

September 03, 2018

IRON ORE PORT STOCK INDEX (IOPI)

Septembe	eptember 3 2018 FOT Qingdao (inc. 16% VAT), RMB/wet tonne				CFR Qingdao Equivalent (exc. 16% VAT), USD/dry tonne 1										
Index	Fe Content	Price	Change	Change %	MTD	YTD	Low ²	High ²	Price	Change	Change %	MTD	YTD	Low ²	High ²
IOPI62	62% Fe Fines	496	2	0.4%	496	483	443	559	64.16	0.18	0.3%	64.16	65.36	61.36	77.89
IOPI58	58% Fe Fines	382	-1	-0.3%	382	338	304	376	48.53	-0.21	-0.4%	48.53	44.42	40.67	50.97
IOPI65	65% Fe Fines	735	2	0.3%	735	618	541	710	96.93	0.13	0.1%	96.93	84.68	75.83	97.10

IRON ORE DOMESTIC CONCENTRATE SPOT PRICE ASSESSMENTS AND COMPOSITE INDEX

Week Ending August 31, 2018				RMB/tonne (excluding tax)				USD/tonne (excluding tax) ³			
Province	Region	Product	Basis	This week	Change %	Low ²	High ²	This week	Change %	Low ²	High ²
Hebei	Hanxing	66% Fe Concentrate	Dry	637	-1.4%	579	682	93.40	-1.0%	84.90	100.00
Hebei	Qian'an	65% Fe Concentrate	Dry	775	1.3%	630	775	113.64	1.7%	92.38	113.64
Liaoning	Anshan	65% Fe Concentrate	Wet	495	0.0%	445	550	72.58	0.4%	65.25	80.65
Shandong	Zibo	65% Fe Concentrate	Dry	725	0.0%	620	725	106.31	0.4%	90.91	106.31
Week Ending A	Week Ending August 31, 2018		This week	Change %	Low ⁴	High ⁴	¹ Exchange rate applie	d: RMB/USD = 6.8347	² Since March 1		
China Mines Concentrate Composite Index RMB/WT		614.66	4.2%	534.50	628.33	³ Weekly exchange rat	e applied: RMB/USD 6.819	8 ⁴ Last 12 months			

MARKET COMMENTARY

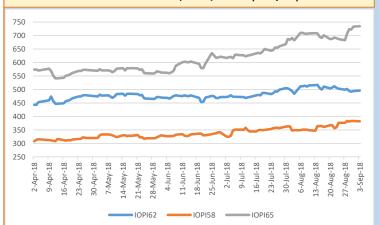
Physical ion ore port stock quotes strengthened slightly today as purchasing interest grew from last week. However, despite greater interest, few deals were concluded. Much of the market's attention centred on lump today with PB lump trading around 685yuan/mt at Jingtang port, and the price spread between it and PB Fines at 175 yuan/mt. Lump is expected to continue to outperform the wider market on low inventory, and on greater focus on environmental legislation to mitigate strict production cuts.

PLATFORM TRADES AND TENDERS

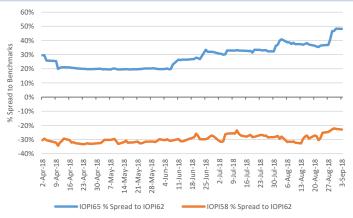
September 3 2018 PORT STOCK INDEX (RMB/WT) Fe Content Spread to IOPI62 % Spread to IOPI62 58% Fe Fines -114 -22.98% 65% Fe Fines 239 48.19%

IRON ORE HIGH/LOW GRADE PREMIUM/DISCOUNT

IRON ORE PORT INDEX, FOT QINGDAO (RMB/WT)



IRON ORE HIGH/LOW GRADE PREMIUM/DISCOUNT



IRON ORE FUTURES CONTRACTS

	DCE				SGX	
Closing Date 03 Sept 3pm close			03 Sept 6pm			
Contract	11901	Change	Change %	Sep'18	Change	Change %
Closing Price	485.0	0.0	0.00%	66.60	0.55	0.83%
Vol traded ('000 lots)	92.63	-21.7	-19.00%	4.48	-0.11	-2.29%
Open positions ('000 lots)	67.00	-3.2	-4.54%	101.11	-0.05	-0.05%
Day Low	478.5	-6.5	-1.34%	65.49	-0.42	-0.64%
Day High	485.0	-4.0	-0.82%	66.60	0.20	0.30%

