

# **September 17, 2018**

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

Septembe	er 17 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	504	-11	-2.1%	502	484	443	559	65.13	-1.62	-2.4%	64.96	65.34	61.36	77.89
IOPI58	58% Fe Fines	385	9	2.4%	381	341	304	385	48.83	1.13	2.4%	48.32	44.72	40.67	50.97
IOPI65	65% Fe Fines	722	-11	-1.5%	726	626	541	735	94.92	-1.71	-1.8%	95.70	85.44	75.83	97.10

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

Week Ending September 14, 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	640	1.6%	579	682	93.49	1.3%	84.58	99.63
Hebei	Qian'an	65% Fe Concentrate	Dry	775	0.0%	630	775	113.21	-0.3%	92.03	113.21
Liaoning	Anshan	65% Fe Concentrate	Wet	545	5.8%	445	550	79.61	5.5%	65.01	80.34
Shandong	Zibo	65% Fe Concentrate	Dry	735	1.4%	620	735	107.37	1.1%	90.57	107.37
Week Ending September 14, 2018				This week	Change %	Low <sup>4</sup>	High <sup>4</sup>	<sup>1</sup> Exchange rate applied: RMB/USD = 6.8509 <sup>2</sup> Since March 1			
China Mines Concentrate Composite Index RMB/WT			633.00	1.6%	534.50	633.00	<sup>3</sup> Weekly exchange rate applied: RMB/USD 6.8455 <sup>4</sup> Last 12 months				

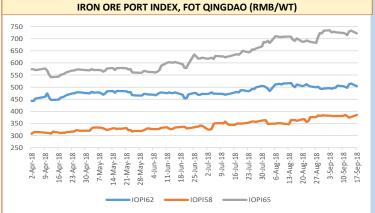
#### MARKET COMMENTARY

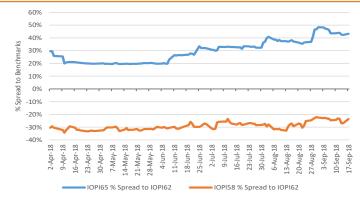
Sixty-seven vessels carrying 9.86 million mt of iron ore are expected to arrive at major Chinese ports during September 14-20, up 370,000 mt from 9.49 million mt during September 7-13 as overseas ports recover from maintenance, SMM data showed. For the same period, volumes of iron ore departing Australian ports are likely to increase by 220,000 mt to stand at 16.01 million mt; those leaving Brazilian ports are likely to grow 280,000 mt to 7.29 million mt. Physical mid-grade iron ore port stock quotes eased in a weak market. Traders sought material actively, believing that mills will restock prior to the National Day holiday. According to SMM research, most mills have insufficient inventory. This is likely to support iron ore prices.

#### PLATFORM TRADES AND TENDERS

62% Fines trades at Oct index +US\$0.20 for 210,000t for 7-16 Oct LAYCAN

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

Septembe	r 17 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	YTD²	May	June	July	August	MTD	QTD	YTD²
IOPI62	62% Fe Fines	476	471	482	505	502	495	484	65.87	64.29	63.41	65.25	64.96	64.47	65.34
IOPI58	58% Fe Fines	326	332	349	363	381	361	341	43.75	44.14	44.86	45.84	48.32	45.94	44.72
IOPI65	65% Fe Fines	571	594	638	701	726	681	626	79.76	82.19	85.29	92.13	95.70	90.14	85.44

IRON ORE FUTURES CONTRACTS								
		DCE		SGX				
Closing Date	17 Sept 3pm close				17 Sept 6pm			
Contract	11901	Change	Change %	Oct'18	Change	Change %		
Closing Price	500.0	-1.5	-0.30%	68.78	0.08	0.12%		
Vol traded ('000 lots)	126.90	24.3	23.67%	6.95	-2.88	-29.33%		
Open positions ('000 lots)	71.15	-6.2	-8.04%	129.77	3.68	2.92%		
Day Low	498.0	-1.0	-0.20%	68.31	0.11	0.16%		
Day High	503.0	-2.0	-0.40%	68.78	0.00	0.00%		

	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%	123.49	150.04					

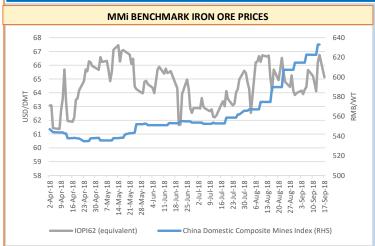
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CHINA DOMESTIC COMPOSITE MINES INDEX (RMB/Wet Tonne, including VAT)
640
620
600
580 - 560 -
₩ 560 <b></b>
540
520 —
500
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China Domestic Composite Mines Index

