

September 04, 2018

	IRON ORE PORT STOCK INDEX (IOPI)														
September 4 2018 FOT Qingda					(inc. 16% VAT), RMB/wet to	RMB/wet tonne CFR Qingdao Equivalent (exc. 16% VAT), USD/dry tonne ¹					1			
Index	Fe Content	Price	Change	Change	e % MTD	YTD	Low ²	High ²	Price	Change	Change %	MTD	YTD	Low ²	High ²
IOPI62	62% Fe Fines	493	-3	- 0.6 %	6 495	483	443	559	63.90	-0.26	-0.4%	64.03	65.35	61.36	77.89
IOPI58	58% Fe Fines	381	-1	-0.3%	6 382	338	304	376	48.51	-0.02	0.0%	48.52	44.46	40.67	50.97
IOPI65	65% Fe Fines	726	-9	-1.29	6 731	619	541	710	95.93	-1.00	-1.0%	96.43	84.76	75.83	97.10
	IRON ORE DOMESTIC CONCENTRATE SPOT PRICE ASSESSMENTS AND COMPOSITE INDEX														
Week Endi	ng August 31, 2	018				RMB/tor	nne (exclu	iding tax)			USD/tonne (excluding tax) ³				
Province	Region	Product		Basis	This week	Change 9	%	Low ²	High ²	This	week	Change %	Low	2	High ²
Hebei	Hanxing	66% Fe C	oncentrate	Dry	637	-1.4%		579	682	9	3.40	-1.0%	84.9	0	100.00
Hebei	Qian'an	65% Fe C	oncentrate	Dry	775	1.3%		630	775	11	3.64	1.7%	92.3	8	113.64
Liaoning	Anshan	65% Fe C	oncentrate	Wet	495	0.0%		445	550	7	2.58	0.4%	65.2	5	80.65
Shandong	Zibo	65% Fe C	oncentrate	Dry	725	0.0%		620	725	10	6.31	0.4%	90.9	1	106.31
Week Endi	ng August 31, 2	018			This week	Change 9	%	Low ⁴	High ⁴	¹ Exchan	ge rate applied: RM	IB/USD = 6.8183	² Since M	March 1	
China Mine	es Concentrate	Composite	index RMB/	wт	614.66	4.2%		534.50	628.33	³ Weekly	exchange rate app	lied: RMB/USD 6.8	198 ⁴ Last 12	months	

MARKET COMMENTARY

Physical iron ore port stock quotes eased in early trades, though some recovered as the DCE contract moved higher in the afternoon. Mills purchased as needed while traders were relatively quiet. The number of concluded trades rose from yesterday.

Fe Content 58% Fe Fines

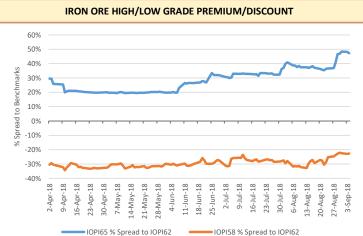
65% Fe Fines



IRON ORE FUTURES CONTRACTS

DCE SGX Closing Date 04 Sept 3pm close 04 Sept 6pm 11901 Sep'18 Contract Change Change % Change Change % 489.0 4.0 0.82% 66.17 Closing Price -0.43 -0.65% Vol traded ('000 lots) 67.09 -25.5 -27.57% 4.12 -0.36 -**8.12%** Open positions ('000 lots) 67.31 0.3 0.46% 100.97 -0.14 -0.14% Day Low 482.0 3.5 0.73% 66.09 0.60 0.92% Day High 489.0 4.0 0.82% 66.60 0.00 0.00%

	FREIGHT RATES											
Se	ptember 03, 2018			FREIGHT RATES - DRY BULK US\$/wet tonne								
Ro	oute	Designation		Change	Change %	Low ⁴	High ⁴					
w.	. Australia - Qingdao	C5	8.75	0.11	1.32%	5.109	10.002					
Tu	barao - Qingdao	C3	21.84	-0.30	-1.36%	12.705	24.76					



