

MMi Dashboard

Iron Ore Price Indices

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



638

-16 -2.45%

February 22nd, 2019

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



12(

-15 -2.04%

February 22nd, 2019

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

585

0.00%

February 22nd, 2019

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



87.45

-0.65 -0.74%

February 22nd, 2019

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



102.40

-0.95 -0.92%

February 22nd, 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 I1905 (May) RMB/t



618.50

3.50 0.57%

February 22nd, 2019

(3pm close)

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



84.77

0.34 0.40%

February 22nd, 2019 (6pm Print)

SHFE Rebar RB1905 (May) RMB/t



3731

54.00 1.47%

February 22nd, 2019

(3pm close)

Freight Rates

C3, Tubarao - Qingdao USD/t



12.75

0.04 0.32%

February 21st, 2019

C5, W. Australia - Qingdao USD/t



5.07

0.07 1.46%

February 21st, 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



132.32

0.32 0.24%

Week Ending February 22nd, 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

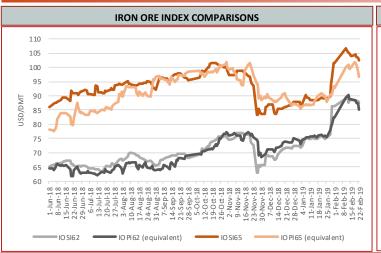


3768

-34 -0.89%

Week Ending February 15th, 2019

MMI D	aily Iron Or	e Inde	x Report										Febru	ary 22n	d, 2019
						IRON OF	RE PORT S	TOCK INDEX	K (IOPI)						
February	22nd, 2019		FOT Qir	ngdao (i	nc. 16% VA	T), RMB/w	et tonne		CFR	Qingdao	Equivalen	t (exc. 16	% VAT), U	SD/dry tor	nne ¹
Index	Fe Content	Price	Change	Change	% MTD	YTD	Low ²	High ²	Price	Change	Change %	MTD	YTD	Low ²	High ²
IOPI62	62% Fe Fines	638	-16	-2.4%	661	607	443	681	85.12	-2.14	-2.5%	87.90	80.08	61.36	90.41
IOPI58	58% Fe Fines	585	0	0.0%	566	487	304	585	77.72	0.08	0.1%	74.66	63.55	40.67	77.72
IOPI65	65% Fe Fines	720	-15	-2.0%	744	695	541	784	96.56	-1.99	-2.0%	99.33	92.20	75.83	101.79
		IF	RON ORE SE	ABORNE	INDEX (IOS)					MARK	ЕТ СОММ	ENTARY		
February 2	22nd, 2019			CFR Q	ingdao, USD/	dry tonne				_	najor Chinese port	-			
Index	Fe Content	Price	Change	Change	% MTD	YTD	Low ³	High ³	stocks of iron or	e across those	evious week, refle ports gained 320,	000 mt to stand	at 132.32 million	mt as Caofeidiar	n, Rizhao ports
IOSI62	62% Fe Fines	87.45	-0.65	-0.7%	87.97	80.70	62.95	89.20		-	gtze River saw mo eek amid restocki				
IOSI65	65% Fe Fines	102.40	-0.95	-0.9%	103.75	95.30	83.20	106.85	for steel mills ne	ext week amid	restocking deman	d whilst PB fines	prices dipped 10	I-20 RMB/wt toda	зу.
						IRON OR	RE PORT L	JMP INDEX	(IOPLI)						
Week Endin 22nd, 2019	ng February		FOT C	Qingdao (inc. 16% VAT)	, RMB/wet	tonne		(CFR Qingd	lao Equivaler	nt (exc. 16%	6 VAT), USD	dry tonne	1
Index	Fe Content	Price	W-o-W	Change	% MTD	YTD	Low ³	High ³	Price	W-oW	Change %	MTD	YTD	Low ³	High ³
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
IRON ORE DOMESTIC CONCENTRATE SPOT PRICE ASSESSMENTS AND COMPOSITE INDEX															
Week Endi	ing February 15	th, 2019				RMB/to	onne (exclu	ding tax) 4				USD/tonne	(excluding	tax) ⁴	
