

# August 06, 2018

#### IRON ORE PORT STOCK INDEX (IOPI)

August 06 2018 FOT Qingdao (inc. 16% VAT), RMB/wet tonne				CFR Qingdao Equivalent (exc. 16% VAT), USD/dry tonne <sup>1</sup>											
Index	Fe Content	Price	Change	Change %	MTD	YTD	Low <sup>2</sup>	High <sup>2</sup>	Price	Change	Change %	MTD	YTD	Low <sup>2</sup>	High <sup>2</sup>
IOPI62	62% Fe Fines	512	28	5.8%	498	479	443	559	66.20	3.66	5.9%	64.44	65.36	61.36	77.89
IOPI58	58% Fe Fines	349	0	0.0%	352	333	304	376	43.90	-0.12	-0.3%	44.51	44.07	40.67	50.97
IOPI65	65% Fe Fines	710	28	4.1%	692	603	541	690	93.28	3.58	4.0%	91.14	83.27	75.83	97.10

#### IRON ORE DOMESTIC CONCENTRATE SPOT PRICE ASSESSMENTS AND COMPOSITE INDEX

Week Ending August 03, 2018				RMB/tonne (excluding tax)				USD/tonne (excluding tax) <sup>3</sup>			
Province	Region	Product	Basis	This week	Change %	Low <sup>2</sup>	High <sup>2</sup>	This week	Change %	Low <sup>2</sup>	High <sup>2</sup>
Hebei	Hanxing	66% Fe Concentrate	Dry	627	2.8%	579	682	91.97	2.3%	84.93	100.04
Hebei	Qian'an	65% Fe Concentrate	Dry	690	0.0%	630	710	101.22	-0.5%	92.41	104.15
Liaoning	Anshan	65% Fe Concentrate	Wet	465	0.0%	445	550	68.21	-0.5%	65.28	80.68
Shandong	Zibo	65% Fe Concentrate	Dry	680	3.0%	620	690	99.75	2.5%	90.95	101.22
Week Ending August 03, 2018			This week	Change %	Low <sup>4</sup>	High ⁴	<sup>1</sup> Exchange rate applied: RMB/USD = 6.8513 <sup>2</sup> Since March 1				
China Mines Concentrate Composite Index RMB/WT		567.06	0.9%	534.50	628.33	3 Weekly exchange rat	e applied: RMB/USD 6.817	1 4 Last 12 months			

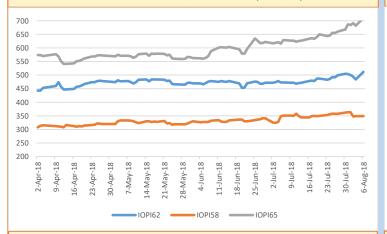
#### MARKET COMMENTARY

News of Rio Tinto's railway maintenance and China's central bank stepping in to halt the yuan's decline drove up the iron ore DCE Futures market to 516 yuan/mt last Friday night. Iron ore ports stock quotes this morning rose by 15-25 yuan/mt, with transactions of PB Fines concluded at 490-495 yuan/wt. Transactions at Tangshan rose as high as 500 yuan/wt. Traders sold actively, but held some inventory back in hopes of higher selling prices. Mills remained cautious as the price hike exceeded their expectations and only purchased when required.

#### **PLATFORM TRADES AND TENDERS**

COREX trades BRBF at US\$75.05/mt for 170,000t for Aug 25—Sept 4 Delivery

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



### IRON ORE FUTURES CONTRACTS

	DCE				SGX		
Closing Date	ate 06 Aug 3pm close			06 Aug 6pm			
Contract	I1809 Change Change %		Aug'18	Change	Change %		
Closing Price	502.5	18.0	3.72%	69.20	1.70	2.52%	
Vol traded ('000 lots)	142.79	42.0	41.68%	8.13	2.97	57.49%	
Open positions ('000 lots)	61.68	-2.9	-4.46%	101.78	-0.92	-0.90%	
Day Low	498.5	20.5	4.29%	68.18	1.80	2.71%	
Day High	504.0	16.5	3.38%	69.20	1.70	2.52%	

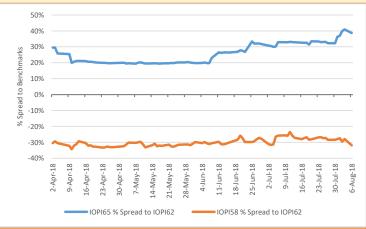
# FREIGHT RATES

August 03, 2018		FREIGHT RATES - DRY BULK US\$/wet tonne					
Route	Designation		Change	Change %	Low ⁴	High <sup>4</sup>	
W. Australia - Qingdao	C5	10.00	0.19	1.97%	5.109	10.002	
Tubarao - Qingdao	C3	24.66	0.58	2.40%	12.705	24.655	

