

# MMi Dashboard

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

Iron Ore Port Stock (FOT Qingdao) IOPI62 62% Fe Fines RMB/t

631

0 0.00%

February 28th, 2019

Iron Ore Port Stock (FOT Qingdao) IOPI65 65% Fe Fines RMB/t



700

1 0.14%

February 28th, 2019

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



-10 -1.75%

February 28th, 2019

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



**85.15** 

0.55 0.65%

February 28th, 2019

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



96.65

0.05 0.05%

February 28th, 2019

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



865

1 0.12%

Week Ending February 22nd, 2019

### **Exchange Traded Contracts**

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



609.50

16.50 2.78%

February 28th, 2019

(3pm close)

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



82.97

1.25 1.53%

February 28th, 2019

(6pm Print)

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



3750

35.00 0.94%

February 28th, 2019

(3pm close)

## **Freight Rates**

C3, Tubarao - Qingdao USD/t



**12.60** 

-0.19 -1.49%

February 27th, 2019

C5, W. Australia - Qingdao USD/t



4.99

-0.07 -1.44%

February 27th, 2019

Steel Rebar (China Domestic) RMB/t

**Steel Price** 



3855

-0.64%

Week Ending February 22nd, 2019

# **Inventory Levels**

Iron Ore Inventory at Chinese Ports (35) million tonnes



132.32

0.32 0.24%

Week Ending February 22nd, 2019

Steel Inventory in China

million tonnes



**17.96** 

1.81 11.23%

Week Ending February 22nd, 2019

# **Steel Price**

Steel HRC (China Domestic) RMB/t

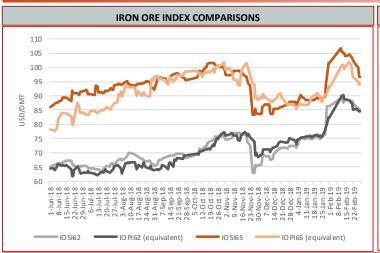


3802

34 0.90%

Week Ending February 22nd, 2019

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						IRON OR	E PORT S	TOCK INDE	X (IOPI)							
February 28th, 2019 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 9	6 February	YTD	Low <sup>2</sup>	High <sup>2</sup>	Price	Change	e Chan	ge %	February	y YTD	Low <sup>2</sup>	High <sup>2</sup>
IOPI62	62% Fe Fines	631	0	0.0%	654	610	443	681	84.46	-0.05	-0.	1%	87.09	80.59	61.36	90.41
OPI58	58% Fe Fines	563	-10	-1.7%	569	497	304	588	74.93	-1.45		9%	75.22	64.98	40.67	78.17
OPI65	65% Fe Fines	700	1	0.1%	733	696	541	784	94.12	0.08	0.:	1%	98.08	92.47	75.83	101.79
		IR	ON ORE SE	ABORNE II	NDEX (IOSI	)					M	IARKE	T COMM	IENTARY		
February 2	8th, 2019			CFR Qin	gdao, USD/c	lry tonne								expected to arrive a vious week, SMM d		
Index	Fe Content	Price	Change	•	February	YTD	Low <sup>3</sup>	High <sup>3</sup>						II as at some ports a xpected to grow by		
IOSI62	62% Fe Fines	85.15	0.55	0.7%	87.39	81.17	62.95	89.20		l million mt. Iro cross Australia		-		ely to expand by 810 1.	0,000 mt to 7.2	million mt.
IOSI65	65% Fe Fines	96.65	0.05	0.1%	102.56	95.61	83.20	106.85	. (							
Neek Endin	g February							JMP INDEX	(IOPLI)							1
22nd, 2019					c. 16% VAT),			3						% VAT), USD/		
Index	Fe Content	Price	W-o-W	•	February	YTD	Low <sup>3</sup>	High <sup>3</sup>	Price	W-oW		-	February		Low <sup>3</sup>	High <sup>3</sup> 111.93
IOPLI62	62.5% Fe Lump	865	1	0.1%	842	808	565	865	111.93	0.91	0.8		108.63	103.45	76.63	111.93
Week Ending February 22nd, 2019  IRON ORE DOMESTIC CONCENTRATE SPOT PRICE ASSESSMENTS AND COMPOSITE INDEX  Week Ending February 22nd, 2019  RMB/tonne (excluding tax) 4  USD/tonne (excluding tax) 4																
		<u> </u>			-1.									e (excluding to		
Province	Region	Product			This week	Change		Low <sup>2</sup>	High <sup>2</sup>		is week		Change %			High <sup>2</sup>
Hebei	Hanxing		Concentrate	'	788	-1.7%		579	802		116.83		-1.43%	91.9		118.53
