

## MMi Dashboard

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





632

4 0.64%

March 21st, 2019

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



**701** 

**0.86%** 

March 21st, 2019

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

603

0 0.00%

March 21st, 2019

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



84.95

-0.15 -0.18%

March 21st, 2019

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



95.45

-0.95 -0.99%

March 21st, 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 I1905 (May) RMB/t



612.00

7.50 1.24%

March 21st, 2019

(3pm close)

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



82.80

0.18 0.22%

March 21st, 2019 (6pm Print)

SHFE Rebar RB1905 (May) RMB/t



**3772** 

-5.00 -0.13%

March 21st, 2019

(3pm close)

#### **Freight Rates**

C3, Tubarao - Qingdao USD/t



11.76

-0.03 -0.23%

March 20th, 2019

C5, W. Australia - Qingdao USD/t



5.62

-0.11 -1.97%

March 20th, 2019

Steel Rebar (China Domestic) RMB/t

**Steel Price** 



3918

16 0.41%

h 2010

Week Ending March 15th, 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



17.71

-0.83 -4.46%

Week Ending March 15th, 2019

Steel Price

Steel HRC (China Domestic) RMB/t



3835

6 -0.16%

Week Ending March 15th, 2019

MMi D	aily Iron O	re Inde	x Report										March	21st, 2	2019
						IRON OF	RE PORT ST	TOCK INDEX	( (IOPI)						
March 21	st. 2019		FOT Oir	ngdao (ir	nc. 16% VAT				1 /	)ingdao E	auivalen	t (exc. 169	6 VAT). US	D/dry tor	nne ¹
Index	Fe Content	Price	Change			YTD	Low 2	High <sup>2</sup>			Change %		YTD	Low 2	High <sup>2</sup>
IOPI62	62% Fe Fines	632	4	0.6%	640	619	443	681	84.66	0.87	1.0%	85.49	82.01	61.36	90.41
IOPI58	58% Fe Fines	603	0	0.0%	583	522	308	608	80.60	0.30	0.4%	77.60	68.62	41.40	81.04
IOPI65	65% Fe Fines	701	6	0.9%	715	701	541	784	94.33	1.19	1.3%	95.96	93.48	75.83	112.12
		II	RON ORE SEA	ABORNE	INDEX (IOSI)	)					MARK	ЕТ СОММЕ	NTARY		
March 21s	t, 2019			CFR Qi	ngdao, USD/d	ry tonne			Following yesterda						
Index	Fe Content	Price	Change	Change 5	% MTD	YTD	Low <sup>3</sup>	High <sup>3</sup>	proached, a few tra quotes in-line with	the DCE mark	et. ills in Tangs	han say they are k	eeping their inve	entory at a norm	al level as they
IOSI62	62% Fe Fines	84.95	-0.15	-0.18%	86.54	82.63	62.95	89.20	are still not sure ab production at the e	-	ernmental poli	cies whilst in Wua	n, some mills say	they have a ch	ance to resume
IOSI65	65% Fe Fines	95.45	-0.95	-0.99%	98.03	96.27	83.20	106.85							
						IRON OR	E PORT LU	JMP INDEX	(IOPLI)						
Week Endir 2019	ng March 15th,		FOT C	(ingdao	nc. 16% VAT),	RMB/wet	tonne		CF	R Qingdac	Equivaler	nt (exc. 16%	VAT), USD/	dry tonne	4
Index	Fe Content	Price	W-o-W	Change 9	% MTD	YTD	Low <sup>3</sup>	High <sup>3</sup>	Price	W-oW	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	0.51	0.5%	111.36	105.82	76.63	112.12
			IRO	N ORE D	OMESTIC CO	NCENTRA	TE SPOT P	RICE ASSES	SMENTS AND	СОМРО	SITE INDE	X			
Week Endi	ing March 15th,	2019				RMB/to	nne (exclu	ding tax) 4				USD/tonne	(excluding t	ax) <sup>4</sup>	
Province	Region	Produc	it .	Basis	This week	Change	e %	Low <sup>2</sup>	High <sup>2</sup>	This v	veek	Change %	Low	, 2	High <sup>2</sup>
Hebei	Hanxing	66% Fe	Concentrate	Dry	774	1.79	6	579	802	115	.31	1.65%	11.2	!3	118.53
Hebei	Qian'an	65% Fe	Concentrate	Dry	765	0.09	6	630	815	113	.97	-0.06%	100.	26	117.34