#### IRON ORE HIGH/LOW GRADE PREMIUM/DISCOUNT

August 06 2018	PORT STOCK INDEX (RIVIB) WT)			
Fe Content	Spread to IOPI62	% Spread to IOPI62		
58% Fe Fines	-163	-31.84%		
65% Fe Fines	198	38.67%		

### IRON ORE HIGH/LOW GRADE PREMIUM/DISCOUNT



### IRON ORE PORT INVENTORIES

Week Ending August 03, 2018 (million tonnes)								
Province	This week	Change %	Low <sup>4</sup>	High <sup>4</sup>				
Jingtang	16.50	-3.51%	14.11	19.00				
Qingdao	18.90	-0.53%	15.60	19.97				
Caofeidian	18.72	0.65%	16.62	25.30				
Tianjin	10.48	6.94%	8.35	11.00				
Rizhao	17.45	-0.46%	13.10	19.00				
Total (35 Ports)	140 74	0.29%	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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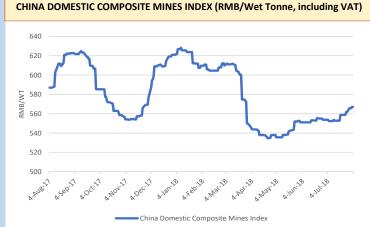
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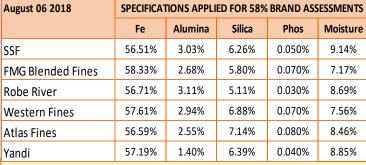
# IRON ORE BRAND SPOT PRICE ASSESMENTS

August 06 2018	PORT	PORT STOCK INDEX (RMB/WT)					
	Price	Change	Diff to IOPI62				
Roy Hill	495	28	-17				
SIMEC Fines	475	28	-37				
PB Fines	494	27	-18				
Newman Fines	521	27	9				
MAC Fines	503	28	-9				
Jimblebar Blended Fines	457	11	-55				
Carajas Fines	762	28	250				
Brazilian SSF	547	28	35				
Brazilian Blend Fines	543	28	31				
RTX Fines	470	20	-42				

August 06 2018	SPECIFICAT	TIONS APPLI	ED FOR 62%	BRAND ASS	SESSMENTS
	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	61.57%	2.41%	3.68%	0.100%	9.04%
Newman Fines	62.59%	2.34%	3.99%	0.100%	7.46%
MAC Fines	61.07%	2.13%	4.59%	0.090%	6.94%
Jimblebar Blended Fines	61.02%	2.87%	4.66%	0.090%	6.86%
Carajas Fines	65.61%	0.99%	1.87%	0.060%	8.50%
Brazilian SSF	62.00%	1.00%	6.50%	0.040%	6.00%
Brazilian Blend Fines	62.84%	1.39%	4.87%	0.070%	8.70%
RTX Fines	61.00%	3.10%	4.50%	0.135%	7.50%

AVERAGE IRON ORE BRAND SPECIFICATIONS FOR PORT STOCK SALES

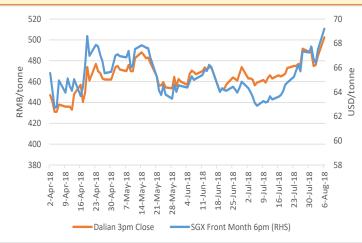
August 06 2018	PORT STOCK INDEX (RMB/WT)						
	Price Change Diff to IOPI58						
SSF	303	0	-46				
FMG Blended Fines	348	0	-1				
Robe River	336	0	-13				
Western Fines	306	0	-43				
Atlas Fines	288	0	-61				
Yandi	325	0	-24				



## TOTAL IRON ORE INVENTORIES AT CHINA PORTS



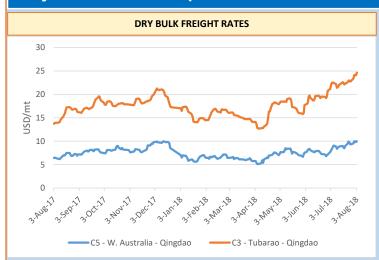
## FUTURE TRADING—FRONT MONTH CLOSING PRICE

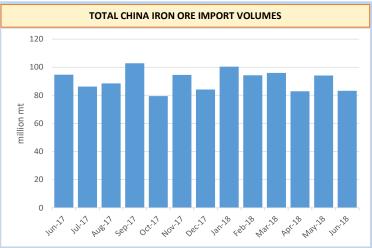


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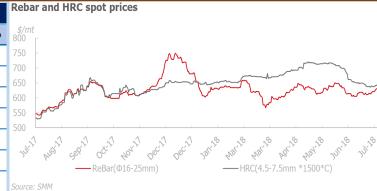
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### **Steel Spot Market Prices - China**

