

July 27, 2018

#### **IRON ORE PORT STOCK INDEX (IOPI)**

July 27 20:	18	FOT Qingdao (inc. 16% VAT), RMB/wet tonne				CFR Qingdao Equivalent (exc. 16% VAT), USD/dry tonne <sup>1</sup>									
Index	Fe Content	Price	Change	Change %	MTD	YTD	Low <sup>2</sup>	High <sup>2</sup>	Price	Change	Change %	MTD	YTD	Low <sup>2</sup>	High <sup>2</sup>
IOPI62	62% Fe Fines	499	7	1.4%	479	478	443	559	64.96	0.70	1.1%	63.20	65.40	61.36	77.89
IOPI58	58% Fe Fines	357	-1	-0.3%	348	331	304	376	45.37	-0.33	-0.7%	44.75	44.01	40.67	50.97
IOPI65	65% Fe Fines	660	5	0.8%	634	598	541	690	87.16	0.33	0.4%	84.89	82.86	75.83	97.10

#### IRON ORE DOMESTIC CONCENTRATE SPOT PRICE ASSESSMENTS AND COMPOSITE INDEX

Week Ending July 20, 2018			RMB/tonne (excluding tax)				USD/tonne (excluding tax) <sup>3</sup>				
Province	Region	Product	Basis	This week	Change %	Low <sup>2</sup>	High <sup>2</sup>	This week	Change %	Low <sup>2</sup>	High <sup>2</sup>
Hebei	Hanxing	66% Fe Concentrate	Dry	601	0.2%	579	682	89.64	-0.7%	86.36	101.72
Hebei	Qian'an	65% Fe Concentrate	Dry	680	2.3%	630	710	101.42	1.4%	93.97	105.90
Liaoning	Anshan	65% Fe Concentrate	Wet	475	0.0%	445	550	70.85	-0.9%	66.37	82.03
Shandong	Zibo	65% Fe Concentrate	Dry	660	0.0%	620	690	98.44	-0.9%	92.47	102.91
Week Ending July 20, 2018				This week	Change %	Low <sup>4</sup>	High ⁴	<sup>1</sup> Exchange rate applied: RMB/USD = 6.7942 <sup>2</sup> Since March 1			
China Mines Concentrate Composite Index RMB/WT			558.71	1.1%	534.50	628.33	3 Weekly exchange ra	e applied: RMB/USD 6.7406	<sup>4</sup> Last 12 months		

#### MARKET COMMENTARY

As of July 27, stocks of iron ore across 35 Chinese ports grew 720,000 mt on a weekly basis, to 140.34 million mt. Daily average deliveries from ports fell 148,000 mt week on week to 2.35 million mt. Typhoon Ampil and torrential rains in Shandong province affected unloading and deliveries at local ports. Daily average deliveries from Qingdao port and Rizhao port fell significantly. Stocks at Rizhao port dipped. Port stocks in Tangshan changed little as arrivals remained stable, but are likely to grow. Daily average deliveries from Caofeidian port dipped as nearby steel mills were subject to output or transport controls. Daily average deliveries from Jingtang port remained unchanged. Iron ore port stock quotes rose today with a strong DCE Futures market. Some traders are holding their positions instead of trading confidently on gains in prices of futures, and some mills have already completed weekly procurement.

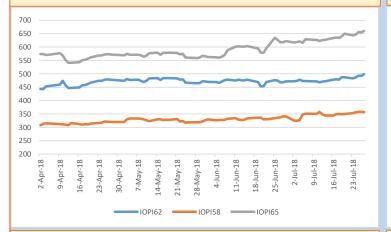
### **PLATFORM TRADES AND TENDERS**

61% Fe Fines sells at US\$65.66/t for 170,000t, 10 -19 Aug LAYCAN 61% Fe Fines sells at US\$65.85/t for 170,000t, 19 -28 Aug LAYCAN

