

# MMi Dashboard

## **Iron Ore Price Indices**





646

0.78%

March 15th, 2019

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



715

2 0.28%

March 15th, 2019

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



**586** 

-0.17%

March 15th, 2019

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



86.15

0.25 0.29%

March 15th, 2019

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



99.75

1.50 1.53%

March 15th, 2019

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



860

3 0.35%

Week Ending March 15th, 2019

# **Exchange Traded Contracts**

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



0.50 0.08%

March 15th, 2019

**627.00** 

(3pm close)

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



84.70

-0.15 -0.18%

March 15th, 2019 (6pm Print)

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



**3763** 

-32.00 -0.84%

March 15th, 2019

(3pm close)

# **Freight Rates**

C3, Tubarao - Qingdao USD/t



March 14th, 2019

11.86

0.17 1.48%

C5, W. Australia - Qingdao USD/t



5.94

9.02% 0.49

March 14th, 2019

Steel Rebar (China Domestic) RMB/t

**Steel Price** 



3902

**15** 0.39%

Week Ending March 8th, 2019

# **Inventory Levels**

Iron Ore Inventory at Chinese Ports (35) million tonnes



136.37

0.56 0.41%

Week Ending March 15th, 2019

Steel Inventory in China

million tonnes



**18.54** 

-0.08 -0.43%

Week Ending March 8th, 2019

**Steel Price** 

Steel HRC (China Domestic) RMB/t

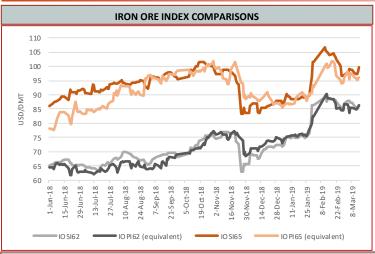


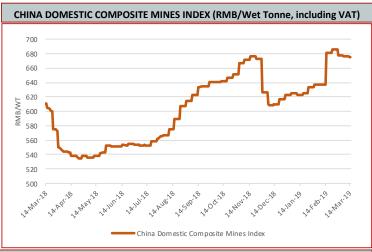
3841

-0.39%

Week Ending March 8th, 2019

MMID	aily Iron Oi	e Inde	x Report										March	15th, 2	2019
						IRON OF	RE PORT S	TOCK INDEX	K (IOPI)						
March 15	th, 2019		FOT Qin	gdao (ii	nc. 16% VAT)	, RMB/w	et tonne		CFR Qir	ngdao i	Equivalen	t (exc. 169	% VAT), US	D/dry tor	nne ¹
Index	Fe Content	Price	Change			YTD	Low <sup>2</sup>	High <sup>2</sup>			Change %		YTD	Low <sup>2</sup>	High <sup>2</sup>
IOPI62	62% Fe Fines	646	5	0.8%	640	617	443	681		.50	0.6%	85.53	81.72	61.36	90.41
IOPI58	58% Fe Fines	586	-1	-0.2%	577	515	308	588	77.85 -(	0.32	-0.4%	76.74	67.67	41.40	78.17
IOPI65	65% Fe Fines	715	2	0.3%	718	701	541	784	95.98 0	.19	0.2%	96.41	93.37	75.83	112.12
		II	RON ORE SEA	ABORNE	INDEX (IOSI)						MARK	ET COMME	NTARY		
March 15t	h, 2019			CFR Qi	ngdao, USD/di	ry tonne			As of Friday March 15, iron			-	-		
Index	Fe Content	Price	Change	Change	% MTD	YTD	Low <sup>3</sup>	High <sup>3</sup>	Despite lower arrivals in Sh deliveries from ports dropp port, which started from M	ed 1,000 mt fr	om the prior week	to 2.42 million mt last	week as a transport	ban across Jingtang	port and Caofeidian
IOSI62	62% Fe Fines	86.15	0.25	0.29%		82.37	62.95	89.20	ports grew after the ban was lifted in the afternoon of March 12, with deliveries of nearly 500,000 mt at Jingtang port on Thursday March 14.						
IOSI65	65% Fe Fines	99.75	1.50	1.53%	98.16	96.16	83.20	106.85	ports in Shandong. Daily deliveries from ports along the Yangtze River grew significantly. Deliveries from ports are expected to grow this week after pollution alerts across Tangshan, Qinhuangdao and Jiangsu were lifted.				to grow this week		
						IRON OR	E PORT LI	JMP INDEX	(IOPLI)						
Week Endin 2019	g March 15th,		FOT Q	ingdao (i	nc. 16% VAT),	RMB/wet	tonne		CFR	Qingdad	Equivaler	nt (exc. 16%	VAT), USD/	dry tonne	4
Index	Fe Content	Price	W-o-W	Change	% MTD	YTD	Low <sup>3</sup>	High <sup>3</sup>			Change %	MTD	YTD	Low <sup>3</sup>	High <sup>3</sup>
IOPLI62	62.5% Fe Lump	860	3	0.4%	860	824	565	865	111.23	).51	0.5%	111.36	105.82	76.63	112.12
			IROI	N ORE D	OMESTIC CO	NCENTRA	TE SPOT P	RICE ASSES	SMENTS AND O	ОМРО	SITE INDE	ΣX			
