

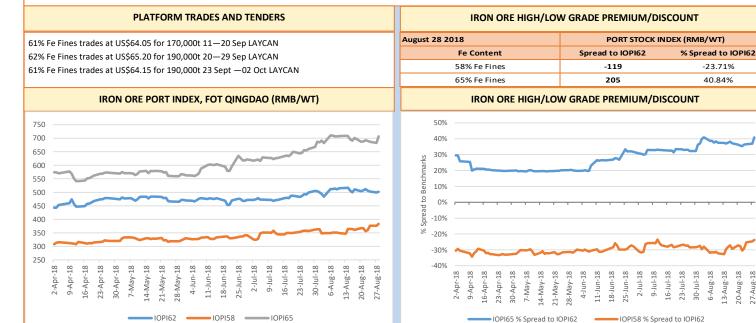
August 28, 2018

	IRON ORE PORT STOCK INDEX (IOPI)														
August 28 2018 FOT Qingda				Qingdao (i	nc. 16% VAT),	RMB/wet	tonne		CFR Qingdao Equivalent (exc. 16% VAT), USD/dry tonne ¹				1		
Index	Fe Content	Price	Change	Change S	% MTD	YTD	Low ²	High ²	Price	Change	Change %	MTD	YTD	Low ²	High ²
IOPI62	62% Fe Fines	502	3	0.6%	506	483	443	559	65.27	0.85	1.3%	65.44	65.40	61.36	77.89
IOPI58	58% Fe Fines	383	7	1.9%	360	337	304	376	48.88	1.28	2.7%	45.40	44.28	40.67	50.97
IOPI65	65% Fe Fines	707	24	3.5%	697	615	541	710	93.49	3.90	4.4%	91.55	84.32	75.83	97.10
			IRO	N ORE DO	DMESTIC CON	NCENTRAT	TE SPOT PF	RICE ASSESS	SMENTS A	ND COMP	OSITE INDEX	ĸ			
Week End	ing August 24, 2	2018				RMB/to	onne (exclud	ding tax)	USD/tonne (excluding tax) ³						
Province	Region	Product		Basis	This week	Change	e %	Low ²	High ²	This	week	Change %	Low	2	High ²

Province	Region	Product	Basis	This week	Change %	Low ²	High ²	This week	Change %	Low ²	High ²
Hebei	Hanxing	66% Fe Concentrate	Dry	646	-1.2%	579	682	94.33	-0.8%	84.54	99.58
Hebei	Qian'an	65% Fe Concentrate	Dry	765	8.5%	630	765	111.70	9.0%	91.99	111.70
Liaoning	Anshan	65% Fe Concentrate	Wet	495	2.1%	445	550	72.28	2.5%	64.98	80.31
Shandong	Zibo	65% Fe Concentrate	Dry	725	0.0%	620	725	105.86	0.5%	90.53	105.86
Week Ending August 24, 2018				This week	Change %	Low ^₄	High ⁴	¹ Exchange rate applier	d: RMB/USD = 6.8052	² Since March 1	
China Mines Concentrate Composite Index RMB/WT				607.33	3.0%	534.50	628.33	³ Weekly exchange rate applied: RMB/USD 6.8485 ⁴ Last 12 months			

MARKET COMMENTARY

Physical spot iron ore quotes for 62% fines were relatively stable this morning, and firmed up as the DCE closed. Traders in Shandong refused to sell PB Fines with prices below 475 yuan/mt. In Tangshan, PB Fines traded around 505 yuan/mt. Most traders said that, though iron ore prices do not appear bullish, growing prices of rebar could provide some support. Iron ore prices could remain volatile in the short term



IRON ORE FUTURES CONTRACTS

		DCE			SGX			
Closing Date	28 Aug 3pm close 28 Aug 6pm							
Contract	11901	Change	Change %	Sep'18	Change	Change %		
Closing Price	482.0	3.0	0.63%	66.03	0.32	0.49%		
Vol traded ('000 lots)	48.56	-51.1	-51.25%	6.58	-6.18	-48.42%		
Open positions ('000 lots)	70.17	-6.6	-8.61%	100.29	-0.75	-0.74%		
Day Low	481.0	4.0	0.84%	65.59	0.00	0.00%		
Day High	484.5	-5.5	-1.12%	67.15	0.40	0.60%		

	FREIGHT RATES									
August 24, 2018		FREIGHT RATES - DRY BULK US\$/wet tonne								
Route	Designation		Change	Change %	Low ⁴	High ⁴				
W. Australia - Qingdao	C5	9.34	-0.09	-0.91%	5.109	10.002				
Tubarao - Qingdao	C3	22.89	-0.21	- 0.8 9%	12.705	24.76				

IRON ORE PORT INVENTORIES

		Week Ending Au	gust 24, 2018 (i	million tonnes)				
	Province	This week	Change S	% 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			
1	BLOOMBERG							
1		BL	OOMBERG TICKERS	5				
1		FOT Qingdao (RMB/wet ton	ne)	CFR Qingdao Equivalent (I	USD/dry tonne)			