IRON ORE HIGH/LOW GRADE PREMIUM/DISCOUNT

Spread to IOPI62

-112

233

PORT STOCK INDEX (RMB/WT)

% Spread to IOPI62

-22.72%

47.26%

IRON ORE PORT INVENTORIES

Week Ending August 31, 2018 (million tonnes)										
Province	This week Change % Low ⁴									
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						
DI COMPERC										

BLOOMBERG

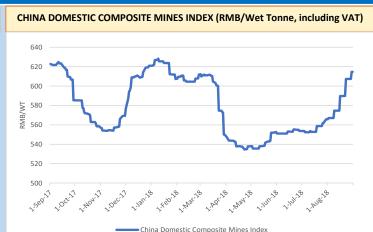
BLOOMBERG TICKERS								
	FOT Qingdao (RMB/wet tonne)	CFR Qingdao Equivalent (USD/dry tonne)						
IOPI62	IRCNQ001	IRCNQ004						
IOPI58	IRCNQ002	IRCNQ005						
IOPI65	IRCNQ003	IRCNQ006						

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IRON ORE BRAND SPOT PRICE ASSESMENTS



AVERAGE IRON ORE BRAND SPECIFICATIONS FOR PORT STOCK SALES

Alumina

2.20%

2.30%

2.37%

2.60%

2.25%

2.87%

1.35%

1.00%

1.40%

3.10%

Fe 61.00%

60.00%

61.64%

62.16%

61.28%

61.42%

64.90%

62.00%

63.06%

61.00%

SPECIFICATIONS APPLIED FOR 62% BRAND ASSESSMENTS

Silica

4.50%

6.30%

3.59%

4.30%

4.67%

4.50%

1.78%

6.50%

4.80%

4.50%

Phos

0.055%

0.060%

0.100%

0.090%

0.090%

0.110%

0.080%

0.040%

0.060%

0.135%

Moisture

8.00%

6.00%

9.14%

7.52%

7.81%

6.99%

8.18%

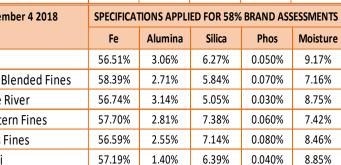
6.00%

8.68%

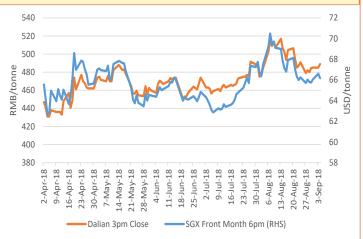
7.50%

September 4 2018	PORT	STOCK INDEX (R	MB/WT)	September 4 2018	T
	Price	Change	Diff to IOPI62		
Newman Fines	476	-3	-17	Roy Hill	Ι
SIMEC Fines	449	-3	-44	SIMEC Fines	
PB Fines	482	-4	-11	PB Fines	
Newman Fines	488	-10	-5	Newman Fines	
MAC Fines	476	-3	-17	MAC Fines	
Jimblebar Blended Fines	446	-3	-47	Jimblebar Blended Fines	
Carajas Fines	718	-23	225	Carajas Fines	
Brazilian SSF	555	-3	62	Brazilian SSF	
Brazilian Blend Fines	551	2	58	Brazilian Blend Fines	
RTX Fines	455	-3	-38	RTX Fines	
September 4 2018	PORT	STOCK INDEX (R	September 4 2018	T	
	Price	Change	Diff to IOPI58		
SSF	311	9	-70	SSF	T
FMG Blended Fines	374	1	-7	FMG Blended Fines	Ť
Robe River	343	6	-38	Robe River	T
Western Fines	321	8	-60	Western Fines	T
Atlas Fines	311	10	-70	Atlas Fines	Ι
Yandi	372	0	-9	Yandi	Τ
			·c	CUTUDE .	TO





