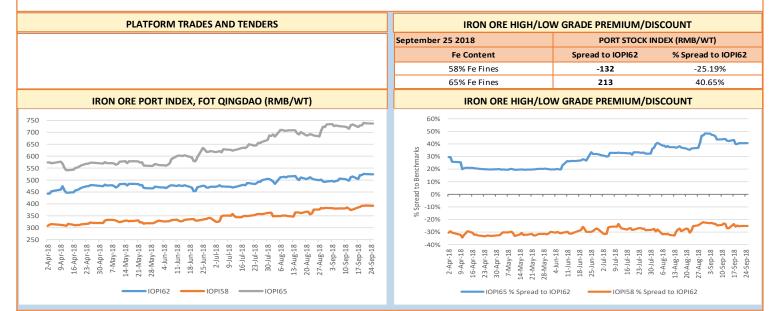


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	IRON ORE PORT STOCK INDEX (IOPI)														
Septembe	er 25 2018		FOT C	lingdao	o (inc. 16% VAT), RMB/wet tonne					CFR Qingdao Equivalent (exc. 16% VAT), USD/dry tonne ¹					
Index Fe Content Price Change Change				e % MTD	YTD ²	Low ²	High ²	Price	Change	Change %	MTD	YTD ²	Low ²	High ²	
IOPI62	62% Fe Fine	524	-1	-0.29	6 509	486	443	559	67.91	-0.22	-0.3%	65.84	65.42	61.36	77.89
IOPI58 58% Fe Fines		392	-1	-0.3%	6 384	343	304	393	49.84	-0.19	-0.4%	48.75	44.90	40.67	50.97
IOPI65	65% Fe Fine	737	-1	-0.19	6 729	630	541	740	97.07	-0.26	-0.3%	96.00	85.83	75.83	97.35
	IRON ORE DOMESTIC CONCENTRATE SPOT PRICE ASSESSMENTS AND COMPOSITE INDEX														
Week End	ing Septembe	21, 2018				RMB/tonne (excluding tax)					USD/tonne (excluding tax) ³				
Province	Region	Product		Basis	This week	Change	%	Low ²	High ²	This	week	Change %	Low	2	High ²
Hebei	Hanxin	g 66% Fe (Concentrate	Dry	652	1.9%		579	682	9	5.18	1.8%	84.5	2	99.56
Hebei	Qian'aı	65% Fe (Concentrate	Dry	775	0.0%		630	775	11	.3.13	-0.1%	91.9	7	113.13
Liaoning	Anshar	65% Fe (Concentrate	Wet	545	0.0%		445	550	7	9.56	-0.1%	64.9	6	80.29
Shandong	Zibo	65% Fe (Concentrate	Dry	735	0.0%		620	735	10	7.29	-0.1%	90.5	1	107.29
Week End	ling Septembe	r 21, 2018			This week	Change	%	Low ⁴	High ⁴	¹ Exchar	ge rate applied: RM	1B/USD = 6.8440	² Since N	Narch 1	
China Min	China Mines Concentrate Composite Index RMB/WT					0.3%	5	534.50	634.71	³ Weekl	/ exchange rate app	olied: RMB/USD	5.8504 4 Last 12	months	
						МА	RKET COM	MMENTAR	Y						

Physical spot iron ore port quotes were relatively stable today with PB Fines offered for around 530 yuan/mt in Tangshan. Mills picked up their purchasing enthusiasm as they looked to restock inventory prior to the National Day holiday. Traders were generally happy with the current price levels though some preferred to hold back inventory in the hope of rising demand from the mills. According to SMM research, mills in Tangshan and Shandong are still looking to buy this week, potentially supporting port prices.



				IRON ORE I	PORT STO	QUARTERLY	AND YEA	R-TO-DATE	VERAGES	5					
September 25 2018 FOT Qingdao (inc. 16% VAT), RMB/wet tonne								CFR Qingdao Equivalent (exc. 16% VAT), USD/dry tonne ¹							1
Index Fe Content		May	June	e July	Augus	st MTD	QTD	YTD ²	May	June	July	August	MTD	QTD	YTD ²
IOPI62	62% Fe Fine	s 476	471	482	505	509	497	486	65.87	64.29	63.41	65.25	65.84	64.74	65.42
IOPI58	58% Fe Fine	s 326	332	349	363	384	363	343	43.75	44.14	44.86	45.84	48.75	46.25	44.90
IOP165	65% Fe Fine	s 571	594	638	701	729	686	630	79.76	82.19	85.29	92.13	96.00	90.68	85.83
		IRON	ORE FUTU	RES CONTR	RACTS			IRON ORE PORT INVENTORIES							
			DCE			SGX		Week Ending September 21, 2018 (million tonnes)							
Closing Date		25	Sept 3pm cl	ose		25 Sept 6 pm		Provin	ice	This week		Change %		Low ⁴	High ⁴
Contract		11901	Change	Change %	Oct'18	Change	Change %	Jingtang		16.10		0.14%		14.11	19.00
Closing Price		497.0	-4.0	-0.80%	68.09	-1.02	-1.48%	Qingdao		19.00		2.70%		15.60	19.97
Vol traded ('000 lots)		47.26	1.3	2.88%	13.53	7.87	139.03%	Caofeidian		19.00		5.56%		16.62	25.30

