

July 13, 2018

IRON ORE PORT STOCK INDEX (IOPI)

July 13 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	472	1	0.2%	473	477	443	559	62.35	0.14	0.2%	62.72	65.57	61.36	77.89
IOPI58	58% Fe Fines	344	-5	-1.4%	343	329	304	376	44.38	-0.70	-1.6%	44.42	43.88	40.67	50.97
IOPI65	65% Fe Fines	627	1	0.2%	623	593	541	690	84.12	0.14	0.2%	83.98	82.55	75.83	97.10

IRON ORE DOMESTIC CONCENTRATE SPOT PRICE ASSESSMENTS AND COMPOSITE INDEX

Week Ending July 6, 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	605	1.3%	579	682	91.18	0.1%	87.26	102.78
Hebei	Qian'an	65% Fe Concentrate	Dry	655	0.0%	630	710	98.71	-1.2%	94.95	107.00
Liaoning	Anshan	65% Fe Concentrate	Wet	485	-2.0%	445	550	73.09	-3.2%	67.07	82.89
Shandong	Zibo	65% Fe Concentrate	Dry	660	0.0%	620	690	99.47	-1.2%	93.44	103.99
Week Ending July 6, 2018		This week	Change %	Low ⁴	High ⁴	¹ Exchange rate applied	d: RMB/USD = 6.6727	² Since March 1			
China Mines Concentrate Composite Index RMB/WT		552.39	-0.2%	534.50	628.33	³ Weekly exchange rate	e applied: RMB/USD 6.6353	⁴ Last 12 months			

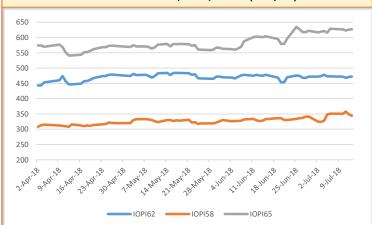
MARKET COMMENTARY

Iron ore port stock inventories across 35 ports shrank 380,000 mt, from a week ago, to 140.15 million mt. Daily average deliveries from ports fell 50,000 mt to 2.56 million mt. Volumes departing Tangshan ports continued to stand at high levels as details of output cuts remained undetermined. Following the Tangshan government's announcement of a shutdown all sintering machines and shaft furnaces in the Lunan, Lubei, Kaiping, Fengnan, Guye, Fengrun districts as well as Luan county, the iron ore port stock market ended the week on a lacklustre note.

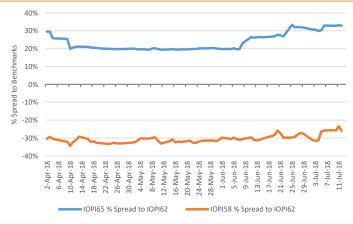
PLATFORM TRADES AND TENDERS

IRON ORE HIGH/LOW GRADE PREMIUM/DISCOUNT							
July 13 2018 PORT STOCK INDEX (RMB/WT)							
Fe Content	Spread to IOPI62	% Spread to IOPI62					
58% Fe Fines	-128	-27.12%					
65% Fe Fines	155	32.84%					

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



IRON ORE HIGH/LOW GRADE PREMIUM/DISCOUNT



IRON ORE FUTURES CONTRACTS

	DCE				SGX		
Closing Date	13	July 3pm clo	ose	13 July 6pm			
Contract	11809	Change	Change %	Aug'18	Change	Change %	
Closing Price	463.0	-0.5	-0.11%	63.39	-0.26	-0.41%	
Vol traded ('000 lots)	793.8	-722.2	-47.64%	6.87	2.86	71.45%	
Open positions ('000 lots)	906.4	-191.1	-17.42%	89.54	-0.34	-0.37%	
Day Low	462.0	9.5	2.10%	63.38	1.18	1.90%	
Day High	466.5	1.5	0.32%	63.89	0.14	0.22%	

July 12, 2018		FREIGHT RATES - DRY BULK US\$/wet tonne						
Route	Designation		Change	Change %	Low ⁴	High ⁴		
W. Australia - Qingdao	C5	8.70	0.04	0.47%	4.746	9.98		
Tubarao - Qingdao	C3	21.77	0.27	1.25%	11.792	22.536		

