

## **Daily Iron Ore Index Report**

May 16, 2018

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

May 16, 2018 FOT Qingdao (inc. 16% VAT), RMB/wet tonne				CFR Qingdao Equivalent (exc. 16% VAT), USD/dry tonne <sup>1</sup>											
Index	Fe Content		Change	Change %	MTD	YTD	Low <sup>2</sup>	High <sup>2</sup>		Change	Change %	MTD	YTD	Low <sup>2</sup>	High <sup>2</sup>
IOPI62	62% Fe Fines	484	7	1.5%	478	480	443	559	67.03	0.76	1.1%	66.27	66.59	61.36	77.89
IOPI58	58% Fe Fines	327	-3	-0.9%	329	325	304	376	43.95	-0.62	-1.4%	44.17	43.8	40.67	50.97
IOPI65	65% Fe Fines	579	8	1.4%	572	592	541	690	81.00	0.86	1.1%	80.18	83.07	75.83	97.10

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

Week Ending May 11, 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	603	0.2%	579	682	94.73	-0.4%	90.96	107.14
Hebei	Qian'an	65% Fe Concentrate	Dry	635	0.0%	630	710	99.75	-0.5%	98.97	111.54
Liaoning	Anshan	65% Fe Concentrate	Wet	455	0.0%	450	550	71.48	-0.5%	70.69	86.40
Shandong	Zibo	65% Fe Concentrate	Dry	655	1.6%	620	690	102.90	1.0%	97.40	108.39
Week Ending May 11, 2018			This week	Change %	Low <sup>2</sup>	High <sup>2</sup>	<sup>1</sup> Exchange rate applied: RMB/USD = 6.3745				
China Mines Composite Index Price, May 2007 = 100			76.57	0.2%	76.01	89.12	<sup>2</sup> Since March 1 <sup>3</sup> Weekly exchange rate applied: RMB/USD 6.3657				

## MARKET COMMENTARY

Market volatility lead to mills dipping in and out of the market, preferring to keep their purchases to small amounts. Transaction prices early this morning maintained the same level over yesterday, although the DCE market dipped in the afternoon. Traders had a preference for high grade material which saw very good demand, happy to close deals at higher levels in order to conclude deals.

## **PLATFORM TRADES AND TENDERS**

61% Fines sold at 66.33 USD/dry tonne for 170,000t 31st May —6 June LAYCAN 61% Fines sold at 66.05 USD/dry tonne for 170,000t 12 -21 June LAYCAN globalORE BRBF transacted at 69.7 USD/dry tonne for 170,000t 13-22 June LAYCAN 61% Fines sold at 66.25 USD/dry tonne for 170,000t 5-14June LAYCAN

## MMI BENCHMARK IRON ORE PRICES



## IRON ORE FUTURES CONTRACTS

		DCE			SGX		
Closing Date	16	May 3pm clo	ose	16 May 6pm			
Contract	11809	Change	Change %	June'18	Change	Change %	
Closing Price	482.5	-3.0	-0.62%	67.65	-0.11	-0.16%	
Vol traded ('000 lots)	2,866.7	-359.0	-11.13%	9.88	-3.00	-23.31%	
Open positions ('000 lots)	1,988.1	-29.2	-1.45%	105.56	2.05	1.98%	
Day Low	479.5	-2.0	-0.42%	67.35	0.02	0.03%	
Day High	490.0	-0.5	-0.10%	68.12	-0.56	-0.82%	

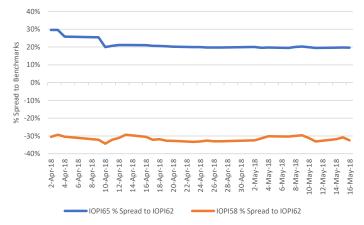
## FREIGHT RATES

May 15, 2018			FREIGHT	RATES - DRY BUL	K US\$/wet tonn	e
Route	Designation		Change	Change %	Low <sup>2</sup>	High <sup>2</sup>
W. Australia - Qingdao	C5	8.42	0.03	0.36%	4.383	9.98
Tubarao - Qingdao	С3	19.06	-0.09	-0.47%	10.796	21.273

