

August 21, 2018

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							IRON OR	E PORT ST	OCK INDEX	(IOPI)						
August 21 2018 FOT Qingdao (inc. 16% VAT), RMB/wet tonne CFR Qingdao Equivalent (exc. 16% VAT), USD/dry tonne 1						1										
ndex	Fe Cont	ent	Price	Change	Change	% MTD	YTD	Low ²	High ²	Price	Change	Change %	MTD	YTD	Low ²	High
OPI62	62% Fe F	ines	507	3	0.6%	507	482	443	559	65.66	0.75	1. 2 %	65.50	65.41	61.36	77.89
DPI58	58% Fe F	ines	367	0	0.0%	356	335	304	376	46.47	0.24	0.5%	44.91	44.16	40.67	50.97
OPI65	65% Fe F	ines	688	1	0.1%	699	612	541	710	90.47	0.61	0.7%	91.73	84.04	75.83	97.10
				IRO	N ORE D	OMESTIC CO	NCENTRAT	E SPOT PI		SMENTS A	ND COMP	OSITE INDE	x			
/eek End	ling August	17, 20	18				RMB/to	onne (exclu	ding tax)			ι	USD/tonne	(excluding t	tax) ³	
rovince	Reg	gion	Product		Basis	This week	Change	%	Low ²	High ²	This	week	Change %	Low	/ ²	High ²
lebei	Har	nxing	66% Fe Co	oncentrate	Dry	654	2.5%		579	682	9	5.05	1.9%	84.1	15	99.12
lebei	Qia	n'an	65% Fe Co	oncentrate	Dry	705	0.7%		630	710	10	2.46	0.1%	91.5	56	103.19
iaoning	Ans	shan	65% Fe Co	oncentrate	Wet	485	4.3%		445	550	7	0.49	3.7%	64.6	58	79.94
handong	Zib	o	65% Fe Co	oncentrate	Dry	725	5.1%		620	725	10	5.37	4.4%	90.1	11	105.37
Veek End	ling August	17, 20	18			This week	Change	%	Low ⁴	High ⁴	¹ Exchan	ge rate applied: RN	1B/USD = 6.8360	² Since	March 1	
hina Min	es Concent	rate Co	omposite l	ndex RMB/	'WT	589.76	2.6%	!	34.50	628.33	³ Weekly	exchange rate app	olied: RMB/USD 6	5.8804 4 Last 1	2 months	
							N/A		/MENTAR)	,						
			PLATFOR	VITRADES	AND IE				IRON ORE HIGH/LOW GRADE PREMIUM/DISCOUNT August 21 2018 PORT STOCK INDEX (RMB/WT)							
				-		2 Sep LAYCAN			August 21 2	Fe Conte	nt	Sp	read to IOP		% Spread t	
Platform	trades BH	BF at	USD\$71.8	0 for 170,	000t 22	sept—1 Oct L	AYCAN			58% Fe Fi	nes		-140		-27.6	51%
									65% Fe Fines 181 35.70%							
	IR	on of	RE PORT I	NDEX, FO	T QINGE	DAO (RMB/W	Г)			IRON	ORE HIGH	H/LOW GRA	DE PREMI	UM/DISCO	DUNT	
750 —									50%							
700 —							~	\sim	40%							
650 — 600 —					~^	~~~~			%06 jarks	~						
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2-Apr-18	9-Apr-18 16-Apr-18 23-Apr-18	30-Apr-18	/-May-18 14-May-18 21-May-18	28-May-18 4-Jun-18 11-Iun-18	18-Jun-18 25-Jun-18	2-Jul-18 9-Jul-18 16-Jul-18	23-Jul-18 30-Jul-18 6-Aug-18	13-Aug-18 20-Aug-18		2-Apr-18 9-Apr-18 16-Apr-18	23-Apr-18 30-Apr-18 7-May-18	14-May-18 21-May-18 28-May-18	4-Jun-18 11-Jun-18 18-Jun-18	25-Jun-18 2-Jul-18 9-Jul-18	16-Jul-18 23-Jul-18 30-Jul-18	6-Aug-18 13-Aug-18 20-Aug-18
	5 7	1 m	 41 12 10PI62 			IOPI65		2(284 to IOPI62		2	30 5 1	6. 13- 20-
				IC	JPI58 —	101105								isa % spreau	to IOPI62	
															to IOPI62	
			IRON OR				SGX				IROI	N ORE PORT		RIES	to IOPI62	

21 Aug 3 901 Chai 94.0 -12	pm close nge Chan	nge % Sep'1 17% 66.9		5pm ge Change %
901 Char 94.0 -12	nge Chan		18 Chang	ge Change %
94.0 -12				
		66.9	9 -1.13	3 -1.66%
0.81 -5	.4 -3.2	9.27	7 0.60	6.95%
5.66 - <mark>2</mark>	.7 -3.0) <mark>2%</mark> 106.0	01 -2.37	7 -2.18%
90.0 -12	4.0 -2.3	. <mark>9%</mark> 66.9	-0.77	7 -1.14%
98.0 -10	0.0 -1.9	67.4	2 -1.08	3 -1.58%
9	0.0 -12	0.0 -12.0 -2.3	0.0 -12.0 -2.39% 66.9	0.0 -12.0 -2.39% 66.90 -0.77

