

# MMi Dashboard

#### **Iron Ore Price Indices**





660

-1.05%

February 20th, 2019

Iron Ore Port Stock (FOT Qingdao) IOPI62 65% Fe Fines RMB/t



-0.79%

February 20th, 2019

Iron Port Stock (FOT Qingdao) IOPI58 58% Fe Fines RMB/t



**585** 

0 0.00%

February 20th, 2019

Iron Ore Seaborne (CFR Qingdao) IOSI62 62% Fe Fines USD/dmt



**87.95** 

-0.30 -0.34%

February 20th, 2019

Iron Ore Seaborne (CFR Qingdao) IOSI65 65% Fe Fines USD/dmt



103.70

-0.90 -0.86%

February 20th, 2019

Iron Ore Port Stock (FOT Qingdao) IOPLI 62.5% Fe Lump RMB/t



864

8.41% **67** 

Week Ending February 15th, 2019

# **Exchange Traded Contracts**

DCE Iron Ore 62% Fines 11905 (May) RMB/t



**620** 

-11.50 -1.82%

February 20th, 2019

(3pm close)

SGX Iron Ore (CFR Qingdao) 62% Fe Fines Mar'19 USD/dmt



84.88

-1.04 -1.21%

February 20th, 2019

(6pm Print)

**SHFE Rebar** RB1905 (May) RMB/t



3641

-14.00 -0.38%

February 20th, 2019

(3pm close)

