland domestic zloty per tonne ex-we Rebar Northern Europe € per tonne ex-works Plate (8-40mm) Hotrolled coil Cold rolled coil Hot-dip galvanized coil	500-520* 600-630* 585-615* within the EU (excluding the fivered basis point) 500-510* 500-520* 610-635* 615-625* ex-works 470-480* orks 2,120-2,240* 580-590* 480-490* 570-590*	-2.86% 0% -0.83% he UK) for comme 0% -2.86% 0% 0% -0.91% 0%	▼ 22 May 19 22 May 19 ▼ 22 May 19 ▼ 22 May 19 ▼ 22 May 19 ▼ 22 May 19 ▼ 22 May 19 22 May 19 22 May 19 ■ 22 May 19 ■ 22 May 19 ■ 24 May 19 ■ 24 May 19 ■ 22 May 19	Structural pipe Hot rolled coil Hot dip galvanized Turkish domestic Fastmarkets MB's assessment of price origin, \$ pertonne ex-works Billet Hot rolled coil Gold rolled coil Hot dip galvanized Prepainted galvanized Fastmarkets MB's assessment of price origin, TRY pertonne ex-works 18% V Rebar Wire rod (mesh quality) Turkish imports Fastmarkets MB's assessment of price	570-590* 520-530* 680-690* es within Turkey for commerci 440-445* 530-535* 620-630* 680-710* 770-805* es within Turkey for commerci /AT included 3,330-3,420* 3,600-3,790* es for imported commercial-qu	0% 3.96% 4.5.38% 1.72% 4.3.9% 4.65% 4.65% 4.4equality carbon 2.27% 3.21% 4.4equality carbon 4.227% 4.4equality carbon 4.227% 4.4equality carbon steel	08 May 24 May 23 May 23 May
Wire rod (mesh quality) Sections (medium) Beams Southern Europe domestic Fastmarkets MB's assessment of prices carbon steel of EU origin, € per tonne del Rebar Wire rod (mesh quality) Sections (medium) Beams Central Europe domestic € per tonne € Hot rolled coil Poland domestic zloty per tonne ex-we Rebar Northern Europe € per tonne ex-works Plate (8-40mm) Hot rolled coil Cold rolled coil Hot-dip galvanized coil Southern Europe € per tonne ex-works	500-520* 600-630* 585-615* within the EU (excluding the livered basis point 500-510* 500-520* 610-635* 615-625* ex-works 470-480* orks 2,120-2,240* 58 580-590* 480-490* 570-590* 570-590* 5	-2.86% 0% -0.83% he UK) for comme 0% -2.86% 0% 0% -0.91% 0% 0% 0.87% 0%	▼ 22 May 19 22 May 19 ▼ 22 May 19 ▼ 22 May 19 ▼ 22 May 19 ▼ 22 May 19	Structural pipe Hot rolled coil Hot dip galvanized Turkish domestic Fastmarkets MB's assessment of pricorigin, \$ pertonne ex-works Billet Hot rolled coil Hot dip galvanized Prepainted galvanized Fastmarkets MB's assessment of pricorigin, TRY pertonne ex-works 18% V Rebar Wire rod (mesh quality) Turkish imports Fastmarkets MB's assessment of pricomain Turkish port Billet	570-590* 520-530* 680-690* es within Turkey for commerci 440-445* 530-535* 620-630* 680-710* 770-805* es within Turkey for commerci /AT included 3,330-3,420* 3,600-3,790* es for imported commercial-qu 430-440*	0% 3.96% 4.5.38% al-quality carbon 1.72% 4.3.9% 4.65% 4.65% 4.4.65% 4.2.27% 3.21% 4.2.27% 4.3.21% 4.3	08 May 24 May 23 May 23 May 23 May 23 May 24 May
Wire rod (mesh quality) Sections (medium) Beams Southern Europe domestic Fastmarkets MB's assessment of prices carbon steel of EU origin, €per tonne del Rebar Wire rod (mesh quality) Sections (medium) Beams Central Europe domestic € per tonne € Hot rolled coil Poland domestic zloty per tonne ex-works Plate (8-40mm) Hot rolled coil Cold rolled coil Hot-dip galvanized coil Southern Europe € per tonne ex-works Plate (8-40mm)	500-520* 600-630* 585-615* within the EU (excluding the livered basis point 500-510* 500-520* 610-635* 615-625* ex-works 470-480* orks 2,120-2,240* 5 580-590* 480-490* 570-590* 570-590* 5 50-590* 5 50-590*	-2.86% 0% -0.83% he UK) for comme 0% -2.86% 0% 0% 0% -0.91% 0% 0.87% 0%	▼ 22 May 19 22 May 19 ▼ 22 May 19 ▼ 22 May 19 ▼ 22 May 19 ▼ 22 May 19	Structural pipe Hot rolled coil Hot dip galvanized Turkish domestic Fastmarkets MB's assessment of pricorigin, \$ pertonne ex-works Billet Hot rolled coil Cold rolled coil Hot dip galvanized Prepainted galvanized Fastmarkets MB's assessment of pricorigin, TRY pertonne ex-works 18% v Rebar Wire rod (mesh quality) Turkish imports Fastmarkets MB's assessment of pricomain Turkish port Billet Hot rolled coil Cold rolled coil	570-590* 520-530* 680-690* es within Turkey for commerci 440-445* 530-535* 620-630* 680-710* 770-805* es within Turkey for commerci /AT included 3,330-3,420* 3,600-3,790* es for imported commercial-qu 430-440* 490-505*	0% 3.96% 4.5.38% al-quality carbon 1.72% 4.3.9% 4.65% 4.65% 4.4.65% 4.2.27% 3.21% 4.2.27% 4.2	08 May 24 May 23 May 23 May 23 May 23 May 24 May
Wire rod (mesh quality) Sections (medium) Beams Southern Europe domestic Fastmarkets MB's assessment of prices carbon steel of EU origin, €per tonne del Rebar Wire rod (mesh quality) Sections (medium) Beams Central Europe domestic € per tonne € Hot rolled coil Poland domestic zloty per tonne ex-works Plate (8-40mm) Hot rolled coil Southern Europe € per tonne ex-works Plate (8-40mm) Hot-dip galvanized coil Southern Europe € per tonne ex-works Plate (8-40mm) Hot rolled (8-40mm)	500-520* 600-630* 585-615* within the EU (excluding to livered basis point 500-510* 500-520* 610-635* 615-625* ex-works 470-480* orks 2,120-2,240* 5 580-590* 480-490* 570-590* 570-590* 570-590* 5 520-540* 445-460*	-2.86% 0% -0.83% he UK) for comme 0% -2.86% 0% 0% 0% -0.91% 0% 0.87% 0% 0%	▼ 22 May 19 22 May 19 ▼ 22 May 19 ▼ 22 May 19 ▼ 22 May 19 ▼ 22 May 19	Structural pipe Hot rolled coil Hot dip galvanized Turkish domestic Fastmarkets MB's assessment of pricorigin, \$pertonne ex-works Billet Hot rolled coil Cold rolled coil Hot dip galvanized Prepainted galvanized Fastmarkets MB's assessment of pricorigin, TRY pertonne ex-works 18% v Rebar Wire rod (mesh quality) Turkish imports Fastmarkets MB's assessment of pricomain Turkish port Billet Hot rolled coil Cold rolled coil UAE imports	570-590* 520-530* 680-690* es within Turkey for commerci 440-445* 530-535* 620-630* 680-710* 770-805* es within Turkey for commerci /AT included 3,330-3,420* 3,600-3,790* es for imported commercial-qu 430-440* 490-505* 560-565*	0% 3.96% 4 5.38% 4 1.72% 3.9% 4.331% 4.65% 4.65% 4.227% 3.21% 4.235% 4.1.02% 4.35% 4.35%	08 May 24 May
Wire rod (mesh quality) Sections (medium) Beams Southern Europe domestic Fastmarkets MB's assessment of prices carbon steel of EU origin, €per tonne del Rebar Wire rod (mesh quality) Sections (medium) Beams Central Europe domestic € per tonne € Hot rolled coil Poland domestic zloty per tonne ex-works Plate (8-40mm) Hot rolled coil Southern Europe € per tonne ex-works Plate (8-40mm) Hot-dip galvanized coil Southern Europe € per tonne ex-works Plate (8-40mm) Hot rolled coil Cold rolled coil Cold rolled coil Cold rolled coil	500-520* 600-630* 585-615* within the EU (excluding to livered basis point 500-510* 500-520* 610-635* 615-625* ex-works 470-480* orks 2,120-2,240* 5 580-590* 480-490* 570-590* 570-590* 5 520-540* 445-460* 530-550*	-2.86% 0% -0.83% he UK) for comme 0% -2.86% 0% 0% 0% -0.91% 0% 0.87% 0% 0% 0%	▼ 22 May 19 22 May 19 ▼ 22 May 19 ▼ 22 May 19 ▼ 22 May 19 ▼ 22 May 19	Structural pipe Hot rolled coil Hot dip galvanized Turkish domestic Fastmarkets MB's assessment of pricorigin, \$pertonne ex-works Billet Hot rolled coil Cold rolled coil Hot dip galvanized Prepainted galvanized Fastmarkets MB's assessment of pricorigin, TRY pertonne ex-works 18% VRebar Wire rod (mesh quality) Turkish imports Fastmarkets MB's assessment of pricomain Turkish port Billet Hot rolled coil UAE imports Fastmarkets MB's assessment of pricorigin Tarkish port Billet Hot rolled coil UAE imports Fastmarkets MB's assessment of pricoriginal	570-590* 520-530* 680-690* es within Turkey for commerci 440-445* 530-535* 620-630* 680-710* 770-805* es within Turkey for commerci /AT included 3,330-3,420* 3,600-3,790* es for imported commercial-qu 430-440* 490-505* 560-565*	0% 3.96% 4 5.38% 4 1.72% 3.9% 4.331% 4.65% 4.65% 4.227% 3.21% 4.235% 4.1.02% 4.35% 4.35%	08 May 24 May
Wire rod (mesh quality) Sections (medium) Beams Southern Europe domestic Fastmarkets MB's assessment of prices carbon steel of EU origin, € per tonne del Rebar Wire rod (mesh quality) Sections (medium) Beams Central Europe domestic € per tonne € Hot rolled coil Poland domestic zloty per tonne ex-works Plate (8-40mm) Hot rolled coil Southern Europe € per tonne ex-works Plate (8-40mm) Hot-dip galvanized coil Southern Europe € per tonne ex-works Plate (8-40mm) Hot rolled coil Cold rolled coil Cold rolled coil Cold rolled coil	500-520* 600-630* 585-615* within the EU (excluding to livered basis point 500-510* 500-520* 610-635* 615-625* ex-works 470-480* orks 2,120-2,240* 5 580-590* 480-490* 570-590* 570-590* 570-590* 5 520-540* 445-460*	-2.86% 0% -0.83% he UK) for comme 0% -2.86% 0% 0% 0% -0.91% 0% 0.87% 0% 0%	▼ 22 May 19 22 May 19 ▼ 22 May 19 ▼ 22 May 19 ▼ 22 May 19 ▼ 22 May 19	Structural pipe Hot rolled coil Hot dip galvanized Turkish domestic Fastmarkets MB's assessment of pricorigin, \$ pertonne ex-works Billet Hot rolled coil Gold rolled coil Hot dip galvanized Prepainted galvanized Fastmarkets MB's assessment of pricorigin, TRY pertonne ex-works 18% v Rebar Wire rod (mesh quality) Turkish imports Fastmarkets MB's assessment of pricomain Turkish port Billet Hot rolled coil UAE imports Fastmarkets MB's assessment of pricorigin terms of terms o	570-590* 520-530* 680-690* es within Turkey for commerci 440-445* 530-535* 620-630* 680-710* 770-805* es within Turkey for commerci /AT included 3,330-3,420* 3,600-3,790* es for imported commercial-qu 430-440* 490-505* 560-565*	0% 3.96% 4.5.38% 4.65% 4.65% 4.65% 4.227% 3.21% 4.02% 4.1.02% 4.35% 4.4.02% 4.	08 May 24 May 23 May 23 May 23 May 24 May 25 per tonne
Wire rod (mesh quality) Sections (medium) Beams Southern Europe domestic Fastmarkets MB's assessment of prices carbon steel of EU origin, € per tonne del Rebar Wire rod (mesh quality) Sections (medium) Beams Central Europe domestic € per tonne € Hot rolled coil Poland domestic zloty per tonne ex-works Plate (8-40mm) Hot rolled coil Southern Europe € per tonne ex-works Plate (8-40mm) Hot-dip galvanized coil Southern Europe € per tonne ex-works Plate (8-40mm) Hot rolled coil Cold rolled coil Cold rolled coil Cold rolled coil	500-520* 600-630* 585-615* within the EU (excluding to livered basis point 500-510* 500-520* 610-635* 615-625* ex-works 470-480* orks 2,120-2,240* 5 580-590* 480-490* 570-590* 570-590* 5 520-540* 445-460* 530-550*	-2.86% 0% -0.83% he UK) for comme 0% -2.86% 0% 0% 0% -0.91% 0% 0.87% 0% 0% 0%	▼ 22 May 19 22 May 19 ▼ 22 May 19 ▼ 22 May 19 ▼ 22 May 19 ▼ 22 May 19	Structural pipe Hot rolled coil Hot dip galvanized Turkish domestic Fastmarkets MB's assessment of pricorigin, \$ pertonne ex-works Billet Hot rolled coil Gold rolled coil Hot dip galvanized Prepainted galvanized Fastmarkets MB's assessment of pricorigin, TRY pertonne ex-works 18% v Rebar Wire rod (mesh quality) Turkish imports Fastmarkets MB's assessment of pricomain Turkish port Billet Hot rolled coil UAE imports Fastmarkets MB's assessment of pricomain Turkish port Billet Hot rolled coil UAE imports Fastmarkets MB's assessment of pricomain Turkish B's assessment of pricomain Turkish port Billet	570-590* 520-530* 680-690* es within Turkey for commerci 440-445* 530-535* 620-630* 680-710* 770-805* es within Turkey for commerci /AT included 3,330-3,420* 3,600-3,790* es for imported commercial-qu 430-440* 490-505* 560-565* es for imported commercial-qu 450-485*	0% 3.96% 4 5.38% 4 1.72% 3.9% 4.331% 4.65% 4.65% 4.227% 3.21% 4.235% 4.1.02% 4.35% 4.35% 4.35% 4.4.05%	08 May 24 May
Wire rod (mesh quality) Sections (medium) Beams Southern Europe domestic Fastmarkets MB's assessment of prices carbon steel of EU origin, € per tonne del Rebar Wire rod (mesh quality) Sections (medium) Beams Central Europe domestic € per tonne € Hot rolled coil Poland domestic zloty per tonne ex-works Plate (8-40mm) Hot-dip galvanized coil Southern Europe € per tonne ex-works Plate (8-40mm) Hot rolled coil Cold rolled coil Cold rolled coil Cold rolled coil Cold rolled coil	500-520* 600-630* 585-615* within the EU (excluding to livered basis point 500-510* 500-520* 610-635* 615-625* ex-works 470-480* orks 2,120-2,240* 5 580-590* 480-490* 570-590* 570-590* 5 520-540* 445-460* 530-550*	-2.86% 0% -0.83% he UK) for comme 0% -2.86% 0% 0% 0% -0.91% 0% 0.87% 0% 0% 0%	▼ 22 May 19 22 May 19 ▼ 22 May 19 ▼ 22 May 19 ▼ 22 May 19 ▼ 22 May 19	Structural pipe Hot rolled coil Hot dip galvanized Turkish domestic Fastmarkets MB's assessment of pricorigin, \$ pertonne ex-works Billet Hot rolled coil Cold rolled coil Hot dip galvanized Prepainted galvanized Fastmarkets MB's assessment of pricorigin, TRY pertonne ex-works 18% VRebar Wire rod (mesh quality) Turkish imports Fastmarkets MB's assessment of pricomain Turkish port Billet Hot rolled coil UAE imports Fastmarkets MB's assessment of pricomain Turkish port Billet Hot rolled coil UAE imports Fastmarkets MB's assessment of pricomain Turkish Billet Rebar	570-590* 520-530* 680-690* es within Turkey for commerci 440-445* 530-535* 620-630* 680-710* 770-805* es within Turkey for commerci /AT included 3,330-3,420* 3,600-3,790* es for imported commercial-qu 430-440* 490-505* 560-565* es for imported commercial-qu 450-485* 515-520*	0% 3.96% 4 5.38% 4 1.72% 3.9% 4.331% 4.65% 4.65% 4.321% 4.102% 4.1.35% 4.1.02% 4.1.35% 4.1.02% 4.1.35% 4.1.02% 4.1.35% 4.1.02% 4.1.35% 4.1.02% 4.1.35% 4.1.02% 4.1.35% 4.1.02% 4.1.35% 4.1.02% 4.1.35% 4.1.02% 4.1.35% 4.1.02% 4.1.35% 4.1.02% 4.1.35% 4.1.02% 4.1.35% 4.1.02% 4.1.35% 4.1.02% 4.1.35% 4.1.02% 4.1.35% 4.1.02% 4.1.35% 4.1.02% 4.1.35% 4.1.02%	08 May 24 May 23 May 23 May 24 May 25 Per tonne
Wire rod (mesh quality) Sections (medium) Beams Southern Europe domestic Fastmarkets MB's assessment of prices carbon steel of EU origin, € per tonne del Rebar Wire rod (mesh quality) Sections (medium) Beams	500-520* 600-630* 585-615* within the EU (excluding to livered basis point 500-510* 500-520* 610-635* 615-625* ex-works 470-480* orks 2,120-2,240* 5 580-590* 480-490* 570-590* 570-590* 5 520-540* 445-460* 530-550*	-2.86% 0% -0.83% he UK) for comme 0% -2.86% 0% 0% 0% -0.91% 0% 0.87% 0% 0% 0%	▼ 22 May 19 22 May 19 ▼ 22 May 19 ▼ 22 May 19 ▼ 22 May 19 ▼ 22 May 19	Structural pipe Hot rolled coil Hot dip galvanized Turkish domestic Fastmarkets MB's assessment of pricorigin, \$pertonne ex-works Billet Hot rolled coil Cold rolled coil Hot dip galvanized Prepainted galvanized Fastmarkets MB's assessment of pricorigin, TRY pertonne ex-works 18% VRebar Wire rod (mesh quality) Turkish imports Fastmarkets MB's assessment of pricomain Turkish port Billet Hot rolled coil UAE imports Fastmarkets MB's assessment of pricorigin transports Fastmarkets MB's assessment of pricorigi	570-590* 520-530* 680-690* es within Turkey for commerci 440-445* 530-535* 620-630* 680-710* 770-805* es within Turkey for commerci /AT included 3,330-3,420* 3,600-3,790* es for imported commercial-qu 430-440* 490-505* 560-565* es for imported commercial-qu 450-485* 515-520* 520-540*	0% 3.96% 4.5.38% 4.1.72% 4.3.9% 4.65% 4.65% 4.65% 4.1.02% 4.1.35% 4.1.02% 4.1.	08 May 24 May 23 May 23 May 24 May 24 May 24 May 21 May 21 May 21 May 21 May 21 May 21 May
Wire rod (mesh quality) Sections (medium) Beams Southern Europe domestic Fastmarkets MB's assessment of prices carbon steel of EU origin, € per tonne del Rebar Wire rod (mesh quality) Sections (medium) Beams Central Europe domestic € per tonne € Hot rolled coil Poland domestic zloty per tonne ex-works Plate (8-40mm) Hot rolled coil Cold rolled coil Southern Europe € per tonne ex-works Plate (8-40mm) Hot rolled coil Cold rolled coil Cold rolled coil Cold rolled coil Cold rolled coil	500-520* 600-630* 585-615* within the EU (excluding to livered basis point 500-510* 500-520* 610-635* 615-625* ex-works 470-480* orks 2,120-2,240* 5 580-590* 480-490* 570-590* 570-590* 5 520-540* 445-460* 530-550*	-2.86% 0% -0.83% he UK) for comme 0% -2.86% 0% 0% 0% -0.91% 0% 0.87% 0% 0% 0%	▼ 22 May 19 22 May 19 ▼ 22 May 19 ▼ 22 May 19 ▼ 22 May 19 ▼ 22 May 19	Structural pipe Hot rolled coil Hot dip galvanized Turkish domestic Fastmarkets MB's assessment of pricorigin, \$ pertonne ex-works Billet Hot rolled coil Cold rolled coil Hot dip galvanized Prepainted galvanized Fastmarkets MB's assessment of pricorigin, TRY pertonne ex-works 18% VRebar Wire rod (mesh quality) Turkish imports Fastmarkets MB's assessment of pricomain Turkish port Billet Hot rolled coil UAE imports Fastmarkets MB's assessment of pricomain Turkish port Billet Hot rolled coil UAE imports Fastmarkets MB's assessment of pricomain Turkish Billet Rebar	570-590* 520-530* 680-690* es within Turkey for commerci 440-445* 530-535* 620-630* 680-710* 770-805* es within Turkey for commerci /AT included 3,330-3,420* 3,600-3,790* es for imported commercial-qu 430-440* 490-505* 560-565* es for imported commercial-qu 450-485* 515-520*	0% 3.96% 4.5.38% 4.5.38% 4.1.72% 4.3.9% 4.65% 4.65% 4.65% 4.1.35% 4.65% 4.1.35% 4.65% 4.65% 4.65% 4.65% 4.66% 4.66% 4.66% 4.66%	08 May 24 May 23 May 23 May 24 May 25 Per tonne