August 20, 2018		FREIGHT RATES - DRY BULK US\$/wet tonne								
Route	Designation		Change	Change %	Low ⁴	High ⁴				
W. Australia - Qingdao	C5	9.63	0.05	0.48%	5.109	10.002				
Tubarao - Qingdao	C3	24.09	-0.14	-0.58%	12.705	24.76				

Province This week Change % \mathbf{Low}^4 High⁴ Jingtang 16.10 -3.59% 14.11 19.00 Qingdao 19.00 1.60% 15.60 19.97 Caofeidian 18.00 -1.10% 16.62 25.30 Tianjin 9.80 -**2.97%** 8.60 11.00 Rizhao 17.05 13.10 19.00 -**1.96%** Total (35 Ports) 138.82 -**0.96%** 123.49 150.04 BLOOMBERG BLOOMBERG TICKERS CFR Qingdao Equivalent (USD/dry tonne) FOT Qingdao (RMB/wet tonne) IOPI62 IRCNQ001 IRCNQ004 IOPI58 IRCNQ002 IRCNQ005 IOPI65 IRCNQ003 IRCNQ006

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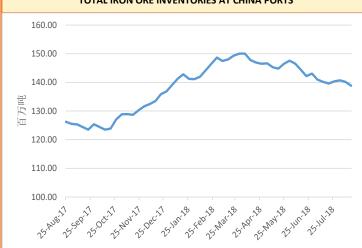
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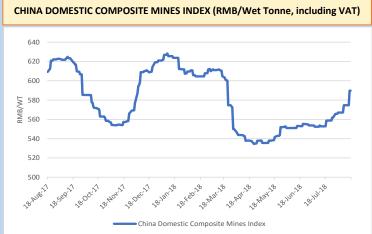


IRON ORE BRAND SPOT PRICE ASSESMENTS

August 21 2018	PORT	ORT STOCK INDEX (RMB/WT)				
	Price	Change	Diff to IOPI62			
Newman Fines	484	5	-23			
SIMEC Fines	439	7	-68			
PB Fines	492	4	-15			
Newman Fines	510	3	3			
MAC Fines	484	5	-23			
Jimblebar Blended Fines	452	4	-55			
Carajas Fines	743	1	236			
Brazilian SSF	514	3	7			
Brazilian Blend Fines	534	2	27			
RTX Fines	461	5	-46			
August 21 2018	PORT	PORT STOCK INDEX (RMB/WT)				
	Price	Change	Diff to IOPI58			
SSF	317	0	-50			
FMG Blended Fines	361	-6	-6			
Robe River	355	0	-12			
Western Fines	312	-10	-55			
Atlas Fines	298	0	-69			
Yandi	347	12	-20			
TOTAL IRON	ORE INVENTORIES	AT CHINA PORT	S			



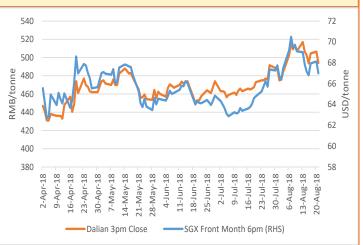
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AVERAGE IRON ORE BRAND SPECIFICATIONS FOR PORT STOCK SALES

August 21 2018	SPECIFICAT	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	61.63%	2.39%	3.63%	0.100%	9.01%		
Newman Fines	62.43%	2.38%	4.19%	0.080%	7.51%		
MAC Fines	61.28%	2.25%	4.67%	0.090%	7.81%		
Jimblebar Blended Fines	61.33%	2.83%	4.61%	0.100%	6.90%		
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	62.90%	1.37%	4.82%	0.070%	8.51%		
RTX Fines	61.00%	3.10%	4.50%	0.135%	7.50%		
August 21 2018	SPECIFICATIONS APPLIED FOR 58% BRAND ASSESSMENTS						
	Fe	Alumina	Silica	Phos	Moisture		
SSF	56.51%	3.04%	6.28%	0.050%	9.13%		
FMG Blended Fines	58.34%	2.70%	5.82%	0.070%	7.17%		
Robe River	56.71%	3.11%	5.11%	0.030%	8.69%		
Western Fines	57.61%	2.94%	6.88%	0.070%	7.56%		
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

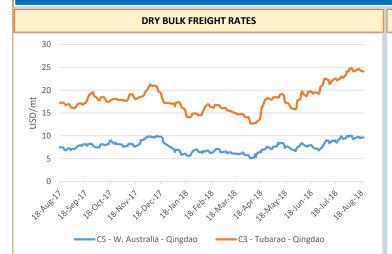


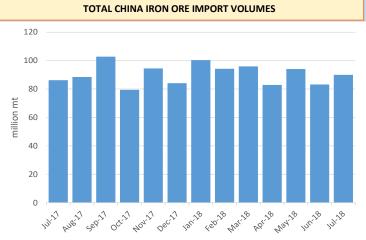
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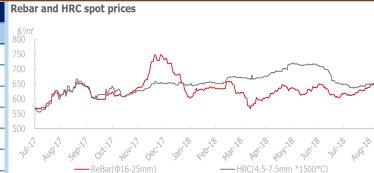
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Steel Spot Market Prices - China