FREIGHT RATES

August 31, 2018		FREIGHT	RATES - DRY BULI	K US\$/wet tonn	e	
Route	Designation		Change	Change %	Low ⁴	High ⁴
W. Australia - Qingdao	C5	8.64	-0.04	-0.43%	5.109	10.002
Tubarao - Qingdao	C3	22.14	-0.25	-1.10%	12.705	24.76

IRON ORE PORT INVENTORIES

	Week Ending August 31, 2018 (million tonnes)							
Province	This week	Change %	Low ⁴	High ⁴				
Jingtang	16.03	1.78%	14.11	19.00				
Qingdao	19.00	0.53%	15.60	19.97				
Caofeidian	16.70	-7.22%	16.62	25.30				
Tianjin	9.70	-6.73%	8.60	11.00				
Rizhao	17.30	3.59%	13.10	19.00				
Total (35 Ports)	135.32	-1.57%	123.49	150.04				

BLOOMBERG

	BLOOMBERG TICKERS					
	FOT Qingdao (RMB/wet tonne)	CFR Qingdao Equivalent (USD/dry tonne)				
IOPI62	IRCNQ001	IRCNQ004				
IOPI58	IRCNQ002	IRCNQ005				
IOPI65	IRCNQ003	IRCNQ006				

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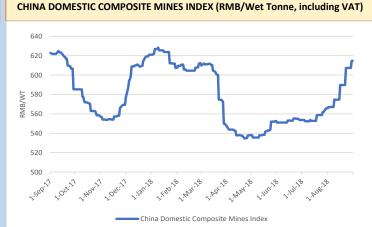
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IRON ORE BRAND SPOT PRICE ASSESMENTS

September 3 2018	PORT STOCK INDEX (RMB/WT)				
	Price	Change	Diff to IOPI62		
Newman Fines	479	2	-15		
SIMEC Fines	452	2	-42		
PB Fines	486	3	-8		
Newman Fines	498	2	4		
MAC Fines	479	2	-15		
Jimblebar Blended Fines	449	2	-45		
Carajas Fines	741	2	247		
Brazilian SSF	558	2	64		
Brazilian Blend Fines	549	2	55		
RTX Fines	458	2	-36		

RTA FITTES	458		-30		
September 3 2018	PORT STOCK INDEX (RMB/WT)				
	Price	Change	Diff to IOPI58		
SSF	302	-1	-81		
FMG Blended Fines	373	-1	-10		
Robe River	337	-1	-46		
Western Fines	313	-1	-70		
Atlas Fines	301	-1	-82		
Yandi	372	-1	-11		

AVERAGE IRON ORE BRAND SPECIFICATIONS FOR PORT STOCK SALES

September 3 2018

SPECIFICATIONS APPLIED FOR 62% BRAND ASSESSMENTS

	Fe	Alumina	Silica	Phos	Moisture
Roy Hill	61.00%	2.20%	4.50%	0.055%	8.00%
SIMEC Fines	60.00%	2.30%	6.30%	0.060%	6.00%
PB Fines	61.65%	2.37%	3.59%	0.100%	9.13%
Newman Fines	62.34%	2.42%	4.33%	0.090%	7.40%
MAC Fines	61.28%	2.25%	4.67%	0.090%	7.81%
Jimblebar Blended Fines	61.42%	2.86%	4.50%	0.110%	6.92%
Carajas Fines	65.06%	1.34%	1.68%	0.080%	8.02%
Brazilian SSF	62.00%	1.00%	6.50%	0.040%	6.00%
Brazilian Blend Fines	62.97%	1.42%	4.80%	0.060%	8.59%
RTX Fines	61.00%	3.10%	4.50%	0.135%	7.50%
September 3 2018	SPECIFICAT	TIONS APPLI	ED FOR 58%	BRAND ASS	ESSMENTS
	Fe	Alumina	Silica	Phos	Moisture
SSF	56.52%	3.07%	6.27%	0.050%	9.11%
FMG Blended Fines	58.39%	2.71%	5.84%	0.070%	7.16%
Robe River	56.74%	3.14%	5.05%	0.030%	8.75%
Western Fines	57.70%	2.81%	7.38%	0.060%	7.42%
Atlas Fines	56.59%	2.55%	7.14%	0.080%	8.46%