Hot rolled coil

†week-on-week change

540-545*

-0.46%

▼ 21 May 19

continued >





	Price	Change	Assessed		Price	Change	Assessed
UAE domestic				Wire rod (low carbon)	645-680*	-3.99% ▼	21 May 19
Fastmarkets MB's assessment of price	es within UAE for commercia	l-quality carbon stee	l of UAE origin,	Medium sections	780-790*	-1.88% V	25 Apr 1
dirhams per tonne ex-works				Medium plate	780-840*	-2.41% V	15 May 19
Rebar	1,880-1,881*	-6.14% ▼	21 May 19	Hot rolled coil (commodity)	580-620*	-6.25% ▼	15 May 19
Iran exports				Cold rolled coil	730-780*	-1.95% ▼	15 May 19
Fastmarkets MB's assessment of price	es quoted by Iranian supplier	s for commercial-qu	ality carbon	Hot dipped galvanized 0.012-0.015, G30	980-1,000*	-1% ▼	15 May 19
steel to overseas buyers, \$ per tonne f		sioi commorciai qu	anty our borr	ERW linepipe (X42)	1,100-1,140*	-3.86% ▼	
Billet	380-390*	0.65%	22 May 19	OCTG API5CT - casing J55	1,015-1,085*	-1.41% V	
Slab	380-390*	-0.65% ▼	-	US domestic	1,010 1,000	1.1170	00710110
Egyptian domestic		0.0070	22				
071				Fastmarket AMM's assessment of prices with		rcial-quality carbon	steel of US or
Fastmarkets MB's assessment of price origin, E£ per tonne ex-works	as within Egypt for confinerci	ar-quality carbon ste	ei or Egyptian	Canadian origin, \$ per short ton, delivery term		0.700/	1
•	11 500 11 000*	00/	22 May 10	Rebar (fob mill)	680-700*	-0.72% V	
Rebar	11,580-11,980*	0%	23 May 19	Plate (fob mill)	870-870*	-2.25% V	
Egyptian import				Hot rolled sheet Midwest index (fob mill)	609-609*	-3.24% V	
Fastmarkets MB's assessment of price	es for imported commercial-q	uality carbon steel,	\$ per tonne cfr	Cold rolled sheet (fob mill)	760-760*	-1.3% V	23 May 19
main port				Hot-dip galvanized (base) Midwest	760-760*	-2.56% V	7 22 May 10
Billet	450-455*	1.69%	23 May 19	(fob mill)			,
				OCTG API5CT - casing J55 (fob mill)	1,150-1,200*	-3.49% ▼	•
CARBON STEEL - LATIN AMERICA				Fastmarket AMM's assessment of prices with		ercial-quality carbon	steel of US or
	Price	Change [†]	Assessed	Canadian origin, \$ per hundredweight, delive		00/	00.4
Latin American exports				Merchant bar 3 x 3 1/4 angle (fob mill)	37.5-37.5*	0%	26 Apr 19
Fastmarkets MB's assessment of Latin	n American mills' nrices for ex	rnort outside Latin A	merica of	CARBON STEEL - ASIA			
commercial-quality carbon steel, \$ per		•	mened of		Price	Change [†]	Assessed
Billet	440-450*	0%	24 May 19	China annuarta	11100	Ollange	Addidate
Slab, Brazil	440-520*	-6.8% ▼		China exports			
Wire rod mesh quality	560-570*	0%	24 May 19	Fastmarkets MB's assessment of Chinese m	ills prices for export of	commercial-quality	carbon steel,
Heavy plate over 10mm	600-610*	0%	24 May 19	per tonne fob main China port	500 500+	1 000/	
			-	Rebarindex	522-522*	-1.06% V	
Hot rolled coil (dry)	540-545*	0%	24 May 19	Wire rod (mesh quality)	530-535*	0%	21 May 19
Cold rolled coil	590-600*	0%	24 May 19	Heavy plate	530-535*	-1.11% V	
South America imports				Hot rolled coil index	506-506*	-2.91% V	-, -
Fastmarkets MB's assessment of cfr p	rices for imported, commerci	al-quality carbon ste	eel,	Cold rolled coil	545-550*	-2.23% ▼	21 May 19
\$ per tonne cfr main ports				Galvanized coil 1mm	610-615*	-0.41% ▼	21 May 19
Plate	580-590*	0%	24 May 19	Eastern China domestic			
Hot rolled coil	540-550*	0.46%	24 May 19	Fastmarkets MB's assessment of prices in ea	astem China for comm	nercial-quality carbo	n steel of
Cold rolled coil	600-610*	-0.41% ▼	24 May 19	Chinese origin, yuan per tonne ex-warehous			
Galvanized coil	645-660*	0%	24 May 19	Rebar	4,030-4,070*	0.12%	24 May 19
Argentina domestic \$ per tonne ex-	works			Wire rod (mesh)	4,000-4,050*	-1.83% ▼	24 May 19
Fastmarkets MB's assessment of price	es within Argentina for comm	ercial-quality carbor	steel, \$ per	Sections	3,840-3,900*	-0.13% ▼	24 May 19
tonne	3	, , , , , , , , , , , , , , , , , , , ,	,,,,,	Plate	3,940-4,050*	-1.11% V	
Hot rolled coil	720-725*	-3.99% ▼	10 May 19	Hot rolled coil (min 2mm)	4,010-4,020*	0.12%	-, -
Cold rolled coil	815-820*	-4.39% ▼	10 May 19	Cold rolled coil (0.5 - 2 mm)	4,200-4,260*	-0.12% V	
				Hot-dip galvanized coil	4,690-4,700*	0%	24 May 19
Galvanized coil	1.045-1.125*	-3.98% ▼	TUIVIAV 19				
Galvanized coil Rebar	1,045-1,125* 850-860*	-3.98% ▼	10 May 19 10 May 19	No de con Oldre de conde	4,030-4,700	0 70	
Rebar	1,045-1,125* 850-860*	-3.98% ▼ 0%	10 May 19	Northern China domestic			
Rebar Brazil domestic	850-860*	0%	10 May 19	Fastmarkets MB's assessment of prices in no	orthern China for comr		
Rebar Brazil domestic Fastmarkets MB's assessment of price	850-860*	0%	10 May 19	Fastmarkets MB's assessment of prices in no Chinese origin (Tangshan), yuan per tonne e	orthern China for comr x-works	mercial-quality carb	on steel of
Rebar Brazil domestic Fastmarkets MB's assessment of price tonne ex-works	850-860* es within Brazil for commercia	0% al-quality carbon ste	10 May 19 el, Reais per	Fastmarkets MB's assessment of prices in no	orthern China for comr		on steel of
Rebar Brazil domestic Fastmarkets MB's assessment of price tonne ex-works Hot rolled coil	850-860* es within Brazil for commercia 2,560-2,610*	0% al-quality carbon ste 0%	10 May 19 el, Reais per 03 May 19	Fastmarkets MB's assessment of prices in no Chinese origin (Tangshan), yuan per tonne e Billet Fastmarkets MB's assessment of prices in no	orthem China for com x-works 3,610-3,610* orthem China for com	mercial-quality carb	on steel of 24 May 19
Rebar Brazil domestic Fastmarkets MB's assessment of price tonne ex-works Hot rolled coil Cold rolled coil	850-860* es within Brazil for commercia 2,560-2,610* 2,800-2,840*	0% al-quality carbon ste 0% 0.89%	10 May 19 el, Reais per 03 May 19 03 May 19	Fastmarkets MB's assessment of prices in no Chinese origin (Tangshan), yuan per tonne e Billet Fastmarkets MB's assessment of prices in no Chinese origin, yuan per tonne ex-warehous	orthern China for comi x-works 3,610-3,610* orthern China for comi e	mercial-quality carb 1.4% mercial-quality carb	on steel of 24 May 19 on steel of
Rebar Brazil domestic Fastmarkets MB's assessment of price tonne ex-works Hot rolled coil Cold rolled coil Hot dip galvanized coil	850-860* es within Brazil for commercia 2,560-2,610* 2,800-2,840* 3,295-3,390*	0% al-quality carbon ste 0% 0.89% 0%	10 May 19 el, Reais per 03 May 19 03 May 19 03 May 19	Fastmarkets MB's assessment of prices in no Chinese origin (Tangshan), yuan per tonne e. Billet Fastmarkets MB's assessment of prices in no Chinese origin, yuan per tonne ex-warehous Hot rolled coil	orthem China for comi x-works 3,610-3,610* orthem China for comi e 3,900-3,920*	mercial-quality carb 1.4% mercial-quality carb 0.77%	on steel of 24 May 19 on steel of 24 May 19
Rebar Brazil domestic Fastmarkets MB's assessment of price tonne ex-works Hot rolled coil Cold rolled coil Hot dip galvanized coil Fastmarkets MB's assessment of price	850-860* es within Brazil for commercia 2,560-2,610* 2,800-2,840* 3,295-3,390*	0% al-quality carbon ste 0% 0.89% 0%	10 May 19 el, Reais per 03 May 19 03 May 19 03 May 19	Fastmarkets MB's assessment of prices in no Chinese origin (Tangshan), yuan per tonne e Billet Fastmarkets MB's assessment of prices in no Chinese origin, yuan per tonne ex-warehous	orthern China for comi x-works 3,610-3,610* orthern China for comi e	mercial-quality carb 1.4% mercial-quality carb	on steel of 24 May 19 on steel of 24 May 19
Rebar Brazil domestic Fastmarkets MB's assessment of price tonne ex-works Hot rolled coil Cold rolled coil Hot dip galvanized coil Fastmarkets MB's assessment of price tonne delivered	es within Brazil for commercia 2,560-2,610* 2,800-2,840* 3,295-3,390* es within Brazil for commercia	0% al-quality carbon ste 0% 0.89% 0% al-quality carbon ste	el, Reais per 03 May 19 03 May 19 03 May 19 03 May 19 el, Reais per	Fastmarkets MB's assessment of prices in no Chinese origin (Tangshan), yuan per tonne e. Billet Fastmarkets MB's assessment of prices in no Chinese origin, yuan per tonne ex-warehous Hot rolled coil	orthem China for comi x-works 3,610-3,610* orthem China for comi e 3,900-3,920*	mercial-quality carb 1.4% mercial-quality carb 0.77%	on steel of 24 May 19 on steel of 24 May 19
Rebar Brazil domestic Fastmarkets MB's assessment of price tonne ex-works Hot rolled coil Cold rolled coil Hot dip galvanized coil Fastmarkets MB's assessment of price	850-860* es within Brazil for commercia 2,560-2,610* 2,800-2,840* 3,295-3,390*	0% al-quality carbon ste 0% 0.89% 0%	10 May 19 el, Reais per 03 May 19 03 May 19 03 May 19	Fastmarkets MB's assessment of prices in not Chinese origin (Tangshan), yuan per tonne e Billet Fastmarkets MB's assessment of prices in not Chinese origin, yuan per tonne ex-warehous Hot rolled coil Rebar	orthem China for comm x-works 3,610-3,610* orthem China for comm e 3,900-3,920* 3,940-4,020*	nercial-quality carb 1.4% mercial-quality carb 0.77% 0.63%	24 May 19 on steel of 24 May 19 24 May 19