Hebei	Qian'an Anshan		Concentrate Concentrate	'	775 595	0.0% 3.5%		630 445	815 745		14.91 88.22		0.32% 3.81%	100.2 68.2		117.34 88.22
Liaoning Shandong	Zibo				840	-2.3%		620	860		24.54		-2.02%	99.7		127.11
Shandong         Zibo         65% Fe Concentrate         Dry         840         -2.3%         620         860         124.54         -2.02%         99.75           Week Ending February 22nd, 2019         This week         Change %         Low 5         High 5         1 Exchange rate applied: RMB/USD = 6.6901         2 Since March 1         3 Since June 1								127.11								
	Concentrate Con		ex RMB/WT	685.8			534.50	685.87		change rate app						
	IRON C	ORE PORT	Γ INDEX, FO	T QINGDA	O (RMB/W	/T)			IRON C	RE SEABO	ORNE II	NDEX,	CFR QIN	GDAO (USD	/DMT)	
850	IRON ORE PORT INDEX, FOT QINGDAO (RMB/WT)  IRON ORE SEABORNE INDEX, CFR QINGDAO (USD/DMT)  115															
750 ——				~~~	<b>\</b>		~	105					_			_^
650 ——			h-1-		ا لم	~~~		95 —			<b>~</b>	<b>→</b>		<b>\</b>	A	
550	~~~	<b>1</b>		Manage Market	~~~	كسبهم		85						P~~		
450 🙏		~~~	~~~~					75		~~		~	للمر	7~	مسر	
350 —		~~	~~~		~~			55								
250	0 00 00 00 0	0 00 00	80 80 80 8	00 00 00 0	80 80 80 60			45								
2-Apr-18	2-May-18 2-May-18 17-May-18 1-Jun-18	1-Jul-18 16-Jul-18	31-Jul-18 15-Aug-18 30-Aug-18	14-Sep-18 29-Sep-18 14-Oα-18	29-0¢-18 13-Nov-18 28-Nov-18 13-Nor-18	28-Dec-18 12-Jan-19 27-Jan-19	11-Feb-19 26-Feb-19	1-Jun-18	29-Jun-18 13-Jul-18	27-Jul-18 10-Aug-18 24-Aug-18	7-Sep-18	21-5ep-18 5-0ct-18	19-0 <i>d</i> -18 2-Nov-18	16-Nov-18 30-Nov-18 14-Dec-18	28-Dec-18 11-Jan-19 25-Jan-19	8-Feb-19 22-Feb-19
2 7	2- 2- 17-1 17-1					28 28 12 27	11.	4 1	29- 13	27 10-, 24-,		-17	19-	30-1	28- 11- 25-	8-
	•	IO P	162 — 1	O PI 58	O PI 65						10	O SIG 2	IO	SI65		
			IR	ON ORE P	ORT STOCK	INDEX MO	NTHLY, C	QUARTERLY	AND YEA	R-TO-DAT	E AVER	AGES				
February	28th, 2019		FOT Qi	ingdao (in	c. 16% VAT	T), RMB/we	et tonne		CF	R Qingda	o Equi	valent	t (exc. 16	5% VAT), US	D/dry ton	ne 1
Index	Fe Content	Octobe	r Novembe	rDecembe	r January	February	QTD	YTD	October	Novemb	erDece	mber	January	February	QTD	YTD
IOPI62	62% Fe Fines	564	564	559	580	654	610	610	63.41	65.25	72.		76.16	87.09	80.59	80.59
IOPIS8	58% Fe Fines	401	401	392	448	569	497	497	44.86	45.84	50.		57.99	75.22	64.98	64.98
IOPI65	65% Fe Fines	760	760	681	670	733	696	696	85.29	92.13	99.		88.65	98.08	92.47	92.47
	N ORE SEABOR	KNE INDE	X WONTHL	• •			AIE AVER	AGES				FKI	EIGHT RA			
February 2		00+-1	Na		ngdao, USD/o	-	075	VTS	February 27		signation			Change %		
Index IOSI62	Fe Content 62% Fe Fines	72.31	November 72.91	r <b>December</b> 69.96	76.09	February 87.39	<b>QTD</b> 81.17	<b>YTD</b> 81.17	Route W. Australia -		c5	4.99	Change	Change %	Low 5 4.814	High <sup>5</sup>
IOSI62 IOSI65	65% Fe Fines	98.97	94.05	85.95	76.09 89.92	102.56	95.61	95.61	Tubarao - Qin	-	СЗ	12.60	-0.19	-1.49%	12.595	24.760
					ORT LUMP											
Week Endin	g February				nc. 16% VAT)								t (exc 16	% VAT), USD/	dry tonne	, 1
22nd, 2019 Index	Fe Content	October	Novembe			February	QTD	YTD	October	Novemb			-		QTD	YTD
IOPLI62	62.5% Fe Lump	720	771	749	782	842	798	808	89.65	96.21		.22	99.57	108.63	102.04	103.45
										2 3.21	31					
IRON ORE INDEX PREMIUMS/DISCOUNTS													CEADO			
February 28	8th. 2019			PORT STO	CK INDEX (BV	/IB/W/TI		February 79	8th. 2019					KMF IMDEX UTC	D/DMT\	
February 28	Sth, 2019 Fe Content		Spread	PORT STO	OCK INDEX (RN	ИВ/WT) 6 Spread to IC	DPI62	February 28	8th, 2019 Fe Content			Sprea	d to IOSI62	RNE INDEX (US	D/DMT) % Spread to	o IOSI62
								February 28				Sprea				