# **Freight Rates**

C3, Tubarao - Qingdao USD/t



February 19th, 2019

**12.99** 

-0.18 -1.38%

C5, W. Australia - Qingdao USD/t



**5.25** 

-0.32 -5.80%

February 19th, 2019

**Steel Price** 

Steel Rebar (China Domestic) RMB/t



3880

0.13%

Week Ending February 15th, 2019

# **Inventory Levels**

Iron Ore Inventory at Chinese Ports (35) million tonnes



132.00

0.03 3.23%

Week Ending February 15th, 2019

Steel Inventory in China million tonnes

**16.15** 

1.59 10.89%

Week Ending February 15th, 2019

**Steel Price** 

Steel HRC (China Domestic) RMB/t

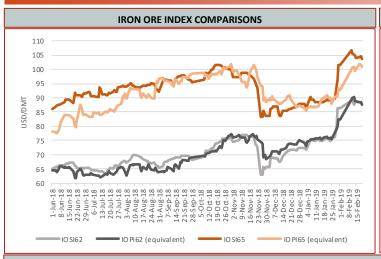


3768

-0.89%

Week Ending February 15th, 2019

February 20th, 2019																
						IRON OF	RE PORT S	TOCK INDEX	X (IOPI)							
February	20th, 2019		FOT Qir	ngdao (i	nc. 16% VA	Γ), RMB/w	et tonne		CFI	R Qingda	o Equ	ivalent	t (exc. 16	% VAT), U	SD/dry to	nne ¹
Index	Fe Content	Price	Change	Change	% MTD	YTD	Low <sup>2</sup>	High <sup>2</sup>	Price	Chang	e Cha	nge %	MTD	YTD	Low <sup>2</sup>	High <sup>2</sup>
IOPI62	62% Fe Fines	660	-7	-1.0%	665	604	443	681	87.66	-0.86	-1	.0%	88.28	79.68	61.36	90.41
IOPI58	58% Fe Fines	585	0	0.0%		481	304	585	77.26	0.10		.1%	73.98	62.63	40.67	77.26
IOPI65	65% Fe Fines	755	-6	-0.8%	6 747	693	541	784	100.84	-0.70	-(	).7%	99.73	91.86	75.83	101.79
		IR	ON ORE SE	ABORNE	INDEX (IOS	l)		MARKET COMMENTARY								
February 2	0th, 2019			CFR Q	ingdao, USD/	dry tonne				_	-			ave been reluctar		
Index	Fe Content	Price	Change	Change	% MTD	YTD	Low <sup>3</sup>	High <sup>3</sup>						ounced their Mar		
IOSI62	62% Fe Fines	87.95	-0.30	-0.3%		80.29	62.95	89.20					ucts may soon fa			
IOSI65	65% Fe Fines	103.70	-0.90	-0.9%	103.90	94.85	83.20	106.85								
								JMP INDEX	(IOPLI)							
	ng February 15th				inc. 16% VAT	-								6 VAT), USD		
Index	Fe Content	Price	W-o-W	Change		YTD	Low <sup>3</sup>	High <sup>3</sup>	Price	W-oV		inge %	MTD	YTD	Low <sup>3</sup>	High <sup>3</sup>
IOPLI62	62.5% Fe Lump	864	67	8.4%		798	565	864	111.02	8.08		.8%	106.98	102.04	76.63	111.02
IRON ORE DOMESTIC CONCENTRATE SPOT PRICE ASSESSMENTS AND COMPOSITE INDEX																
Week Endi	ng February 15	th, 2019				RMB/to	onne (exclu	ding tax) 4				ι	JSD/tonne	(excluding	tax) <sup>4</sup>	
Province	Region	Produc	:	Basis	This week	Chang	e %	Low <sup>2</sup>	High <sup>2</sup>	T	nis wee	k	Change %	Lov	v ²	High <sup>2</sup>
Hebei	Hanxing	66% Fe	Concentrate	Dry	802	13.9	%	579	802		118.53		13.24%	91.	97	118.53
Hebei	Qian'an	65% Fe	Concentrate	Dry	775	3.3%	%	630	815		114.54		2.71%	100	.26	117.34
Liaoning	Anshan	65% Fe	Concentrate	Wet	575	5.5%	%	445	745		84.98		4.87%	68.	21	84.98
Shandong	Zibo		Concentrate	-	860	12.4		620					127.11			
	g February 15th, a		DAMP / NA/T	This v		nge %	Low 5	High <sup>5</sup> 681.52					nce March 1 60 <sup>5</sup> Last 12 mo			
China iviines		-				.0% ./ <b>T</b> \	534.50	681.52	IPON C	DE CEAR	ODNE	INIDEV	CED OIN	SDAO (USI	)/DMT\	
	IKUN	JKE PUK	INDEX, FO	I QINGL	DAO (RMB/V	VI)			IKON	KE SEAD	UKINE	INDEX,	, CFR QIIN	GDAO (USI	וואוטקט	
750 650 550 450							<b></b>									
350		~~~			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			65 55 ——						(m)		
2-Apr-18	1/-Apr-18 2-May-18 17-May-18 1-Jun-18	1-Jul-18 - 16-Jul-18 - 16-Jul-		29-Sep-18	29-04-18 - 29-04-18 - 29-04-18 - 28-Nov-18	13-Dec-18 - 28-Dec-18 - 12-Jan-19 -	27-Jan-19 - 11-Feb-19 -	1-Jun-18	29-Jun-18 - 13-Jul-18 -	27-Jul-18 - 10-Aug-18 -	24-Aug-18 7-Sep-18	21-Sep-18 5-Oct-18	19-0d-18 -	30 Nov-18 - 30 Nov-18 - 14-per-18 -	28-Dec-18 - 11-Jan-19 -	25-Jan-19 8-Feb-19
						/ INIDEN NA	ONTINY (	NIA DTEDIA	AND VEA	. TO DA	FF A\/F					
C-L	2016 2010				PORT STOCK			QUARTERLY						0/ \/AT\   I	·D / d	1
	20th, 2019				inc. 16% VA								•	% VAT), US	•	
Index IOPI62	Fe Content 62% Fe Fines	564	564	Decema 559	per January 580	MTD 665	<b>QTD</b> 604	<b>YTD</b> 604	October 63.41	65.25		<b>ember</b> 2.55	76.16	MTD 88.28	<b>QTD</b> 79.68	<b>YTD</b> 79.68
IOPI58	58% Fe Fines	401	401	392	448	762	481	481	44.86	45.84		0.47	57.99	73.98	62.63	62.63
IOPI65	65% Fe Fines	760	760	681	670	747	693	693	85.29	92.13		9.05	88.65	99.73	91.86	91.86
IROI	N ORE SEABOR	RNE INDE	X MONTHL	Y, QUAR	TERLY AND	YEAR-TO-D	OATE AVER	RAGES				FR	EIGHT RA	TES		
February 2	Oth, 2019			CFR C	Qingdao, USD/	dry tonne			February 19t	h, 2019			FREIGHT R	ATES - DRY BU	LK US\$/wet to	onne
Index	Fe Content	October	November	Decemb	er January	MTD	QTD	YTD	Route	D	esignation		Change	Change %	Low 5	High <sup>5</sup>
IOSI62	62% Fe Fines	72.31	72.91	69.96	•	88.00	80.29	80.29	W. Australia -	Qingdao	C5	5.25	-0.32	-5.80%	4.814	10.002
IOSI65	65% Fe Fines	98.97	94.05	85.95	89.92	103.90	94.85	94.85	Tubarao - Qing	gdao	С3	12.99	-0.18	-1.38%	12.705	24.760
			IRC	ON ORE	PORT LUMP	INDEX MO	ONTHLY, Q	UARTERLY	AND YEAR	-TO-DAT	E AVEI	RAGES				
Week Endin	g February 15th,		FOT	Qingdao	(inc. 16% VAT	), RMB/wet	t tonne	CFR Qingdao Equivalent (exc. 16% VAT), USD/dry tonne <sup>1</sup>						1		
Index	Fe Content	Octobe			ber January	MTD	QTD	YTD				QTD	YTD			
IOPLI62	62.5% Fe Lump	720	771	749	•	831	798	798	89.65	96.23		4.22	99.57	106.98	102.04	102.04
						RON ORE	INDEX PRE	MIUMS/DI	ISCOUNTS							
February 20	0th, 2019			PORT S	TOCK INDEX (R			February 20					SEABOR	NE INDEX (U	SD/DMT)	
, -	Fe Content		Spread	to IOPI62		% Spread to I	IOPI62	1	Fe Content			Sprea	d to IOSI62	,	% Spread to	iOSI62
	58% Fe Fines 65% Fe Fines			-75 95		-11.36% 14.39%			65% Fe Fines	i			16		17.91	%