Rebar Brazil domestic Fastmarkets MB's assessment of price tonne ex-works Hot rolled coil Cold rolled coil Hot dip galvanized coil Fastmarkets MB's assessment of price tonne delivered	es within Brazil for commercia 2,560-2,610* 2,800-2,840* 3,295-3,390* es within Brazil for commercia	0% al-quality carbon ste 0% 0.89% 0% al-quality carbon ste	el, Reais per 03 May 19 03 May 19 03 May 19 03 May 19 el, Reais per	Fastmarkets MB's assessment of prices in not Chinese origin (Tangshan), yuan per tonne et Billet Fastmarkets MB's assessment of prices in not Chinese origin, yuan per tonne ex-warehous Hot rolled coil Rebar Southern China domestic	orthem China for comi x-works 3,610-3,610* orthem China for comi e 3,900-3,920* 3,940-4,020*	nercial-quality carb 1.4% mercial-quality carb 0.77% 0.63%	24 May 19 on steel of 24 May 19 24 May 19
Rebar Brazil domestic Fastmarkets MB's assessment of price tonne ex-works Hot rolled coil Cold rolled coil Hot dip galvanized coil Fastmarkets MB's assessment of price tonne delivered	es within Brazil for commercia 2,560-2,610* 2,800-2,840* 3,295-3,390* es within Brazil for commercia	0% al-quality carbon ste 0% 0.89% 0% al-quality carbon ste	el, Reais per 03 May 19 03 May 19 03 May 19 03 May 19 el, Reais per	Fastmarkets MB's assessment of prices in not Chinese origin (Tangshan), yuan per tonne e Billet Fastmarkets MB's assessment of prices in not Chinese origin, yuan per tonne ex-warehous Hot rolled coil Rebar Southern China domestic Fastmarkets MB's assessment of prices in so	orthem China for comi x-works 3,610-3,610* orthem China for comi e 3,900-3,920* 3,940-4,020*	nercial-quality carb 1.4% mercial-quality carb 0.77% 0.63%	24 May 19 24 May 19 24 May 19 24 May 19
Rebar Brazil domestic Fastmarkets MB's assessment of price tonne ex-works Hot rolled coil Cold rolled coil Hot dip galvanized coil Fastmarkets MB's assessment of price tonne delivered	es within Brazil for commercia 2,560-2,610* 2,800-2,840* 3,295-3,390* es within Brazil for commercia	0% al-quality carbon ste 0% 0.89% 0% al-quality carbon ste	el, Reais per 03 May 19 03 May 19 03 May 19 03 May 19 el, Reais per	Fastmarkets MB's assessment of prices in not Chinese origin (Tangshan), yuan per tonne e Billet Fastmarkets MB's assessment of prices in not Chinese origin, yuan per tonne ex-warehous Hot rolled coil Rebar Southern China domestic Fastmarkets MB's assessment of prices in so Chinese origin, yuan per tonne ex-warehous	orthem China for commonwhere China for commo	nercial-quality carb 1.4% mercial-quality carb 0.77% 0.63% mercial-quality carb	24 May 15
Rebar Brazil domestic Fastmarkets MB's assessment of price tonne ex-works Hot rolled coil Cold rolled coil Hot dip galvanized coil Fastmarkets MB's assessment of price tonne delivered Rebar	es within Brazil for commercia 2,560-2,610* 2,800-2,840* 3,295-3,390* es within Brazil for commercia	0% al-quality carbon ste 0% 0.89% 0% al-quality carbon ste	el, Reais per 03 May 19 03 May 19 03 May 19 03 May 19 el, Reais per	Fastmarkets MB's assessment of prices in not Chinese origin (Tangshan), yuan per tonne et Billet Fastmarkets MB's assessment of prices in not Chinese origin, yuan per tonne ex-warehous Hot rolled coil Rebar Southern China domestic Fastmarkets MB's assessment of prices in so Chinese origin, yuan per tonne ex-warehous Rebar Wire rod (mesh)	orthem China for common x-works 3,610-3,610* orthem China for common special s	nercial-quality carb 1.4% mercial-quality carb 0.77% 0.63% mercial-quality carb	24 May 15 24 May 15 24 May 15 24 May 15 on steel of
Rebar Brazil domestic Fastmarkets MB's assessment of price tonne ex-works Hot rolled coil Cold rolled coil Hot dip galvanized coil Fastmarkets MB's assessment of price tonne delivered Rebar CARBON STEEL - NAFTA	850-860* es within Brazil for commercia 2,560-2,610* 2,800-2,840* 3,295-3,390* es within Brazil for commercia 2,600-2,720*	0% al-quality carbon ste 0% 0.89% 0% al-quality carbon ste 2.9%	10 May 19 el, Reais per 03 May 19 03 May 19 03 May 19 el, Reais per 03 May 19	Fastmarkets MB's assessment of prices in not Chinese origin (Tangshan), yuan per tonne et Billet Fastmarkets MB's assessment of prices in not Chinese origin, yuan per tonne ex-warehous Hot rolled coil Rebar Southern China domestic Fastmarkets MB's assessment of prices in so Chinese origin, yuan per tonne ex-warehous Rebar Wire rod (mesh) Sections	orthem China for common x-works 3,610-3,610* orthem China for common special s	mercial-quality carb 1.4% mercial-quality carb 0.77% 0.63% mercial-quality carb	on steel of 24 May 19 24 May 19 24 May 19 on steel of 24 May 19
Rebar Brazil domestic Fastmarkets MB's assessment of price tonne ex-works Hot rolled coil Cold rolled coil Hot dip galvanized coil Fastmarkets MB's assessment of price tonne delivered Rebar CARBON STEEL - NAFTA US imports	850-860* es within Brazil for commercia 2,560-2,610* 2,800-2,840* 3,295-3,390* es within Brazil for commercia 2,600-2,720* Price	0% al-quality carbon ste 0% 0.89% 0% al-quality carbon ste 2.9% Change†	10 May 19 el, Reais per 03 May 19 03 May 19 03 May 19 el, Reais per 03 May 19	Fastmarkets MB's assessment of prices in not Chinese origin (Tangshan), yuan per tonne et Billet Fastmarkets MB's assessment of prices in not Chinese origin, yuan per tonne ex-warehous Hot rolled coil Rebar Southern China domestic Fastmarkets MB's assessment of prices in sot Chinese origin, yuan per tonne ex-warehous Rebar Wire rod (mesh) Sections Plate	orthem China for common x-works 3,610-3,610* 3,610-3,610* 0rthem China for common se 3,900-3,920* 3,940-4,020* 0rthem China for common se 4,000-4,060* 4,200-4,250* 4,100-4,120* 4,190-4,280*	mercial-quality carb 1.4% mercial-quality carb 0.77% 0.63% mercial-quality carb -0.37% 0.24% 0.24% -0.7%	on steel of 24 May 19 24 May 19 24 May 19 on steel of 24 May 19
Rebar Brazil domestic Fastmarkets MB's assessment of price tonne ex-works Hot rolled coil Cold rolled coil Hot dip galvanized coil Fastmarkets MB's assessment of price tonne delivered Rebar CARBON STEEL - NAFTA US imports Fastmarkets MB's assessment of price	850-860* es within Brazil for commercia 2,560-2,610* 2,800-2,840* 3,295-3,390* es within Brazil for commercia 2,600-2,720* Price	0% al-quality carbon ste 0% 0.89% 0% al-quality carbon ste 2.9% Change†	10 May 19 el, Reais per 03 May 19 03 May 19 03 May 19 el, Reais per 03 May 19	Fastmarkets MB's assessment of prices in not Chinese origin (Tangshan), yuan per tonne et Billet Fastmarkets MB's assessment of prices in not Chinese origin, yuan per tonne ex-warehous Hot rolled coil Rebar Southern China domestic Fastmarkets MB's assessment of prices in so Chinese origin, yuan per tonne ex-warehous Rebar Wire rod (mesh) Sections Plate Hot rolled coil (min 2mm)	orthem China for common x-works 3,610-3,610* 3,610-3,610* 0rthem China for common se 3,900-3,920* 3,940-4,020* outhem China for common se 4,000-4,060* 4,200-4,250* 4,100-4,120* 4,190-4,280* 4,010-4,020*	1.4%	24 May 19 on steel of 24 May 19 on steel of 24 May 19 on steel of 24 May 19
Rebar Brazil domestic Fastmarkets MB's assessment of price tonne ex-works Hot rolled coil Cold rolled coil Hot dip galvanized coil Fastmarkets MB's assessment of price tonne delivered Rebar CARBON STEEL - NAFTA US imports Fastmarkets MB's assessment of price tonse delivered, \$per short ton cfr port Houston	es within Brazil for commercia 2,560-2,610* 2,800-2,840* 3,295-3,390* es within Brazil for commercia 2,600-2,720* Price es for imported, non-Nafta on	0% al-quality carbon ste 0% 0.89% 0% al-quality carbon ste 2.9% Change†	el, Reais per 03 May 19 03 May 19 03 May 19 el, Reais per 03 May 19 Assessed	Fastmarkets MB's assessment of prices in not Chinese origin (Tangshan), yuan per tonne et Billet Fastmarkets MB's assessment of prices in not Chinese origin, yuan per tonne ex-warehous Hot rolled coil Rebar Southern China domestic Fastmarkets MB's assessment of prices in sot Chinese origin, yuan per tonne ex-warehous Rebar Wire rod (mesh) Sections Plate Hot rolled coil (min 2mm) Cold rolled coil (0.5 - 2 mm)	orthem China for common x-works 3,610-3,610* orthem China for common se 3,900-3,920* 3,940-4,020* outhem China for common se 4,000-4,060* 4,200-4,250* 4,100-4,120* 4,190-4,280* 4,010-4,020* 4,350-4,390*	1.4%	24 May 19 on steel of 24 May 19 on steel of 24 May 19 on steel of 24 May 19
Rebar Brazil domestic Fastmarkets MB's assessment of price tonne ex-works Hot rolled coil Cold rolled coil Hot dip galvanized coil Fastmarkets MB's assessment of price tonne delivered Rebar CARBON STEEL - NAFTA US imports Fastmarkets MB's assessment of price	850-860* es within Brazil for commercia 2,560-2,610* 2,800-2,840* 3,295-3,390* es within Brazil for commercia 2,600-2,720* Price	0% al-quality carbon ste 0% 0.89% 0% al-quality carbon ste 2.9% Change†	el, Reais per 03 May 19 03 May 19 03 May 19 el, Reais per 03 May 19 Assessed	Fastmarkets MB's assessment of prices in not Chinese origin (Tangshan), yuan per tonne et Billet Fastmarkets MB's assessment of prices in not Chinese origin, yuan per tonne ex-warehous Hot rolled coil Rebar Southern China domestic Fastmarkets MB's assessment of prices in so Chinese origin, yuan per tonne ex-warehous Rebar Wire rod (mesh) Sections Plate Hot rolled coil (min 2mm)	orthem China for common x-works 3,610-3,610* 3,610-3,610* 0rthem China for common se 3,900-3,920* 3,940-4,020* outhem China for common se 4,000-4,060* 4,200-4,250* 4,100-4,120* 4,190-4,280* 4,010-4,020*	1.4%	24 May 19