Province	Region	Produc	t	Basis	This week	Chang	e %	Low ²	High ²	This	s week	Change %	Lov	v ²	High ²
Hebei	Hanxing	66% Fe	Concentrate	Dry	802	13.9	%	579	802	1:	18.53	13.24%	91.	97	118.53
Hebei	Qian'an	65% Fe	Concentrate	Dry	775	3.3%	%	630	815	1:	14.54	2.71%	100	.26	117.34
Liaoning	Anshan	65% Fe	Concentrate	Wet	575	5.5%	%	445	745	8	4.98	4.87%	68.	21	84.98
Shandong	Zibo	65% Fe	Concentrate	Dry	860	12.4	%	620	860	12	27.11	11.74%	99.	75	127.11
	g February 15th, 2			This v		nge %	Low ⁵	High ⁵			3/USD = 6.7151 ² Si lied: RMB/USD 6.7				
China Mines	Concentrate Con	-		681			534.50	685.87							
	IRON ORE PORT INDEX, FOT QINGDAO (RMB/WT) IRON ORE SEABORNE INDEX, CFR QINGDAO (USD/DMT)														
850 —	850														
750 ——			~~~	~~~	~~		M	105			- 0	~~	_		~~
650 ——		~~	<i>y</i> ~		-			95 85	~~~		7 ~ -		10-	~	J
550			~~~	~~~~	J . L			75 —				مسر			J
450		~						65		~~			\~		
350 —		~~~						55 ——							
250	18 -18 -18 -18 -18 -18 -18 -18 -18 -18 -	-18 -18	-18	18 1	18 -18	-18	-19	45	1 1 1 2	18 18	18 18	18 19	118	18 -19 -	19 1
2-Apr-18	17-Apr-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-Ort-18	29-0α-18 13-Nov-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	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
		10 F		O PI 58 =				Ì		1 2	10 SI62			2	., 2
			IDA	ON ODE	DODT STOCK	INIDEV NA	ONTILLY (NIARTERIA	AND VEAR	TO DATE					
Eebruary	22nd, 2019				PORT STOCK			ZOANTENLT	T		o Equivalen		% \/AT\ 119	SD/dry ton	ne 1
Index	Fe Content	Octobe	r November			MTD	QTD	YTD			rDecember	-	MTD	QTD	YTD
IOPI62	62% Fe Fines	564	564	559	580	661	607	607	63.41	65.25	72.55	76.16	87.90	80.08	80.08
IOPI58	58% Fe Fines	401	401	392	448	566	487	487	44.86	45.84	50.47	57.99	74.66	63.55	63.55
IOP165	65% Fe Fines	760	760	681	670	744	695	695	85.29	92.13	99.05	88.65	99.33	92.20	92.20
IROI	N ORE SEABOR	RNE INDE	X MONTHL	Y, QUAR	TERLY AND	/EAR-TO-D	OATE AVER	RAGES			FR	EIGHT RA	TES		
February 2	2nd, 2019			CFR C	(ingdao, USD/	dry tonne			February 21st,	2019		FREIGHT R	ATES - DRY BU	LK US\$/wet to	inne
Index	Fe Content	Octobe	November	Decemb	er January	MTD	QTD	YTD	Route	Desi	gnation	Change	Change %	Low ⁵	High ⁵
IOSI62	62% Fe Fines	72.31	72.91	69.96		87.97	80.70	80.70	W. Australia - Qi	ingdao	C5 5.07	0.07	1.46%	4.814	10.002
IOSI65	65% Fe Fines	98.97	94.05	85.95	89.92	103.75	95.30	95.30	Tubarao - Qingd		C3 12.75	0.04	0.32%	12.705	24.760
			IRO	ON ORE	PORT LUMP	INDEX MO	ONTHLY, O	UARTERLY	AND YEAR-	TO-DATE	AVERAGES				
Week Endin 22nd, 2019	g February		FOT	Qingdao	(inc. 16% VAT), RMB/wet	tonne			CFR Qingo	dao Equivale	nt (exc. 169	% VAT), USD	dry tonne	1
Index	Fe Content	Octobe	r Novembe	r Decem	ber January	MTD	QTD	YTD	October	Novembe	er Decembei	r January	MTD	QTD	YTD
IOPLI62	62.5% Fe Lump	720	771	749	782	842	798	808	89.65	96.21	94.22	99.57	108.63	102.04	103.45
					ı	RON ORE	INDEX PRE	MIUMS/DI	SCOUNTS						
February 22	2nd, 2019				TOCK INDEX (RI			February 22					NE INDEX (U		
	Fe Content		•	to IOPI62	·		Fe Content			Spread to IOSI62 % Spread to IOSI62					
	58% Fe Fines 65% Fe Fines			-53 82	-8.31% 12.85%			65% Fe Fines			15 17.10%			%	
03/01/21/11/23														20	