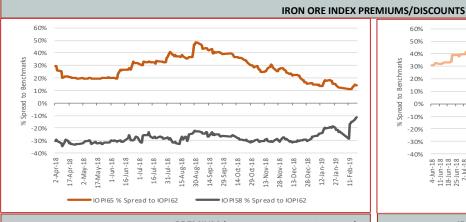




		IRC	ON ORE BRAND SP	OT PRICE ASSESMENTS						
February 20th, 2019	PORT	STOCK INDEX (R	MB/WT)	February 20th, 2019	SEABO	SEABORNE INDEX (USD/DMT)				
	Price	Change	Diff to IOPI62		Price	Change	Diff to IOSI62			
Roy Hill	633	-7	-27	Roy Hill	81.56	0.35	-6.39			
SIMEC Fines	609	-7	-51	SIMEC Fines	76.84	0.70	-11.11			
PB Fines	640	-7	-20	PB Fines	86.36	-0.30	-1.59			
Newman Fines	671	-7	11	Newman Fines	90.64	-0.70	2.69			
MAC Fines	634	-7	-26	MAC Fines	80.19	0.20	-7.76			
Jimblebar Blended Fines	601	-7	-59	Jimblebar Blended Fines	73.21	0.20	-14.74			
Carajas Fines	768	-6	108	Carajas Fines	103.56	-1.85	15.61			
Brazilian SSF	668	-7	8	Brazilian SSF	87.64	-0.30	-0.31			
Brazilian Blend Fines	667	-7	7	Brazilian Blend Fines	90.39	-0.55	2.44			
RTX Fines	607	-9	-53	RTX Fines	75.81	0.20	-12.14			

February 20th, 2019	PORT	STOCK INDEX (R	MB/WT)
	Price	Change	Diff to IOPI58
SSF	511	-5	-74
FMG Blended Fines	583	-2	-2
Robe River	532	-3	-53
Western Fines	522	-4	-63
Atlas Fines	520	-1	-65
Yandi	600	0	15

