

August 29, 2018

	IRON ORE PORT STOCK INDEX (IOPI)														
August 29 2018 FOT Qingdao (inc. 16% VAT), RMB/wet tonne						CFR Qingdao Equivalent (exc. 16% VAT), USD/dry tonne 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	494	-8	- 1.6 9	6 506	483	443	559	64.15	-1.12	-1.7%	65.38	65.39	61.36	77.89
IOPI58	58% Fe Fines	381	-2	-0.5%	6 361	337	304	376	48.59	-0.29	-0.6%	45.55	44.31	40.67	50.97
IOPI65	65% Fe Fines	724	17	2.4%	698	616	541	710	95.81	2.32	2.5%	91.75	84.40	75.83	97.10
	IRON ORE DOMESTIC CONCENTRATE SPOT PRICE ASSESSMENTS AND COMPOSITE INDEX														
Week Endi	ing August 24, 2	018				RMB/ton	ne (exclu	ding tax)			,	USD/tonne	(excluding ta	ax) ³	
Province	Region	Product		Basis	This week	Change %	%	Low ²	High ²	This	week	Change %	Low	2	High ²
Hebei	Hanxing	66% Fe Co	oncentrate	Dry	646	-1.2%		579	682	9	4.33	-0.8%	84.5	4	99.58
Hebei	Qian'an	65% Fe Co	oncentrate	Dry	765	8.5%		630	765	11	1.70	9.0%	91.9	9	111.70
Liaoning	Anshan	65% Fe Co	oncentrate	Wet	495	2.1%		445	550	7	2.28	2.5%	64.9	8	80.31
Shandong	Zibo	65% Fe Co	oncentrate	Dry	725	0.0%		620	725	10	5.86	0.5%	90.5	3	105.86
Week Endi	Week Ending August 24, 2018 This week Change % Low ⁴					Low ⁴	High ⁴	¹ Exchan	ge rate applied: RN	/IB/USD = 6.8072	² Since M	Aarch 1			
China Mines Concentrate Composite Index RMB/WT			wт	607.33	3.0%	5	534.50	628.33	³ Weekly	exchange rate app	plied: RMB/USD 6	i.8485 4 Last 12	months		
	MARKET COMMENTARY														

Physical spot iron ore port stock quotes rose this morning, following the DCE futures market higher, with PB Fines trading around 480 yuan/mt. However, the market weakened in the afternoon on news of production cuts in Linfen city, Shanxi province. The city, home to 19 blast furnaces that account for 13.8 million tonnes of pig iron, will face production cuts of 50% from September 1 to October 10. The Tangshan government also announced another round of cuts of 50% across sintering machines and blast furnaces, which will be carried out from August 29 to September 3.

August 29 2018

Fe Content

58% Fe Fines

PLATFORM TRADES AND TENDERS

61% Fe Fines trades at US\$64.05 for 170,000t 11-20 Sep LAYCAN 62% Fe Fines trades at US\$65.20 for 190,000t 20-29 Sep LAYCAN 61% Fe Fines trades at US\$64.15 for 190,000t 23 Sept -02 Oct LAYCAN

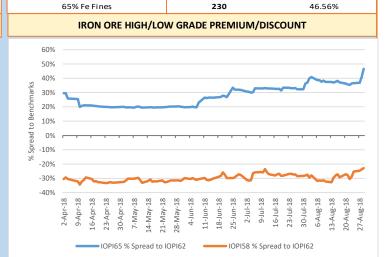
IRON ORE PORT INDEX, FOT QINGDAO (RMB/WT)



IRON ORE FUTURES CONTRACTS

	DCE			SGX			
Closing Date	2	9 Aug 3pm clo	ose	29 Aug 6pm			
Contract	l1901	Change	Change %	Sep'18	Change	Change %	
Closing Price	480.0	-2.0	-0.41%	65.80	-0.23	-0.35%	
Vol traded ('000 lots)	61.45	12.9	26.54%	7.51	0.92	14.01%	
Open positions ('000 lots)	70.96	0.8	1.14%	98.40	-1.89	-1.88%	
Day Low	478.5	-2.5	-0.52%	65.68	0.09	0.14%	
Day High	487.0	2.5	0.52%	66.48	-0.67	-1.00%	