Liaoning	Anshan	65% Fe	Concentrate	Wet	595	0.09	6	445	745	88.	64	-0.06%	68.2	!1	88.86
Shandong	Zibo		Concentrate	1	805	-1.29	<b>119.93 -1.28%</b> 99.75				'5 ————————————————————————————————————	127.11			
Week Ending March 15th, 2019 This week Change % Low 5 China Mines Concentrate Composite Index RMB/WT 675.43 -0.2% 534.50						High 5	High 5   Exchange rate applied: RMB/USD = 6.685 2 Since April 2   3 Since June 1    4 Weekly exchange rate applied: RMB/USD 6.7124 5 Last 12 months								
Cilila ivililes		-	-		AO (RMB/W	·	334.30	083.87	IRON ORE	SEAROR	NE INDEX	, CFR QING	חאח (ווגר	/DMT)	
	inoit (	JIL I OII	I IIIDEX, I O	1 QIIIOD	AO (MIVID) W	••,		115	INOIT OILE	JEADOR	INC IINDEX	, crit Qiito	DAG (03D	, , , , , , , , , , , , , , , , , , , ,	
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650		ر.			4 ha	~~~	m	95 ——	٨	~	~/	~			m
550	~~~				~\_~	ہ کہہ	~~	85	-			/	^~~	~~~	<b>~~</b>
450	m	ممسسم	~~~~~			لسر		75		~		~~	~~~	~	
350 —				~~~	~~~			65							
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-Oα-18 29-Oα-18	13-Nov-18 28-Nov-18 13-Dec-18 28-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	10-Aug-18 24-Aug-18 7-Sep-18	21-Sep-18 5-Oct-18	19-0 α-18 2-Nov-18 16-Nov-18	14-Dec-18 28-Dec-18	11-Jan-19 25-Jan-19 8-Feb-19	22-Feb-19 8-Mar-19
2-7	2-N 2-N 17-N 1-1	16.	31- 15-A 30-A 14-S	29-8 14-0 29-0	13-N 28-N 13-E	12 27 11-F	26-F	15.	29. 13.	10- <i>p</i> 24- <i>p</i> 7-5	21-9	2-h 16-h	14E 28E	11 25. 8-I	22-F
		101	PI 62 —— IC	O PI 58 -	IO PI 65						IO SI62	— IO SI	65		
			IRO	ON ORE I	PORT STOCK	INDEX MO	ONTHLY, C	UARTERLY	AND YEAR-T	O-DATE A	VERAGE	S			
March 21	lst, 2019		FOT Qi	ngdao (i	nc. 16% VAT	), RMB/w	et tonne		CFR C	Qingdao	Equivaler	nt (exc. 169	6 VAT), US	D/dry ton	ne 1
Index	Fe Content	Novemb	erDecember	January	/ February	MTD	QTD	YTD	NovemberDe	ecember	January	February	MTD	QTD	YTD
IOPI62	62% Fe Fines	564	559	580	654	640	619	619	65.25	72.55	76.16	87.09	85.49	82.01	82.01
IOPISE	58% Fe Fines	401	392 681	448 670	569	583	522	522 701	45.84	50.47	57.99	75.22	77.60	68.62	68.62
IOPI65	65% Fe Fines	760			733	715	701		92.13	99.05	88.65	98.08	95.96	93.48	93.48
	N ORE SEABOI	KINE IINDI	EX IVION I HL				AIE AVEN	AGES		•	Fr	REIGHT RAT			
March 21s	1	Nove	or Docorete		ingdao, USD/d	•	070	YTD	March 20th, 2019 Route	9 Designa	ation	FREIGHT RA	TES - DRY BUI	K US\$/wet to	onne High <sup>5</sup>
Index IOSI62	Fe Content 62% Fe Fines	72.91	er December 69.96	January 76.09	February 87.39	MTD 86.54	<b>QTD</b> 82.63	82.63	W. Australia - Qing			-0.11	-1.97%	4.68	Hign 10.00
IOSI65	65% Fe Fines	94.05	85.95	89.92	102.56	98.03	96.27	96.27	Tubarao - Qingdao			-0.03	-0.23%	11.61	24.76
									AND YEAR-TO						
Week Endin	g February				inc. 16% VAT)		-					nt (exc. 16%	VAT), USD	dry tonne	1
22nd, 2019 Index	Fe Content	Novemb	er December			MTD	QTD	YTD	November D			February	MTD	QTD	YTD
IOPLI62	62.5% Fe Lump	771	749	782	842	860	824	824	96.21	94.22	99.57	108.63	111.36	105.82	105.82
March 21st	IRON ORE INDEX PREMIUMS/DISCOUNTS											SEABORI	IF INDEX (LIS	D/DMT)	
March 21st, 2019 PORT STOCK INDEX (RMB/WT) March 21st, 2019 SEABORNE INDEX (USD/DMT)  Fe Content Spread to IOPI62 % Spread to IOPI62 Fe Content Spread to IOSI62 % Spread to IOSI62															
	, 2019 Fe Content		Spread			Spread to I	OPI62	IVIAI CII 213C,	Fe Content		Spre	ad to IOSI62	TE INDEX (OS		IOSI62
			-								Spre		TE III DEX (OS		

