

## September 06, 2018

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

Septembe	er 6 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 <sup>2</sup>	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	497	1	0.2%	496	483	443	559	64.42	0.18	0.3%	64.18	65.34	61.36	77.89
IOPI58	58% Fe Fines	381	1	0.3%	381	339	304	383	48.49	0.17	0.4%	48.46	44.52	40.67	50.97
IOPI65	65% Fe Fines	727	-2	-0.3%	729	621	541	735	96.01	-0.21	-0.2%	96.27	84.93	75.83	97.10

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

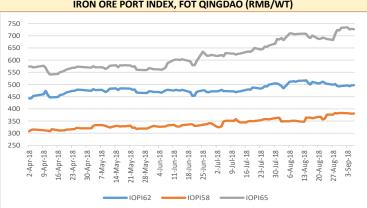
Week Ending August 31, 2018				RMB/tonne (excluding tax)				USD/tonne (excluding tax) <sup>3</sup>			
Province	Region	Product	Basis	This week	Change %	Low <sup>2</sup>	High <sup>2</sup>	This week	Change %	Low <sup>2</sup>	High <sup>2</sup>
Hebei	Hanxing	66% Fe Concentrate	Dry	637	-1.4%	579	682	93.40	-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 August 31, 2018				This week	Change %	Low ⁴	High ⁴	<sup>1</sup> Exchange rate applied: RMB/USD = 6.8217 <sup>2</sup> 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 6.81	98 <sup>4</sup> Last 12 months		

#### MARKET COMMENTARY

Iron ore port stock quotes rose 5-10yuan/mt with PB Fines trading around 495 yuan/mt. High grade products continued to be in high demand, as mills are unlikely to change their furnace blends. Today, SMM followed developments that the Tangshan government will investigate if some mills that were asked to cut production, have restarted their furnaces.

#### PLATFORM TRADES AND TENDERS





IRON ORE HIGH/LOW GRADE PREMIUM/DISCOUNT									
September 6 2018	PORT STOCK INDEX (RMB/WT)								
Fe Content	Spread to IOPI62	% Spread to IOPI62							
58% Fe Fines	-116	-23.34%							
65% Fe Fines	230	46.28%							

# ## 17-In-13 | 19-In-13 | 19-In-13

#### IRON ORE PORT STOCK INDEX MONTHLY, QUARTERLY AND YEAR-TO-DATE AVERAGES

Septembe	r 6 2018		FOT C	(ingdao (in	c. 16% VAT),	RMB/wet 1	tonne		CFR Qingdao Equivalent (exc. 16% VAT), USD/dry tonne 1						
Index	Fe Content	May	June	July	August	MTD	QTD	YTD <sup>2</sup>	May	June	July	August	MTD	QTD	YTD²
IOPI62	62% Fe Fines	476	471	482	505	496	494	483	65.87	64.29	63.41	65.25	64.18	64.34	65.34
IOPI58	58% Fe Fines	326	332	349	363	381	358	339	43.75	44.14	44.86	45.84	48.46	45.61	44.52
IOPI65	65% Fe Fines	571	594	638	701	729	675	621	79.76	82.19	85.29	92.13	96.27	89.4	84.93

		DCE		SGX			
Closing Date	06	Sept 3pm cl	ose	06 Sept 6pm			
Contract	11901	I1901 Change		Sep'18	Change	Change %	
Closing Price	502.5	15.5	3.18%	68.45	1.61	2.41%	
Vol traded ('000 lots)	158.44	74.6	88.99%	13.49	10.38	334.22%	
Open positions ('000 lots)	79.62	12.3	18.30%	102.18	0.36	0.36%	
Day Low	493.5	9.5	1.96%	67.64	1.64	2.48%	

**IRON ORE FUTURES CONTRACTS** 

	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							

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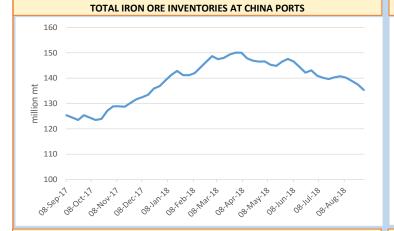