Week Endi	ng March 8th 2	019											(avalualina t	- 4	
Province	ng March 8th, 2	Produc	<del>-+</del>	Basis	This week	RMB/to	onne (exclu	Low <sup>2</sup>	High <sup>2</sup>	This v		USD/tonne Change %	(excluding t		High <sup>2</sup>
Hebei			Concentrate		761	-3.1 <sup>s</sup>		579	802	1113		-3.24%	11.2		118.53
Hebei	Hanxing Qian'an		Concentrate	Dry		0.09		630	815	113		-0.19%	100.		117.34
Liaoning	Anshan		Concentrate	Dry Wet	765 595	0.0%		445	745	88		-0.19%	68.2		88.86
Shandong	Zibo		Concentrate	Dry	815	0.09		620	860	121		-0.19%	99.7		127.11
	g March 8th, 2019		Concentrate	This w			Low 5	High <sup>5</sup>	<sup>1</sup> Exchange rate appl						127.11
	Concentrate Con		lex RMB/WT	676.			534.50	685.87	<sup>4</sup> Weekly exchange						
	IRON (	ORE POR	T INDEX, FO	r QINGD	AO (RMB/W	Τ)			IRON ORE S	EABOR	NE INDEX	, CFR QING	DAO (USD	/DMT)	
850								115							
750 —					١٨		~	105				_			4
650 —					"ha	~~/		95 ——		~	~~	$\sim$		. <i>- -</i>	<b>~</b>
550	~~~	سم		-	~~	<i></i> /	~~~	85					~~~	مرحب	~
450	m	مسسم	m			لسميح		75			س	~~~	~~~		
350 —					~~			55							
250								45							
2-Apr-18	2-May-18 2-May-18 17-May-18 1-Jun-18 16-Jun-18	1-Jul-18 16-Jul-18	31-Jul-18 15-Aug-18 30-Aug-18 14-Sep-18	29-Sep-18 14-Od-18 29-Od-18	13-Nov-18 28-Nov-18 13-Dec-18	12-Jan-19 27-Jan-19	11-Feb-19 26-Feb-19 13-Mar-19	1-Jun-18 15-Jun-18	29-Jun-18 13-Jul-18 27-Jul-18	24-Aug-18 7-Sep-18	21-Sep-18 5-Oct-18	19-0 α-18 2-Nov-18 I6-Nov-18	30-Nov-18 14-Dec-18 28-Dec-18	11-Jan-19 25-Jan-19 8-Feb-19	22-Feb-19 8-Mar-19
2-6	2-N 2-N 17-M 1-J 16-J	1-16-	31- 15-A 30-A 14-S	29-5	13-N 13-N 28-N 28-N 13-D	12-1	11-F 26-F 13-N	15.1	29-1 13- 27- 10-A	24-A	21-8	19-C 2-N 16-N	30-N 14-D 28-D	11-1 25-1 8-F	22-F
		10 F	PI 62 —— IC	PI 58 -	IO PI 65					_	IO SI62	IO SI	165		
			IRC	ON ORE I	PORT STOCK	INDEX M	ONTHLY, O	QUARTERLY	AND YEAR-TO-	-DATE A	AVERAGES	S			
March 15	th, 2019		FOT Qi	ngdao (i	nc. 16% VAT)	, RMB/w	et tonne		CFR Qi	ngdao	Equivalen	nt (exc. 169	% VAT), US	D/dry ton	ne ¹
Index	Fe Content	Novemb	erDecember	Januar	y February	MTD	QTD	YTD	NovemberDec	ember	January	February	MTD	QTD	YTD
IOPI62	62% Fe Fines	564	559	580	654	640	617	617	65.25 7	2.55	76.16	87.09	85.53	81.72	81.72
IOPI58	58% Fe Fines	401	392	448	569	577	515	515	45.84 5	0.47	57.99	75.22	76.74	67.67	67.67
IOPI65	65% Fe Fines	760	681	670	733	718	701	701	92.13 9	9.05	88.65	98.08	96.41	93.37	93.37
IROI	N ORE SEABOR	RNE INDI	EX MONTHLY	, QUAR	TERLY AND Y	EAR-TO-D	ATE AVER	RAGES			FF	REIGHT RAT	ΓES		
March 15t	h, 2019			CFR Q	ingdao, USD/di	ry tonne			March 14th, 2019			FREIGHT RA	ATES - DRY BUI	K US\$/wet to	nne
Index	Fe Content	Novemb	er December	January	February	MTD	QTD	YTD	Route	Design	ation	Change	Change %	Low 5	High <sup>5</sup>
IOSI62	62% Fe Fines	72.91	69.96	76.09	87.39	86.74	82.37	82.37	W. Australia - Qingda	o C5	5.94	0.49	9.02%	4.68	10.00
IOSI65	65% Fe Fines	94.05	85.95	89.92	102.56	98.16	96.16	96.16	Tubarao - Qingdao	CS	11.86	0.17	1.48%	11.61	24.76
			IRC	ON ORE	PORT LUMP I	NDEX MO	ONTHLY, O	UARTERLY	AND YEAR-TO-	DATE A	VERAGES	•			
Week Endin 22nd, 2019	g February		FOT	Qingdao (	inc. 16% VAT),	RMB/wet	tonne		CFR	Qingda	o Equivale	nt (exc. 16%	VAT), USD	dry tonne	1
Index	Fe Content	Novemb	er December	Januar	y February	MTD	QTD	YTD	November Dec	ember	January	February	MTD	QTD	YTD
IOPLI62	62.5% Fe Lump	771	749	782	842	860	824	824	96.21 9	4.22	99.57	108.63	111.36	105.82	105.82
					IR	ON ORE	INDEX PRE	MIUMS/DI	SCOUNTS						
March 15th	, 2019			PORT ST	OCK INDEX (RM	B/WT)		March 15th,	, 2019			SEABORI	NE INDEX (US	SD/DMT)	
	Fe Content		Spread	to IOPI62	%	Spread to I	OPI62		Fe Content		Spre	ad to IOSI62		% Spread to	IOSI62
	58% Fe Fines			60		-9.29%			6E9/ Fo Fire			14		45.70	0/
	65% Fe Fines		(	59		10.68%	)		65% Fe Fines			14		15.79	%