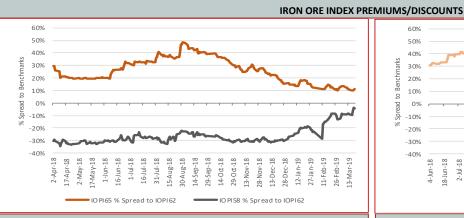




		IRO	ON ORE BRAND SP	OT PRICE ASSESMENTS				
March 21st, 2019	PORT	STOCK INDEX (R	MB/WT)	March 21st, 2019	SEABORNE INDEX (USD/DMT)			
	Price	Price Change Diff to IOPI62			Price	Change	Diff to IOSI62	
Roy Hill	605	1	-27	Roy Hill	81.37	0.73	-3.58	
SIMEC Fines	584	0	-48	SIMEC Fines	79.45	1.44	-5.50	
PB Fines	615	2	-17	PB Fines	84.95	0.01	0.00	
Newman Fines	643	1	11	Newman Fines	87.24	-0.47	2.29	
MAC Fines	612	3	-20	MAC Fines	82.20	1.14	-2.75	
Jimblebar Blended Fines	590	0	-42	Jimblebar Blended Fines	82.20	2.19	-2.75	
Carajas Fines	707	4	75	Carajas Fines	95.41	-1.23	10.46	
Brazilian SSF	647	4	15	Brazilian SSF	87.14	0.48	2.19	
Brazilian Blend Fines	645	5	13	Brazilian Blend Fines	87.64	-0.15	2.69	
RTX Fines	597	-4	-35	RTX Fines	82.20	1.81	-2.75	

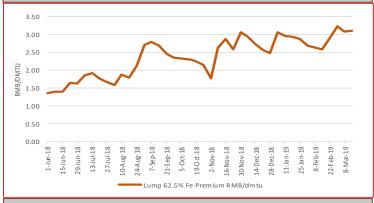
MG Blended Fines obe River Vestern Fines tlas Fines	PORT	PORT STOCK INDEX (RMB/WT)					
	Price	Change	Diff to IOPI58				
SSF	515	7	-88				
FMG Blended Fines	589	0	-14				
Robe River	533	2	-70				
Western Fines	522	2	-81				
Atlas Fines	517	1	-86				
Yandi	579	0	-24				