Southeast Asia imports	Price	Change	Assessed	US domestic	Price	Change	Assesse
Southeast Asia imports Fastmarkets MB's assessment of prices in Sout	hoast Asia for comn	norcial quality car	han stool & nor	US domestic Fastmarkets AMM's appraisal of prices within th	o LISA for comm	orcial quality etainly	nee etaal of LIS a
tonne cfr	neastAsia ioi comii	ierciai-quaiity can	oon steer y per	Canadian origin, \$ per hundredweight, fob	e osa ioi comini	ercial-quality stalling	533 31661 01 03 0
Billet	455-460*	1.1%	▲ 24 May 19	Grade 304 coiled plate	114-114*	-0.87%	▼ 10 May 1
Slab (Asia/EastAsia)	460-470*	0%	20 May 19	Grade 316 coiled plate	156-156*	0%	10 May 1
Hot rolled coil (Vietnam)	520-525*	-2.34%	▼ 20 May 19	Grade 304 cold rolled sheet	128-128*	0%	10 May 1
Rebar (Singapore)	490-490*	0%	20 May 19	Grade 316L cold rolled sheet	168-168*	0%	10 May 1
Wire rod (low carbon)	535-540*	-2.54%	▼ 20 May 19	Raw materials index			
Indian exports				EU domestic stainless steel \$ per tonne			
Fastmarkets MB's assessment of Indian mills' p	rices for export of co	mmercial-quality	carbon steel, \$	304 Europe raw materials index	1,215.11*	-0.98%	▼ 20 May 1
per tonne fob main India port							
Billet	420-430*	0%	24 May 19				
Plate (12-40mm)	510-520*		▼ 24 May 19				
Hot rolled coil (commodity)	510-515*		▼ 24 May 19	IRON ORE			
Hot-dip galvanized coil	690-695*	-2.12%	Z4 May 19		Price	Change [†]	Assesse
Indian imports				65% Fe Brazilian Index CFR Qingdao			
Fastmarkets MB's assessment of prices for imp	orted, non-EU origir	n, commercial-qua	ality carbon steel,	(MBIOI-65-BZ-Index) \$/tonne	119.30*	3.2%	▲ 24 May 1
\$ per tonne cfr main India port		***		Lump premium CFR Qingdao (MBIOI-LP Index) cents per dmtu	33*	0%	24 May 1
Plate (20-60mm)	560-565*	0%	24 May 19	, ,			
Hot rolled coil (commodity)	540-545*		7 24 May 19	Iron ore index (62% Fe) Iron ore index (62% LA)	105.32*	3.55% 4.13%	▲ 24 May 1 ▲ 24 May 1
Hot rolled coil (CR grade)	545-550*		24 May 19	58% Fe Iron Ore Index (MBIOI-58) CFR	100.00	4.1370	▲ ∠4 IVIdy I
Cold rolled coil	625-630*	0%	24 May 19	Qingdao on a 58% fe basis Daily Price			
Indian domestic				\$/dry metric tonne	87.02*	2.23%	▲ 24 May 1
Fastmarkets MB's assessment of prices within I	ndia for commercial	l-quality carbon ste	eel, rupees per	High grade Premium (MBIOI-58P) CFR			
tonne ex-works	04 400 04 000*	4.000/		Qingdao on a 58% basis low alumina, low phosphorous Daily Price			
Billet	31,400-31,600*		▲ 24 May 19	\$/dry metric tonne	9*	28.57%	▲ 24 May 1
Heavy plate	40,500-41,000*	0%	24 May 19	Iron Ore Implied 58% Fe high			
Hotrolled coil	40,000-40,500*	0%	24 May 19	specification price	96.02*	4.23%	▲ 24 May 1
Cold rolled coil	46,000-46,500*	0%	24 May 19	Iron Ore product differential - PBF	1 01*	00/	24 May 1
DRI	19,800-20,000*		24 May 19	delivered Qingdao, China CFR \$/tonne	-1.81*	0%	24 May 1
Hot-dip galvanized coil	49,500-50,000*	0%	24 May 19	Iron ore 62% Fe Pilbara Blend Fines (MBIOI-PBF) \$/tonne	103.51*	3.61%	▲ 24 May 1
Rebar	35,300-35,500*	1.72%	▲ 24 May 19	Iron Ore 62% Fe China port price index	743*	3.77%	▲ 24 May 1
				Implied 62% Fe China Port Price \$ per tonne	98.92*	3.44%	▲ 24 May 1
				Iron ore pellet index cfr Qingdao (65% Fe)	136.09*	4.74%	▲ 24 May 1
STAINLESS STEEL				Iron ore concentrate index cfr			, , , , , , , , , , , , , , , , , , ,
	Price	Change [†]	Assessed	Qingdao (66% Fe)	115.79*	5.27%	▲ 24 May 1
Asia import				Iron ore implied pellet premium CFR	04.00*	4.070/	
\$/tonne cif East Asian port				Qingdao US\$/tonne	31.86*	-1.27%	▼ 24 May 1
Grade 304 2mm CR coil 2B	1,880-1,980*	-1.53%	▼ 22 May 19	Iron ore implied pellet premium over the Fastmarkets MB 65% Fe Brazilian			
Grade 304 hot rolled coil	1,780-1,880*	-1.88%	▼ 22 May 19	iron ore index cfr Qingdao US\$/tonne	17.66*	0.74%	▲ 24 May 1
China domestic			-	Iron ore DR-grade pellet premium			
yuan/tonne, in-warehouse				index Middle East reference, \$/dmt	67*	-16.77%	▼ 30 Apr 1
Grade 304 2mm CR coil	14,000-14,300*	0.71%	▲ 22 May 19	Metal Bulletin Indicator for US\$/% AI MBIOI AI-VIU cfr Qingdao	-5.11*	6.24%	▲ 21 May 1
Grade 430 2mm CR coil	8,100-8,150*	0%	22 May 19	Metal Bulletin Indicator for US\$/%	-0.11	0.24 /0	▲ 21 May 1
EU domestic			•	Fe in iron ore fines cfr Qingdao	1.58*	3.27%	▲ 21 May 1
2mm 304 cold rolled stainless sheet, €/tonne	:			Iron Ore Fines 65% Fe, % Fe value in			,
N.Europe Base price	925-985*	0%	24 May 19	use cfr Qingdao \$/dry metric tonne	2.05*	1.99%	▲ 21 May 1
Alloy surcharge	1,410-1,450*	0%	24 May 19	Metal Bulletin Indicator for US\$/%	4.04*	0.0001	
N.Europe transaction	2,200-2,300*		▼ 24 May 19	Si MBIOI Si-VIU cfr Qingdao	-1.21*	-6.92%	▼ 21 May 1
2mm 316 cold rolled stainless sheet, €/tonne			., .,	Iron Ore Fines 62% Fe, 0.01% Phosphorous value in use MBIOI Phos-VIU cfr			
Base price	1,270-1,320*	0%	24 May 19	Qingdao US cent per dry metric tonne	-1.32*	-2.22%	▼ 21 May 1
Alloy surcharge	2,162-2,218*	0%	24 May 19				
304 stainless steel bright bar, €/tonne			· ·				
Base price	1,000-1,060*	0%	24 May 19				
Alloy surcharge	1,749-1,789*	0%	24 May 19				
				† week-on-week change			continued
				- week-on-week change			