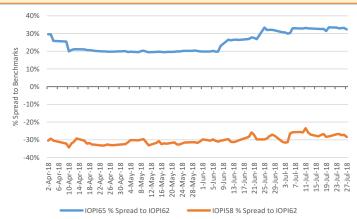
## IRON ORE HIGH/LOW GRADE PREMIUM/DISCOUNT

July 27 2018	PORT STOCK INDEX (RIVIB) WT)				
Fe Content	Spread to IOPI62	% Spread to IOPI62			
58% Fe Fines	-142	-28.46%			
65% Fe Fines	161	32.26%			

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



## IRON ORE HIGH/LOW GRADE PREMIUM/DISCOUNT



## IRON ORE FUTURES CONTRACTS

		DCE		SGX			
Closing Date	2	7 July 3pm clo	se	27 July 6pm			
Contract	11809	Change	Change %	Aug'18	Change	Change %	
Closing Price	491.5	15.5	3.26%	67.35	1.13	1.71%	
Vol traded ('000 lots)	142.39	83.1	140.32%	12.30	4.51	57.97%	
Open positions ('000 lots)	93.32	20.4	27.94%	102.83	6.45	6.69%	
Day Low	485.5	12.0	2.53%	65.66	-0.14	-0.21%	
Day High	491.5	14.5	3.04%	67.47	1.25	1.89%	

## FREIGHT RATES

July 26, 2018			FREIGHT	RATES - DRY BULI	K US\$/wet tonn	e
Route	Designation		Change	Change %	Low <sup>4</sup>	High <sup>4</sup>
W. Australia - Qingdao	C5	9.36	-0.40	-4.10%	5.109	9.98
Tubarao - Qingdao	C3	22.72	-0.26	-1.13%	12.705	22.982

## IRON ORE PORT INVENTORIES

Week Ending July 27, 2018 (million tonnes)										
Province	This week	Change %	Low <sup>4</sup>	High <sup>4</sup>						
Jingtang	17.10	-0.58%	14.11	19.00						
Qingdao	19.00	4.40%	15.60	19.97						
Caofeidian	18.60	-0.11%	16.62	25.30						
Tianjin	9.80	7.69%	8.35	11.00						
Rizhao	17.53	-3.04%	13.10	19.00						
Total (35 Ports)	140.34	0.52%	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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# July 27, 2018



CHINA DOMESTIC COMPOSITE MINES INDEX (RMB/Wet Tonne, including VAT)
640
620
600
E 580
₹ 560 <b>-</b>
540
520 ————
500
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China Domestic Composite Mines Index

IRON ORE BRAND SPOT PRICE ASSESMENTS									
July 27 2018	PORT STOCK INDEX (RMB/WT)								
	Price	Change	Diff to IOPI62						
Roy Hill	483	9	-16						
SIMEC Fines	469	11	-30						
PB Fines	483	7	-16						
Newman Fines	502	6	3						
MAC Fines	484	9	-15						
Jimblebar Blended Fines	450	9	-49						
Carajas Fines	675	5	176						
Brazilian SSF	538	7	39						
Brazilian Blend Fines	530	5	31						
RTX Fines	456	9	-43						

RTX FINES	456	9	-43			
July 27 2018	PORT STOCK INDEX (RMB/WT)					
	Price	Change	Diff to IOPI58			
SSF	291	-1	-66			
FMG Blended Fines	351	1	-6			
Robe River	319	-1	-38			
Western Fines	305	-1	-52			
Atlas Fines	291	-1	-66			
Yandi	351	-1	-6			

