

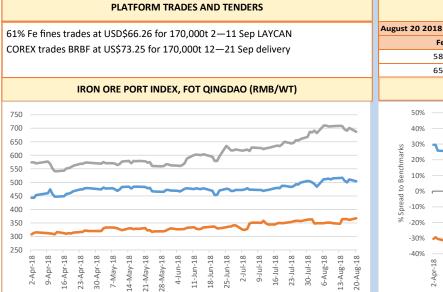
August 20, 2018

	IRON ORE PORT STOCK INDEX (IOPI)														
August 20 2018 FOT Qingdao				(inc. 16% VAT),	T), RMB/wet tonne CFR Qingdao Equivalent					t (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 Fine	504	-7	-1.49	6 507	482	443	559	64.91	-0.78	-1.2%	65.49	65.41	61.36	77.89
IOPI58	58% Fe Fine	367	6	1.7%	356	335	304	376	46.23	0.94	2.1%	44.80	44.14	40.67	50.97
IOPI65	65% Fe Fine	687	-14	-2.09	699	611	541	710	89.86	-1.68	-1.8%	91.82	83.99	75.83	97.10
	IRON ORE DOMESTIC CONCENTRATE SPOT PRICE ASSESSMENTS AND COMPOSITE INDEX														
Week End	ding August 17	2018			RMB/tonne (excluding tax)					USD/tonne (excluding tax) ³					
Province	Regior	Produ	uct	Basis	This week	Change %	%	Low ²	High ²	This	week	Change %	Low	2	High ²
Hebei	Hanxir	g 66% I	e Concentrate	Dry	654	2.5%		579	682	9	5.05	1.9%	84.1	5	99.12
Hebei	Qian'a	n 65% l	e Concentrate	Dry	705	0.7%		630	710	10	2.46	0.1%	91.5	6	103.19
Liaoning	Ansha	n 65% l	e Concentrate	Wet	485	4.3%		445	550	7	0.49	3.7%	64.6	8	79.94
Shandong	Shandong Zibo 65% Fe Concentrate Dry			Dry	725	5.1%		620	725	10	5.37	4.4%	90.1	1	105.37
Week End	Week Ending August 17, 2018				This week	Change %	6	Low ⁴	High ⁴	¹ Exchan	ge rate applied: RN	/IB/USD = 6.8718	² Since M	Aarch 1	
China Mir	es Concentrat	e Compos	ite Index RMB,	/wt	589.76	2.6%	5	534.50	628.33	³ Weekly	exchange rate ap	plied: RMB/USD 6	5.8804 4 Last 12	2 months	
						MAD			,						

MARKET COMMENTARY

According to SMM, about 68 vessels with 10.05 million mt of iron ore are expected to arrive at major Chinese ports during August 17-23, up 880,000 mt from 9.17 million mt during August 10-16. For the same period, volumes of iron ore departing Australian ports are likely to decrease 700,000 mt to 15.34 million mt while those leaving Brazilian ports are likely to rise by 240,000 mt to 8.1 million mt. Iron ore seaborne arrivals at ports in Shandong province are estimated to inch up this week while those arriving at ports in Tangshan area would hold steady. Buoyed by a gain of 50 yuan/mt in billet over the weekend, market sentiment was positive as traders tried to push higher. Mills, however, stood on the side-lines and transacted volumes dropped.

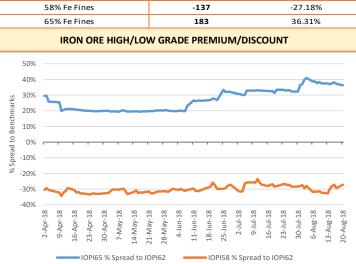
Fe Content



IOPI58

IOPI65

IOPI62



IRON ORE HIGH/LOW GRADE PREMIUM/DISCOUNT

Spread to IOPI62

PORT STOCK INDEX (RMB/WT)

% Spread to IOPI62

IRON ORE PORT INVENTORIES

	IRON ORE FUTURES CONTRACTS						IRON ORE PORT INVENTORIES						
		DC	E		SGX				Week Ending Aug	ust 17, 2018	L8 (million tonnes)		
Closing Date		20 Aug 3p	m close		20 Aug 6pm		Provi	nce	This week	Change	% Low ⁴	High ⁴	
Contract	11901	Chan	ge Change %	Sep'18	Change	Change %	Jingtang		16.10	-3.59	% 14.11	19.00	
Closing Price	506.5	2.0	0.40%	68.12	0.18	0.26%	Qingdao		19.00	1.60%	6 15.60	19.97	
Vol traded ('000 lots)	166.17	7 12.	2 7.93%	8.67	-8.47	-49.44%	Caofeidian		18.00	-1.10	<mark>%</mark> 16.62	25.30	
Open positions ('000 lots) 88.33	6.3	7.70%	108.38	-6.50	-5.66%	Tianjin		9.80	-2.97	8.60	11.00	
Day Low	502.0	10.	2.03%	67.67	2.23	3.41%	Rizhao		17.05	-1.96	% 13.10	19.00	
Day High	508.0	2.0	0.40%	68.50	0.44	0.65%	Total (35 Po	orts)	138.82	-0.96	% 123.49	150.04	
		FRE	IGHT RATES						B	LOOMBERG	i		
August 17, 2018			FREIGHT RATES	- DRY BULK US	\$/wet tonne		BLOOMBERG TICKERS						
Route I	Designation		Change Ch	ange %	Low ⁴	High ⁴	IOP162	FOT Qingdao (RMB/wet tonne)		CFR Qingdao Equivalent (USD/dry tonne)			
W. Australia - Qingdao	C5	9.59	0.10 1	05%	5.109	10.002	IOPI62 IRCNQ001 IRCNQ004 IOPI58 IRCNQ002 IRCNQ005						
Tubarao - Qingdao	C3	24.23	-0.16 -).67%	12.705	24.76	IOPI65		IRCNQ003		IRCNQ006		

