

# **September 14, 2018**

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

Septembe	er 14 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	YTD²	Low <sup>2</sup>	High <sup>2</sup>
IOPI62	62% Fe Fines	515	3	0.6%	502	484	443	559	66.75	0.53	0.8%	65.34	65.34	61.36	77.89
IOPI58	58% Fe Fines	376	2	0.5%	380	341	304	385	47.70	0.36	0.8%	44.68	44.68	40.67	50.97
IOPI65	65% Fe Fines	733	3	0.4%	727	625	541	735	96.63	0.58	0.6%	95.77	85.38	75.83	97.10

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

Week Ending September 7, 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	630	-1.1%	579	682	92.31	-1.2%	84.84	99.93
Hebei	Qian'an	65% Fe Concentrate	Dry	775	0.0%	630	775	113.56	-0.1%	92.31	113.56
Liaoning	Anshan	65% Fe Concentrate	Wet	515	4.0%	445	550	75.46	4.0%	65.21	80.59
Shandong	Zibo	65% Fe Concentrate	Dry	725	0.0%	620	725	106.23	-0.1%	90.85	106.23
Week Ending September 7, 2018				This week	Change %	Low <sup>4</sup>	High ⁴	<sup>1</sup> Exchange rate applied: RMB/USD = 6.8362 <sup>2</sup> Since N		<sup>2</sup> Since March 1	
China Mines Concentrate Composite Index RMB/WT			622.74	1.3%	534.50	628.33	<sup>3</sup> Weekly exchange rat	e applied: RMB/USD 6.8245	<sup>4</sup> Last 12 months		

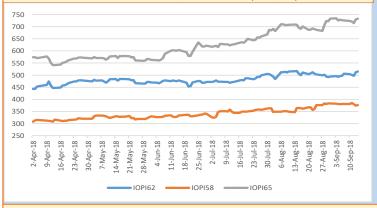
## MARKET COMMENTARY

Iron ore stocks across 35 Chinese ports decreased 750,000 mt over the week ended September 14 to 136.07 million mt with fewer arrivals at major ports, SMM data showed. Meanwhile, daily average deliveries departing those ports gained 24,000 mt to 2.628 million mt as some steelmakers in north-east and north China began to stockpile for the upcoming winter. Daily average volumes leaving Tianjin and Dandong ports grew this week. Daily average deliveries departing ports in Shandong province held steady while daily average deliveries departing Jingtang and Caofeidian ports in Tangshan dropped some 40,000 mt. Caofeidian saw some environmental probes and part of Jingtang port closed briefly.

#### PLATFORM TRADES AND TENDERS

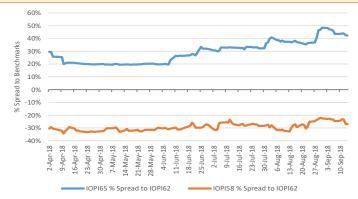
COREX trades Mac Fines at index—US\$4.45/t for 190,000t 16—25 Oct LAYCAN 62% Fines trades at Oct index +US\$0.25 for 190,000t for 5—14 Oct LAYCAN

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



l	INON ORE HIGH/LOW GRADE PREMION/DISCOUNT						
	September 14 2018	PORT STOCK INDEX (RMB/WT)					
	Fe Content	Spread to IOPI62	% Spread to IOPI62				
	58% Fe Fines	-139	-26.99%				
	65% Fe Fines	218	42.33%				

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



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

Septembe	r 14 2018		FOT Qingdao (inc. 16% VAT), RMB/wet tonne					CFR Qingdao Equivalent (exc. 16% VAT), USD/dry tonne <sup>1</sup>					1		
Index	Fe Content	May	June	July	August	MTD	QTD	YTD <sup>2</sup>	May	June	July	August	MTD	QTD	YTD <sup>2</sup>
IOPI62	62% Fe Fines	476	471	482	505	502	495	484	65.87	64.29	63.41	65.25	65.34	64.46	65.34
IOPI58	58% Fe Fines	326	332	349	363	380	360	341	43.75	44.14	44.86	45.84	44.68	45.89	44.68
IOPI65	65% Fe Fines	571	594	638	701	727	680	625	79.76	82.19	85.29	92.13	95.77	90.06	85.38