Steel Spot Market RMB/tonne			
Product	3/8/2018	Change	Change %
ReBar HRB400	4,287.0	70.0	1.66%
Wirerod Q300 ¢6.5mm	4,551.0	64.0	1.43%
HRC Q235/SS400 5.5mm*1500*C	4,296.0	13.0	0.30%
CRC SPCC/ST12 1.0mm*1250*2500	4,753.0	47.0	1.00%
Medium & Heavy Plate Q235B 20mm	4,393.0	60.0	1.38%
GI ST02Z 1.0mm*1000*C	5,345.0	45.0	0.85%
Billet Q235 150*150mm	3,850.0	60.0	1.58%



CHINESE STEEL EXPORT PRICES								
China Export Prices USD	/tonne							
Product	Specification	Export tax (+)/Vate rebate (-)		Change				
			3/8/2018					
Rebar	BS4449 460B 12-25mm, + chrome	-13%	570	0				
Wire Rod	SAE1008 6.5-10mm +chrome	-9%	575	0				
Hot-rolled coil	SS400/Q235 4.0-10.mm	-9%	575	-5				
Cold-rolled coil	SPCC 1.0mm	-13%	620	0				
Medium & Heavy plate	A-level Shipe plate 12-25mm	0%	610	0				
Galvanised	ST027/SGCC 1 0mm	-13%	690	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/(1f6-0.03); Calculation formula for converting export prices of wire rod and hot-rolled steel into prices in hina's spot market = FOB\* exchange rate \*1fb/(1f6-0.09); Calculation formula for converting export prices of medium-thick plate into prices in China's spot market = FOB\* exchange rate

**CHINESE STEEL INVENTORIES** 

### **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	62.54	-2.42	MMi index for 22nd June						
Coke	1,970	0	2nd grade met coke, Tangshan, incl. tax						
Steel Scrap	2,190	120	steel scrap (6mm) in Zhangjiagang, exl. tax						
Billet Cost	2,715	-9	Q234, incl. tax						
Rebar cost - Blast furnace	2,979	-9	calculated based on theoretical w eight, incl. tax						
Rebar profit - Blast furnace	1,131	109	based on Shanghai prices, incl. tax						
Hot-rolled coil cost - Blast furnace	3,042	-9	based on actual w eight, incl. tax						
Hot-rolled coil proft - Blast furnace	1,248	9	based on Shanghai prices, incl. tax						
Note: 1 Costs in the table are calculated based on todays market prices and faccult our management, calculated based on todays market prices and faccult our management, calculated based on todays market prices and faccult our management, calculated by									

Note: 1. Costs in the table are caluclated based on todays market prices and facout our management, sales, financial and depreciations fees.

 $2. The cost \, refers \, to \, average \, cost \, in \, the \, industry \, based \, on \, SMM \, 's \, survey \, of \, small, \, medium \, and \, large \, mills \, in \, China \, in \, China \, (a) \, and \, (b) \, and \, (c) \, and \, ($ 

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Steel Inventories<sup>3</sup> (unit: 1000 tonnes) **Product** 3/8/2018 27/7/2018 Change Change % Rebar 4,593 4,550 0.95% Wirerod 1,195 1,179 16 1.36% Hot-rolled Coil 2,174 2,145 29 1.35% Medium & Thick Plate 948 954 -6 -0.63% Cold-rolled Coil 1,173 1,180 -7 -0.59% Total 10,084 10,008 76 0.76%

<sup>&</sup>lt;sup>3</sup> 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.



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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 vo					
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:					
Sizing	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 calculation today as they were anomalous and could not be verified					
Timing (Seaborne)	Loading within 4 weeks, Delivery 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%	16.00	0.00	Bayuquan	-10.00	0.00			
	High Grade Fe 63 - 64%	70.00	0.00	Beilun	5.00	0.00			
	High Grade Fe 64 - 65%	80.00	0.00	Caofeidian	-10.00	0.00			
	High Grade Fe 65 - 65.5%	80.00	0.00	Dalian	0.00	0.00			
	Low Grade Fe	12.00	0.00	Fangcheng	0.00	0.00			
1% Alumina	High Fe Grade Al <2.25%	31.00	0.00	Jiangyin	-30.00	0.00			
	High Fe Grade Al 2.25-4%	25.00	10.00	Jingtang	-10.00	0.00			
	Low Fe Grade	10.00	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%	6.00	0.00	Lianyungang	0.00	0.00			
	High Fe Grade Si <6.5 - 9%	14.00	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>8.00</td><td>0.00</td><td>Rizhao</td><td>0.00</td><td>0.00</td></p<0.15%<>	8.00	0.00	Rizhao	0.00	0.00			
	Low Fe Grade0.08 < P < 0.15%	4.00	0.00	Tianjin	-25.00	0.00			

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