

## September 05, 2018

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

Septembe	ptember 5 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	YTD²	Low <sup>2</sup>	High <sup>2</sup>	Price	Change	Change %	MTD	YTD <sup>2</sup>	Low <sup>2</sup>	High <sup>2</sup>
IOPI62	62% Fe Fines	496	3	0.6%	495	483	443	559	64.24	0.34	0.5%	64.10	65.34	61.36	77.89
IOPI58	58% Fe Fines	380	-1	-0.3%	381	339	304	376	48.32	-0.19	-0.4%	48.45	44.49	40.67	50.97
IOPI65	65% Fe Fines	729	3	0.4%	730	620	541	710	96.22	0.29	0.3%	96.36	84.85	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) <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	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 Au	gust 31, 20	18		This week	Change %	Low <sup>4</sup>	High ⁴	<sup>1</sup> Exchange rate applie	d: RMB/USD = 6.8266	<sup>2</sup> Since March 1	
China Mines Concentrate Composite Index RMB/WT			WT	614.66	4.2%	534.50	628.33	3 Weekly exchange rat	e applied: RMB/USD 6.81	98 <sup>4</sup> Last 12 months	

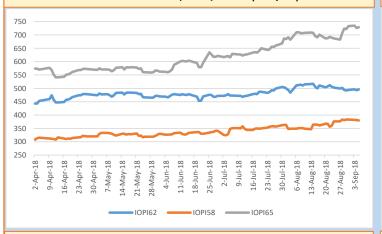
#### MARKET COMMENTARY

Traders raised physical iron ore port stock offers and caused a stand-off with mills unwilling to accept higher prices. Inventories of PB Fines at Tangshan ports rose 20% week-on-week but traders remained bullish as Tangshan resumed production. Sinter capacity is gaining pace to match blast furnace production capacity, which may support iron ore prices.

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

COREX trades BRBF, Fe 62% 170, 000 Wet tonnes, US\$72.10/dry tonnes, 13—22 Oct LAYCAN

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



## IRON ORE FUTURES CONTRACTS

		DCE		SGX			
Closing Date	0:	5 Sept 3pm cl	ose	05 Sept 6pm			
Contract	11901	Change	Change %	Sep'18	Change	Change %	
Closing Price	487.0	-2.0	-0.41%	66.84	0.67	1.01%	
Vol traded ('000 lots)	83.83	16.7	24.95%	3.11	-1.01	-24.61%	
Open positions ('000 lots)	67.31	0.0	0.00%	101.82	0.86	0.85%	
Day Low	484.0	2.0	0.41%	66.00	-0.09	-0.14%	
Day High	488.5	-0.5	-0.10%	66.84	0.24	0.36%	

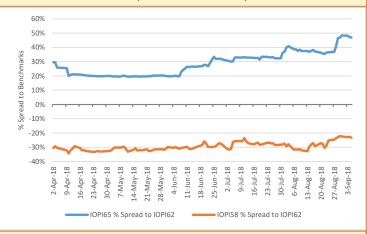
## FREIGHT RATES

September 04, 2018			FREIGHT	RATES - DRY BUL	K US\$/wet tonn	e
Route	Designation		Change	Change %	Low <sup>4</sup>	High ⁴
W. Australia - Qingdao	C5	8.53	-0.22	-2.49%	5.109	10.002
Tubarao - Qingdao	C3	21.29	-0.54	-2.50%	12.705	24.76

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

September 5 2018	PORT STOCK INDEX (RMB/WT)				
Fe Content	Spread to IOPI62	% Spread to IOPI62			
58% Fe Fines	-116	-23.39%			
65% Fe Fines	233	46.98%			

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



## IRON ORE PORT INVENTORIES

Week Ending August 31, 2018 (million tonnes)									
Province This week Change % Low <sup>4</sup> High <sup>4</sup>									
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						

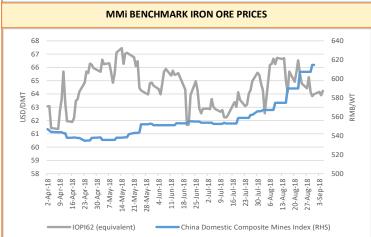
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# CHINA DOMESTIC COMPOSITE MINES INDEX (RMB/Wet Tonne, including VAT) 640 600 580 RMB/WT 560 540

IRON OR	FRRAND	SDOT DRICE	ASSESMENTS

September 5 2018	PORT STOCK INDEX (RMB/WT)					
	Price	Change	Diff to IOPI62			
Newman Fines	479	3	-17			
SIMEC Fines	452	3	-44			
PB Fines	486	4	-10			
Newman Fines	491	3	-5			
MAC Fines	477	1	-19			
Jimblebar Blended Fines	449	3	-47			
Carajas Fines	721	3	225			
Brazilian SSF	558	3	62			
Brazilian Blend Fines	547	-4	51			
RTX Fines	458	3	-38			