IRON ORE FUTURES CONTRACTS	IRON	ORE FUTU	JRES CONTRACTS
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	DCE			SGX			
Closing Date	14	l Sept 3pm cl	ose	14 Sept 6pm			
Contract	11901	Change	Change %	Sep'18	Change	Change %	
Closing Price	501.5	-2.0	-0.40%	68.77	0.17	0.25%	
Vol traded ('000 lots)	102.61	-28.4	-21.70%	1.48	-0.25	-14.61%	
Open positions ('000 lots)	77.37	3.3	4.51%	116.71	0.53	0.46%	
Day Low	499.0	4.0	0.81%	68.29	0.09	0.13%	
Day High	505.0	0.0	0.00%	68.77	0.17	0.25%	

#### IRON ORE PORT INVENTORIES

Week Ending September 14, 2018 (million tonnes)							
Province	This week	Change %	Low <sup>4</sup>	High <sup>4</sup>			
Jingtang	16.08	-0.14%	14.11	19.00			
Qingdao	18.50	0.00%	15.60	19.97			
Caofeidian	18.00	2.86%	16.62	25.30			
Tianjin	9.60	1.05%	8.60	11.00			
Rizhao	16.70	-1.76%	13.10	19.00			
Total (35 Ports)	136.07	-0.55%	123 //9	150.04			

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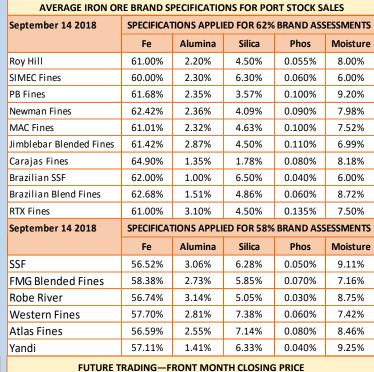


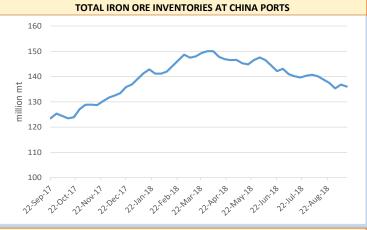
# **September 14, 2018**



I	CHINA DOMESTIC COMPOSITE MINES INDEX (RMB/Wet Tonne, including VAT)
	640
	620
	600
	\$ 580
	580 E 560
	540
	520 ————————————————————————————————————
	500
	Seed of Fronty Franky Franky Franky Franky Franky Franky Franky Franky
	China Domestic Composite Mines Index

IRON ORE BRAND SPOT PRICE ASSESMENTS							
PORT STOCK INDEX (RMB/WT)							
Price	Change	Diff to IOPI62					
501	3	-14					
474	2	-41					
506	3	-9					
516	3	1					
498	3	-17					
471	3	-44					
725	3	210					
566	3	51					
548	3	33					
482	3	-33					
PORT STOCK INDEX (RMB/WT)							
Price	Change	Diff to IOPI58					
305	-6	-71					
370	1	-6					
333	-6	-43					
321	-2	-55					
306	-4	-70					
365	4	-11					
	PORT:  Price  501  474  506  516  498  471  725  566  548  482  PORT  Price  305  370  333  321  306	PORT STOCK INDEX (R Price Change 501 3 474 2 506 3 516 3 498 3 471 3 725 3 566 3 548 3 482 3 PORT STOCK INDEX (R Price Change 305 -6 370 1 333 -6 321 -2 306 -4					





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540	<b>72</b>
520	70
500	68
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480 460 WW 440	90 64 NSD/tonne
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420 ————————————————————————————————————	62
400 —	60
2-Apr-18 9-Apr-18 16-Apr-18 23-Apr-18 30-Apr-18 7-May-18 21-May-18 21-May-18 21-May-18 21-May-18 21-May-18 21-May-18 21-May-18 21-May-18 21-May-18 21-May-18 21-May-18 23-Un-18 30-Un-18 6-Aug-18 13-Aug-18 13-Aug-18 20-Aug-18 13-Aug-18 13-Aug-18	- 58 -
——Dalian 3pm Close ——SGX Front Month 6pm (RHS)	