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August 20 2018

Newman Fines

Newman Fines

Carajas Fines

Brazilian SSF

August 20 2018

FMG Blended Fines

RTX Fines

Robe River

Atlas Fines

Yandi

Western Fines

SSF

Jimblebar Blended Fines

Brazilian Blend Fines

SIMEC Fines

PB Fines

MAC Fines



IRON ORE BRAND SPOT PRICE ASSESMENTS

Price

479

432

488

507

479

448

742

511

532

456

Price

317

367

355

322

298

335

PORT STOCK INDEX (RMB/W

Change

-11

-28

-7 -9

-13

-12

-15

-30

-15

-12

PORT STOCK INDEX (RMB/W

Change

4

4

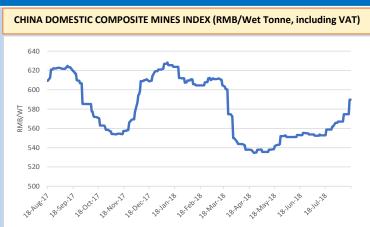
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Diff

Diff



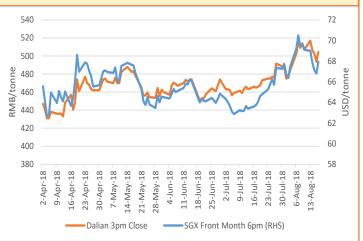
AVERAGE IRON ORE BRAND SPECIFICATIONS FOR PORT STOCK SALES

stic Composite Mi

/Т)	August 20 2018	SPECIFICA	TIONS APPLI	ED FOR 62%	BRAND ASS	ESSMENTS
f to IOPI62		Fe	Alumina	Silica	Phos	Moisture
-25	Roy Hill	61.00%	2.20%	4.50%	0.055%	8.00%
-72	SIMEC Fines	60.00%	2.30%	6.30%	0.060%	6.00%
-16	PB Fines	61.64%	2.38%	3.62%	0.100%	8.99%
3	Newman Fines	62.43%	2.38%	4.19%	0.080%	7.51%
-25	MAC Fines	61.28%	2.25%	4.67%	0.090%	7.81%
-56	Jimblebar Blended Fines	61.35%	2.81%	4.66%	0.090%	6.79%
238	Carajas Fines	65.61%	0.99%	1.87%	0.060%	8.50%
7	Brazilian SSF	62.00%	1.00%	6.50%	0.040%	6.00%
28	Brazilian Blend Fines	62.90%	1.37%	4.82%	0.070%	8.51%
-48	RTX Fines	61.00%	3.10%	4.50%	0.135%	7.50%
/Т)	August 20 2018	SPECIFICA	TIONS APPLI	ED FOR 58%	BRAND ASS	SESSMENTS
f to IOPI58		Fe	Alumina	Silica	Phos	Moisture
-50	SSF	56.51%	3.04%	6.28%	0.050%	9.13%
0	FMG Blended Fines	58.34%	2.70%	5.82%	0.070%	7.17%
-12	Robe River	56.71%	3.11%	5.11%	0.030%	8.69%
-45	Western Fines	57.61%	2.94%	6.88%	0.070%	7.56%
-69	Atlas Fines	56.59%	2.55%	7.14%	0.080%	8.46%
-32	Yandi	57.19%	1.40%	6.39%	0.040%	8.85%



FUTURE TRADING—FRONT MONTH CLOSING PRICE

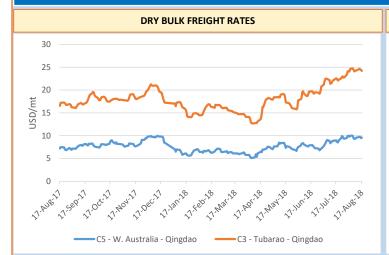


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Steel Spot Market Prices - China

Steel Spot Market RMB/tonne				F
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%	4

 Rebar and HRC spot prices

 5

 3/mt

 750

 700

 650

 600

 500

 500

 1

 1

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CHINESE STEEL INVENTORIES

China Export Prices USE	D/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/(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*15/(16-0.09); Calculation formula for converting export prices of mediumthick plate into prices in China's spot market = FOB*exchange rate

	Steel Inver	ntories³ (unit:	1000 tonnes	5)	
•	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: 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	f Steel Mill P8	&L - Rebar and Ho	ot-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 w eight, 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 calculat- ed using detailed transaction-level data submitted to MMi by these companies. This data is
Silica%	ica% 1.50 4.00 5.50		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	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	et tonne)		Differentials to Qingdao Port (RMB/wet tonne)						
	Applicable range	Value	Change	Port	Value	Change				
	High Grade Fe 60 - 63%	17.00	0.00	Bayuquan	-35.00	0.00				
	High Grade Fe 63 - 64%	64.00	-3.00	Beilun	5.00	0.00				
1% Fe	High Grade Fe 64 - 65%	71.00	-3.00	Caofeidian	-15.00	0.00				
	High Grade Fe 65 - 65.5%	71.00	-3.00	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	6.00	3.00	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	9.00	Lianyungang	0.00	0.00				
1% 511104	High Fe Grade Si <6.5 - 9%	20.00	9.00	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				
0.01%	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	-3.00	Tianjin	-25.00	0.00				

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