TOTAL IRON ORE INVENTORIES AT CHINA PORTS



FUTURE TRADING—FRONT MONTH CLOSING PRICE



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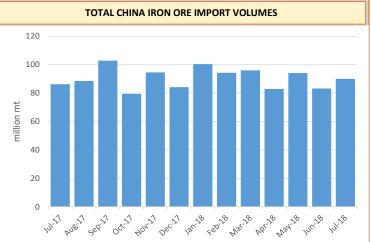
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Steel Spot Market Prices - China

Steel Spot Market RMB/tonne			
Product	31/8/2018	Change	Change %
ReBar HRB400	4,458.0	-88	-1.94%
Wirerod Q300 ¢6.5mm	4,695.0	-90	-1.88%
HRC Q235/SS400 5.5mm*1500*C	4,338.0	-66	-1.50%
CRC SPCC/ST12 1.0mm*1250*2500	4,893.0	-23	-0.47%
Medium & Heavy Plate Q235B 20mm	4,500.0	-23	-0.51%
GI ST02Z 1.0mm*1000*C	5,350.0	-50	-0.93%
Billet Q235 150*150mm	3,980.0	-70	-1.73%



CHINESE STEEL EXPORT PRICES							
China Export Prices USD/tonne							
Product	Specification	Export tax (+)/Vate rebate (-)		Change			
			31/8/2018				
Rebar	BS4449 460B 12-25mm, + chrome	-13%	565	0			
Wire Rod	SAE1008 6.5-10mm +chrome	-9%	580	0			
Hot-rolled coil	SS400/Q235 4.0-10.mm	-9%	575	0			
Cold-rolled coil	SPCC 1.0mm	-13%	615	0			
Medium & Heavy plate	A-level Shipe plate 12-25mm	0%	610	0			
Galvanised	ST02Z/SGCC 1.0mm	-13%	685	0			

Note: Calculation formula for converting export prices of rebar, cold-rolled steel and galvanizing into prices in China's spot market = FOB* exchange rate*1fb((16-0.05); Calculation formula for converting export prices of wire rod and hot-rolled steel into prices in hina's spot market = FOB* exchange rate *1fb((16-0.09); Calculation formula for converting export prices of medium-thick plate into prices in China's spot market = FOB* exchange rate

Steel Inventories³ (unit: 1000 tonnes) **Product** 31/8/2018 24/8/2018 Change Change % Rebar 4,474 4,462 0.27% Wirerod 1,315 1,309 6 0.46% Hot-rolled Coil 2,183 2,221 -38 -1.71% Medium & Thick Plate 958 964 -6 -0.62% Cold-rolled Coil 1,177 1,171 6 0.51% -0.20% Total 10,107 10,127 -20

CHINESE STEEL INVENTORIES

³ SMM statistics cover inventories of major steel products in China's major markets: hotrolled steel inventories in 33 major cities; rebar and wire inventories in 35 major cities; coldrolled steel and medium-thick plate inventories in 31major cities.

CHINESE STEEL MILL PROFITABILITY

SMM Tracking o	SMM Tracking of Steel Mill P&L - Rebar and Hot-rolled Coil (RMB/tonne)					
Category	Price	Change (WoW)	Note			
MMi (Fe 62%), USD/mt exluding tax	63.98	-0.80	MMi index for 22nd June			
Coke	2,510	120	2nd grade met coke, Tangshan, incl. tax			
Steel Scrap	2,320	-60	steel scrap (6mm) in Zhangjiagang, exl. tax			
Billet Cost	3,021	21	Q234, incl. tax			
Rebar cost - Blast furnace	3,293	19	calculated based on theoretical w eight, incl. tax			
Rebar profit - Blast furnace	1,007	-79	based on Shanghai prices, incl. tax			
Hot-rolled coil cost - Blast furnace	3,345	17	based on actual weight, incl. tax			
Hot-rolled coil proft - Blast furnace	985	-97	based on Shanghai prices, incl. tax			
Note: 1 Costs in the table are caluclated based or	n todays market	t prices and facout o	our management, sales, financial and depreciations fees.			