				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 (	USD/dry tonne	)
	Ар	Applicable range Value			Change		А	pplicable ran	ge	Value	Change
	High Grade	e Fe 60 - 63%		15.00	2.00		High Grad	de Fe 60 - 63	%	2.75	-0.50
	High Grade	e Fe 63 - 64%		13.00	0.00		High Grad	High Grade Fe 63 - 64%		2.50	0.00
1% Fe	High Grade	e Fe 64 - 65%		13.00	0.00	1% Fe	High Grad	de Fe 64 - 65	%	2.50	0.00
	High Grade	High Grade Fe 65 - 65.5%		13.00	0.00		High Grad	de Fe 65 - 65.	.5%	2.50	0.00
	Low Grade Fe			21.00	0.00						
	High Fe Gra	e Grade Al <2.25% e Grade Al 2.25-4%		27.00	0.00		High Fe G	High Fe Grade Al <2.25%		1.75	0.00
1% Alumina	High Fe Gra			4.00	2.00	40/ 41	High Fe G	rade Al 2.25	-4%	0.00	-0.25
	Low Fe Gra	de Al <2.25%		27.00	0.00	1% Alumina					
	Low Fe Gra	de Al 2.25-4%		57.00	-3.00						
	High Fe Gra	ade Si <4%		2.00	0.00		High Fe G	rade Si <4%		0.50	-0.25
1% Silica	High Fe Gra	ade Si 4-6.5%		13.00	0.00	1% Silica	High Fe Grade Si 4 - 6.5%		5%	0.00	-0.25
	Low Fe Gra	Low Fe Grade		26.00	0.00						
	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>-0.25</td></p<0<>	.115%	2.00	0.00	0.01%	High Fe G	rade 0.09%<	P<0.115%	0.00	-0.25
0.01%	High Fe Gra	ade 0.115% <p<< td=""><td>0.15%</td><td>4.00</td><td>2.00</td><td>Phosphorus</td><td>High Fe G</td><td>rade 0.115%</td><td><p<0.15%< td=""><td>0.00</td><td>-0.25</td></p<0.15%<></td></p<<>	0.15%	4.00	2.00	Phosphorus	High Fe G	rade 0.115%	<p<0.15%< td=""><td>0.00</td><td>-0.25</td></p<0.15%<>	0.00	-0.25
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 -5.00	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	-5.00	-5.00	Jingtang	-5.00	-5.00	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

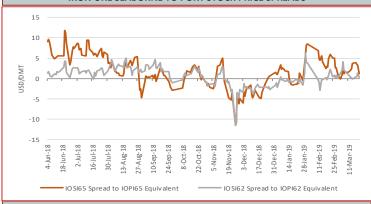




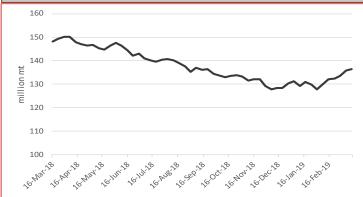
#### WEEKLY IRON ORE PORT STOCK LUMP PREMIUM (62.5% FE LUMP—62% FE FINES)



#### IRON ORE SEABORNE TO PORT STOCK PRICE SPREADS



#### TOTAL IRON ORE INVENTORIES AT CHINA PORTS

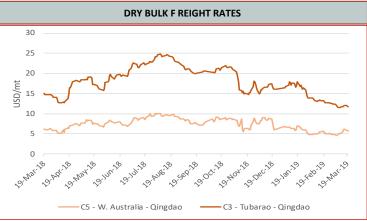


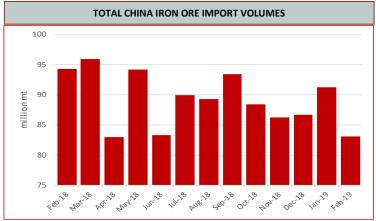
FUTURE TRADING—FRONT MONTH CLOSING PRICE	
650	
600	93 88
8M8 500	83 78 77 73 NzD/tonne
8 500 MM M	73 /QSN
450	68 63
2-Apr-18 17-Apr-18 17-Apr-18 11-Jun-18 16-Jun-18 16-Jul-18 16-Jul-18 31-Jul-18 31-Jul-18 31-Jul-18 31-Jul-18 31-Jul-18 31-Jul-18 31-Jul-18 31-Jul-18 14-Sep-18 29-Oct-18 29-Oct-18 13-Nov-18 27-Jan-19 17-Jan-19 27-Jan-19 27-Jan-19 27-Jan-19 27-Jan-19 26-Feb-19	58
—— 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	21st Mar 3pm close			21st Mar Feb 6 pm			
Contract	11905	Change	Change %	Apr'19	Change	Change %	
Closing Price	612.00	7.5	1.24%	82.80	0.18	0.22%	
Vol traded ('000 lots)	153.53	-81.1	-34.58%	12.82	-4.90	-27.65%	
Open positions ('000 lots)	96.96	-1.0	-1.06%	97.37	2.69	2.84%	
Day Low	607.0	6.0	1.00%	82.52	1.36	1.68%	
Day High	622.0	-17.0	-2.66%	83.85	-0.01	-0.01%	