				IRON ORE II	NDEX NORMA	LISATION DIFFER	ENTIALS						
Port	Stock Index	Product Differ	entials (R	MB/wet tonne	)	Seaborne Index Product Differentials (UDS/dry tonne)							
	Арг	olicable range		Value	Change		А	pplicable ran	ge	Value	Change		
	High Grade	Fe 60 - 63%		13.00	0.00		High Grad	de Fe 60 - 639	%	3.75	-0.50		
	High Grade	Fe 63 - 64%		23.00	0.00		High Grad	High Grade Fe 63 - 64%		2.75	-0.50		
1% Fe	High Grade	Fe 64 - 65%		23.00	0.00	1% Fe	High Grad	de Fe 64 - 659	%	2.75	-0.50		
	High Grade	Fe 65 - 65.5%		23.00	0.00		High Grad	High Grade Fe 65 - 65.5%		2.75	-0.50		
	Low Grade Fe			20.00	0.00								
	High Fe Gra	ide Al <2.25%		27.00	0.00		High Fe G	rade Al <2.25	5%	2.75	0.00		
1% Alumina	High Fe Gra	de Al 2.25-4%		20.00	0.00	10/ 11	High Fe G	rade Al 2.25-	-4%	3.25	0.00		
	Low Fe Gra	de Al <2.25%		57.00	0.00	1% Alumina							
	Low Fe Gra	de Al 2.25-4%		35.00	5.00								
	High Fe Gra	ide Si <4%		5.00	0.00		High Fe G	rade Si <4%		1.75	0.00		
1% Silica	High Fe Gra	de Si 4-6.5%		16.00	0.00	1% Silica	High Fe G	rade Si 4 - 6.	5%	1.50	0.00		
	Low Fe Gra	de		18.00	0.00								
0.040/	High Fe Gra	nde 0.09% <p<0< td=""><td>.115%</td><td>5.00</td><td>0.00</td><td>0.01%</td><td>High Fe G</td><td>rade 0.09%&lt;</td><td>P&lt;0.115%</td><td>0.75</td><td>0.00</td></p<0<>	.115%	5.00	0.00	0.01%	High Fe G	rade 0.09%<	P<0.115%	0.75	0.00		
0.01%	High Fe Gra	nde 0.115% <p<< td=""><td>0.15%</td><td>3.00</td><td>1.00</td><td>Phosphorus</td><td>High Fe G</td><td>rade 0.115%</td><td><p<0.15%< td=""><td>1.50</td><td>0.00</td></p<0.15%<></td></p<<>	0.15%	3.00	1.00	Phosphorus	High Fe G	rade 0.115%	<p<0.15%< td=""><td>1.50</td><td>0.00</td></p<0.15%<>	1.50	0.00		
Phosphorus	Low Fe Gra	de 0.09 <p<0.19< td=""><td>%</td><td>3.00</td><td>1.00</td><td></td><td></td><td></td><td></td><td></td><td></td></p<0.19<>	%	3.00	1.00								
			Port 9	Stock Price Differe	ntials to Qingd	ao Port for PB Fine	s (RMB/wet t	onne)					
Port	Value	Change	Port	. Value	Change	Port	Value	Change	Port	Value	Change		
Bayuquan	-35.00	0.00	Fangcher	ng -5.00	0.00	Lanshan	0.00	0.00	Qingdao	0.00	0.00		
Beilun	5.00	0.00	Jiangyin	-15.00	0.00	Lianyungang	0.00	0.00	Rizhao	0.00	0.00		
Caofeidian	0.00	5.00	Jingtang	0.00	5.00	Majishan	0.00	0.00	Shekou	0.00	0.00		
Dalian	-15.00	0.00	Lanqiao	0.00	0.00	Nantong	-15.00	0.00	Tianjin	-15.00	0.00		