-			
1	3	225	Caraja
8	3	62	Brazili
7	-4	51	Brazili
8	3	-38	RTX Fir
PORT S	TOCK INDEX (R	MB/WT)	Septer
ce	Change	Diff to IOPI58	
ce 0	Change -1	Diff to IOPI58	SSF
			SSF FMG E
0	-1	-70	
0	-1 -2	-70 -8	FMG E

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AVERAGE IRON (	JKE BKAND SPEC	LIFICATIONS FOR	PORT STOCK SALES

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	61.64%	2.37%	3.59%	0.100%	9.16%
Newman Fines	62.16%	2.60%	4.30%	0.090%	7.52%
MAC Fines	61.07%	2.32%	4.61%	0.090%	7.58%
Jimblebar Blended Fines	61.42%	2.87%	4.50%	0.110%	6.99%
Carajas Fines	64.90%	1.35%	1.78%	0.080%	8.18%
Brazilian SSF	62.00%	1.00%	6.50%	0.040%	6.00%
Brazilian Blend Fines	62.95%	1.40%	4.90%	0.060%	8.84%
RTX Fines	61.00%	3.10%	4.50%	0.135%	7.50%
September 5 2018	SPECIFICAT	TIONS APPLI	ED FOR 58%	BRAND ASS	SESSMENTS
	Fe	Alumina	Silica	Phos	Moisture
SSF	56.51%	3.06%	6.27%	0.050%	9.17%
FMG Blended Fines	58.39%	2.72%	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%



Price

310

372

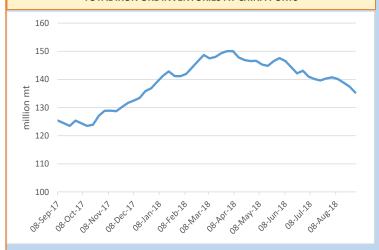
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320

310

-1

-9



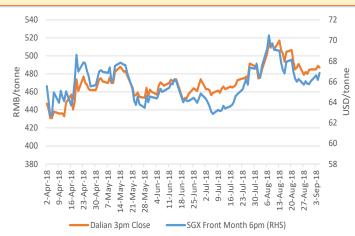
## 1.40% FUTURE TRADING—FRONT MONTH CLOSING PRICE

57.19%

6.39%

0.040%

8.85%



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FMG Blended Fines

Robe River Western Fines

Atlas Fines

Yandi

SSF

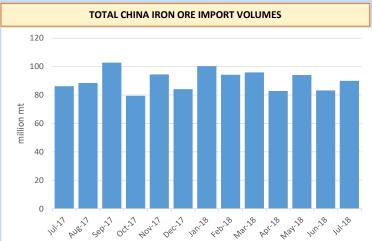
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## **Steel Spot Market Prices - China**

Steel Spot Market RMB/tonne			
Product	31/8/2018	Change	Change %
ReBar HRB400 ¢18mm	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((15-0.05); Calculation formula for converting export prices of wire rod and hot-rolled steel into prices in hina's spot market = FOB\* exchange rate \*1fb((15-0.09); Calculation formula for converting export prices of medium-thick plate into prices in China's spot market = FOB\* exchange rate

#### Steel Inventories<sup>3</sup> (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** 

<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 31major 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	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 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

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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: www.mmiprices.com		
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 Loading within 4 weeks, Delivery within 8 weeks L/C at sight			* Number of price submissions for iron ore indices that were excluded from index calculatio today as they were anomalous and could not be verified		
Timing (Seaborne)			within 8 weeks	today as they were anomalous and could not be verified		
Payment Terms						

#### 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						
			Differentials to Qingdao Port (RMB/wet tonne)			
	适用范围		变化	Port	Value	Change
	High Grade Fe 60 - 63%	15.00	0.00	Bayuquan	-35.00	0.00
每1% 铁调	High Grade Fe 63 - 64%	71.00	0.00	Beilun	5.00	0.00
	High Grade Fe 64 - 65%	71.00	0.00	Caofeidian	-25.00	0.00
	High Grade Fe 65 - 65.5%	71.00	0.00	Dalian	-20.00	0.00
	Low Grade Fe	18.00	0.00	Fangcheng	-5.00	0.00
每1% 铝调	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	30.00	0.00	Lanshan	0.00	0.00
	High Fe Grade Si <4%	10.00	0.00	Lanqiao	0.00	0.00
每1% 硅调	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	23.00	0.00	Nantong	-30.00	0.00
每0.01% 磷调	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%	4.00	0.00	Tianjin	-30.00	0.00

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