COKING COAL						Price	Change		Assessed
\$ per metric tonne					Cif Europe stainless € per tonne				
	Price	Change [†]		Assessed	18/8 solids	940-970*	-5.45%	•	24 May 19
Premium hard coking coal index cfr China	211.87*	0.26%	A	24 May 19	18/8 turnings	845-875*	-5.23%		24 May 19
Hard coking coal index cfr China	197.54*	2.91%	A	24 May 19	316 solids	1,520-1,530*	-0.97%		24 May 19
Premium hard coking coal index fob Australia	204.04*	-3.84%	▼	24 May 19	316 turnings	1,370-1,375*	-0.9%		24 May 19
Hard coking coal index fob Australia	180*	0.51%	A	24 May 19	Rotterdam export				
China hard coking coal Shanxi spot					Fastmarkets MB's assessment \$/tonnne fob R	Rotterdam			
market domestic delivered yuan/tonne	1,430-1,800*	0%		24 May 19	MB index fob Rotterdam HMS 1&2 (80:20)	274.61*	4.33%	A	24 May 19
65% CSR coke \$/tonne fob China	320-330*	0%		21 May 19	HMS 1&2 (75:25 mix)	278-279*	5.09%	A	24 May 19
Low Vol PCI Index \$ per dry metric tonne cfr Jingtang	135.47*	-0.65%	•	24 May 19	Shredded	288-289*	4.91%		24 May 19
Low Vol PCI Index \$ per dry metric				,	Turkish import	in Tandrick a cuto			
tonne fob DBCT	129.18*	0%		24 May 19	Fastmarkets MB's assessment \$/tonne cfr ma	in Turkish ports			
					MB index cfr Turkey HMS 1&2 (80:20) (North Europe material)	307.12*	7.44%	•	24 May 19
FERROUS SCRAP					MB index cfr Turkey HMS 1&2 (80:20)				
FERROUS SCRAP		2 1 4			(United States material)	314.29*	7.26%		24 May 19
	Price	Change [†]		Assessed	HMS 1&2 (75:25 mix)	297-298*	4.75%	A	24 May 19
UK ferrous scrap domestic					Shredded	317-318*	8.36%	A	24 May 19
The following is Fastmarket MB's evaluation of		,			Turkish domestic				
within the month listed. Prices may vary according	0 0	stination, and sho	ould be	e read in	Fastmarkets MB's assessment delivered				
conjunction with editorial comment on the Ferro	ous scrap payes.				Melting scrap from shipbreaking (\$/tonne)	290-292*	-2.18%	▼	20 May 19
£/tonne					Auto bundle scrap (Turkish lira/tonne)	1,700-1,905*	0%		20 May 19
Cut grades	445.470*	0.70/		4514: 40	USA export				
OA plate and structural	145-170*		<u>*</u>	15 May 19	Fastmarket AMM ferrous scrap export index \$.	tonne East Coast fo	b New York		
1&2 old steel	125-150*	-9.84%	▼	15 May 19	HMS 1&2 (80:20)	275.82*	0.66%	•	22 May 19
12A/C new production heavy and shovellable steel	170-195*	-7.59%	▼	15 May 19	Shredded	279*	0%		22 May 19
12D new production heavy and					USA domestic				
shovellable steel	175-200*	-7.41%	▼	15 May 19	Fastmarkets AMM Midwest index \$/gross ton	delivered mill			
Bales and cuttings					No1 heavy melting scrap	261.44*	-10.53%	•	10 May 19
4A new steel bales	175-200*	-7.41%	▼	15 May 19	No1 busheling	312.25*	-10.91%	T	10 May 19
4C new steel bales	165-190*	-7.79%	▼	15 May 19	Shredded	290.32*	-9.21%	T	10 May 19
8A new loose light cuttings	160-190*	-7.89%	▼	15 May 19	China domestic	200.02	0.2170	<u> </u>	
8B new loose light cuttings	145-175*	-8.57%	▼	15 May 19					
Turnings					yuan/tonne delivered mill	2,580-2,750*	0%		24 May 19
UK inter-merchant 7B heavy steel turnings	105-125*	-11.54%	▼	15 May 19	Heavy scrap	2,300-2,730	0 /0		24 May 19
Castiron					Taiwan import				
9A/10 heavy and light cast iron	125-150*	-9.84%	▼	15 May 19	\$/tonne cfr main port				
9B/C cylinder block scrap	145-170*	-8.7%	▼	15 May 19	HMS 1&2 (80:20 mix) (USA material)	280-285*	3.29%		24 May 19
11A cast iron borings	70-90*	-15.79%	▼	15 May 19	Vietnam import				
Prices relate to new UK scrap specifications					\$/tonne cfr southern Vietnam				
Please see metalbulletin.com for full explanatio	n of price changes				HMS 1&2	315-320*	0%		24 May 19
UK intermerchant weekly price					Germany domestic				
£/tonne					€/tonne composite sales price ex-yard, source	::BDSV			
5C loose old light	85-105*	11.76%	A	24 May 19	No E2/8 (new steel scrap)	254.60	-0.55%	▼	01 Apr 19
UK ferrous scrap export					No E1 (old steel scrap)	224.5	-1.92%	•	01 Apr 19
Fastmarkets MB's assessment \$ fob main UK p	nort.				No E3 (old thick steel scrap)	252.80	-0.2%	▼	01 Apr 19
HMS 1&2 (80:20 mix)	289-290*	9.25%		24 May 10	No E40 (shredded steel scrap)	258.10	0.16%	•	01 Apr 19
Shredded	294-295*		<u> </u>	24 May 19 24 May 19	No E5 (steel turnings)	201.80	-0.69%	▼	01 Apr 19
	294-293	3.07 /0	_	24 Way 19	Fastmarkets MB's assessment €/tonne delive.	red at mill			
Indian imports					Grade E40 (shredded steel scrap)	265-275	-3.57%	▼	17 May 19
Fastmarkets MB's assessment \$/tonnne cfr Nh					No E8 (thin new production steel scrap)	265-280	-3.54%	•	17 May 19
MB index cfr India shredded	330.25*		<u> </u>	24 May 19	No E3 (old thick scrap)	260-275	-2.73%	•	17 May 19
HMS 1&2 (80:20 mix)	305-330*	4.96%		24 May 19	Italy domestic				
Alloy steel scrap domestic					Fastmarkets MB's assessment €/tonne delive.	red at mill			
UK wholesale merchants' stainless (£/tonne)					No E3 (old thick scrap)	250-270	-2.8%	•	17 May 19
18/8 solids	800-850*	0%		24 May 19	No E8 (thin new production steel)	270-285	-3.48%	<u> </u>	17 May 19
18/8 turnings	680-725*		<u> </u>	24 May 19	No E40 (shredded steel scrap)	270-285	-2.63%	<u> </u>	17 May 19
316 solids	1,240-1,280*	0%		24 May 19			,		
	1 000 1 000*	0%		24 May 19					
316 turnings	1,055-1,090*	0 70		Z Tillay 10					
316 turnings 12-13% Cr solids	150-210*	0%		24 May 19					