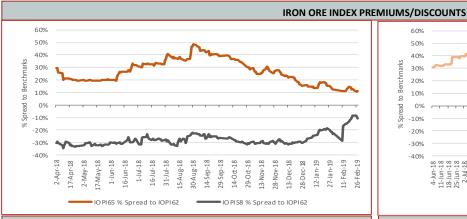




	IRON ORE BRAND SPOT PRICE ASSESMENTS											
February 28th, 2019	PORT	STOCK INDEX (R	MB/WT)	February 28th, 2019	SEABO	ORNE INDEX (US	D/DMT)					
	Price	Change	Diff to IOPI62		Price	Change	Diff to IOSI62					
Roy Hill	608	0	-23	Roy Hill	79.94	1.13	-5.21					
SIMEC Fines	581	0	-50	SIMEC Fines	76.26	1.65	-8.89					
PB Fines	616	0	-15	PB Fines	84.24	0.80	-0.91					
Newman Fines	644	-5	13	Newman Fines	87.52	0.41	2.37					
MAC Fines	607	0	-24	MAC Fines	80.41	1.20	-4.74					
Jimblebar Blended Fines	584	0	-47	Jimblebar Blended Fines	76.26	1.77	-8.89					
Carajas Fines	710	0	79	Carajas Fines	95.97	-0.47	10.82					
Brazilian SSF	619	0	-12	Brazilian SSF	84.52	0.86	-0.63					
Brazilian Blend Fines	628	0	-3	Brazilian Blend Fines	86.90	0.49	1.75					
RTX Fines	593	0	-38	RTX Fines	77.91	1.35	-7.24					

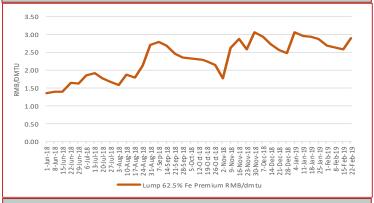
February 28th, 2019	PORT	PORT STOCK INDEX (RMB/WT)						
	Price	Change	Diff to IOPI58					
SSF	492	-10	-71					
FMG Blended Fines	563	-11	0					
Robe River	512	-10	-51					
Western Fines	497	-10	-66					
Atlas Fines	496	-11	-67					
Yandi	564	-14	1					