## IRON ORE HIGH/LOW GRADE PREMIUM/DISCOUNT

May 16, 2018	PORT STOCK INDEX (RMB/WT)				
Fe Content	Spread to IOPI62	% Spread to IOPI62			
58% Fe Fines	-157	-32.44%			
65% Fe Fines	95	19.63%			

## IRON ORE HIGH/LOW GRADE PREMIUM/DISCOUNT



## **IRON ORE PORT INVENTORIES**

Week Ending May 11, 2018 (million tonnes)									
Province This week Change % Low <sup>2</sup> H									
Jingtang	17.5	0.00%	12.3	19.9					
Qingdao	18.7	-2.09%	15.6	20.0					
Caofeidian	22.6	-3.00%	16.6	25.3					
Tianjin	9.2	-2.13%	8.0	11.3					
Rizhao	19	0.00%	13.1	19.0					
Total (35 Ports)	1/15 3	-0.89%	124	150					

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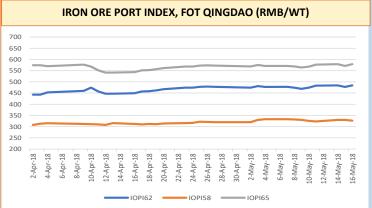
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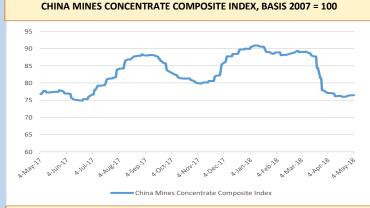
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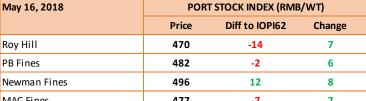


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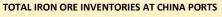
**IRON ORE BRAND SPOT PRICE ASSESMENTS** 

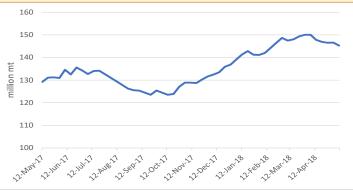


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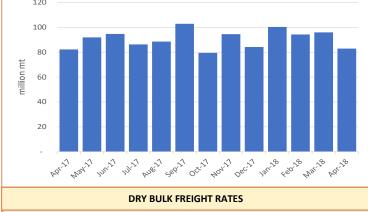
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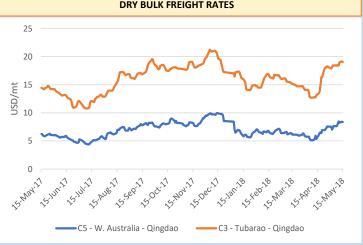
Brazilian Blend Fines

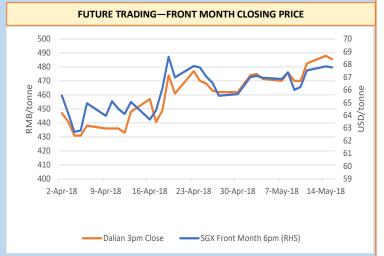












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#### **Daily Iron Ore Index Report** May 16, 2018 STEEL SPOT MARKET—CHINA Steel Spot Market RMB/tonne Product 5/11/2018 Change Change % 5/4/2018 Change Change % ReBar HRB400 ¢18mm 4,036 4,090 -53.6 -1.31% 117 2.93% Wirerod Q300 ¢6.5mm 4,300 -100 -2.27% 4,400 151 3.56% HRC Q235/SS400 5.5mm\*1500\*C 4,196 3 0.06% 4,194 70 1.70% CRC SPCC/ST12 1.0mm\*1250\*2500 4,606 -14 -0.30% 4,620 47 1.03% Medium & Heavy Plate Q235B 20mm 4,553 93 2.09% 4,460 77 1.76% GI ST02Z 1.0mm\*1000\*C 5,305 -20 -0.38% 5,325 25 0.47% Billet Q235 150\*150mm 3,580 -80 -2.19% 3,660 90 2.52%