continued >

				UK NON-FERROUS SCRAP				
Price	Change [†]		Assessed		Price	Change [†]		Assess
				Aluminium - actual price				
355-357*	-0.42%	lacktriangle	23 May 19	£pertonne				
			-	Group 1 pure 99% & Litho	1,260-1,310*	0%		22 May 1
285-290*	0%		23 May 19	Commercial pure cuttings	930-970*	0%		22 May 1
stated				Clean HE9 extrusions	1,260-1,310*	0%		22 May 1
205-210*	0%		24 May 19	Loose old rolled cuttings	650-675*	0%		22 May 1
323-324*	0.78%	A	24 May 19	Baled old rolled	720-740*	-1.35%	▼	22 May 1
342-342*	0%		24 May 19	Commercial cast	750-780*	-1.29%	▼	22 May 1
				Cast wheels	1,080-1,100*	0%		22 May 1
355-355*	0%		24 May 19	Commercial turnings	550-580*	0%		22 May 1
				Group 7 turnings	430-450*	-2.76%	▼	22 May 1
355-360*	-2.72%	▼	23 May 19	Fastmarkets MB and LME aluminium sc	rap discounts			
330-335*	0%		23 May 19	£pertonne				
				·	94-144*	38.37%	A	22 May 1
				Commercial pure cuttings	434-474*	7.84%	<u> </u>	22 May 1
					94-144*			22 May 1
								22 May 1
Price	Change [†]		hassassA	Baled old rolled	419-439*			22 May 1
11100	Onlange	•	10000000	Commercial cast	379-409*	23.9%	<u> </u>	22 May 1
sessment £/tonne				Cast wheels	59-79*	2200%	<u> </u>	22 May 1
	-5.42%	_	24 May 19		579-609*			22 May 1
				-	709-729*		<u> </u>	22 May 1
								.,
100-130	-3.2370	•	24 Way 13					
1.400.1.420	N%		21 May 10					
			· ·		1.10-1.35*	2.08%	A	22 May 1
				Turnings, unprocessed 90/6/4				
000-020	0 70		Z I Way 13	(over 0.5% max 2% Sn)	1.05-1.10*	0%		22 May 1
				Copper scrap discount				
4.055.4.005	0.000/	_	47M10	cents/lb				
			· ·	No 2 copper (birch/cliff) imported				
				into China 94-96% cif China	37-42*	12.86%	A	29 Apr 1
000-935	-1.09%		17 Way 19					
4,900-4,950	0%							
4,800-4,850		<u> </u>	21 May 19					
4,350-4,400	2.34%							
3,600-3,700								
3,150-3,200	0%							
2,850-2,950	0%		21 May 19					
5,045-5,205	-0.58%							
4,923-5,085	-0.6%	▼	17 May 19					
4,947-5,175	-0.59%	▼	17 May 19					
4 775 4 045	0.040/	_	47May 40					
3,825-3,905	-0.51%	▼	17 Iviay 19					
3,225-3.555	-0.59%	▼	17 May 19					
			-					
0,210-0,000	3.0 /0	•	. r may 13					
	355-357* 285-290* stated 205-210* 323-324* 342-342* 355-355* 355-360* 330-335* Price sessment €/tonne 940-980* 880-900* 700-750* 1,400-1,420 580-600 600-620 1,055-1,085 1,490-1,520 880-935 4,900-4,950 4,800-4,850 4,350-4,400 3,610-3,700 3,150-3,200 2,850-2,950 5,045-5,205 4,923-5,085	355-357* -0.42% 285-290* 0% stated 205-210* 0% 323-324* 0.78% 342-342* 0% 355-355* 0% 355-355* 0% Price Change† sessment€/tonne 940-980* -5.42% 880-900* -1.11% 700-750* -5.23% 1,400-1,420 0% 580-600 0% 600-620 0% 1,055-1,085 -0.93% 1,490-1,520 -0.99% 880-935 -1.09% 4,900-4,950 0% 4,800-4,950 0% 4,800-4,850 1.37% 4,350-4,400 2.34% 3,600-3,700 0% 4,800-4,950 0% 4,800-4,950 0% 4,800-4,950 0% 4,900-4,950 0% 4,900-4,950 0% 4,900-4,950 0% 4,900-4,950 0% 4,900-4,950 0% 4,900-4,950 0% 4,900-4,950 0% 4,900-4,950 0% 4,900-4,950 0% 4,900-4,950 0% 4,900-4,950 0% 4,900-4,950 0% 4,900-4,950 0% 4,900-4,950 0% 4,900-4,950 0% 3,150-3,200 0% 2,850-2,950 0% 4,923-5,085 -0.6% 4,947-5,175 -0.59% 4,775-4,945 -0.61% 3,825-3,905 -0.51% 3,225-3,555 -0.59%	355-357* -0.42% ▼ 285-290* 0% stated 205-210* 0% 323-324* 0.78% ▲ 342-342* 0% 355-355* 0% 355-355* 0% Sessment€/tonne 940-980* -5.42% ▼ 880-900* -1.11% ▼ 700-750* -5.23% ▼ 1,400-1,420 0% 580-600 0% 600-620 0% 1,055-1,085 -0.93% ▼ 1,490-1,520 -0.99% ▼ 4,900-4,950 0% 4,800-4,850 1.37% ▲ 4,350-4,400 2.34% ▲ 3,600-3,700 0% 3,150-3,200 0% 2,850-2,950 0% 4,947-5,175 -0.59% ▼ 4,947-5,175 -0.59% ▼ 4,775-4,945 -0.61% ▼ 3,825-3,905 -0.51% ▼ 3,225-3,555 -0.59% ▼	285-290* 0% 23 May 19 285-290* 0% 23 May 19 stated 205-210* 0% 24 May 19 323-324* 0.78% ▲ 24 May 19 342-342* 0% 24 May 19 355-355* 0% 24 May 19 355-360* -2.72% ▼ 23 May 19 330-335* 0% 23 May 19 370-750* -5.23% ▼ 24 May 19 1,400-1,420 0% 21 May 19 580-600 0% 21 May 19 580-600 0% 21 May 19 1,055-1,085 -0.93% ▼ 17 May 19 1,490-4,950 0% 21 May 19 4,900-4,950 0% 21 May 19 4,775-4,945 0.68% ▼ 17 May 19 4,947-5,175 0.59% ▼ 17 May 19 4,947-5,175 0.59% ▼ 17 May 19 4,775-4,945 0.61% ▼ 17 May 19 3,225-3,555 0.59% ▼ 17 May 19	Price Change¹ Assessed 355-357*	Price Change	Price	Price

†week-on-week change



NON-FERROUS FOUNDRY INGOTS			
	Price	Change [†]	Assessed
Aluminium UK £/tonne			
Fastmarkets MB free market			
LM24 pressure diecasting ingot	1,330-1,380*	-0.73%	▼ 22 May 19
LM6/LM25 gravity diecasting ingot	1,640-1,680*	-0.6%	▼ 22 May 19
NB: prices expressed delivered consume	r works, LM series as	specified in BS1	490
Aluminium Europe			
Fastmarkets MB free market			
Duty paid delivered works pressure diecasting ingot price (DIN226/A380) - €/tonne	1,340-1,380*	-3.2%	▼ 24 May 19
Aluminum US \$/lb delivered Midwest	.,,		
A380.1 alloy	0.78-0.79*	-1.26%	▼ 23 May 19
AFFIMET €/tonne	0.10 0.10	1.20/0	. Loway 10
AS12	3,494	-0.99%	▼ 01 May 19
AS12UN	2,465	0%	01 May 19
AS9 U3	1.840	0%	01 May 19
AS5 U3	2,190	0%	01 May 19
Reflects generally larger traded lots	2,190	U70	UTIWAY IS
Aluminium bronze £/tonne UK	4.050	4.000/	- 04M: 40
AB1 ex-works	4,850		7 21 May 19
AB2 ex-works Source: C.F. Booth Ltd	4,900	-1.01%	21 May 19
Brass UK £/tonne			
SCB3 ex-works	4,080	0.1070	▼ 21 May 19
High tensile HTB1 ex-works	4,150	-3.26%	▼ 21 May 19
Source: C.F. Booth Ltd			
Gunmetal UK £/tonne			
LG2 85/5/5/5 ex-works	4,700	0%	21 May 19
LG4 87/7/3/3 ex-works	5,350	-0.93%	▼ 21 May 19
G11.15 PB ex-works	6,150	-0.65%	21 May 19
Source: C.F. Booth Ltd			
Phosphor bronze UK £/tonne			
PB1 ex-works	6,750	-0.74%	▼ 21 May 19
Source: C.F. Booth Ltd			
Phosphor copper £/tonne			
10% P ex-works	6,050	-0.49%	▼ 21 May 19
15% P ex-works	6,100	-0.49%	▼ 21 May 19
Source: C.F. Booth Ltd			
Zinc alloys UK £/tonne			
Brock Metal Co contract alloy price (delive	ered UK)		
Brock Metal ZL3	2,749	-3.34%	▼ 01 May 19
Brock Metal ZL5	2,776	-3.34%	▼ 01 May 19

BASE METALS



Monthly averages: April

		Low	High
Aluminium			
Aluminium P1020A, in-warehouse premium, duty unpaid, spot \$/tonno		85.85	95.85
Aluminium P1020A, in-warehouse duty paid, spot \$/tonne	Rotterdam	139.44	149.44
Alumina			
Index fob Australia		386.39	
Copper			
US High-grade cathode premium in \$/tonne	ndicator,	154.32	170.86
Nickel			
Free market in warehouse premiur	n		
Europe \$/tonne	Uncut cathodes	198	228
	4x4 cathodes	450	500
	Briquettes	232	262
Tin			
European free market Spot Premium 99.9%, \$/tonne		410	450
Kuala Lumpur (ex-smelter), \$/tonn	۵	20,566.36	700
MINOR METALS			
Antimony			
MB free market Regulus 99.65%,		7.040.5	7 040 75
max Se 50ppm, in warehouse,\$/to	nne	7,012.5	7,318.75
MMTA Standard grade II, \$/tonne		6,968.75	7,281.25
Bismuth	. 1.4.		
MB free market min. 99.99%, tonne in warehouse, \$/lb	e iots,	3.35	3.80
Cadmium			
MB free market			
	b	133	142.25
MB free market		133 136.75	142.25 145.25
MB free market min 99.95%, in warehouse, cents/l			
MB free market min 99.95%, in warehouse, cents/lb min 99.99%, in warehouse cents/lb			
MB free market min 99.95%, in warehouse, cents/lb min 99.99%, in warehouse cents/lb Cobalt			
MB free market min 99.95%, in warehouse, cents/l min 99.99%, in warehouse cents/lb Cobalt MB free market)	136.75	145.25
MB free market min 99.95%, in warehouse, cents/l min 99.99%, in warehouse cents/lb Cobalt MB free market Alloy Grade, in warehouse, \$/lb)	136.75	145.25
MB free market min 99.95%, in warehouse, cents/l min 99.99%, in warehouse cents/lk Cobalt MB free market Alloy Grade, in warehouse, \$/lb Standard Grade, in warehouse, \$/)	136.75	145.25
MB free market min 99.95%, in warehouse, cents/l min 99.99%, in warehouse cents/lk Cobalt MB free market Alloy Grade, in warehouse, \$//b Standard Grade, in warehouse, \$/ Gallium)	136.75	145.25
MB free market min 99.95%, in warehouse, cents/l min 99.99%, in warehouse cents/lk Cobalt MB free market Alloy Grade, in warehouse, \$/lb Standard Grade, in warehouse, \$/ Gallium MB free market)	136.75 16.36 15.36	145.25 17.34 16.58
MB free market min 99.95%, in warehouse, cents/l min 99.99%, in warehouse cents/lb Cobalt MB free market Alloy Grade, in warehouse, \$/lb Standard Grade, in warehouse, \$/ Gallium MB free market MB free market	lb	136.75 16.36 15.36	145.25 17.34 16.58
MB free market min 99.95%, in warehouse, cents/l min 99.99%, in warehouse cents/lb Cobalt MB free market Alloy Grade, in warehouse, \$/lb Standard Grade, in warehouse, \$/ Gallium MB free market MB free market MB free market, \$/kg Germanium	lb	136.75 16.36 15.36	145.25 17.34 16.58
MB free market min 99.95%, in warehouse, cents/l min 99.99%, in warehouse cents/l Cobalt MB free market Alloy Grade, in warehouse, \$/lb Standard Grade, in warehouse, \$/ Gallium MB free market MB free market MB free market Dioxide MB free market min 99.99	lb	136.75 16.36 15.36 153	145.25 17.34 16.58 173
MB free market min 99.95%, in warehouse, cents/l min 99.99%, in warehouse cents/lb Cobalt MB free market Alloy Grade, in warehouse, \$/lb Standard Grade, in warehouse, \$/ Gallium MB free market MB free market MB free market MB free market MB free market, \$/kg Germanium Dioxide MB free market min 99.999 Metal, Rotterdam, \$/kg) b 	136.75 16.36 15.36 153	145.25 17.34 16.58 173
MB free market min 99.95%, in warehouse, cents/l min 99.99%, in warehouse cents/lk Cobalt MB free market Alloy Grade, in warehouse, \$/lb Standard Grade, in warehouse, \$/lb MB free market MB free market MB free market MB free market min 99.999 Metal, Rotterdam, \$/kg Indium MB free market ningots, min 99.977) b 	136.75 16.36 15.36 153 950 1,320	17.34 16.58 173 1,150 1,440
MB free market min 99.95%, in warehouse, cents/lt min 99.99%, in warehouse cents/lt Cobalt MB free market Alloy Grade, in warehouse, \$/lb Standard Grade, in warehouse, \$/lb MB free market MB free market MB free market MB free market, \$/kg Germanium Dioxide MB free market min 99.999 Metal, Rotterdam, \$/kg Indium MB free market ingots, min 99.97% in warehouse, \$/kg) 	136.75 16.36 15.36 153 950 1,320	17.34 16.58 173 1,150 1,440