IRON ORE FUTURES CONTRACTS





#### STEEL SPOT MARKET PRICES—CHINA

Steel Spot Market RMB/tonne			
Product	15/3/2019	Change	Change %
ReBar HRB400	3,918.0	16	0.41%
Wirerod Q300 ¢6.5mm	4,039.0	23	0.57%
HRC Q235/SS400 5.5mm*1500*C	3,835.0	-6	-0.16%
CRC SPCC/ST12 1.0mm*1250*2500	4,380.0	14	0.32%
Medium & Heavy Plate Q235B 20mm	3,993.0	-7	-0.18%
GI ST02Z 1.0mm*1000*C	4,775.0	-15	-0.31%
Billet Q235 150*150mm	3,500.0	40	1.16%



# China Export Prices USD/tonne Specification

Product	Specification		Change	% Change
		15/3/2019		
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	545	5	0.93%
Cold-rolled coil	SPCC 1.0mm	565	5	0.89%
Medium & Heavy plate	A-level Shipe plate 12-25mm	565	5	0.89%
Galvanised	ST02Z/SGCC 1.0mm	610	5	0.83%

**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\*118/1(15-0.13); Calculation formula for converting export prices of wire rod and hot-rolled steel into prices in hina's spot market = FOB\* exchange rate\*118/1(15-0.09); 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	86.22	0.79	Mmi CFR Equivalent index for 1st Feb
Coke	1,970	-100	2nd grade met coke, Tangshan, incl. tax
Steel Scrap	2,160	0	steel scrap (6mm) in Zhangjiagang, exl. tax
Billet Cost	2,971	-46	Q234, incl. tax
Rebar cost - Blast furnace	3,226	-44	calculated based on theoretical w eight, incl. tax
Rebar profit - Blast furnace	604	44	based on Shanghai prices, incl. tax
Hot-rolled coil cost - Blast furnace	3,296	-46	based on actual w eight, incl. tax
Hot-rolled coil proft - Blast furnace	544	56	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.

**CHINESE STEEL INVENTORIES** 

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

Total Steel Inventory at Steel Mills

## 

Total Social Steel Inventory

Steel Inve	Steel Inventories³ (unit: 1000 tonnes)										
Product	15/3/2019	8/3/2019	Change	Change %							
Rebar	9,721	10,138	-417	-4.11%							
Wirerod	2,953	3,116	-163	-5.23%							
Hot-rolled Coil	2,626	2,680	-54	-2.01%							
Medium & Thick Plate	1,246	1,316	-70	-5.32%							
Cold-rolled Coil	1,165	1,175	-10	-0.85%							
Total	17,712	18,538	-826	-4.46%							

<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 INDEA SPECIFICATIONS, COMPILATION RATIONALE AND DATA EXCLUSIONS											
	Iron Ore	Index Specifications	(Port and Seaborne	)	Rationale and Da	itionale 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							
Fe %	65.00	62.00	58.00	62.50	1.		olved in spot market in saction-level data su					
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	ist 90% of cargo:	Size below 6.3mm max 15%		Data Exc	clusions*	65%				
Sizing		um of 40% below 150	Size above 31.15mm max 25%	Port Index Seaborne index	0	0	0					
Pricing Point	Qingdao F	Port (FOT and CFR re	spectively)	FOT Qingdao Port	Lump Index 62.5							
Timing (Seaborne)	Loading withi	n 4 weeks, Delivery v	within 8 weeks	Delivery within 2 weeks			ore indices that were					

#### 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 21st, 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	61.58%	2.38%	3.67%	0.101%	9.24%	PB Fines 62%	62.00%	2.60%	4.30%	0.090%	10.00%
Newman Fines	62.42%	2.23%	4.09%	0.091%	7.41%	Newman Fines	62.80%	2.20%	4.30%	0.080%	6.40%
MAC Fines	60.94%	2.25%	4.74%	0.087%	7.10%	MAC Fines	61.00%	2.70%	4.70%	0.110%	9.30%
Jimblebar Blended Fines	61.06%	3.02%	4.18%	0.117%	7.40%	Jimblebar Blended Fines	61.79%	2.67%	4.08%	0.115%	7.16%
Carajas Fines	65.29%	1.32%	1.54%	0.074%	7.92%	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	62.67%	1.56%	4.93%	0.070%	8.42%	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 21st, 2019	Specifications applied for 58% brand assessments										
	Fe	Alumina	Silica	Phos	Moisture						
SSF	56.71%	3.10%	6.00%	0.051%	9.02%						
FMG Blended Fines	58.24%	2.71%	5.63%	0.064%	7.37%						
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%	1.50%	6.56%	0.044%	8.60%						

		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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