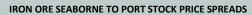
				IRON ORE IN	DEX NORMA	ALISATION DIFFER	ENTIALS				
Por	t Stock Index	Product Differ	entials (R	MB/wet tonne	)	Se	aborne Inde	x Product Di	fferentials (I	JDS/dry tonne	)
	Арі	plicable range		Value	Change		А	pplicable ran	ge	Value	Change
	High Grade	e Fe 60 - 63%		10.00	0.00		High Grad	de Fe 60 - 63	%	3.25	-0.25
	High Grade	e Fe 63 - 64%		20.00	0.00		High Grad	High Grade Fe 63 - 64% High Grade Fe 64 - 65%		2.25	0.00
1% Fe	High Grade	e Fe 64 - 65%		20.00	0.00	1% Fe	High Grad			2.25	0.00
	High Grade Fe 65 - 65.5%			20.00 0.00		High Grade Fe 65 - 65.5%		.5%	2.25	0.00	
	Low Grade	Grade Fe		19.00	0.00						
	High Fe Gra	ade Al <2.25%		16.00	0.00		High Fe G	rade Al <2.25	5%	1.50	-0.25
40/ 41	High Fe Gra	ade Al 2.25-4%		15.00	0.00	404.41	High Fe G	rade Al 2.25	-4%	1.75	-0.50
1% Alumina	Low Fe Gra	de Al <2.25%		45.00	-5.00	1% Alumina					
	Low Fe Gra	de Al 2.25-4%		33.00	0.00						
	High Fe Gra	ade Si <4%		2.00	0.00		High Fe G	rade Si <4%		0.75	-0.25
1% Silica	High Fe Gra	ade Si 4-6.5%		18.00	0.00	1% Silica	High Fe Grade Si 4 - 6.5%		5%	1.00	-0.25
	Low Fe Gra	Low Fe Grade		20.00	0.00						
0.010/	High Fe Gra	ade 0.09% <p<0< td=""><td>.115%</td><td>2.00</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>0.00</td><td>0.00</td></p<0<>	.115%	2.00	0.00	0.01%	High Fe G	rade 0.09%<	P<0.115%	0.00	0.00
0.01%	High Fe Gra	ade 0.115% <p<< td=""><td>0.15%</td><td>2.00</td><td>0.00</td><td>Phosphorus</td><td>High Fe G</td><td>rade 0.115%</td><td><p<0.15%< td=""><td>1.00</td><td>0.00</td></p<0.15%<></td></p<<>	0.15%	2.00	0.00	Phosphorus	High Fe G	rade 0.115%	<p<0.15%< td=""><td>1.00</td><td>0.00</td></p<0.15%<>	1.00	0.00
Phosphorus	Low Fe Gra	de 0.09 <p<0.1< td=""><td>%</td><td>2.00</td><td>0.00</td><td></td><td></td><td></td><td></td><td></td><td></td></p<0.1<>	%	2.00	0.00						
			Port S	tock Price Differe	ntials to Qingo	lao 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	Fangchen	g <b>-5.00</b>	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	-5.00	0.00	Jingtang	0.00	0.00	Majishan	0.00	0.00	Shekou	0.00	0.00
Dalian	-15.00	0.00	Lanqiao	-5.00	0.00	Nantong	-15.00	0.00	Tianjin	-15.00	0.00

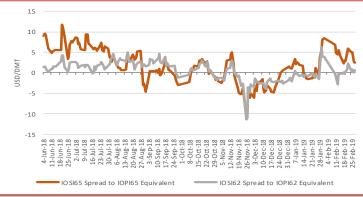




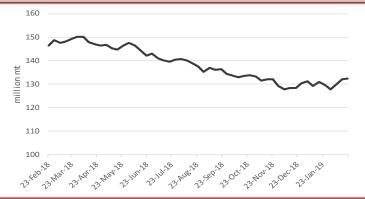
### WEEKLY IRON ORE PORT STOCK LUMP PREMIUM (62.5% FE LUMP—62% FE FINES)