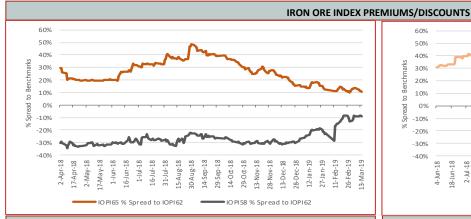




	IRON ORE BRAND SPOT PRICE ASSESMENTS							
March 15th, 2019 PORT STOCK INDEX (RMB/WT)			March 15th, 2019	SEABORNE INDEX (USD/DMT)		D/DMT)		
	Price	Change	Diff to IOPI62		Price	Change	Diff to IOSI62	
Roy Hill	624	7	-22	Roy Hill	80.32	0.92	-5.83	
SIMEC Fines	602	9	-44	SIMEC Fines	76.30	1.28	-9.85	
PB Fines	631	6	-15	PB Fines	85.50	0.43	-0.65	
Newman Fines	657	1	11	Newman Fines	88.96	-0.15	2.81	
MAC Fines	627	7	-19	MAC Fines	80.25	0.98	-5.90	
Jimblebar Blended Fines	609	8	-37	Jimblebar Blended Fines	77.30	1.28	-8.85	
Carajas Fines	725	3	79	Carajas Fines	99.14	-0.25	12.99	
Brazilian SSF	654	5	8	Brazilian SSF	86.46	0.25	0.31	
Brazilian Blend Fines	652	4	6	Brazilian Blend Fines	88.71	0.00	2.56	
RTX Fines	621	10	-25	RTX Fines	78.80	1.18	-7.35	