IOPI62 IRCNQ001 IOPI58 IRCNQ002 IOP165 IRCNQ003

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IRCNQ004

IRCNQ005

IRCNQ006

27-Aug-18



August 28 2018

Newman Fines

Newman Fines

Carajas Fines

Brazilian SSF

August 28 2018

FMG Blended Fines

RTX Fines

Robe River

Atlas Fines

Yandi

Western Fines

SSF

Jimblebar Blended Fines

Brazilian Blend Fines

MAC Fines

SIMEC Fines

PB Fines



IRON ORE BRAND SPOT PRICE ASSESMENTS

Price

479

434

487

505

479

448

769

526

540

459

Price

300

373

340

308

297

371

PORT STOCK INDEX (F

Change

3

3

2

3

3

3

30

16

12

3

Change

6

7

7

7

7

7

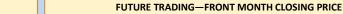
PORT STOCK INDEX (I

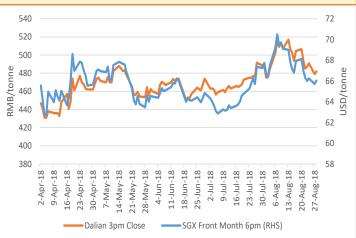


AVERAGE IRON ORE BRAND SPECIFICATIONS FOR PORT STOCK SALES

RMB/WT)	August 28 2018	SPECIFICAT	TIONS APPLI	ED FOR 62%	BRAND ASS	ESSMENTS
Diff to IOPI62		Fe	Alumina	Silica	Phos	Moisture
-23	Roy Hill	61.00%	2.20%	4.50%	0.055%	8.00%
-68	SIMEC Fines	60.00%	2.30%	6.30%	0.060%	6.00%
-15	PB Fines	61.62%	2.39%	3.63%	0.100%	8.99%
3	Newman Fines	62.43%	2.38%	4.19%	0.080%	7.51%
-23	MAC Fines	61.28%	2.25%	4.67%	0.090%	7.81%
-54	Jimblebar Blended Fines	61.30%	2.83%	4.61%	0.100%	6.92%
267	Carajas Fines	65.61%	0.99%	1.87%	0.060%	8.50%
24	Brazilian SSF	62.00%	1.00%	6.50%	0.040%	6.00%
38	Brazilian Blend Fines	62.94%	1.38%	4.82%	0.070%	8.55%
-43	RTX Fines	61.00%	3.10%	4.50%	0.135%	7.50%
RMB/WT)	August 28 2018	SPECIFICAT	TIONS APPLI	ED FOR 58%	BRAND ASS	ESSMENTS
Diff to IOPI58		Fe	Alumina	Silica	Phos	Moisture
-83	SSF	56.49%	3.06%	6.26%	0.050%	9.17%
-10	FMG Blended Fines	58.39%	2.71%	5.83%	0.070%	7.16%
-43	Robe River	56.74%	3.14%	5.05%	0.030%	8.75%
-75	Western Fines	57.70%	2.81%	7.38%	0.060%	7.42%
-86	Atlas Fines	56.59%	2.55%	7.14%	0.080%	8.46%
-12	Yandi	57.19%	1.40%	6.39%	0.040%	8.85%







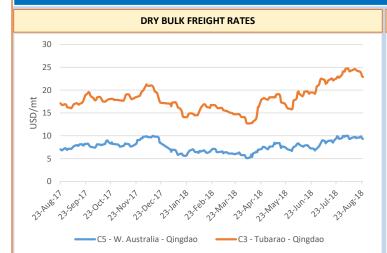
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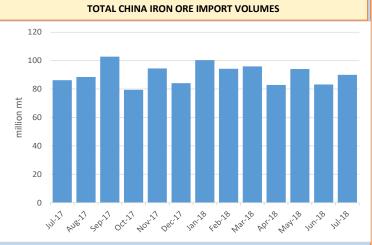
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Steel Spot Market Prices - China

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 $\frac{5/mt}{750}$ $\frac{500}{550}$ $\frac{500}{500}$ $\frac{500}{500}$ $\frac{500}$

urce: SMM

CHINESE STEEL INVENTORIES

China Export Prices USE	/tonne				ſ
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	ŀ
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/(116-0.13); Calculation formula for converting export prices of wire rod and hot-rolled steel into prices in hina's spot market = FOB^* exchange rate*116/(116-0.03); Calculation formula for converting export prices of medium-tick plate into prices in China's spot market = FOB^* exchange rate*1

-	Steel Inventories ³ (unit: 1000 tonnes)								
Э	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%				

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

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 weight, 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 %	5 1.40 2.25 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:
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 (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%	74.00	10.00	Beilun	5.00	0.00				
1% Fe	High Grade Fe 64 - 65%	74.00	3.00	Caofeidian	-25.00	0.00				
	High Grade Fe 65 - 65.5%	74.00	3.00	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	10.00	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%	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% SIIICa	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>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	-25.00	0.00				

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