	FREIGHT RATES										
August 28, 2018		FREIGHT RATES - DRY BULK US\$/wet tonne									
Route	Designation		Change	Change %	Low ⁴	High ⁴					
W. Australia - Qingdao	C5	9.17	-0.17	-1.85%	5.109	10.002					
Tubarao - Qingdao	C3	22.75	-0.14	-0.62%	12.705	24.76					



IRON ORE HIGH/LOW GRADE PREMIUM/DISCOUNT

Spread to IOPI62

-113

PORT STOCK INDEX (RMB/WT)

% Spread to IOPI62

-22.87%

IRON ORE PORT INVENTORIES

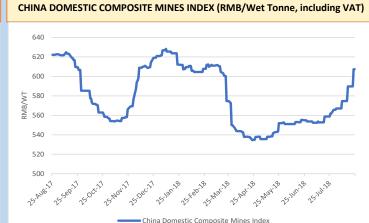
	Week Ending August 24, 2018 (million tonnes)										
Province This week Change % Low ⁴ High ⁴											
Jingtang	15.75	-2.17%	14.11	157.50							
Qingdao	18.90	-0.53%	15.60	19.97							
Caofeidian	18.00	0.00%	16.62	25.30							
Tianjin	10.40	6.12%	8.60	11.00							
Rizhao	16.70	-2.05%	13.10	19.00							
Total (35 Ports)	137.48	-0.97%	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							

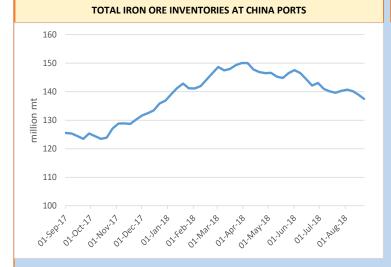
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IRON ORE BRAND SPOT PRICE ASSESMENTS August 29 2018 PORT STOCK INDEX (RMB/WT) Change Diff to IOPI62 Price 471 Newman Fines -8 -23 SIMEC Fines 426 -8 -68 **PB** Fines 483 -4 -11 Newman Fines 496 -9 2 MAC Fines 471 -8 -23 Jimblebar Blended Fines 440 -8 -54 Carajas Fines 782 13 288 Brazilian SSF 517 -9 23 Brazilian Blend Fines 532 -8 38 **RTX** Fines -43 451 -8 PORT STOCK INDEX (RMB/WT) August 29 2018 Diff to IOPI58 Price Change SSF 301 1 -80 **FMG Blended Fines** 372 -1 -9 336 -4 -45 Robe River Western Fines 312 4 -69 Atlas Fines 300 3 -81 Yandi 371 0 -10



AVERAGE IRON ORE BRAND SPECIFICATIONS FOR PORT STOCK SALES

August 29 2018	SPECIFICA	TIONS APPLI	ED FOR 62%	BRAND ASS	SESSMENTS			
	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	61.62%	2.38%	3.62%	0.100%	9.02%			
Newman Fines	62.42%	2.38%	4.21%	0.080%	7.50%			
MAC Fines	61.28%	2.25%	4.67%	0.090%	7.81%			
Jimblebar Blended Fines	61.30%	2.83%	4.60%	0.100%	6.91%			
Carajas Fines	65.61%	0.99%	1.87%	0.060%	8.50%			
Brazilian SSF	62.00%	1.00%	6.50%	0.040%	6.00%			
Brazilian Blend Fines	62.94%	1.38%	4.82%	0.070%	8.55%			
RTX Fines	61.00%	3.10%	4.50%	0.135%	7.50%			
August 29 2018	SPECIFICATIONS APPLIED FOR 58% BRAND ASSESSMEN							
	Fe	Alumina	Silica	Phos	Moisture			
SSF	56.51%	3.07%	6.25%	0.050%	9.14%			
FMG Blended Fines	58.39%	2.71%	5.83%	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%			

FUTURE TRADING—FRONT MONTH CLOSING PRICE

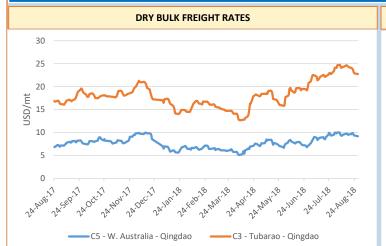


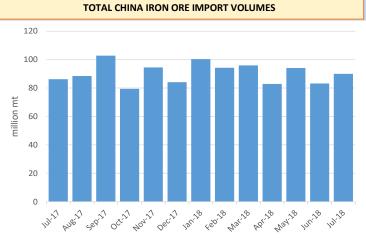
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Steel Spot Market Prices - China