		Low	High
Mercury MB free market min 99.99%,			
in warehouse, \$/flask		2,400	2,700
Selenium			
MB free market min 99.5%		٥	44
in warehouse, \$/lb		9	11
Silicon Grade 441, min 99% Si in-warehouse			
Rotterdam, €/tonne		1,820	1,920
Titanium			
Ferro-Titanium, 70% (max 4.5% AI),		E 10	E E
d/d Europe, \$/kg		5.18	5.5
ORES & ALLOYS			
		Low	High
Molybdenum			
Free market in warehouse Europe drummed molybdicoxide \$/lb Mo		12.08	12.19
US canned molybdic oxide \$/lb Mo		12.03	12.21
Ferro-molybdenum			
basis 65% min, in-warehouse			
Rotterdam, \$/kg Mo		28.67	28.95
Tungsten		070	004.5
European free market APT, \$/mtu		270	281.5
Ferro-tungsten basis 75% W min, \$/kg		35.56	36.56
Vanadium		33.30	30.30
min 98%, in-warehouse Rotterdam,			
V2O5, \$/lb		9.81	10.88
Ferro-vanadium			
basis 78% min, free delivery duty paid consumer plant, 1st grade Weste	arn		
Europe, \$/kg V)III	45	47
US Free market 70-80%, \$/Ib		24.25	26.5
PRECIOUS METALS			
Gold			
London\$/troy oz	Morning	1,287.65	
	Afternoon	1,286.45	
London £/troy oz	Morning	987.42	
© trovi on	Afternoon	986.89	
\$/troy oz Palladium	Handy/Harman	1,285.91	
Morning \$/troy oz		1,388.70	
Afternoon \$/troy oz		1,389.30	
Platinum: per troy oz			
Morning \$/troy oz		887.40	
Afternoon \$/troy oz		886.30	
Rhodium			
European free market min 99.9% in-warehouse, \$/troy oz		2,798	3,035.75
Silver		2,130	3,035.75
London			
spot pence/troy oz		1,153.25	
spot cents/troy oz		1,504.20	
Handy/Harman cents/troy oz		1,505.51	
† week-on-week change			continued >





FOUNDRYINGOTS		
	Low	High
Aluminium		
LM24, £/tonne	1,357.5	1,407.5
LM6/LM25, £/tonne	1,677.5	1,717.5
Aluminium Europe €/tonne	1,422.5	1,470
Phosphor Bronze		
PB1 ex-works, £/tonne	6,888	
Zinc Alloy		
ZL3,£/tonne	2,844	
EXCHANGE RATES (CLOSING RATES)		
\$/£	1.30	
\$/yen	111.61	
\$/€	1.12	
Copyright © 2002-2019 Fastmarkets		
$\label{thm:control_problem} Fast markets MB monthly average prices are calculate the month.$	ted on those price quotat	tions formulated during

LONDON METAL EXCHANGE
High, low and average April (20 days)
LME averages are mean of buyers and sellers except for
settlement and 3 months sellers.