## AVERAGE IRON ORE BRAND SPECIFICATIONS FOR PORT STOCK SALES

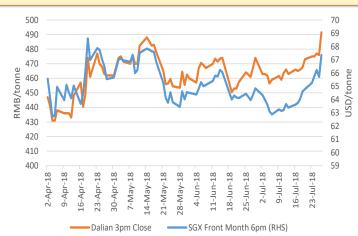
July 27 2018	SPECIFICAT	TIONS APPLI	ED FOR 62%	BRAND ASS	ESSMENTS		
	Fe	Alumina	Silica	Phos	Moisture		
Roy Hill	61.00%	2.20%	4.50%	0.055%	8.00%		
SIMEC Fines	60.00%	2.30%	6.30%	0.060%	6.00%		
PB Fines	61.63%	2.38%	3.63%	0.100%	8.98%		
Newman Fines	62.39%	2.47%	4.14%	0.090%	7.58%		
MAC Fines	60.98%	2.21%	4.75%	0.090%	7.51%		
Jimblebar Blended Fines	61.05%	2.99%	4.47%	0.120%	6.82%		
Carajas Fines	65.43%	1.30%	1.91%	0.050%	8.10%		
Brazilian SSF	62.00%	1.00%	6.50%	0.040%	6.00%		
Brazilian Blend Fines	62.84%	1.39%	4.89%	0.030%	8.70%		
RTX Fines	61.00%	3.10%	4.50%	0.135%	7.50%		
July 27 2018	SPECIFICATIONS APPLIED FOR 58% BRAND ASSESSMENTS						

July 27 2018	SPECIFICATIONS APPLIED FOR 58% BRAND ASSESSMENTS							
	Fe	Alumina	Silica	Phos	Moisture			
SSF	56.51%	3.02%	6.30%	0.050%	9.16%			
FMG Blended Fines	58.33%	2.67%	5.79%	0.070%	7.18%			
Robe River	56.70%	3.10%	5.09%	0.030%	8.74%			
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%			

## TOTAL IRON ORE INVENTORIES AT CHINA PORTS



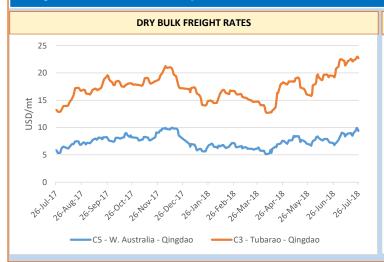
## FUTURE TRADING—FRONT MONTH CLOSING PRICE

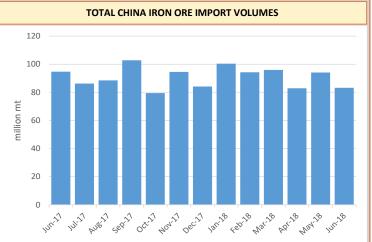


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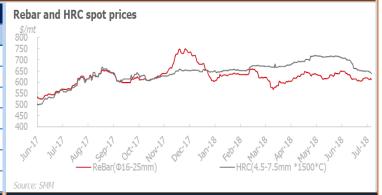
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## **Steel Spot Market Prices - China**

Steel Spot Market RMB/tonne			
Product	7/20/2018	Change	Change %
ReBar HRB400 ¢18mm	4,136.0	4.0	0.10%
Wirerod Q300 ¢6.5mm	4,397.0	-10.0	-0.23%
HRC Q235/SS400 5.5mm*1500*C	4,244.0	-25.0	-0.59%
CRC SPCC/ST12 1.0mm*1250*2500	4,676.0	-4.0	-0.09%
Medium & Heavy Plate Q235B 20mm	4,316.0	-17.0	-0.39%
GI ST02Z 1.0mm*1000*C	5,290.0	-5.0	-0.09%
Billet Q235 150*150mm	3,720.0	20.0	0.54%



Grintese steel ext out thices						
China Export Prices USD/tonne						
Product	Specification	Export tax (+)/Vate rebate (-)		Change		
			7/20/2018			
Rebar	BS4449 460B 12-25mm, + chrome	-13%	580	-30		
Wire Rod	SAE1008 6.5-10mm +chrome	-9%	575	0		
Hot-rolled coil	SS400/Q235 4.0-10.mm	-9%	585	0		
Cold-rolled coil	SPCC 1.0mm	-13%	620	0		
Medium & Heavy plate	A-level Shipe plate 12-25mm	0%	610	-10		
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\*1fbf(1f6-0.8); Calculation formula for converting export prices of wire rod and hot-rolled steel into prices in hina's spot market = FOB\* exchange rate \*1fbf(1f6-0.09); Calculation formula for converting export prices of medium-thick plate into prices in China's spot market = FOB\* exchange rate