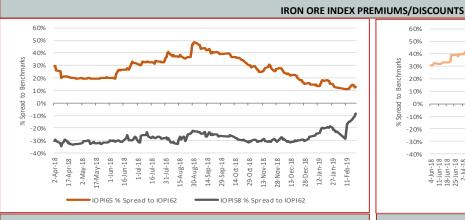




		IRC	ON ORE BRAND SP	OT PRICE ASSESMENTS			
February 22nd, 2019	PORT	STOCK INDEX (R	MB/WT)	February 22nd, 2019	SEABO	D/DMT)	
	Price	Change	Diff to IOPI62		Price	Change	Diff to IOSI62
Roy Hill	613	-16	-25	Roy Hill	81.39	-0.65	-6.06
SIMEC Fines	589	-16	-49	SIMEC Fines	76.84	-0.65	-10.61
PB Fines	621	-16	-17	PB Fines	85.86	-0.65	-1.59
Newman Fines	650	-16	12	Newman Fines	89.91	-0.68	2.46
MAC Fines	615	-16	-23	MAC Fines	80.44	-0.15	-7.01
Jimblebar Blended Fines	589	-16	-49	Jimblebar Blended Fines	73.59	-0.02	-13.86
Carajas Fines	732	-16	94	Carajas Fines	101.34	-1.60	13.89
Brazilian SSF	639	-16	1	Brazilian SSF	86.51	-1.28	-0.94
Brazilian Blend Fines	642	-16	4	Brazilian Blend Fines	89.39	-1.02	1.94
RTX Fines	596	-16	-42	RTX Fines	76.19	-0.02	-11.26

February 22nd, 2019	PORT	STOCK INDEX (R	MB/WT)
	Price	Change	Diff to IOPI58
SSF	510	0	-75
FMG Blended Fines	584	0	-1
Robe River	530	0	-55
Western Fines	522	0	-63
Atlas Fines	518	0	-67
Yandi	599	0	14

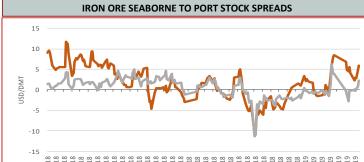
				IRON ORE IN	NDEX NORMA	LISATION DIFFER	ENTIALS				
Por	t Stock Index	Product Differ	entials (R	MB/wet tonne)	Sea	aborne Inde	x Product Di	fferentials (UDS/dry tonne	e)
	Ар	plicable range		Value	Change		A	pplicable ran	ge	Value	Change
	High Grade	e Fe 60 - 63%		12.00	0.00		High Grad	de Fe 60 - 63	%	3.50	0.00
	High Grade	e Fe 63 - 64%		23.00	0.00		High Grad	High Grade Fe 63 - 64%		2.50	0.00
1% Fe	High Grade	e Fe 64 - 65%		23.00	0.00	1% Fe	High Grad	de Fe 64 - 65	%	2.50	0.00
	High Grade	e Fe 65 - 65.5%		23.00	0.00		High Grad	High Grade Fe 65 - 65.5%		2.50	0.00
	Low Grade	Fe		21.00	0.00						
	High Fe Gra	ade Al <2.25%		22.00 0.00			High Fe G	High Fe Grade Al <2.25%			-0.50
10/ 11	High Fe Gra	ade Al 2.25-4%		17.00	0.00	10/ 11	High Fe G	rade Al 2.25	-4%	3.25	0.00
.% Alumina	Low Fe Gra	de Al <2.25%		57.00	0.00	1% Alumina					
	Low Fe Gra	de Al 2.25-4%		35.00	0.00						
	High Fe Gra	ade Si <4%		2.00	0.00		High Fe G	rade Si <4%		1.50	-0.25
1% Silica	High Fe Gra	ade 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	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%<</td><td>P<0.115%</td><td>0.50</td><td>-0.25</td></p<0<>	.115%	2.00	0.00	0.01%	High Fe G	rade 0.09%<	P<0.115%	0.50	-0.25
0.01%	High Fe Gra	ade 0.115% <p<< td=""><td>0.15%</td><td>3.00</td><td>0.00</td><td>Phosphorus</td><td>High Fe G</td><td>rade 0.115%</td><td><p<0.15%< td=""><td>1.50</td><td>0.00</td></p<0.15%<></td></p<<>	0.15%	3.00	0.00	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>0.00</td><td></td><td></td><td></td><td></td><td></td><td></td></p<0.19<>	%	3.00	0.00						
	'		Port S	tock 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	Fangchen	g -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	0.00	Jingtang	0.00	0.00	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



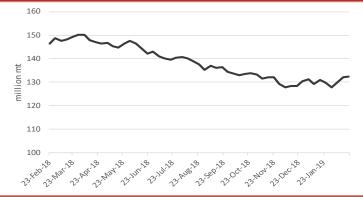


WEEKLY IRON ORE PORT STOCK LUMP PREMIUM (62.5% FE LUMP—62% FE FINES)