CHINESE STEEL INVENTORIES										
Steel	Steel Inventories³ (unit: 1000 tonnes)									
Product	5/11/2018	5/4/2018	Change	Change %						
Rebar	6,317	6,823	-506	-7.42%						
Wirerod	1,971	2,101	-130	-6.19%						
Hot-rolled Coil	2,232	2,278	-46	-2.02%						
Medium & Thick Plate	845	854	-9	-1.05%						
Cold-rolled Coil	1,113	1,138	-25	-2.20%						
Total	12,478	13,194	-716	-5.43%						

<sup>&</sup>lt;sup>3</sup> SM M 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 31 major cities.

## CHINESE STEEL MILL PROFITABILITY

SMM Tracking of Steel Mill P&L - Rebar and Hot-rolled Coil (RMB/tonne)								
Category	Price	Change (WoW)	Note					
Iron ore Port Index FOT Qingdao (inc. 17% VAT), I	483	6	MMi index for 11th May 2018					
Coke	1,770	50	2nd grade met coke, Tangshan, incl. tax					
Steel Scrap	2,170	0	steel scrap (6mm) in Zhangjiagang, exl. tax					
Billet Cost	2,596	25	Q234, incl. tax					
Rebar cost - Blast furnace	2,851	23	calculated based on theoretical weight, incl. tax					
Rebar profit - Blast furnace	1,109	-73	based on Shanghai prices, incl. tax					
Hot-rolled coil cost - Blast furnace	2,924	25	based on actual weight, incl. tax					
Hot-rolled coil proft - Blast furnace	1,306	5	based on Shanghai prices, incl. tax					
Note: 1 Costs in the table are calculated based on todays market prices and facout our management, sales, financial and depreciations fees								

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## **CHINESE STEEL EXPORT PRICES**

China Export Prices USD/tonne								
Product	Specification	Export tax (+)/Vate rebate (-)	Latest tran	saction prices	Change			
			5/11/2018	5/4/2018				
Rebar	BS4449 460B 12-25mm, + chrome	-13%	605	600	5			
Wire Rod	SAE1008 6.5-10mm +chrome	-9%	575	565	10			
Hot-rolled coil	SS400/Q235 4.0-10.mm	-9%	605	595	10			
Cold-rolled coil	SPCC 1.0mm	-13%	625	625	0			
Medium & Heavy plate	A-level Shipe plate 12-25mm	0%	620	610	10			
Galvanised	ST02Z/SGCC 1.0mm	-13%	690	690	0			

Note: Calculation formula for converting export prices of rebar, cold-rolled steel and galvanizing into prices in China's spot market = FOB\* exchange rate\*1.16/(1.16-0.13); Calculation formula for converting export prices of wire rod and hot-rolled steel into prices in hina's spot market = FOB\* exchange rate \*1.16/(1.16-0.09); Calculation formula for converting export prices of medium-thick plate into prices in China's spot market = FOB\* exchange rate