Tianjin

Rizhao

Total (35 Ports)

9.30

16.90

136.30

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62.67

495.0

498.0

-4.3

-5.0

-5.0

-6.36%

-1.00%

-**0.99%**

129.53

67.57

69.46

-2.33

-1.15

0.35

Open positions ('000 lots)

Day Low

Day High

-1.77%

-1.67%

0.51%

September 25, 2018

8.60

13.10

123.49

11.00

19.00

150.04

-3.12%

1.20%

0.17%



September 25 2018

Newman Fines

Newman Fines

Carajas Fines

Brazilian SSF

RTX Fines

Robe River

Atlas Fines

Yandi

Western Fines

SSF

Jimblebar Blended Fines

Brazilian Blend Fines

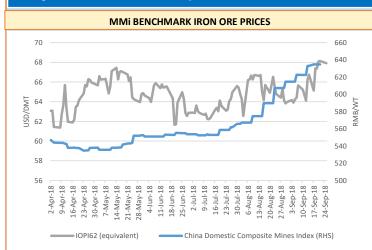
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FMG Blended Fines

SIMEC Fines

PB Fines

MAC Fines



IRON ORE BRAND SPOT PRICE ASSESMENTS

Price

499

445

509

526

495

463

730

541

549

469

Price

316

380

345

333

321

405

PORT STOCK INDEX (RMB/WT)

Change

-4

-13

-2

0

-4

-7

-1

-13

-5

-8

PORT STOCK INDEX (RMB/WT)

Change

2

1

3

2

1

16

Diff to IOPI62

-25

-79

-15

2

-29

-61

206

17

25

-55

Diff to IOPI58

-76

-12

-47

-59

-71

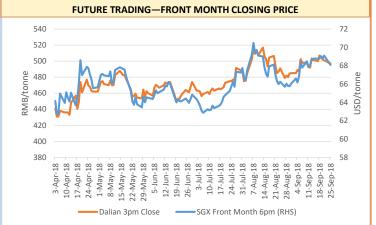
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AVERAGE IRON ORE BRAND SPECIFICATIONS FOR PORT STOCK SALES

September 25 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	61.68%	2.36%	3.57%	0.100%	9.23%
Newman Fines	62.38%	2.37%	4.09%	0.090%	7.86%
MAC Fines	61.00%	2.29%	4.61%	0.090%	7.43%
Jimblebar Blended Fines	61.30%	2.86%	4.56%	0.100%	6.96%
Carajas Fines	64.90%	1.35%	1.78%	0.080%	8.18%
Brazilian SSF	62.00%	1.00%	6.50%	0.040%	6.00%
Brazilian Blend Fines	62.71%	1.49%	4.90%	0.050%	8.69%
RTX Fines	61.00%	3.10%	4.50%	0.135%	7.50%
September 25 2018	SPECIFICAT	TIONS APPLI	BRAND ASS	ESSMENTS	
	Fe	Alumina	Silica	Phos	Moisture
SSF	56.52%	3.06%	6.29%	0.050%	9.09%
FMG Blended Fines	58.36%	2.79%	5.90%	0.070%	7.13%
Robe River	56.74%	3.14%	5.05%	0.030%	8.58%
Western Fines	57.72%	2.86%	7.37%	0.060%	7.41%
Atlas Fines	56.59%	2.55%	7.14%	0.080%	8.46%
Yandi	57.07%	1.42%	6.30%	0.040%	9.46%





	FREIGHT RATES								BLOOMBE	RG			
September 24, 2018			FREIGHT RATES - DRY BULK US\$/wet tonne						BLOOMBERG TICKERS				
	Route	Designation		Change Ch		Low ⁴	High ⁴		FOT Qingdao (RMB/wet tonne)	CFR Qingdao Equivalent (USD/dry to			
		-		<u> </u>	Change %		-	IOPI62	IRCNQ001	IRCNQ004			
	W. Australia - Qingdao	lao C5	7.23	0.01	0.19%	5.109	10.002	IOPI58	IRCNQ002	IRCNQ005			
Tubarao - Qingdao C3		C3	20.32	0.16	0.77%	12.705	24.76	IOPI65	IRCNQ003	IRCNQ006			
	-												

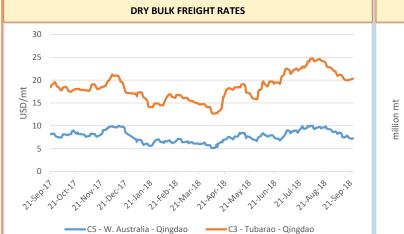
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Steel Spot Market Prices - China