FREIGHT RATES

IRON ORE PORT INVENTORIES

	Week Ending Ju	ly 13, 2018 (million to	nnes)	
Province	This week	Change %	Low ⁴	High⁴
Jingtang	16.84	-1.23%	14.11	19.00
Qingdao	18.50	-1.23%	15.60	19.97
Caofeidian	19.39	0.36%	16.62	25.30
Tianjin	8.70	1.16%	8.00	11.00
Rizhao	18.43	-1.60%	13.10	19.00
Total (35 Ports)	140.15	-0.57%	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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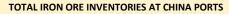


IRON ORE BRAND SPOT PRICE ASSESMENTS							
PORT	STOCK INDEX (R	MB/WT)					
Price	Change	Diff to IOPI62					
453	1	-19					
440	1	-32					
453	0	-19					
481	1	9					
465	1	-7					
422	2	-50					
641	1	169					
511	1	39					
506	1	34					
422	1	-50					
PORT	STOCK INDEX (R	MB/WT)					
Price	Change	Diff to IOPI58					
282	-5	-62					
335	-5	-9					
308	-5	-36					
286	-7	-58					
	PORT Price 453 440 453 481 465 422 641 511 506 422 PORT Price 282 335 308	PORT STOCK INDEX (R Price Change 453 1 440 1 453 0 481 1 465 1 422 2 641 1 511 1 506 1 422 1 PORT STOCK INDEX (R Price Change 282 -5 335 -5 308 -5					

AVERAGE IRON ORE BRAND SPECIFICATIONS FOR PORT STOCK SALES

SPECIFICATIONS APPLIED FOR 62% BRAND ASSESSMENTS

SPECIFICATIONS AFFEILD FOR 02/6 BRAIND ASSESSIVILINTS							
Fe	Alumina	Silica	Phos	Moisture			
61.00%	2.20%	4.50%	0.055%	8.00%			
60.00%	2.30%	6.30%	0.060%	6.00%			
61.64%	2.40%	3.56%	0.103%	8.83%			
62.51%	2.40%	4.12%	0.088%	7.53%			
61.46%	2.19%	4.44%	0.087%	7.57%			
61.25%	2.92%	4.29%	0.125%	6.81%			
65.43%	1.30%	1.91%	0.050%	8.10%			
62.00%	1.00%	6.50%	0.040%	6.00%			
62.86%	1.38%	5.08%	0.009%	8.50%			
61.00%	3.10%	4.50%	0.135%	7.50%			
SPECIFICAT	TIONS APPLI	ED FOR 58%	BRAND ASS	ESSMENTS			
Fe	Alumina	Silica	Phos	Moisture			
56.58%	3.01%	6.28%	0.060%	9.08%			
58.26%	2.72%	5.81%	0.070%	7.16%			
56.58%	2.98%	5.52%	0.030%	8.33%			
57.61%	2.94%	6.88%	0.070%	7.56%			
56.59%	2.55%	7.14%	0.080%	8.46%			
57.19%	1.40%	6.39%	0.040%	8.85%			
	Fe 61.00% 60.00% 61.64% 62.51% 61.46% 61.25% 65.43% 62.00% 62.86% 61.00% SPECIFICA Fe 56.58% 58.26% 57.61% 56.59%	Fe Alumina 61.00% 2.20% 60.00% 2.30% 61.64% 2.40% 62.51% 2.40% 61.46% 2.19% 61.25% 2.92% 65.43% 1.30% 62.00% 1.00% 62.86% 1.38% 61.00% 3.10% SPECIFICATIONS APPLI Fe Alumina 56.58% 2.72% 56.58% 2.98% 57.61% 2.94% 56.59% 2.55%	Fe Alumina Silica 61.00% 2.20% 4.50% 60.00% 2.30% 6.30% 61.64% 2.40% 3.56% 62.51% 2.40% 4.12% 61.46% 2.19% 4.44% 61.25% 2.92% 4.29% 65.43% 1.30% 1.91% 62.00% 1.00% 6.50% 62.86% 1.38% 5.08% 61.00% 3.10% 4.50% SPECIFICATIONS APPLIED FOR 58% Fe Alumina Silica 56.58% 3.01% 6.28% 58.26% 2.72% 5.81% 56.58% 2.98% 5.52% 57.61% 2.94% 6.88% 56.59% 2.55% 7.14%	Fe Alumina Silica Phos 61.00% 2.20% 4.50% 0.055% 60.00% 2.30% 6.30% 0.060% 61.64% 2.40% 3.56% 0.103% 62.51% 2.40% 4.12% 0.088% 61.46% 2.19% 4.44% 0.087% 61.25% 2.92% 4.29% 0.125% 65.43% 1.30% 1.91% 0.050% 62.00% 1.00% 6.50% 0.040% 62.86% 1.38% 5.08% 0.009% 61.00% 3.10% 4.50% 0.135% SPECIFICATIONS APPLIED FOR 58% BRAND ASS Fe Alumina Silica Phos 56.58% 3.01% 6.28% 0.060% 58.26% 2.72% 5.81% 0.070% 56.58% 2.98% 5.52% 0.030% 57.61% 2.94% 6.88% 0.070% 56.59% 2.55% 7.14% 0.080%			