#### Steel Inventories3 (unit: 1000 tonnes) **Product** 7/20/2018 7/13/2018 Change Change % Rebar 4,584 4,627 -0.93% Wirerod 1,197 1,218 -1.72% Hot-rolled Coil 2,133 2,086 47 2.25% Medium & Thick Plate 914 916 -2 -0.22% Cold-rolled Coil 1,214 1,210 4 0.33% Total 10.042 10,057 -0.15% -15

**CHINESE STEEL INVENTORIES** 

<sup>3</sup> 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	63.56	1.21	MMi index for 22nd June			
Coke	1,970	-200	2nd grade met coke, Tangshan, incl. tax			
Steel Scrap	2,040	0	steel scrap (6mm) in Zhangjiagang, exl. tax			
Billet Cost	2,698	-85	Q234, incl. tax			
Rebar cost - Blast furnace	2,960	-85	calculated based on theoretical weight, incl. tax			
Rebar profit - Blast furnace	1,000	95	based on Shanghai prices, incl. tax			
Hot-rolled coil cost - Blast furnace	3,025	-85	based on actual w eight, incl. tax			
Hot-rolled coil proft - Blast furnace	1,215	55	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.

 $2. The cost \ refers \ to \ average \ cost \ in \ the \ industry \ based \ on \ SMM's \ survey \ of \ small, \ medium \ and \ large \ mills \ in \ China \ or \ small,$ 

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#### IRON ORE INDEX SPECIFICATIONS, COMPILATION RATIONALE AND DATA EXCLUSIONS

				_		
Iron Ore Index Specifications (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 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	Granular size below 10mm for at least 90% of cargo; maximum of 40% below 150 micron		0 ,	Data Exclusions* Port Index: 0		
Pricing Point	Qingdao Port  b) Loading within 4 weeks, Delivery within 8 weeks  L/C at sight			* Number of price submissions for iron ore indices that were excluded from index calculation today as they were anomalous and could not be verified		
Timing (Seaborne)			within 8 weeks	today as they were anomalous and could not be verified		
Payment Terms						

#### 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/wet tonne)			Differentials to Qingdao Port (RMB/wet tonne)			
	Applicable range Value Change		Port	Value	Change	
	High Grade Fe 60 - 63%	16.00	-2.00	Bayuquan	-10.00	0.00
1% Fe	High Grade Fe 63 - 64%	35.00	0.00	Beilun	5.00	0.00
	High Grade Fe 64 - 65%	65.00	0.00	Caofeidian	-5.00	0.00
	High Grade Fe 65 - 65.5%	65.00	0.00	Dalian	0.00	0.00
	Low Grade Fe	17.00	0.00	Fangcheng	0.00	0.00
1% Alumina	High Fe Grade Al <2.25%	28.00	0.00	Jiangyin	-30.00	0.00
	High Fe Grade Al 2.25-4%	20.00	0.00	Jingtang	-5.00	0.00
	Low Fe Grade	30.00	0.00	Lanshan	0.00	0.00
	High Fe Grade Si <4%	3.00	0.00	Lanqiao	0.00	0.00
1% Silica	High Fe Grade Si <4 - 6.5%	3.00	0.00	Lianyungang	0.00	0.00
	High Fe Grade Si <6.5 - 9%	17.00	0.00	Majishan	0.00	0.00
	Low Fe Grade	21.00	0.00	Nantong	-30.00	0.00
0.01% Phosphorus	High Fe Grade 0.08% <p<0.115%< td=""><td>2.50</td><td>0.00</td><td>Qingdao</td><td>0.00</td><td>0.00</td></p<0.115%<>	2.50	0.00	Qingdao	0.00	0.00
	High Fe grade 0.115% <p<0.15%< td=""><td>3.00</td><td>-1.00</td><td>Rizhao</td><td>0.00</td><td>0.00</td></p<0.15%<>	3.00	-1.00	Rizhao	0.00	0.00
	Low Fe Grade0.08 < P < 0.15%	2.00	0.00	Tianjin	-25.00	0.00

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