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China Domestic Composite Mines index (Rhs)								
IRON ORE BE	RAND SPOT PRICE	E ASSESMENTS						
September 6 2018	PORT	STOCK INDEX (R	MB/WT)					
	Price	Change	Diff to IOPI62					
Newman Fines	483	4	-14					
SIMEC Fines	459	7	-38					
PB Fines	488	2	-9					
Newman Fines	492	1	-5					
MAC Fines	480	3	-17					
Jimblebar Blended Fines	452	3	-45					
Carajas Fines	719	-2	222					
Brazilian SSF	559	1	62					
Brazilian Blend Fines	546	-1	49					
RTX Fines	462	4	-35					

September 6 2018	PORT	PORT STOCK INDEX (RMB/WT)						
	Price	Change	Diff to IOPI58					
SSF	311	1	-70					
FMG Blended Fines	373	1	-8					
Robe River	343	1	-38					
Western Fines	321	1	-60					
Atlas Fines	311	1	-70					
Yandi	372	1	-9					

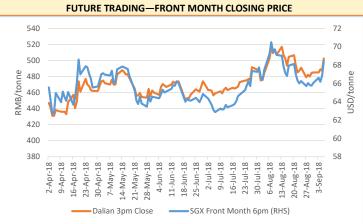


FREIGHT RATES										
September 05, 2018		FREIGHT RATES - DRY BULK US\$/wet tonne								
Route	Designation		Change	Change %	Low <sup>4</sup>	High ⁴				
W. Australia - Qingdao	C5	8.24	-0.29	-3.41%	5.109	10.002				
Tubarao - Qingdao	C3	20.94	-0.35	-1.64%	12.705	24.76				

CHINA DOMESTIC COMPOSITE MINES INDEX (RMB/Wet Tonne, including VAT)
640 ————————————————————————————————————
620
600
§ 580
880 W 560
540
520 ————
500
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China Domestic Composite Mines Index

AVERAGE IRON OF	AVERAGE IRON ORE BRAND SPECIFICATIONS FOR PORT STOCK SALES										
September 6 2018	SPECIFICA	TIONS APPLI	ED FOR 62%	BRAND ASS	ESSMENTS						
	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	61.66%	2.36%	3.58%	0.100%	9.17%						
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 6 2018	SPECIFICATIONS APPLIED FOR 58% BRAND ASSESSMENTS							
	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%			
Yandi	57.19%	1.40%	6.39%	0.040%	8.85%			

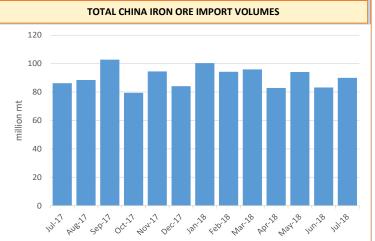


BLOOMBERG								
	BLOOMBERG TICKERS							
	FOT Qingdao (RMB/wet tonne) CFR Qingdao Equivalent (USD/dry tonne)							
IOPI62	IRCNQ001	IRCNQ004						
IOPI58 IRCNQ002 IRCNQ005								
IOPI65	IOPI65 IRCNQ003 IRCNQ006							



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

Steel Spot Market RMB/tonne			
Product	31/8/2018	Change	Change %
ReBar HRB400 ø18mm	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\*1.6/(1.6-0.0); Calculation formula for converting export prices of wire rod and hot-rolled steel into prices in hina's spot market = FOB\* exchange rate \*1.6/(1.6-0.09); 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	12	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%				
Total	10,107	10,127	-20	-0.20%				

**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	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.						

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

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<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 31major cities.



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#### IRON ORE INDEX SPECIFICATIONS, COMPILATION RATIONALE AND DATA EXCLUSIONS

			<u> </u>	
	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
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		<b>.</b>	Data Exclusions* Port Index: 0
Pricing Point	Qingdao Port  Loading within 4 weeks, Delivery within 8 weeks			* 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)			within 8 weeks	coday as they were anomalous and codid 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
	High Grade Fe 60 - 63%	12.00	-3.00	Bayuquan	-35.00	0.00
	High Grade Fe 63 - 64%	71.00	0.00	Beilun	5.00	0.00
1% Fe	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
	High Fe Grade Al <2.25%	60.00	0.00	Jiangyin	-30.00	0.00
1% Alumina	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
1% Silica	High Fe Grade Si <4 - 6.5%	10.00	0.00	Lianyungang	0.00	0.00
1% SIIICa	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
0.01%	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
Phosphorus	Low Fe Grade0.08 < P < 0.15%	4.00	0.00	Tianjin	-30.00	0.00

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