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 $<sup>2.</sup> The cost \, refers \, to \, average \, cost \, in \, the \, industry \, based \, on \, SM \, M's \, survey \, of \, small, \, medium \, and \, large \, mills \, in \, China \, industry \, based \, on \, SM \, M's \, survey \, of \, small, \, medium \, and \, large \, mills \, in \, China \, industry \, based \, on \, SM \, M's \, survey \, of \, small, \, medium \, and \, large \, mills \, in \, China \, industry \, based \, on \, SM \, M's \, survey \, of \, small, \, medium \, and \, large \, mills \, in \, China \, industry \, based \, on \, SM \, M's \, survey \, of \, small, \, medium \, and \, large \, mills \, in \, China \, industry \, based \, on \, SM \, M's \, survey \, of \, small, \, medium \, and \, large \, mills \, in \, China \, industry \, based \, on \, SM \, M's \, survey \, of \, small, \, medium \, and \, large \, mills \, in \, China \, industry \, based \, on \, SM \, M's \, survey \, of \, small, \, medium \, and \, large \, mills \, in \, China \, industry \, based \, on \, SM \, M's \, survey \, of \, small, \, medium \, and \, large \, mills \, in \, China \, industry \, based \, on \, SM \, M's \, survey \, of \, small, \, medium \, and \, large \, mills \, in \, China \, industry \, based \, on \, SM \, M's \, survey \, of \, small, \, medium \, and \, based \, on \, SM \, M's \, survey \, on \, SM \, M'$ 



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

	Iron Ore Index Sp	ecifications (Port)						
	65% Fe Fines	62% Fe Fines	58% Fe Fines					
Fe %	65.00	62.00	58.00					
Alumina %	1.40	2.25	2.25					
Silica%	1.50	4.00	5.50					
Phosphorus %	0.06	0.09	0.05					
Sulphur %	0.01	0.02	0.02					
Moisture %	8.00	8.00	9.00					
Sizing		elow 10mm for at lea um of 40% below 150	0 ,					
Location	Qingdao Port							
Timing (Seaborne)	Loading within 4 weeks, Delivery within 8 weeks							
Payment Terms		L/C at sight						

# Iron Ore Index Compilation Rationale and Data Exclusions

MMi iron ore port stock indices are compiled from data provided by companies that are part 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 normalised to the appropriate specifications and screened to remove outliers before volume-weighted average prices are calculated from the remaining core set of data.

For more details on MMi's iron ore methodology please download the guide published on our website at:

#### Data Exclusions\*

Port Index: 0

\* Number of price submissions for iron ore indices that were excluded from index calculations today as they were anomalous and could not be verified

#### 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								
	Content Differentials (RMB/we	Port Differentials	Port Differentials to Qingdao Port RMB/wet tonne						
	Applicable range		Change	Port		Change			
	High Grade Fe 60 - 63%	8.00	0.00	Bayuquan	-10.00	0.00			
	High Grade Fe 63 - 64%	32.00	0.00	Beilun	2.00	0.00			
1% Fe	High Grade Fe 64 - 65%	35.00	0.00	Caofeidian	-5.00	0.00			
	High Grade Fe 65 - 65.5%	35.00	0.00	Dalian	0.00	0.00			
	Low Grade Fe	6.00	0.00	Fangcheng	0.00	0.00			
	High Fe Grade Al <2.25%	12.00	0.00	Jiangyin	-30.00	0.00			
1% Alumina	High Fe Grade Al 2.25-4%	12.50	0.00	Jingtang	-5.00	0.00			
	Low Fe Grade	12.50	0.00	Lanshan	0.00	-3.00			
	High Fe Grade Si <4%	1.00	0.00	Lanqiao	0.00	0.00			
1% Silica	High Fe Grade Si <4 - 6.5%	10.50	0.00	Lianyungang	0.00	0.00			
1% Silica	High Fe Grade Si <6.5 - 9%	25.00	0.00	Majishan	0.00	0.00			
	Low Fe Grade	24.00	0.00	Nantong	-30.00	0.00			
0.01%	High Fe Grade 0.08% <p<0.115%< td=""><td>0.00</td><td>0.00</td><td>Qingdao</td><td>0.00</td><td>0.00</td></p<0.115%<>	0.00	0.00	Qingdao	0.00	0.00			
	High Fe grade 0.115% <p<0.15%< td=""><td>12.50</td><td>0.00</td><td>Rizhao</td><td>0.00</td><td>0.00</td></p<0.15%<>	12.50	0.00	Rizhao	0.00	0.00			
Phosphorus	Low Fe Grade0.08 < P < 0.15%	0.00	0.00	Tianjin	-20.00	0.00			

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