Steel Spot Market RMB/tonne			
Product	24/8/2018	Change	Change %
ReBar HRB400	4,546.0	55	1.22%
Wirerod Q300 ¢6.5mm	4,785.0	46	0.97%
HRC Q235/SS400 5.5mm*1500*C	4,404.0	62	1.43%
CRC SPCC/ST12 1.0mm*1250*2500	4,916.0	90	1.86%
Medium & Heavy Plate Q235B 20mm	4,523.0	63	1.41%
GI ST02Z 1.0mm*1000*C	5,400.0	30	0.56%
Billet Q235 150*150mm	4,050.0	10	0.25%

Rebar and HRC spot prices

urce: SMM

CHINESE STEEL INVENTORIES

China Export Prices USD/tonne									
Product	Specification	Export tax (+)/Vate rebate (-)		Change					
			24/8/2018						
Rebar	BS4449 460B 12-25mm, + chrome	-13%	565	5					
Wire Rod	SAE1008 6.5-10mm +chrome	-9%	580	5					
Hot-rolled coil	SS400/Q235 4.0-10.mm	-9%	575	-5					
Cold-rolled coil	SPCC 1.0mm	-13%	615	-5					
Medium & Heavy plate	A-level Shipe plate 12-25mm	0%	610	0					
Galvanised	ST02Z/SGCC 1.0mm	-13%	685	-5					

CHINESE STEEL EXPORT PRICES

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/(16-0.3); Calculation formula for converting export prices of wire rod and hot-rolled steel into prices in hina's spot market = FOB^* exchange rate*116/(16-0.09); Calculation formula for converting export prices of medium-thick plate into prices in thina's spot market = FOB^* exchange rate*16/(16-0.09); Calculation formula for converting export prices of medium-thick plate into prices in China's spot market = FOB^* exchange rate*

	Steel In	ventories ^a (unit:			
;	Product	24/8/2018	17/8/2018	Change	Change %
-	Rebar	4,462	4,517	-55	-1.22%
	Wirerod	1,309	1,271	38	2.99%
	Hot-rolled Coil	2,221	2,238	-17	-0.76%
	Medium & Thick Plate	964	972	-8	-0.82%
_	Cold-rolled Coil	1,171	1,179	-8	-0.68%
	Total	10,127	10,176	-49	-0.48%

^a 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

Sivily Hacking			ot-rolled Coil (RMB/tonne)
Category	Price	Change (WoW)	Note
MMi (Fe 62%), USD/mt exluding tax	64.78	-0.91	MMi index for 22nd June
Coke	2,390	120	2nd grade met coke, Tangshan, incl. tax
Steel Scrap	2,380	100	steel scrap (6mm) in Zhangjiagang, exl. tax
Billet Cost	3,000	64	Q234, incl. tax
Rebar cost - Blast furnace	3,274	67	calculated based on theoretical w eight, incl. tax
Rebar profit - Blast furnace	1,086	-17	based on Shanghai prices, incl. tax
Hot-rolled coil cost - Blast furnace	3,328	65	based on actual w eight, incl. tax
Hot-rolled coil proft - Blast furnace	1,082	5	based on Shanghai prices, incl. tax

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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	I	RON ORE INDEX SPEC	CIFICATIONS, COMPI	LATION 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 calculated 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 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:				
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)	ning (Seaborne) Loading within 4 weeks, Delivery within 8 weeks		within 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 (RMB/wet						
	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%	74.00	0.00	Beilun	5.00	0.00				
1% Fe	High Grade Fe 64 - 65%	74.00	0.00	Caofeidian	-25.00	0.00				
	High Grade Fe 65 - 65.5%	74.00	0.00	Dalian	-20.00	0.00				
	Low Grade Fe	21.00	0.00	Fangcheng	-5.00	0.00				
	High Fe Grade Al <2.25%	50.00	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	35.00	0.00	Lanshan	0.00	0.00				
	High Fe Grade Si <4%	10.00	10.00	Lanqiao	0.00	0.00				
1% Silica	High Fe Grade Si <4 - 6.5%	20.00	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	26.00	-3.00	Nantong	-30.00	0.00				
0.010/	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				
0.01%	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%	2.00	0.00	Tianjin	-30.00	-5.00				

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