#### TOTAL IRON ORE INVENTORIES AT CHINA PORTS

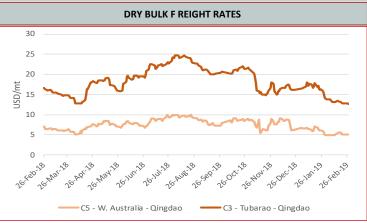


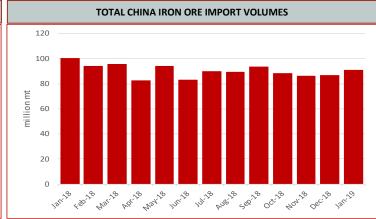
	FUTURE TRADING—FRONT MONTH CLOSING PRICE	
650	93	
600	88	
e	83	e
RMB/tonne	78	JSD/tonne
8M 500	73	USD/
450	68	
	63	
400	58	
	5-Apr-18 20-Apr-18 20-May-18 4-Jun-18 19-Jun-18 19-Jun-18 19-Jun-18 17-Sep-18 17-Sep-18 17-Sep-18 17-Oct-18 11-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-1	
	5-Apr-18 20-Apr-18 20-May-18 4-Jun-18 19-Jun-18 19-Jun-18 3-Aug-18 2-Sep-18 17-Sep-18 17-Sep-18 17-Cott-18 17-Cott-18 11-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-18 16-Dec-1	
	— Dalian 3pm Close —— SGX Front Month 6pm (RHS)	

#### **IRON ORE PORT INVENTORIES** Week Ending February 22nd, 2019 (million tonnes) This week High<sup>4</sup> Province Change % Low<sup>4</sup> 13.29 19.00 14.50 -0.48% Jingtang Qingdao 17.87 -0.72% 16.09 19.97 Caofeidian 17.60 4.76% 16.30 25.30 11.00 Tianjin 9.08 -2.37% 8.50 Rizhao 16.45 3.13% 14.00 19.00 Total (35 Ports) 132.32 0.24% 127.72 150.04

		DCE		SGX				
Closing Date	281	th Feb 3pm c	lose	28th Feb 6 pm				
Contract	11905	Change	Change %	Mar'19	Change	Change %		
Closing Price	609.5	16.5	2.78%	82.97	1.25	1.53%		
Vol traded ('000 lots)	178.24	23.0	14.79%	12.96	1.85	16.62%		
Open positions ('000 lots)	107.53	5.9	5.78%	122.55	1.57	1.30%		
Day Low	596.0	6.0	1.02%	81.94	0.79	0.97%		
Day High	611.0	7.0	1.16%	82.98	0.60	0.73%		

**IRON ORE FUTURES CONTRACTS** 





### STEEL SPOT MARKET PRICES—CHINA

Steel Spot Market RMB/tonne			
Product	22/2/2019	Change	Change %
ReBar HRB400 ¢18mm	3,855.0	-25	-0.64%
Wirerod Q300 φ6.5mm	3,942.0	-34	-0.86%
HRC Q235/SS400 5.5mm*1500*C	3,802.0	34	0.90%
CRC SPCC/ST12 1.0mm*1250*2500	4,326.0	50	1.17%
Medium & Heavy Plate Q235B 20mm	3,966.0	0	0.00%
GI ST02Z 1.0mm*1000*C	4,670.0	40	0.86%
Billet Q235 150*150mm	3,420.0	30	0.88%



	CHINESE STEEL EXPORT PRICES										
China Export Prices USD/tonne											
Product	Specification	Export tax (+)/Vate rebate (-)		Change							
			22/2/2019								
Rebar	BS4449 460B 12-25mm, + chrome	-13%	525	0							
Wire Rod	SAE1008 6.5-10mm +chrome	-9%	535	0							
Hot-rolled coil	SS400/Q235 4.0-10.mm	-9%	525	0							
Cold-rolled coil	SPCC 1.0mm	-13%	565	0							
Medium & Heavy plate	A-level Shipe plate 12-25mm	0%	530	0							
Galvanised	ST02Z/SGCC 1.0mm	-13%	580	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\*15/(16-0.5); Calculation formula for converting export prices of wire rod and hot-rolled steel into prices in hina's spot market = FOB\* exchange rate \*15/(116-0.09); 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 o	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	85.12	-3.56	Mmi CFR Equivalent index for 1st Feb								
Coke	2,070	100	2nd grade met coke, Tangshan, incl. tax								
Steel Scrap	2,210	0	steel scrap (6mm) in Zhangjiagang, exl. tax								
Billet Cost	3,025	8	Q234, incl. tax								
Rebar cost - Blast furnace	3,279	7	calculated based on theoretical w eight, incl. tax								
Rebar profit - Blast furnace	481	-7	based on Shanghai prices, incl. tax								
Hot-rolled coil cost - Blast furnace	3,350	8	based on actual w eight, incl. tax								
Hot-rolled coil proft - Blast furnace	430	62	based on Shanghai prices, incl. tax								
Note: 1 Costs in the table are caluclated based or	n to days market	prices and facout ou	ur management, sales, financial and depreciations fees								