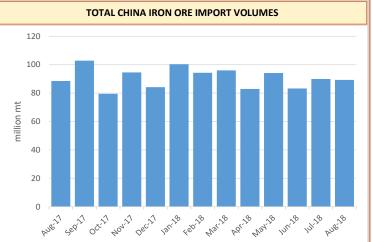
FREIGHT RATES						
September 13, 2018 FREIGHT RATES - DRY BULK US\$/wet tonne					e	
Route	Designation		Change	Change %	Low 4	High ⁴
W. Australia - Qingdao	C5	7.50	0.01	0.12%	5.109	10.002
Tubarao - Qingdao	C3	20.34	-0.18	-0.87%	12.705	24.76

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



# September 14, 2018





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

Steel Spot Market RMB/tonne			
Product	7/9/2018	Change	Change %
ReBar HRB400 ф18mm	4,550.0	92	2.06%
Wirerod Q300 ¢6.5mm	4,765.0	70	1.49%
HRC Q235/SS400 5.5mm*1500*C	4,375.0	37	0.85%
CRC SPCC/ST12 1.0mm*1250*2500	4,926.0	33	0.67%
Medium & Heavy Plate Q235B 20mm	4,503.0	3	0.07%
GI ST02Z 1.0mm*1000*C	5,325.0	-25	-0.47%
Billet Q235 150*150mm	4,060.0	80	2.01%



CHINESE STEEL EXPORT PRICES						
China Export Prices USD	tonne					
Product	Specification	Export tax (+)/Vate rebate (-)		Change		
			7/9/2018			
Rebar	BS4449 460B 12-25mm, + chrome	-13%	580	15		
Wire Rod	SAE1008 6.5-10mm +chrome	-9%	580	0		
Hot-rolled coil	SS400/Q235 4.0-10.mm	-9%	580	5		
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\*1.16/(1.16-0.13); Calculation formula for converting export prices of wire rod and hot-rolled steel into prices in hina's spot market = FOB \* exchange rate \*1.16/(1.16-0.09); Calculation formula for converting export prices of medium-prices of mthick plate into prices in China's spot market = FOB\* exchange rate

#### Steel Inventories<sup>3</sup> (unit: 1000 tonnes) 7/9/2018 31/8/2018 Change Change % 4,399 4,474 -1.68% 1,373 1,315 58 4.41% 7

Rebar Wirerod Hot-rolled Coil 2,190 2,183 0.32% Medium & Thick Plate 992 958 3.55% 34 Cold-rolled Coil 1,189 1,177 12 1.02% Total 10.144 10,107 0.37% 37

**CHINESE STEEL INVENTORIES** 

## **CHINESE STEEL MILL PROFITABILITY**

**Product** 

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	65.66	1.68	MMi index for 22nd June			
Coke	2,610	100	2nd grade met coke, Tangshan, incl. tax			
Steel Scrap	2,320	0	steel scrap (6mm) in Zhangjiagang, exl. tax			
Billet Cost	3,097	76	Q234, incl. tax			
Rebar cost - Blast furnace	3,376	83	calculated based on theoretical weight, incl. tax			
Rebar profit - Blast furnace	1,041	34	based on Shanghai prices, incl. tax			
Hot-rolled coil cost - Blast furnace	3,422	77	based on actual w eight, incl. tax			
Hot-rolled coil proft - Blast furnace	988	3	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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<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.



## **September 14, 2018**

#### 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: www.mmiprices.com				
Sizing	ing 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  2) 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 calculation 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						
	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%	10.00	0.00	Bayuquan	-40.00	-5.00
	High Grade Fe 63 - 64%	71.00	0.00	Beilun	5.00	0.00
	High Grade Fe 64 - 65%	71.00	0.00	Caofeidian	-20.00	0.00
	High Grade Fe 65 - 65.5%	71.00	0.00	Dalian	-20.00	0.00
	Low Grade Fe	21.00	3.00	Fangcheng	-5.00	0.00
1% Alumina	High Fe Grade Al <2.25%	57.00	0.00	Jiangyin	-30.00	0.00
	High Fe Grade Al 2.25-4%	17.00	0.00	Jingtang	-20.00	0.00
	Low Fe Grade	30.00	5.00	Lanshan	0.00	0.00
1% Silica	High Fe Grade Si <4%	7.00	0.00	Lanqiao	0.00	0.00
	High Fe Grade Si <4 - 6.5%	13.00	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	20.00	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%	4.00	0.00	Tianjin	-25.00	-5.00

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