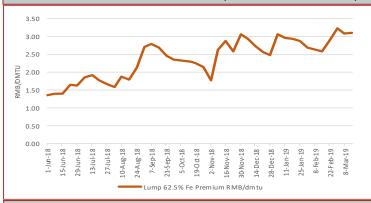
March 15th, 2019	PORT	STOCK INDEX (R	MB/WT)
	Price	Change	Diff to IOPI58
SSF	497	-4	-89
FMG Blended Fines	574	-3	-12
Robe River	517	-3	-69
Western Fines	516	-4	-70
Atlas Fines	508	-7	-78
Yandi	573	-8	-13

				IRON ORE IN	NDEX NORMA	LISATION DIFFER	ENTIALS				
Por	t Stock Index	MB/wet tonne	)	Seaborne Index Product Differentials (USD/dry tonne)							
	Ар	plicable range		Value	Change		А	pplicable ran	ge	Value	Change
	High Grade	e Fe 60 - 63%		10.00	-2.00		High Grad	de Fe 60 - 63	%	3.75	-0.50
	High Grade	e Fe 63 - 64%		16.00	0.00		High Grad	High Grade Fe 63 - 64%		2.50	0.00
1% Fe	High Grade	e Fe 64 - 65%		16.00	0.00	1% Fe	High Grad	de Fe 64 - 65	%	2.50	0.00
	High Grade	e Fe 65 - 65.5%		16.00	0.00		High Grad	de Fe 65 - 65	.5%	2.50	0.00
	Low Grade	Fe		21.00	0.00						
	High Fe Gra	ade Al <2.25%		27.00	0.00		High Fe G	rade Al <2.2	5%	2.25	0.00
10/ 11	High Fe Gra	ade Al 2.25-4%		3.00	-2.00	40/ 41	High Fe G	rade Al 2.25	-4%	1.00	-0.50
1% Alumina	Low Fe Gra	de Al <2.25%		33.00	-5.00	1% Alumina					
	Low Fe Gra	de Al 2.25-4%		56.00	3.00						
	High Fe Gra	ade Si <4%		2.00	0.00		High Fe G	rade Si <4%		1.00	0.00
1% Silica	High Fe Gra	ade Si 4-6.5%		16.00	0.00	1% Silica	High Fe G	rade Si 4 - 6	.5%	1.00	0.00
	Low Fe Gra	de		21.00	3.00						
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%&lt;</td><td>P&lt;0.115%</td><td>0.50</td><td>0.00</td></p<0<>	.115%	2.00	0.00	0.01%	High Fe G	rade 0.09%<	P<0.115%	0.50	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>0.50</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>0.50</td><td>0.00</td></p<0.15%<>	0.50	0.00
Phosphorus	Low Fe Gra	de 0.09 <p<0.19< td=""><td>%</td><td>2.00</td><td>0.00</td><td></td><td></td><td></td><td></td><td></td><td></td></p<0.19<>	%	2.00	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 <b>-5.00</b>	0.00	Lanshan	0.00	0.00	Qingdao	0.00	0.00
Beilun	5.00	0.00	Jiangyin	-20.00	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	-10.00	0.00	Lanqiao	0.00	0.00	Nantong	-20.00	0.00	Tianjin	-15.00	0.00





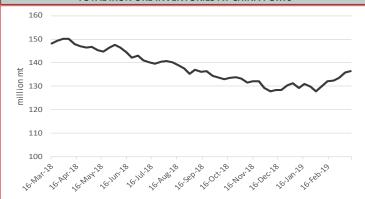
# WEEKLY IRON ORE PORT STOCK LUMP PREMIUM (62.5% FE LUMP—62% FE FINES)