AVERAGE IRON ORE BRAND SPECIFICATIONS FOR PORT STOCK SALES

Alumina

September 17 2018

**SPECIFICATIONS APPLIED FOR 62% BRAND ASSESSMENTS** 

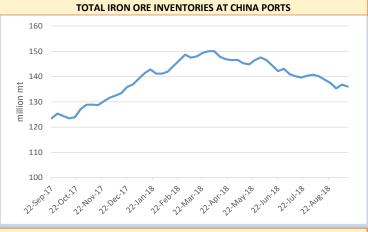
Silica

**Phos** 

Moisture

IRON ORE BRAND SPOT PRICE ASSESMENTS								
September 17 2018	PORT	STOCK INDEX (R	MB/WT)					
	Price	Change	Diff to IOPI62					
Newman Fines	490	-11	-14					
SIMEC Fines	463	-11	-41					
PB Fines	495	-11	-9					
Newman Fines	505	-11	1					
MAC Fines	488	-10	-16					
Jimblebar Blended Fines	459	-12	-45					
Carajas Fines	714	-11	210					
Brazilian SSF	555	-11	51					
Brazilian Blend Fines	538	-10	34					
RTX Fines	471	-11	-33					
September 17 2018	PORT	STOCK INDEX (R	MB/WT)					
	Price	Change	Diff to IOPI58					
SSF	310	5	-75					
FMG Blended Fines	377	7	-8					
Robe River	337	4	-48					
Western Fines	327	6	-58					
Atlas Fines	314	8	-71					
Yandi	377	12	-8					





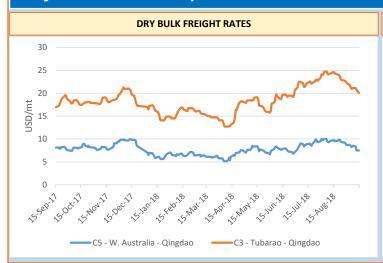
540	72
520	70
500	68
480 460 460 440 440 440 440 440 440 440 44	99 99 JSD/tonne
₹ 440	_
420 ————————————————————————————————————	62
400 —	60
2-Apr-18   9-Apr-18   9-Apr-18   16-Apr-18   23-Apr-18   30-Apr-18   14-May-18   4-Un-18   11-Un-18   25-Un-18   25-Un-18   25-Un-18   25-Un-18   30-Un-18   30-Un-18   25-Un-18   25-Un-18   25-Un-18   25-Un-18   30-Un-18   30-Un-18	58 57-dac-/T

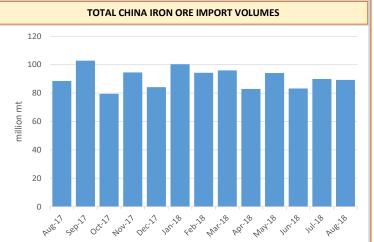
TREFERIT TO TES									
September 14, 2018 FREIGHT RATES - DRY BULK US\$/wet tonne									
Route	Designation		Change	Change %	Low <sup>4</sup>	High <sup>4</sup>			
W. Australia - Qingdao	C5	7.49	-0.01	-0.19%	5.109	10.002			
Tubarao - Qingdao	C3	20.08	-0.25	-1.25%	12.705	24.76			

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



# **September 17, 2018**





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

Steel Spot Market RMB/tonne			
Product	14/9/2018	Change	Change %
ReBar HRB400	4,542.0	-8	-0.18%
Wirerod Q300 ¢6.5mm	4,627.0	-138	-2.90%
HRC Q235/SS400 5.5mm*1500*C	4,331.0	-44	-1.01%
CRC SPCC/ST12 1.0mm*1250*2500	4,906.0	-20	-0.41%
Medium & Heavy Plate Q235B 20mm	4,490.0	-13	-0.29%
GI ST02Z 1.0mm*1000*C	5,295.0	-30	-0.56%
Billet Q235 150*150mm	4,020.0	-40	-0.99%



CHINESE STEEL EXPORT PRICES										
China Export Prices USD	China Export Prices USD/tonne									
Product	Specification	Export tax (+)/Vate rebate (-)		Change						
			14/9/2018							
Rebar	BS4449 460B 12-25mm, + chrome	-13%	580	0						
Wire Rod	SAE1008 6.5-10mm +chrome	-9%	580	0						
Hot-rolled coil	SS400/Q235 4.0-10.mm	-9%	580	0						
Cold-rolled coil	SPCC 1.0mm	-13%	615	0						
Medium & Heavy plate	A-level Shipe plate 12-25mm	0%	610	0						
Columnicad	ST027/SCCC 1.0mm	420/	COE	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/(16-0.03); Calculation formula for converting export prices of wire rod and hot-rolled steel into prices in hina's spot market = FOB\* exchange rate \*1fb/(16-0.09); 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) 14/9/2018 7/9/2018 **Product** Change Change % 4,405 Rebar 4,399 0.14% Wirerod 1.403 1,373 2.18% 30 Hot-rolled Coil 2,144 2,190 -46 -2.10% Medium & Thick Plate 1,005 992 13 1.31% Cold-rolled Coil 1,183 1,189 -0.50% 10,140 10,144 -0.04%

**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 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	64.94	-0.72	MMi index for 22nd June						
Coke	2,610	0	2nd grade met coke, Tangshan, incl. tax						
Steel Scrap	2,320	0	steel scrap (6mm) in Zhangjiagang, exl. tax						
Billet Cost	3,092	-5	Q234, incl. tax						
Rebar cost - Blast furnace	3,362	-14	calculated based on theoretical weight, incl. tax						
Rebar profit - Blast furnace	1,128	87	based on Shanghai prices, incl. tax						
Hot-rolled coil cost - Blast furnace	3,461	39	based on actual weight, incl. tax						
Hot-rolled coil proft - Blast furnace	914	-74	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			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%	10.00	0.00	Bayuquan	-40.00	0.00				
	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	0.00	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	35.00	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	0.00				

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