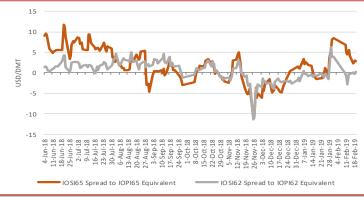




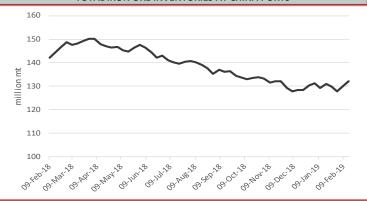
## WEEKLY IRON ORE PORT STOCK LUMP PREMIUM (62.5% FE LUMP—62% FE FINES)



# IRON ORE SEABORNE TO PORT STOCK SPREADS



## TOTAL IRON ORE INVENTORIES AT CHINA PORTS



				FU	τυ	RE	TR	٩D	ING	i—I	FRC	ראכ	ΓN	101	NTH	ı CI	.os	IN	G P	RIC	Œ				
	650																						4	93	
	600																					ſ	יע	88	
Je L	550																						r	83	e
RMB/tonne	550														, l	n.	<b>\</b>				r	1		78	JSD/tonne
RMB	500				_					J.	η,		*	ل	7		Ч		7	/ر	dı	ν		73	USD,
	450	8.0	1		1	~	V	٨	م	7	h	ال	~~					<b>Y</b>	אל					68	
		F					-	~										~						63	
	400	18	- 81	- 81	- 81	- 81	- 81	- 00	- 00	- 00	- 8	- 81							- 81	- 81	- 61	- 61	- 61	58	
		5-Apr-18	20-Apr-18	5-May-18	20-May-18	Jun-	19-Jun-18	-Ju-	19-Jul-18	3-Aug-18	18-Aug-18	2-Sep-18	17-Sep-18	2-0ct-18	17-0ct-18	1-Nov-18	16-Nov-18	1-Dec-18	16-Dec-18	31-Dec-18	15-Jan-19	30-Jan-19	14-Feb-19		
		5	20-	2-I	20-I	4	19	4	19	5	18-	7-	17-	-5	17-	4	16-	+	16-	31-	15	30	14-		
				-		Dal	ian :	3pn	n Clo	ose		_	— s	GX	Fror	nt M	lont	h 6	om	(RH	S)				

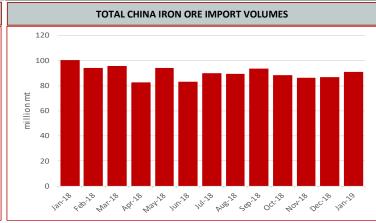
# IRON ORE PORT INVENTORIES

Week Ending February 15th, 2019 (million tonnes)											
Province	This week	Change %	Low <sup>4</sup>	High <sup>4</sup>							
Jingtang	14.57	3.85%	13.29	19.00							
Qingdao	18.00	5.88%	16.09	19.97							
Caofeidian	16.80	3.07%	16.30	25.30							
Tianjin	9.30	2.76%	8.50	11.00							
Rizhao	15.95	6.33%	14.00	19.00							
Total (35 Ports)	132.00	3.23%	127.72	150.04							

			DCE			SGX	
	Closing Date	20	h Feb 3pm cl	ose		20th Feb 6 pr	n
	Contract	11905	Change	Change %	Mar'19	Change	Change %
	Closing Price	619.5	-11.5	-1.82%	84.88	-1.04	-1.21%
	Vol traded ('000 lots)	237.51	100.5	73.35%	12.38	3.41	38.08%
	Open positions ('000 lots)	115.61	-4.7	-3.88%	121.99	2.80	2.35%
	Day Low	614.0	-14.0	-2.23%	83.87	-1.90	-2.22%
1	Day High	636.0	-1.0	-0.16%	85.55	-1.57	-1.80%

**IRON ORE FUTURES CONTRACTS** 

# DRY BULK F REIGHT RATES 30 25 20 15 10 5 0 Reference for the first figure for the figu



## STEEL SPOT MARKET PRICES—CHINA

Steel Spot Market RMB/tonne			
Product	15/2/2019	Change	Change %
ReBar HRB400 ¢18mm	3,880.0	5	0.13%
Wirerod Q300 ¢6.5mm	3,976.0	36	0.91%
HRC Q235/SS400 5.5mm*1500*C	3,768.0	-34	-0.89%
CRC SPCC/ST12 1.0mm*1250*2500	4,276.0	33	0.78%
Medium & Heavy Plate Q235B 20mm	3,966.0	40	1.02%
GI ST02Z 1.0mm*1000*C	4,630.0	50	1.09%
Billet Q235 150*150mm	3,390.0	-40	-1.17%