# IRON ORE SEABORNE TO PORT STOCK PRICE SPREADS



# TOTAL IRON ORE INVENTORIES AT CHINA PORTS



FUTURE TRADING—FRONT MONTH CLOSING PRICE	
650	93
600	88
£ 550	83 9
am 550	78 73 75 75 75 75 75 75 75 75 75 75 75 75 75
\$ 500 AMM	— 73 GSN
450	68
	63
400	58
2-Apr-18 2-May-18 2-May-18 17-May-18 117-May-18 11-Jun-18 11-Jun-18 11-Jun-18 11-Jun-18 11-Sep-18 11-Oot-18 12-Sep-18 13-Oot-18 13-Dec-18 13-Dec-18 13-Dec-18 13-Dec-18 13-Dec-18 13-Dec-18 13-Dec-18 13-Dec-18	13-Mar-19
2-Apr-18 2-May-18 17-Apr-18 17-May-18 11-Jun-18 11-Jul-18 31-Jul-1	13-N
—— Dalian 3pm Close —— SGX Front Month 6pm (RHS)	

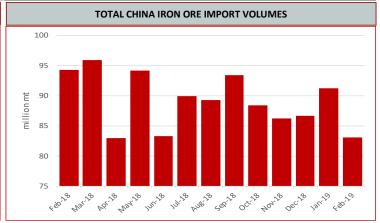
# IRON ORE PORT INVENTORIES

Week Ending March 15th, 2019 (million tonnes)							
Province	This week	Change %	Low <sup>4</sup>	High <sup>4</sup>			
Jingtang	16.37	7.77%	13.29	19.00			
Qingdao	18.12	-4.68%	16.09	19.97			
Caofeidian	18.63	3.73%	16.30	25.30			
Tianjin	8.68	-4.41%	8.50	11.00			
Rizhao	16.93	3.17%	14.00	19.00			
Total (35 Ports)	136.37	0.41%	127.72	150.04			

		DCE		SGX			
Closing Date	151	15th Mar 3pm close			15th Mar Feb 6 pm		
Contract	11905	Change	Change %	Apr'19	Change	Change %	
Closing Price	627.00	0.5	0.08%	84.70	-0.15	-0.18%	
Vol traded ('000 lots)	209.84	-12.0	-5.43%	12.20	-0.64	-4.99%	
Open positions ('000 lots)	109.55	-0.3	-0.28%	98.49	2.55	2.66%	
Day Low	616.0	13.5	2.24%	83.57	0.26	0.31%	
Day High	631.0	3.0	0.48%	85.10	0.15	0.18%	

**IRON ORE FUTURES CONTRACTS** 

# DRY BULK F REIGHT RATES 30 25 20 15 10 5 10 5 C5 - W. Australia - Qingdao C3 - Tubarao - Qingdao



# STEEL SPOT MARKET PRICES—CHINA

Steel Spot Market RMB/tonne			
Product	8/3/2019	Change	Change %
ReBar HRB400	3,902.0	15	0.39%
Wirerod Q300 ¢6.5mm	4,016.0	30	0.75%
HRC Q235/SS400 5.5mm*1500*C	3,841.0	-15	-0.39%
CRC SPCC/ST12 1.0mm*1250*2500	4,366.0	13	0.30%
Medium & Heavy Plate Q235B 20mm	4,000.0	17	0.43%
GI ST02Z 1.0mm*1000*C	4,790.0	55	1.16%
Billet Q235 150*150mm	3,460.0	-30	-0.86%



China Export Prices USD/to	onne		
Product	Specification		Change
		0/0/0040	

Product	Specification		Change	% Change
		8/3/2019		
Rebar	BS4449 460B 12-25mm, + chrome	530	0	0.00%
Wire Rod	SAE1008 6.5-10mm +chrome	535	0	0.00%
Hot-rolled coil	SS400/Q235 4.0-10.mm	540	15	2.86%
Cold-rolled coil	SPCC 1.0mm	560	-5	-0.88%
Medium & Heavy plate	A-level Shipe plate 12-25mm	560	10	1.82%
Galvanised	ST02Z/SGCC 1.0mm	605	25	4.31%