Low High average \$ \$ \$ Aluminium (\$) Cash 1,775.25 1,922.5 1,848.56 3 months 1,813.5 1,944.25 1,867.93 Settlement 1,775.5 1,923 1,848.98 3 months seller 1,814 1,944.5 1,868.28 Copper Grade A (\$) Cash 5,810.75 6,571 6,444.5 3 months 5,836 6,532.5 6,454.69 Settlement 5,811 6,572 6,445.10 3 months seller 4,508.36 5,000.76 4,942.89 3 months seller 4,508.36 5,000.76 4,942.89 3 months seller 4,508.36 5,000.76 4,942.89 3 months seller 1,901 2,153.5 1,948.26 3 months 1,916.5 2,164.5 1,966.84 Settlement 1,902 2,154 1,948.85 3 months seller 1,459.02 1,626.25 1,494.57 3 months sel		Jan-Apr 2019		April
Aluminium (\$) I,775.25 1,922.5 1,848.56 3 months 1,813.5 1,944.25 1,867.93 Settlement 1,775.5 1,923 1,848.98 3 months seller 1,814 1,944.5 1,868.28 Copper Grade A (\$) Cash 5,810.75 6,571 6,444.5 3 months 5,836 6,532.5 6,454.69 Settlement 5,811 6,572 6,445.10 3 months seller 5,837 6,533 6,455.5 Copper Grade A (£) Settlement 4,508.36 5,000.76 4,942.89 3 months seller 4,508.36 5,000.76 4,942.89 3 months seller 1,901 2,153.5 1,948.26 3 months 1,916.5 2,164.5 1,966.84 Settlement 1,902 2,154 1,948.85 3 months seller 1,918 2,165 1,967.43 Lead (£) Settlement 1,459.02 1,626.25		Low	High	average
Cash 1,775.25 1,922.5 1,848.56 3 months 1,813.5 1,944.25 1,867.93 Settlement 1,775.5 1,923 1,848.98 3 months seller 1,814 1,944.5 1,868.28 Copper Grade A (\$) Cash 5,810.75 6,571 6,444.5 3 months 5,836 6,532.5 6,454.69 Settlement 5,811 6,572 6,445.10 3 months seller 5,837 6,533 6,455.5 Copper Grade A (£) Settlement 4,508.36 5,000.76 4,942.89 3 months seller 4,506.43 4,980.18 4,928.04 Lead (\$) Cash 1,901 2,153.5 1,948.26 3 months 1,916.5 2,164.5 1,966.84 Settlement 1,902 2,154 1,948.85 3 months seller 1,459.02 1,626.25 1,494.57 3 months seller 1,469.91 <t< th=""><th></th><th>\$</th><th>\$</th><th>\$</th></t<>		\$	\$	\$
3 months 1,813.5 1,944.25 1,867.93 Settlement 1,775.5 1,923 1,848.98 3 months seller 1,814 1,944.5 1,868.28 Copper Grade A (\$) Cash 5,810.75 6,571 6,444.5 3 months 5,836 6,532.5 6,454.69 Settlement 5,811 6,572 6,445.10 3 months seller 5,837 6,533 6,455.5 Copper Grade A (£) Settlement 4,508.36 5,000.76 4,942.89 3 months seller 4,506.43 4,980.18 4,928.04 Lead (\$) Cash 1,901 2,153.5 1,948.26 3 months 1,916.5 2,164.5 1,966.84 Settlement 1,902 2,154 1,948.85 3 months seller 1,918 2,165 1,967.43 Lead (£) Settlement 1,464.91 1,626.25 1,494.57 3 months seller 1,464.91 1,628.19 1,501.87 Nickel (\$)	Aluminium (\$)			
Settlement 1,775.5 1,923 1,848.98 3 months seller 1,814 1,944.5 1,868.28 Copper Grade A (\$) 5,810.75 6,571 6,444.5 3 months 5,836 6,532.5 6,454.69 Settlement 5,811 6,572 6,445.10 3 months seller 5,837 6,533 6,455.5 Copper Grade A (£) 5 6 5,000.76 4,942.89 3 months seller 4,508.36 5,000.76 4,942.89 3 months seller 4,506.43 4,980.18 4,928.04 Lead (\$) 2 1,966.44 1,948.26 3 months 1,916.5 2,164.5 1,966.84 Settlement 1,918 2,165 1,967.43 Lead (£) 3 1,918 2,165 1,967.43 Lead (£) 5 1,464.91 1,628.19 1,501.87 Nickel (\$) 1 1,464.91 1,628.19 1,501.87 Nickel (\$) 1 1,464.91 1,628.19 1,501.87 Nickel (\$) 1 1,464.91 1,628.19 <t< td=""><td>Cash</td><td>1,775.25</td><td>1,922.5</td><td>1,848.56</td></t<>	Cash	1,775.25	1,922.5	1,848.56
3 months seller 1,814 1,944.5 1,868.28 Copper Grade A (\$) 5,810.75 6,571 6,444.5 3 months 5,836 6,532.5 6,454.69 Settlement 5,811 6,572 6,445.10 3 months seller 5,837 6,533 6,455.5 Copper Grade A (£) Copper Grade A (£) Copper Grade A (£) Copper Grade A (£) 4,508.36 5,000.76 4,942.89 3 months seller 4,506.43 4,980.18 4,928.04 Lead (\$) Cash 1,901 2,153.5 1,948.26 3 months 1,916.5 2,164.5 1,966.84 Settlement 1,902 2,154 1,948.85 3 months seller 1,918 2,165 1,967.43 Lead (£) Settlement 1,459.02 1,626.25 1,494.57 3 months seller 1,464.91 1,628.19 1,501.87 Nickel (\$) Cash 10,437.5 13,607.5 12,815.13 3 months 10,527.5 13,665 12,903.5 Settlement 10,530 13,660 12,910.5	3 months	1,813.5	1,944.25	1,867.93
Copper Grade A (\$) 5,810.75 6,571 6,444.5 3 months 5,836 6,532.5 6,454.69 Settlement 5,811 6,572 6,445.10 3 months seller 5,837 6,533 6,455.5 Copper Grade A (£) Settlement 4,508.36 5,000.76 4,942.89 3 months seller 4,506.43 4,980.18 4,928.04 Lead (\$) Cash 1,901 2,153.5 1,948.26 3 months 1,916.5 2,164.5 1,966.84 Settlement 1,902 2,154 1,948.85 3 months seller 1,918 2,165 1,967.43 Lead (£) Settlement 1,459.02 1,626.25 1,494.57 3 months seller 1,464.91 1,628.19 1,501.87 Nickel (\$) Cash 10,437.5 13,607.5 12,815.13 3 months 10,527.5 13,607.5 12,815.13 3 months seller 10,530 13,660 <t< td=""><td>Settlement</td><td>1,775.5</td><td>1,923</td><td>1,848.98</td></t<>	Settlement	1,775.5	1,923	1,848.98
Cash 5,810.75 6,571 6,444.5 3 months 5,836 6,532.5 6,454.69 Settlement 5,811 6,572 6,445.10 3 months seller 5,837 6,533 6,455.5 Copper Grade A (£) Settlement 4,508.36 5,000.76 4,942.89 3 months seller 4,506.43 4,980.18 4,928.04 Lead (\$) Cash 1,901 2,153.5 1,948.26 3 months 1,916.5 2,164.5 1,966.84 Settlement 1,902 2,154 1,948.85 3 months seller 1,918 2,165 1,967.43 Lead (£) Settlement 1,459.02 1,626.25 1,494.57 3 months seller 1,464.91 1,628.19 1,501.87 Nickel (\$) Settlement 10,437.5 13,607.5 12,815.13 3 months 10,527.5 13,655 12,903.5 Settlement 10,440 13,610	3 months seller	1,814	1,944.5	1,868.28
3 months 5,836 6,532.5 6,454.69 Settlement 5,811 6,572 6,445.10 3 months seller 5,837 6,533 6,455.5 Copper Grade A (£) Settlement 4,508.36 5,000.76 4,942.89 3 months seller 4,506.43 4,980.18 4,928.04 Lead (\$) Cash 1,901 2,153.5 1,948.26 3 months 1,916.5 2,164.5 1,966.84 Settlement 1,992 2,154 1,948.85 3 months seller 1,918 2,165 1,967.43 Lead (£) Settlement 1,459.02 1,626.25 1,494.57 3 months seller 1,464.91 1,628.19 1,501.87 Nickel (\$) Settlement 10,527.5 13,667.5 12,815.13 3 months 10,530 13,600 12,910.5 Tin (\$) Cash 19,495 21,912.5 20,670.75 3 months	Copper Grade A (\$)			
Settlement 5,811 6,572 6,445.10 3 months seller 5,837 6,533 6,455.5 Copper Grade A (£) Settlement 4,508.36 5,000.76 4,942.89 3 months seller 4,506.43 4,980.18 4,928.04 Lead (\$) Lead (\$) 1,901 2,153.5 1,948.26 3 months 1,916.5 2,164.5 1,966.84 Settlement 1,9902 2,154 1,948.85 3 months seller 1,918 2,165 1,967.43 Lead (£) 1,918 2,165 1,967.43 Lead (£) 1,920 1,626.25 1,494.57 3 months seller 1,459.02 1,626.25 1,494.57 3 months seller 1,464.91 1,628.19 1,501.87 Nickel (\$) 10,437.5 13,607.5 12,815.13 3 months 10,527.5 13,6655 12,903.5 Settlement 10,440 13,610 12,819 3 months seller 10,530 13,660 12,910.5	Cash	5,810.75	6,571	6,444.5
3 months seller 5,837 6,533 6,455.5 Copper Grade A (£) Settlement 4,508.36 5,000.76 4,942.89 3 months seller 4,506.43 4,980.18 4,928.04 Lead (\$) Lead (\$) 1,901 2,153.5 1,948.26 3 months 1,916.5 2,164.5 1,966.84 Settlement 1,902 2,154 1,948.85 3 months seller 1,918 2,165 1,967.43 Lead (£) 1,918 2,165 1,444.57 3 months seller 1,459.02 1,626.25 1,494.57 3 months seller 1,464.91 1,628.19 1,501.87 Nickel (\$) 10,440.91 13,607.5 12,815.13 3 months 10,527.5 13,655 12,903.5 Settlement 10,440 13,610 12,819 3 months seller 10,530 13,660 12,910.5 Tin (\$) 2 20,670.75 3months 19,495 21,912.5 20,670.75 3 months 19,472.5 <td>3 months</td> <td>5,836</td> <td>6,532.5</td> <td>6,454.69</td>	3 months	5,836	6,532.5	6,454.69
Copper Grade A (£) Settlement 4,508.36 5,000.76 4,942.89 3 months seller 4,506.43 4,980.18 4,928.04 Lead (\$) Lead (\$) Cash 1,901 2,153.5 1,948.26 3 months 1,916.5 2,164.5 1,966.84 Settlement 1,902 2,154 1,948.85 3 months seller 1,918 2,165 1,967.43 Lead (£) Settlement 1,459.02 1,626.25 1,494.57 3 months seller 1,464.91 1,628.19 1,501.87 Nickel (\$) Cash 10,437.5 13,607.5 12,815.13 3 months 10,527.5 13,655 12,903.5 Settlement 10,440 13,610 12,819 3 months seller 10,530 13,660 12,910.5 Tin (\$) Cash 19,495 21,912.5 20,670.75 3 months 19,495 21,912.5 20,670.75 3 months 19,472.5 21,700 <t< td=""><td>Settlement</td><td>5,811</td><td>6,572</td><td>6,445.10</td></t<>	Settlement	5,811	6,572	6,445.10
Settlement 4,508.36 5,000.76 4,942.89 3 months seller 4,506.43 4,980.18 4,928.04 Lead (\$) Lead (\$) Cash 1,901 2,153.5 1,948.26 3 months 1,916.5 2,164.5 1,966.84 Settlement 1,902 2,154 1,948.85 3 months seller 1,918 2,165 1,967.43 Lead (£) Settlement 1,459.02 1,626.25 1,494.57 3 months seller 1,464.91 1,628.19 1,501.87 Nickel (\$) Cash 10,437.5 13,607.5 12,815.13 3 months 10,527.5 13,655 12,903.5 Settlement 10,440 13,610 12,819 3 months seller 10,530 13,660 12,910.5 Tin (\$) Cash 19,495 21,912.5 20,670.75 3 months 19,472.5 21,700 20,542.25 Settlement 19,500 21,925 20,683.75	3 months seller	5,837	6,533	6,455.5
3 months seller 4,506.43 4,980.18 4,928.04 Lead (\$) Lead (\$) Cash 1,901 2,153.5 1,948.26 3 months 1,916.5 2,164.5 1,966.84 Settlement 1,902 2,154 1,948.85 3 months seller 1,918 2,165 1,967.43 Lead (£) Settlement 3 months seller 1,459.02 1,626.25 1,494.57 3 months seller 1,464.91 1,628.19 1,501.87 Nickel (\$) Cash 10,437.5 13,607.5 12,815.13 3 months 10,527.5 13,655 12,903.5 Settlement 10,440 13,610 12,819 3 months seller 10,530 13,660 12,910.5 Tin (\$) Cash 19,495 21,912.5 20,670.75 3 months 19,472.5 21,700 20,542.25 Settlement 19,500 21,925 20,683.75	Copper Grade A (£)			
Lead (\$) . 1,901 .2,153.5 .1,948.26 3 months 1,916.5 2,164.5 1,966.84 Settlement 1,902 2,154 1,948.85 3 months seller 1,918 2,165 1,967.43 Lead (£) Settlement 1,459.02 1,626.25 1,494.57 3 months seller 1,464.91 1,628.19 1,501.87 Nickel (\$) Cash 10,437.5 13,607.5 12,815.13 3 months 10,527.5 13,655 12,903.5 Settlement 10,440 13,610 12,819 3 months seller 10,530 13,660 12,910.5 Tin (\$) Cash 19,495 21,912.5 20,670.75 3 months 19,472.5 21,700 20,542.25 Settlement 19,500 21,925 20,683.75	Settlement	4,508.36	5,000.76	4,942.89
Cash 1,901 2,153.5 1,948.26 3 months 1,916.5 2,164.5 1,966.84 Settlement 1,902 2,154 1,948.85 3 months seller 1,918 2,165 1,967.43 Lead (£) Settlement 1,459.02 1,626.25 1,494.57 3 months seller 1,464.91 1,628.19 1,501.87 Nickel (\$) Cash 10,437.5 13,607.5 12,815.13 3 months 10,527.5 13,655 12,903.5 Settlement 10,440 13,610 12,819 3 months seller 10,530 13,660 12,910.5 Tin (\$) Cash 19,495 21,912.5 20,670.75 3 months 19,472.5 21,700 20,542.25 Settlement 19,500 21,925 20,683.75	3 months seller	4,506.43	4,980.18	4,928.04
3 months 1,916.5 2,164.5 1,966.84 Settlement 1,902 2,154 1,948.85 3 months seller 1,918 2,165 1,967.43 Lead (£) Settlement 1,459.02 1,626.25 1,494.57 3 months seller 1,464.91 1,628.19 1,501.87 Nickel (\$) Cash 10,437.5 13,607.5 12,815.13 3 months 10,527.5 13,655 12,903.5 Settlement 10,440 13,610 12,819 3 months seller 10,530 13,660 12,910.5 Tin (\$) Cash 19,495 21,912.5 20,670.75 3 months 19,472.5 21,700 20,542.25 Settlement 19,500 21,925 20,683.75	Lead (\$)			
Settlement 1,902 2,154 1,948.85 3 months seller 1,918 2,165 1,967.43 Lead (£) Settlement 1,459.02 1,626.25 1,494.57 3 months seller 1,464.91 1,628.19 1,501.87 Nickel (\$) Cash 10,437.5 13,607.5 12,815.13 3 months 10,527.5 13,655 12,903.5 Settlement 10,440 13,610 12,819 3 months seller 10,530 13,660 12,910.5 Tin (\$) Cash 19,495 21,912.5 20,670.75 3 months 19,472.5 21,700 20,542.25 Settlement 19,500 21,925 20,683.75	Cash	1,901	2,153.5	1,948.26
3 months seller 1,918 2,165 1,967.43 Lead (£) Settlement 1,459.02 1,626.25 1,494.57 3 months seller 1,464.91 1,628.19 1,501.87 Nickel (\$) Cash 10,437.5 13,607.5 12,815.13 3 months 10,527.5 13,655 12,903.5 Settlement 10,440 13,610 12,819 3 months seller 10,530 13,660 12,910.5 Tin (\$) Cash 19,495 21,912.5 20,670.75 3 months 19,472.5 21,700 20,542.25 Settlement 19,500 21,925 20,683.75	3 months	1,916.5	2,164.5	1,966.84
Lead (£) 1,459.02 1,626.25 1,494.57 3 months seller 1,464.91 1,628.19 1,501.87 Nickel (\$) V Cash 10,437.5 13,607.5 12,815.13 3 months 10,527.5 13,655 12,903.5 Settlement 10,440 13,610 12,819 3 months seller 10,530 13,660 12,910.5 Tin (\$) Cash 19,495 21,912.5 20,670.75 3 months 19,472.5 21,700 20,542.25 Settlement 19,500 21,925 20,683.75	Settlement	1,902	2,154	1,948.85
Settlement 1,459.02 1,626.25 1,494.57 3 months seller 1,464.91 1,628.19 1,501.87 Nickel (\$) Cash 10,437.5 13,607.5 12,815.13 3 months 10,527.5 13,655 12,903.5 Settlement 10,440 13,610 12,819 3 months seller 10,530 13,660 12,910.5 Tin (\$) Cash 19,495 21,912.5 20,670.75 3 months 19,472.5 21,700 20,542.25 Settlement 19,500 21,925 20,683.75	3 months seller	1,918	2,165	1,967.43
3 months seller 1,464.91 1,628.19 1,501.87 Nickel (\$) Cash 10,437.5 13,607.5 12,815.13 3 months 10,527.5 13,655 12,903.5 Settlement 10,440 13,610 12,819 3 months seller 10,530 13,660 12,910.5 Tin (\$) Cash 19,495 21,912.5 20,670.75 3 months 19,472.5 21,700 20,542.25 Settlement 19,500 21,925 20,683.75	Lead (£)			
Nickel (\$) Cash 10,437.5 13,607.5 12,815.13 3 months 10,527.5 13,655 12,903.5 Settlement 10,440 13,610 12,819 3 months seller 10,530 13,660 12,910.5 Tin (\$) Cash 19,495 21,912.5 20,670.75 3 months 19,472.5 21,700 20,542.25 Settlement 19,500 21,925 20,683.75	Settlement	1,459.02	1,626.25	1,494.57
Cash 10,437.5 13,607.5 12,815.13 3 months 10,527.5 13,655 12,903.5 Settlement 10,440 13,610 12,819 3 months seller 10,530 13,660 12,910.5 Tin (\$) Cash 19,495 21,912.5 20,670.75 3 months 19,472.5 21,700 20,542.25 Settlement 19,500 21,925 20,683.75	3 months seller	1,464.91	1,628.19	1,501.87
3 months 10,527.5 13,655 12,903.5 Settlement 10,440 13,610 12,819 3 months seller 10,530 13,660 12,910.5 Tin (\$) Cash 19,495 21,912.5 20,670.75 3 months 19,472.5 21,700 20,542.25 Settlement 19,500 21,925 20,683.75	Nickel (\$)			
Settlement 10,440 13,610 12,819 3 months seller 10,530 13,660 12,910.5 Tin (\$) Cash 19,495 21,912.5 20,670.75 3 months 19,472.5 21,700 20,542.25 Settlement 19,500 21,925 20,683.75	Cash	10,437.5	13,607.5	12,815.13
3 months seller 10,530 13,660 12,910.5 Tin (\$) Cash 19,495 21,912.5 20,670.75 3 months 19,472.5 21,700 20,542.25 Settlement 19,500 21,925 20,683.75	3 months	10,527.5	13,655	12,903.5
Tin (\$) Cash 19,495 21,912.5 20,670.75 3 months 19,472.5 21,700 20,542.25 Settlement 19,500 21,925 20,683.75	Settlement	10,440	13,610	12,819
Cash 19,495 21,912.5 20,670.75 3 months 19,472.5 21,700 20,542.25 Settlement 19,500 21,925 20,683.75	3 months seller	10,530	13,660	12,910.5
3 months 19,472.5 21,700 20,542.25 Settlement 19,500 21,925 20,683.75	Tin (\$)			
Settlement 19,500 21,925 20,683.75	Cash	19,495	21,912.5	20,670.75
The state of the s	3 months	19,472.5	21,700	20,542.25
3 months seller 19,475 21,725 20,559.5	Settlement	19,500	21,925	20,683.75
	3 months seller	19,475	21,725	20,559.5

	Jan-Apr 2019		April
	Low	High	average
	\$	\$	\$
Zinc (\$)			
Cash	2,461	3,017	2,937.96
3 months	2,395.5	2,948.5	2,846.05
Settlement	2,462	3,018	2,938.75
3 months seller	2,396	2,949	2,846.48
Cobalt (\$)			
Cash	29,500	46,000	33,593.75
3 months	29,500	50,000	33,587.5
Settlement	30,000	47,000	33,977.5
3 months seller	30,000	51,000	34,000
Aluminium Alloy (\$)			
Cash	1,300	1,517.5	1,351.99
3 months	1,355	1,525	1,390.25
Settlement	1,305	1,520	1,356.5
3 months seller	1,360	1,530	1,396.25
Nasaa (\$)			
Cash	1,255	1,535	1,310.15
3 months	1,280	1,565	1,348.5
Settlement	1,260	1,536	1,313.20
3 months seller	1,285	1,570	1,354.75

LME SETTLEMENT CONVERSION RATES	
\$/£	1.30
\$/yen	111.62
\$/€	1.12