CHINESE STEEL EXPORT PRICES										
China Export Prices USD/tonne										
Product	Specification	Export tax (+)/Vate rebate (-)		Change						
			15/2/2019							
Rebar	BS4449 460B 12-25mm, + chrome	-13%	525	40						
Wire Rod	SAE1008 6.5-10mm +chrome	-9%	535	40						
Hot-rolled coil	SS400/Q235 4.0-10.mm	-9%	525	30						
Cold-rolled coil	SPCC 1.0mm	-13%	565	30						
Medium & Heavy plate	A-level Shipe plate 12-25mm	0%	530	30						
Galvanised	ST02Z/SGCC 1.0mm	-13%	580	30						

CHINESE STEEL EVENDT DRICES

Note: Calculation formula for converting export prices of rebar, cold-rolled steel and galvanizing into prices in China's spot market = FOB\* exchange rate\*1.6/(1.6-0.3); Calculation formula for converting export prices of wire rod and hot-rolled steel into prices in hina's spot market = FOB\* exchange rate \*1.6/(1.6-0.0.9); Calculation formula for converting export prices of medium-thick plate into prices in China's spot market = FOB\* exchange rate

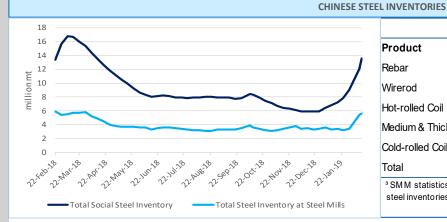


## **CHINESE STEEL MILL PROFITABILITY**

SMM Tracking of	Steel Mill P8	L - Rebar and Ho	t-rolled Coil (RMB/tonne)
Category	Price	Change (WoW)	Note
MMi (Fe 62%), USD/mt exluding tax	88.68	12.52	Mmi CFR Equivalent index for 1st Feb
Coke	1,970	0	2nd grade met coke, Tangshan, incl. tax
Steel Scrap	2,210	0	steel scrap (6mm) in Zhangjiagang, exl. tax
Billet Cost	3,017	145	Q234, incl. tax
Rebar cost - Blast furnace	3,272	146	calculated based on theoretical w eight, incl. tax
Rebar profit - Blast furnace	488	-136	based on Shanghai prices, incl. tax
Hot-rolled coil cost - Blast furnace	3,342	145	based on actual w eight, incl. tax
Hot-rolled coil proft - Blast furnace	368	-215	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



Steel Inver	ntories³ (unit:	1000 tonnes	;)	
Product	15/2/2019	7/2/2019	Change	Change %
Rebar	8,304	7,206	1,098	15.24%
Wirerod	2,725	2,394	331	13.83%
Hot-rolled Coil	2,588	2,508	80	3.19%
Medium & Thick Plate	1,321	1,281	40	3.12%
Cold-rolled Coil	1,081	1,176	-95	-8.08%
Total	16,151	14,565	1,586	10.89%

<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.