	СН				
China Export Prices USE)/tonne				Steel In
Product	Specification	Export tax (+)/Vate rebate (-)		Change	Product
			21/9/2018		
Rebar	BS4449 460B 12-25mm, + chrome	-13%	575	-5	Rebar
Wire Rod	SAE1008 6.5-10mm +chrome	-9%	580	0	Wirerod
Hot-rolled coil	SS400/Q235 4.0-10.mm	-9%	580	0	Hot-rolled Coil
Cold-rolled coil	SPCC 1.0mm	-13%	615	0	Medium & Thick Plate
Medium & Heavy plate	A-level Shipe plate 12-25mm	0%	610	0	Cold-rolled Coil
Galvanised	ST02Z/SGCC 1.0mm	-13%	685	0	T ()

Note: Calculation formula for converting export prices of rebar, cold-rolled steel and galvanizing into prices in China's spot market = FOB^* exchange rate*1.fb/(1fs-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*1.fb/(1fs-0.09); Calculation formula for converting export prices of medium-thick plate into prices in thina's spot market = FOB^* exchange rate*1.fb/(1fs-0.09); Calculation formula for converting export prices of medium-thick plate into prices in China's spot market = FOB^* exchange rate*1.fb/(1fs-0.09); Calculation formula for converting export prices of medium-thick plate into prices in China's spot market = FOB^* exchange rate*1.fb/(1fs-0.09); Calculation formula for converting export prices of medium-thick plate into prices in China's spot market = FOB^* exchange rate*1.fb/(1fs-0.09); Calculation formula for converting export prices of medium-thick plate into prices in China's spot market = FOB^* exchange rate*1.fb/(1fs-0.09); Calculation formula for converting export prices of medium-thick plate into prices in China's spot market = FOB^* exchange rate*1.fb/(1fs-0.09); Calculation formula for converting exch

l Inventories³ (unit: 1000 tonnes) 21/9/2018 14/9/2018 (

INESE STEEL INVENTORIES

-	Product	21/9/2018	14/9/2018	Change	Change %
-	Rebar	4,217	4,405	-188	-4.27%
-	Wirerod	1,361	1,403	-42	-2.99%
	Hot-rolled Coil	2,166	2,144	22	1.03%
	Medium & Thick Plate	1,039	1,005	34	3.38%
_	Cold-rolled Coil	1,175	1,183	-8	-0.68%
_	Total	9,959	10,140	-181	-1.79%

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	68.13	3.19	MMi index for 22nd June				
Coke	2,610	0	2nd grade met coke, Tangshan, incl. tax				
Steel Scrap	2,320	0	steel scrap (6mm) in Zhangjiagang, exl. tax				
Billet Cost	3,126	34	Q234, incl. tax				
Rebar cost - Blast furnace	3,395	33	calculated based on theoretical w eight, incl. tax				
Rebar profit - Blast furnace	1,085	-43	based on Shanghai prices, incl. tax				
Hot-rolled coil cost - Blast furnace	3,451	-10	based on actual w eight, incl. tax				
Hot-rolled coil proft - Blast furnace	879	-35	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, COMPIL	ATION 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 5.50	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		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		elow 10mm for at lea Im 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	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 (RMB/wet tonne)								
	Applicable range	Value	Change	Port	Value	Change						
	High Grade Fe 60 - 63%	15.00	0.00	Bayuquan	-40.00	0.00						
	High Grade Fe 63 - 64%	71.00	0.00	Beilun	5.00	0.00						
1% Fe	High Grade Fe 64 - 65%	71.00	0.00	Caofeidian	-20.00	0.00						
	High Grade Fe 65 - 65.5%	71.00	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%	54.00	0.00	Jiangyin	-30.00	0.00						
1% Alumina	High Fe Grade Al 2.25-4%	25.00	5.00	Jingtang	-20.00	0.00						
1% Alumina	Low Fe Grade Al <2.25%	60.00	0.00	Lanqiao	0.00	0.00						
	Low Fe Grade Al 2.25-4%	35.00	-5.00	Lanshan	0.00	0.00						
	High Fe Grade Si <4%	4.00	0.00	Lianyungang	0.00	0.00						
10/ Cilian	High Fe Grade Si 4-6.5%	25.00	5.00	Majishan	0.00	0.00						
1% Silica	High Fe Grade Si 6.5 - 9%	20.00	0.00	Nantong	-30.00	0.00						
	Low Fe Grade	20.00	0.00	Qingdao	0.00	0.00						
0.01%	High Fe Grade 0.09% <p<0.115%< td=""><td>2.00</td><td>0.00</td><td>Rizhao</td><td>0.00</td><td>0.00</td></p<0.115%<>	2.00	0.00	Rizhao	0.00	0.00						
0.01%	High Fe Grade 0.115% <p<0.15%< td=""><td>10.00</td><td>3.00</td><td>Tianjin</td><td>-25.00</td><td>0.00</td></p<0.15%<>	10.00	3.00	Tianjin	-25.00	0.00						
Phosphorus	Low Fe Grade 0.09 <p<0.1%< td=""><td>10.00</td><td>0.00</td><td></td><td></td><td></td></p<0.1%<>	10.00	0.00									

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