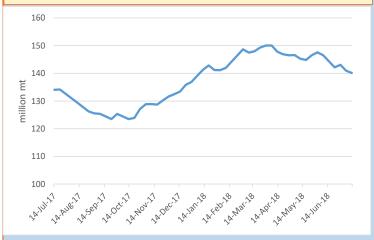
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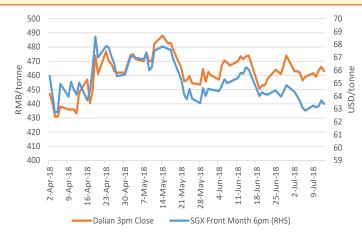
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Atlast Fines

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FUTURE TRADING—FRONT MONTH CLOSING PRICE



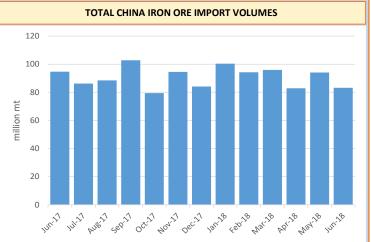
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Steel Spot Market Prices - China

Steel Spot Market RMB/tonne			
Product	7/6/2018	Change	Change %
ReBar HRB400 ø18mm	4,015.0	-48.0	-1.18%
Wirerod Q300 ¢6.5mm	4,319.0	-49.0	-1.12%
HRC Q235/SS400 5.5mm*1500*C	4,184.0	-80.0	-1.88%
CRC SPCC/ST12 1.0mm*1250*2500	4,660.0	-36.0	-0.77%
Medium & Heavy Plate Q235B 20mm	4,323.0	-53.0	-1.21%
GI ST02Z 1.0mm*1000*C	5,305.0	-30.0	-0.56%
Billet Q235 150*150mm	3,600.0	0.0	0.00%



CHIN	ESE S	TEFL	FXPO	RT P	RICES

China Export Prices USD	/tonne			
Product	Specification	Export tax (+)/Vate rebate (-)		Change
			7/6/2018	
Rebar	BS4449 460B 12-25mm, + chrome	-13%	620	0
Wire Rod	SAE1008 6.5-10mm +chrome	-9%	585	15
Hot-rolled coil	SS400/Q235 4.0-10.mm	-9%	600	-5
Cold-rolled coil	SPCC 1.0mm	-13%	635	-5
Medium & Heavy plate	A-level Shipe plate 12-25mm	0%	635	0
Galvanised	ST02Z/SGCC 1.0mm	-13%	700	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(16-0.9); Calculation formula for converting export prices of wire rod and hot-rolled steel into prices in hina's spot market = FOB* exchange rate *1fb(16-0.9); 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	7/6/2018	6/29/2018	Change	Change %				
Rebar	4,758	4,835	-77	-1.59%				
Wirerod	1,249	1,326	-77	-5.81%				
Hot-rolled Coil	2,107	2,086	21	1.01%				
Medium & Thick Plate	895	862	33	3.83%				
Cold-rolled Coil	1,204	1,182	22	1.86%				
Total	10,213	10,291	-78	-0.76%				

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 31 major cities.