FUTURE TRADING—FRONT MONTH CLOSING PRICE

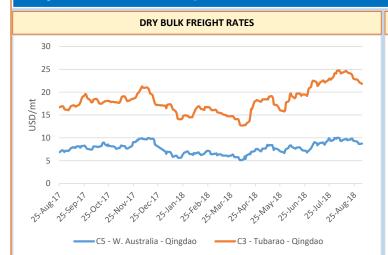


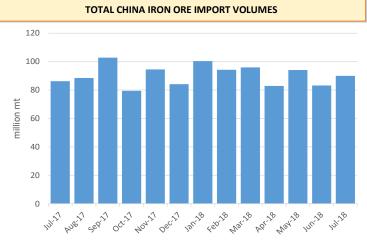
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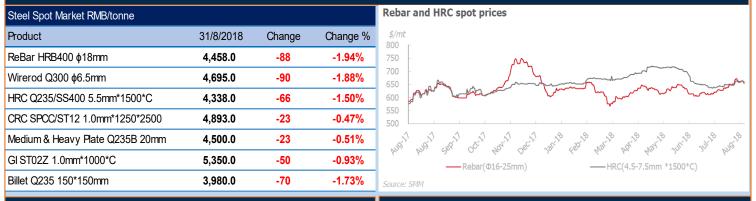


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Steel Spot Market Prices - China



	CHINESE STEEL EXPO	RT PRICES			(CHINESE STEEL INV	ENTORIES		
China Export Prices USD/tonne					Steel Inventories ³ (unit: 1000 tonnes)				
Product	Specification	Export tax (+)/Vate rebate (-)		Change	Product	31/8/2018	24/8/2018	Change	Change %
			31/8/2018		Rebar	4,474	4,462	12	0.27%
Rebar Wire Rod	BS4449 460B 12-25mm, + chrome	-13%	565	0	Wirerod	1.315	1,309	6	0.46%
Hot-rolled coil	SAE1008 6.5-10mm +chrome SS400/Q235 4.0-10.mm	-9% -9%	580 575	0	Hot-rolled Coil	2.183	2.221	-38	-1.71%
Cold-rolled coil	SPCC 1.0mm	-3%	615	0	Medium & Thick Plate	,	,	-6	-0.62%
Medium & Heavy plate	A-level Shipe plate 12-25mm	0%	610	0		958	964	-	
Galvanised	ST02Z/SGCC 1.0mm	-13%	685	0	Cold-rolled Coil	1,177	1,171	6	0.51%
				-	Total	10,107	10,127	-20	-0.20%

Note: Calculation formula for converting export prices of rebar, cold-rolled steel and galvanizing into prices in China's spot market = FOB^* exchange rate*116/(116-0.3); Calculation formula for converting export prices of wire rod and hot-rolled steel into prices in hina's spot market = FOB^* exchange rate*16/(116-0.3); Calculation formula for converting export prices of medium-thick plate into prices in China's spot market = FOB^* exchange rate*16/(116-0.3); Calculation formula for converting export prices of medium-thick plate into prices in China's spot market = FOB^* exchange rate*

³ 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 o	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 w eight, 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 o	on todays market	prices and facout c	our management, sales, financial and depreciations fees.						

note. E Gosta in the table are calificated based on todaya market prices and factor our management, sales, mancial and depreca

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 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 calculat- ed 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		low 10mm for at lea m of 40% below 150	0	Data Exclusions* Port Index: 0					
Pricing Point		Qingdao Port		* 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)			vithin 8 weeks						
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	et tonne)		Differentials to	Qingdao Port (RN	/IB/wet tonne)			
	Applicable range	Value	Change	Port	Value	Change			
	High Grade Fe 60 - 63%	15.00	0.00	Bayuquan	-35.00	0.00			
	High Grade Fe 63 - 64%	71.00	-3.00	Beilun	5.00	0.00			
1% Fe	High Grade Fe 64 - 65%	71.00	-3.00	Caofeidian	-25.00	0.00			
	High Grade Fe 65 - 65.5%	71.00	-3.00	Dalian	-20.00	0.00			
	Low Grade Fe	18.00	-3.00	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	-5.00	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% 5111Ca	High Fe Grade Si <6.5 - 9%	20.00	0.00	Majishan	0.00	0.00			
	Low Fe Grade	23.00	-3.00	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	2.00	Tianjin	-30.00	0.00			

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