Steel Spot Market RMB/tonne			
Product	17/8/2018	Change	Change %
ReBar HRB400	4,491.0	126	2.89%
Wirerod Q300 ¢6.5mm	4,739.0	120	2.60%
HRC Q235/SS400 5.5mm*1500*C	4,342.0	40	0.93%
CRC SPCC/ST12 1.0mm*1250*2500	4,826.0	26	0.54%
Medium & Heavy Plate Q235B 20mm	4,460.0	20	0.45%
GI ST02Z 1.0mm*1000*C	5,370.0	15	0.28%
Billet Q235 150*150mm	4,040.0	67	1.69%



SMM

CHINESE STEEL INVENTORIES

China Export Prices USD/tonne									
Product	Specification	Export tax (+)/Vate rebate (-)		Change					
			17/8/2018						
Rebar	BS4449 460B 12-25mm, + chrome	-13%	560	15					
Wire Rod	SAE1008 6.5-10mm +chrome	-9%	575	0					
Hot-rolled coil	SS400/Q235 4.0-10.mm	-9%	580	0					
Cold-rolled coil	SPCC 1.0mm	-13%	620	0					
Medium & Heavy plate	A-level Shipe plate 12-25mm	0%	610	0					
Galvanised	ST02Z/SGCC 1.0mm	-13%	690	0					

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*15/(156-0.3); Calculation formula for converting export prices of wire rod and hot-rolled steel into prices in hina's spot market = FOB* exchange rate*15/(156-0.39); Calculation formula for converting export prices of medium-thick plate into prices in thina's spot market = FOB* exchange rate*16/(156-0.39); Calculation formula for converting export prices of medium-thick plate into prices in China's spot market = FOB* exchange rate

	St	eel Inventories ³ (unit:	1000 tonne	s)	
	Product	17/8/2018	10/8/2018	Change	Change %
-	Rebar	4,517	4,531	-14	-0.31%
	Wirerod	1,271	1,236	35	2.83%
	Hot-rolled Coil	2,238	2,217	21	0.95%
	Medium & Thick Plate	972	959	13	1.36%
	Cold-rolled Coil	1,179	1,181	-2	-0.17%
	Total	10,176	10,124	52	0.51%

³ SMM statistics cover inventories of major steel products in China's major markets: hot-rolled steel inventories in 33 major cities; rebar and wire inventories in 35 major cities; cold-rolled steel and medium-thick plate inventories in 31major 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	65.69	-1.03	MMi index for 22nd June					
Coke	2,270	100	2nd grade met coke, Tangshan, incl. tax					
Steel Scrap	2,280	0	steel scrap (6mm) in Zhangjiagang, exl. tax					
Billet Cost	2,936	48	Q234, incl. tax					
Rebar cost - Blast furnace	3,207	52	calculated based on theoretical w eight, incl. tax					
Rebar profit - Blast furnace	1,103	98	based on Shanghai prices, incl. tax					
Hot-rolled coil cost - Blast furnace	3,263	47	based on actual weight, incl. tax					
Hot-rolled coil proft - Blast furnace	1,077	-7	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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	I	RON ORE INDEX SPEC	IFICATIONS, 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 calcula 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:				
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)	Loading withi	n 4 weeks, Delivery v	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 tonne)							
	Applicable range	Value	Change	Port	Value	Change					
	High Grade Fe 60 - 63%	15.00	-2.00	Bayuquan	-35.00	0.00					
	High Grade Fe 63 - 64%	64.00	0.00	Beilun	5.00	0.00					
1% Fe	High Grade Fe 64 - 65%	71.00	0.00	Caofeidian	-15.00	0.00					
	High Grade Fe 65 - 65.5%	71.00	0.00	Dalian	-20.00	0.00					
	Low Grade Fe	15.00	0.00	Fangcheng	-5.00	0.00					
	High Fe Grade Al <2.25%	37.00	0.00	Jiangyin	-30.00	0.00					
1% Alumina	High Fe Grade Al 2.25-4%	22.00	0.00	Jingtang	-15.00	0.00					
	Low Fe Grade	20.00	14.00	Lanshan	0.00	0.00					
	High Fe Grade Si <4%	0.00	0.00	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	29.00	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>4.00</td><td>0.00</td><td>Rizhao</td><td>0.00</td><td>0.00</td></p<0.15%<>	4.00	0.00	Rizhao	0.00	0.00					
Phosphorus	Low Fe Grade0.08 < P < 0.15%	4.00	0.00	Tianjin	-25.00	0.00					

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