Note. Loosts in the table are calibrated based on todays market prices and facout our management, sales, imandiar and depreciations to

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



Steel Inve	ntories³ (unit:	1000 tonnes	;)	
Product	22/2/2019	15/2/2019	Change	Change %
Rebar	9,634	8,304	1,330	16.02%
Wirerod	3,052	2,725	327	12.00%
Hot-rolled Coil	2,725	2,588	137	5.29%
Medium & Thick Plate	1,351	1,321	30	2.27%
Cold-rolled Coil	1,201	1,081	120	11.10%
Total	17,964	16,151	1,813	11.23%

<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 Ind	ex Compilation	Rationale and Da	ata Exclusions					
	65% Fe Fines	62% Fe Fines	58% Fe Fines	62.5% Fe Lump	MMi iron ore indice	es are compiled fron	n data provided by co	mpanies that are					
Fe %	65.00	62.00	58.00	62.50	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 specifications and								
Silica%	1.50	4.00	5.50	3.50	screened to remove outliers before volume-weighted average prices are calculated from the remaining core set of data.								
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	st 90% of cargo:	Size below 6.3mm max 15%		Data E	clusions*	65%					
Sizing		um of 40% below 150	0 ,	Size above 31.15mm max 25%	Port Index Seaborne index	0 0 0							
Pricing Point	Qingdao P	ort (FOT and CFR res	pectively)	FOT Qingdao Port	Lump Index 62.5	0							
Timing (Seaborne)	Loading withi	n 4 weeks, Delivery v	vithin 8 weeks	Delivery within 2 weeks			ore indices that were						
Payment Terms		L/C at sight		L/C at sight or CAD	index calculations today as they were anomalous and could not be verified			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.

	AVERAGE IRON ORE SPECIFICATIONS APPLIED FOR BRAND PRICE ASSESSMENTS													
	PORT	STOCK BRAN	IDS				SEAB	ORNE BRAN	DS					
February 28th, 2019	Specifi	cations appli	ed for 62%	brand asses	sments		Specifi	cations appli	ed for 62%	brand asses	sments			
	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	61.65%	2.35%	3.62%	0.101%	9.30%	PB Fines 62%	62.00%	2.60%	4.30%	0.090%	10.00%			
Newman Fines	62.79%	2.15%	3.94%	0.087%	7.50%	Newman Fines	62.80%	2.20%	4.30%	0.080%	6.40%			
MAC Fines	60.77%	2.34%	4.93%	0.087%	7.00%	MAC Fines	61.00%	2.70%	4.70%	0.110%	9.30%			
Jimblebar Blended Fines	61.01%	3.08%	4.23%	0.118%	7.23%	Jimblebar Blended Fines	61.79%	2.67%	4.08%	0.115%	7.16%			
Carajas Fines	65.45%	1.22%	1.54%	0.066%	8.12%	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	62.55%	1.57%	4.86%	0.071%	8.49%	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 28th, 2019	Specifi	cations appli	ed for 58%	brand asses	sments									
	Fe	Alumina	Silica	Phos	Moisture									
SSF	56.62%	3.18%	6.20%	0.052%	9.00%									
FMG Blended Fines	58.18%	2.65%	5.44%	0.060%	7.59%									
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	57.08%	1.41%	6.58%	0.032%	8.71%									

BLOOME			RG 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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