2. The cost refers to average cost in the industry based on SMM's survey of small, medium and large mills in China

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IRON ORE INDEX SPECIFICATIONS, COMPILATION RATIONALE AND DATA EXCLUSIONS

	Iron Ore Index Sp	ecifications (Port)		Iron Ore Index Compilation Rationale and Data Exclusions			
	65% Fe Fines	62% Fe Fines	58% Fe Fines				
Fe %	65.00	62.00	58.00	MMi iron ore port stock indices are compiled from data provided by companies that are part			
Alumina %	1.40	2.25	2.25	of the iron ore supply chain and involved in spot market transactions. The indices are calculated using detailed transaction-level data submitted to MMi by these companies. This data is normalised to the appropriate specifications and screened to remove outliers before volume-weighted average prices are calculated from the remaining core set of data.			
Silica%	1.50	4.00	5.50				
Phosphorus %	0.06	0.09	0.05				
Sulphur %	0.01	0.02	0.02	For more details on MMi's iron ore methodology please download the guide published or			
Moisture %	8.00	8.00	9.00	website at: www.mmiprices.com			
Sizing		low 10mm for at lea m of 40% below 150	0 ,	Data Exclusions* Port Index: 0			
Pricing Point	Qingdao Port			* Number of price submissions for iron ore indices that were excluded from index calculations today as they were anomalous and could not be verified			
Timing (Seaborne)	Loading withi	n 4 weeks, Delivery v	within 8 weeks	today as they were anomalous and could not be verified			
Payment Terms		L/C at sight					

IRON ORE DOMESTIC CONCENTRATE INDEX CALCULATION METHODOLOGY

The compilation method for price index generally refers to the compilation method of CPI price index and other price indices, breakdown the price data and calculate the average value according to a certain method, taking the vertical axis as the regional composite index (average of different grade index) and the horizontal axis as the grade composite index (average of different regional index), a total composite index for domestic ore can be output ultimately. The process system is also adopted in the calculation i.e. each sub-index can be obtained as well.

IRON ORE PORT INDEX NORMALISATION DIFFERENTIALS									
	Product Differentials (RMB/we	Differentials to Qingdao Port (RMB/wet tonne)							
	Applicable range	Value	Change	Port	Value	Change			
1% Fe	High Grade Fe 60 - 63%	15.00	0.00	Bayuquan	-35.00	0.00			
	High Grade Fe 63 - 64%	74.00	0.00	Beilun	5.00	0.00			
	High Grade Fe 64 - 65%	74.00	0.00	Caofeidian	-25.00	0.00			
	High Grade Fe 65 - 65.5%	74.00	0.00	Dalian	-20.00	0.00			
	Low Grade Fe	21.00	0.00	Fangcheng	-5.00	0.00			
1% Alumina	High Fe Grade Al <2.25%	60.00	0.00	Jiangyin	-30.00	0.00			
	High Fe Grade Al 2.25-4%	19.00	0.00	Jingtang	-25.00	0.00			
	Low Fe Grade	35.00	0.00	Lanshan	0.00	0.00			
1% Silica	High Fe Grade Si <4%	10.00	0.00	Lanqiao	0.00	0.00			
	High Fe Grade Si <4 - 6.5%	10.00	0.00	Lianyungang	0.00	0.00			
	High Fe Grade Si <6.5 - 9%	20.00	0.00	Majishan	0.00	0.00			
	Low Fe Grade	26.00	0.00	Nantong	-30.00	0.00			
0.01% Phosphorus	High Fe Grade 0.08% <p<0.115%< td=""><td>1.00</td><td>0.00</td><td>Qingdao</td><td>0.00</td><td>0.00</td></p<0.115%<>	1.00	0.00	Qingdao	0.00	0.00			
	High Fe grade 0.115% <p<0.15%< td=""><td>2.00</td><td>0.00</td><td>Rizhao</td><td>0.00</td><td>0.00</td></p<0.15%<>	2.00	0.00	Rizhao	0.00	0.00			
	Low Fe Grade0.08 < P < 0.15%	2.00	0.00	Tianjin	-30.00	0.00			

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