TOTAL IRON ORE INVENTORIES AT CHINA PORTS



			FU	τυ	RE	TR	ΑD	ING	ì—	FRO	DN.	ΤN	101	NTH	ı CI	LOS	SIN	G P	RIC	CE				
650	_																					4	93	
600	_																				ſ	7	88	
e 550																					ľ	r	83	ЭL
RMB/tonne														Į,	1	M					1		78	JSD/tonne
W 500	_			٨					1	V,	1	~	ا			И		A	<u>, /</u>	۱۳	_		73	OSD
450	N	J)	H	1	7	V	<u>۸.,</u>		1	N	ال						y	J ⁿ					68	
400																							63 58	
400		r-18	y-18	y-18	n-18	1-18	4-Jul-18	1-18	9-18	9-18	0-18	0-18	t-18	t-18	v-18	v-18	c-18	c-18	c-18	٠-19	1-19 ·	0-19	50	
	5-Apr-18	20-Apr-18	5-May-18	20-May-18	4-Jun-18	19-Jun-18	4-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		
			_		Dal	ian	3pn	n Clo	se		_	— s	GX	Froi	nt N	1ont	th 6	pm	(RH	S)				

IRON ORE PORT INVENTORIES

\ \	Week Ending Febru	ary 22nd, 2019 (milli	on tonnes)	
Province	This week	Change %	Low ⁴	High ⁴
Jingtang	14.50	-0.48%	13.29	19.00
Qingdao	17.87	-0.72%	16.09	19.97
Caofeidian	17.60	4.76%	16.30	25.30
Tianjin	9.08	-2.37%	8.50	11.00
Rizhao	16.45	3.13%	14.00	19.00
Total (35 Ports)	132.32	0.24%	127.72	150.04

			DCE			SGX	
	Closing Date	22	nd Feb 3pm c	lose	:	22nd Feb 6 pi	m
)	Contract	11905	Change	Change %	Mar'19	Change	Change %
,	Closing Price	618.5	3.5	0.57%	84.77	0.34	0.40%
)	Vol traded ('000 lots)	244.50	66.4	37.28%	14.67	5.66	62.75%
)	Open positions ('000 lots)	105.48	-5.9	-5.32%	124.57	0.24	0.19%
)	Day Low	598.5	-13.0	-2.13%	82.73	-1.59	-1.89%
4	Day High	619.0	-6.0	-0.96%	84.90	-0.30	-0.35%

IRON ORE FUTURES CONTRACTS



STEEL SPOT MARKET PRICES—CHINA

Steel Spot Market RMB/tonne			
Product	15/2/2019	Change	Change %
ReBar HRB400 ø18mm	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/t	onne										
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							

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

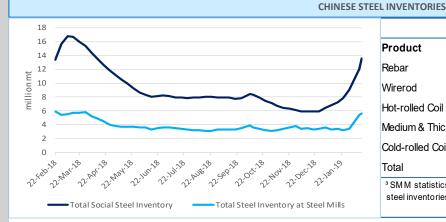


CHINESE STEEL MILL PROFITABILITY

SMM Tracking 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 Inve	Steel Inventories³ (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%								

³ 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 fron	n data provided by co	mpanies that are					
Fe %	65.00	part of the iron ore supply chain and involved in sp indices are calculated using detailed transaction-le											
Alumina %	1.40	2.25	2.25	1.50	these companies. This data is normalised to the appropriate specifications a								
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 w	ebsite at: www.mm	iprices.com						
Moisture %	8.00	8.00	9.00	4.00									
	Granular size he	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 Port (FOT and CFR respectively)		pectively)	FOT Qingdao Port	Lump Index 62.5 0								
Timing (Seaborne)	eaborne) Loading within 4 weeks, Delivery within 8 weeks			Delivery within 2 weeks	* Number of price submissions for iron ore indices that were exclude								
Payment Terms L/C at sight				L/C at sight or CAD	index calculations today as they were anomalous and could not be verifie								

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 22nd, 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%	2.40%	3.55%	0.101%	9.29%	PB Fines 62%	62.00%	2.60%	4.30%	0.090%	10.00%	
Newman Fines	62.73%	2.16%	4.11%	0.088%	7.58%	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 22nd, 2019 SPECIFICATIONS APPLIED FOR 58% BRAND ASSESSMENTS												
	Fe	Alumina	Silica	Phos	Moisture							
SSF	56.58%	3.18%	6.21%	0.052%	9.02%							
FMG Blended Fines	58.18%	2.65%	5.50%	0.058%	7.58%							
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 TICKER									
	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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