**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\*118/115-0.13); Calculation formula for converting export prices of wire rod and hot-rolled steel into prices in hina's spot market = FOB\* exchange rate\*118/115-0.09); Calculation formula for converting export prices of medium-thick plate into prices in China's spot market = FOB\* exchange rate

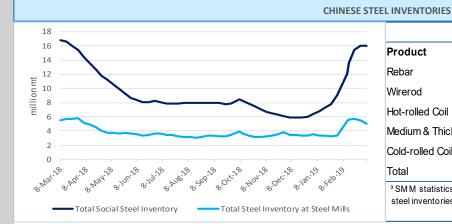


# **CHINESE STEEL MILL PROFITABILITY**

SMM Tracking of	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	85.43	-1.34	Mmi CFR Equivalent index for 1st Feb				
Coke	2,070	0	2nd grade met coke, Tangshan, incl. tax				
Steel Scrap	2,160	-30	steel scrap (6mm) in Zhangjiagang, exl. tax				
Billet Cost	3,017	-13	Q234, incl. tax				
Rebar cost - Blast furnace	3,270	-13	calculated based on theoretical w eight, incl. tax				
Rebar profit - Blast furnace	560	32	based on Shanghai prices, incl. tax				
Hot-rolled coil cost - Blast furnace	3,342	-13	based on actual w eight, incl. tax				
Hot-rolled coil proft - Blast furnace	488	-37	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 Inventories³ (unit: 1000 tonnes)							
Product	0/1/1900	1/3/2019	Change	Change %			
Rebar	10,138	10,206	-68	-0.67%			
Wirerod	3,116	3,134	-18	-0.57%			
Hot-rolled Coil	2,680	2,739	-59	-2.15%			
Medium & Thick Plate	1,316	1,340	-24	-1.79%			
Cold-rolled Coil	1,175	1,199	-24	-2.00%			
Total	18,538	18,618	-80	-0.43%			

<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. Payment Terms

## 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 Rationale and Data Exclusions				
	65% Fe Fines	62% Fe Fines	58% Fe Fines	62.5% Fe Lump	MMi iron ore indices are compiled from data provided by companies 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			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.			a 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 below 10mm for at least 90% of cargo; maximum of 40% below 150 micron			Size below 6.3mm max 15%		Data Ex	clusions*	65%	
Sizing				Size above 31.15mm max 25%	Port Index	0	0	0	
Pricing Point	Qingdao Port (FOT and CFR respectively)			FOT Qingdao Port	Seaborne index Lump Index 62.5	0		0	
Timing (Seaborne)	Loading within 4 weeks, Delivery within 8 weeks			Delivery within 2 weeks	* 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

L/C at sight or CAD

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											
	SEABORNE BRANDS										
March 15th, 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	61.62%	2.38%	3.64%	0.101%	9.29%	PB Fines 62%	62.00%	2.60%	4.30%	0.090%	10.00%
Newman Fines	62.70%	2.20%	4.02%	0.088%	7.57%	Newman Fines	62.80%	2.20%	4.30%	0.080%	6.40%
MAC Fines	60.85%	2.29%	4.84%	0.087%	7.04%	MAC Fines	61.00%	2.70%	4.70%	0.110%	9.30%
Jimblebar Blended Fines	61.01%	3.07%	4.21%	0.119%	7.26%	Jimblebar Blended Fines	61.79%	2.67%	4.08%	0.115%	7.16%
Carajas Fines	65.36%	1.24%	1.51%	0.071%	8.08%	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	62.53%	1.59%	4.87%	0.072%	8.52%	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%
March 15th, 2019	Specifications applied for 58% brand assessments										
	Fe	Alumina	Silica	Phos	Moisture						
SSF	56.69%	3.12%	6.10%	0.052%	9.01%						
FMG Blended Fines	58.23%	2.69%	5.57%	0.063%	7.46%						
Robe River	56.64%	2.91%	5.58%	0.035%	9.29%						
Western Fines	57.88%	2.87%	7.50%	0.062%	7.45%						
Atlas Fines	56.59%	2.55%	7.14%	0.080%	8.46%						
Yandi	57.08%	1.41%	6.65%	0.036%	8.63%						

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

L/C at sight

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