CHINESE STEEL MILL PROFITABILITY

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	62.86	-0.02	MMi index for 22nd June			
Coke	2,270	-50	2nd grade met coke, Tangshan, incl. tax			
Steel Scrap	2,020	0	steel scrap (6mm) in Zhangjiagang, exl. tax			
Billet Cost	2,837	-30	Q234, incl. tax			
Rebar cost - Blast furnace	3,100	-30	calculated based on theoretical weight, incl. tax			
Rebar profit - Blast furnace	760	-30	based on Shanghai prices, incl. tax			
Hot-rolled coil cost - Blast furnace	3,165	-30	based on actual w eight, incl. tax			
Hot-rolled coil proft - Blast furnace	1,025	-40	based on Shanghai prices, incl. tax			
Note: 1 Costs in the table are caluclated based on todays market prices and facout our management, sales, financial and depreciations fees.						

Note: L'Costs in the table are caluciated based on todays market prices and facout our management, sales, financial and depreciations rec

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 Specifications (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			
Silica%	1.50	4.00	5.50	normalised to the appropriate specifications and screened to remove outliers before volume-			
Phosphorus %	0.06	0.09	0.05	weighted average prices are calculated from the remaining core set of data.			
Sulphur %	0.01	0.02	0.02	For more details on MMi's iron ore methodology please download the guide published on our			
Moisture %	8.00	8.00	9.00	website at:			
Granular size below 10mm for at least 90% of cargo; maximum of 40% below 150 micron		0 ,	Data Exclusions* Port Index: 0				
Pricing Point	Qingdao Port			* Number of price submissions for iron ore indices that were excluded from index calcula today as they were anomalous and could not be verified			
Timing (Seaborne)	Loading within 4 weeks, Delivery within 8 weeks		within 8 weeks	today as they were anomalous and could not be verified			
Payment Terms	nent 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/wet tonne)				Differentials to Qingdao Port (RMB/wet tonne)		
	Applicable range	Value	Change	Port	Value	Change
1% Fe	High Grade Fe 60 - 63%	20.00	0.00	Bayuquan	-10.00	0.00
	High Grade Fe 63 - 64%	35.00	0.00	Beilun	5.00	0.00
	High Grade Fe 64 - 65%	65.00	0.00	Caofeidian	-5.00	0.00
	High Grade Fe 65 - 65.5%	65.00	0.00	Dalian	0.00	0.00
	Low Grade Fe	15.00	0.00	Fangcheng	0.00	0.00
1% Alumina	High Fe Grade Al <2.25%	22.50	0.00	Jiangyin	-30.00	0.00
	High Fe Grade Al 2.25-4%	22.50	0.00	Jingtang	-5.00	0.00
	Low Fe Grade	22.00	0.00	Lanshan	0.00	0.00
1% Silica	High Fe Grade Si <4%	0.00	0.00	Lanqiao	0.00	0.00
	High Fe Grade Si <4 - 6.5%	0.00	0.00	Lianyungang	0.00	0.00
	High Fe Grade Si <6.5 - 9%	23.00	0.00	Majishan	0.00	0.00
	Low Fe Grade	30.00	0.00	Nantong	-30.00	0.00
0.01% Phosphorus	High Fe Grade 0.08% <p<0.115%< td=""><td>3.00</td><td>0.00</td><td>Qingdao</td><td>0.00</td><td>0.00</td></p<0.115%<>	3.00	0.00	Qingdao	0.00	0.00
	High Fe grade 0.115% <p<0.15%< td=""><td>3.00</td><td>0.00</td><td>Rizhao</td><td>0.00</td><td>0.00</td></p<0.15%<>	3.00	0.00	Rizhao	0.00	0.00
	Low Fe Grade0.08 < P < 0.15%	3.00	0.00	Tianjin	-20.00	0.00

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