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

	IRON ORE INDEX SPECIFICATIONS, COMPILATION RATIONALE AND DATA EXCLUSIONS												
	Iron Ore	Index Specifications	(Port and Seaborne		Iron Ore Index Compilation Rational and Data Exclusions								
	65% Fe Fines	62% Fe Fines	58% Fe Fines	62.5% Fe Lump	MMi iron ore indice	es are compiled from	data provided by cor	mpanies that are					
Fe %	65.00	65 UU 67 UU 58 UU   67 5U					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						
Alumina %	1.40	2.25	2.25	1.50	these companies. This data is normalised to the appropriate specification								
Silica%	1.50	1.50 4.00 5.50 3.50 screened to remove outliers before volume-weighted average prices a calculated from the remaining core set of data.						e prices are					
Phosphorus %	0.06	0.09	0.05	0.08	For more details on MMi's iron ore methodology please download the guide								
Sulphur %	0.01	0.02	0.02	0.02	published on our website at: www.mmiprices.com								
Moisture %	8.00	8.00	9.00	4.00									
	Granular size be	elow 10mm for at lea	ist 90% of cargo:	Size below 6.3mm max 15%		Data Exc	clusions*	65%					
Sizing		ım of 40% below 150	•	Size above 31.15mm max 25%			0						
Pricing Point	Qingdao Port (FOT and CFR respectively)		spectively)	FOT Qingdao Port	Lump Index 62.5 0								
Timing (Seaborne)	(Seaborne) Loading within 4 weeks, Delivery within 8 weeks			Delivery within 2 weeks		submissions for iron o							
Payment Terms L/C at sight L/C at sight or CAD					iot be veriiled								

#### 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.

AVERAGE IRON ORE SPECIFICATIONS APPLIED FOR BRAND PRICE ASSESSMENTS													
PORT STOCK BRANDS						SEABORNE BRANDS							
February 20th, 2019	SPECIFICATIONS APPLIED FOR 62% BRAND ASSESSMENTS						SPECIFICATIONS APPLIED FOR 62% BRAND ASSESSMENTS						
	Fe	Alumina	Silica	Phos	Moisture		Fe	Alumina	Silica	Phos	Moisture		
Roy Hill	60.76%	2.35%	4.31%	0.057%	8.58%	Roy Hill	60.70%	2.30%	4.90%	0.055%	8.00%		
SIMEC Fines	60.00%	2.30%	6.30%	0.060%	6.00%	SIMEC Fines	60.00%	2.30%	6.30%	0.060%	6.00%		
PB Fines	61.66%	2.39%	3.55%	0.101%	9.31%	PB Fines 62%	62.00%	2.60%	4.30%	0.090%	10.00%		
Newman Fines	62.67%	2.18%	4.16%	0.088%	7.63%	Newman Fines	62.80%	2.20%	4.30%	0.080%	6.40%		
MAC Fines	60.87%	2.22%	4.87%	0.082%	7.43%	MAC Fines	61.00%	2.70%	4.70%	0.110%	9.30%		
Jimblebar Blended Fines	61.12%	3.03%	4.30%	0.120%	6.98%	Jimblebar Blended Fines	61.79%	2.67%	4.08%	0.115%	7.16%		
Carajas Fines	65.41%	1.24%	1.54%	0.068%	8.07%	Carajas Fines	65.10%	1.50%	1.70%	0.080%	8.50%		
Brazilian SSF	62.00%	1.00%	6.50%	0.040%	6.00%	Brazilian SSF	62.00%	1.00%	6.50%	0.040%	6.00%		
Brazilian Blend Fines	62.65%	1.76%	4.75%	0.070%	8.34%	Brazilian Blend Fines	62.50%	1.50%	5.00%	0.070%	7.00%		
RTX Fines	61.00%	3.10%	4.50%	0.135%	7.50%	RTX Fines	61.00%	3.10%	4.50%	0.135%	7.50%		
February 20th, 2019	SPECIFICATIONS APPLIED FOR 58% BRAND ASSESSMENTS												
	Fe	Alumina	Silica	Phos	Moisture								
SSF	56.58%	3.18%	6.21%	0.052%	9.03%								
FMG Blended Fines	58.18%	2.65%	5.53%	0.059%	7.56%								
Robe River	56.64%	2.91%	5.58%	0.035%	9.29%								
Western Fines	58.00%	3.08%	7.84%	0.070%	7.52%								
Atlas Fines	56.59%	2.55%	7.14%	0.080%	8.46%								
Yandi	57.19%	1.39%	6.57%	0.039%	8.85%								

BLOOMBERG TICKERS										
PORT STOCK INDICES										
	FOT Qingdao (RMB/wet tonne)	CFR Qingdao Equivalent (USD/dry tonne)								
IOPI62	IRCNQ001	IRCNQ004								
IOPI58	IRCNQ002	IRCNQ005								
IOPI65	IRCNQ003	IRCNQ006								

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