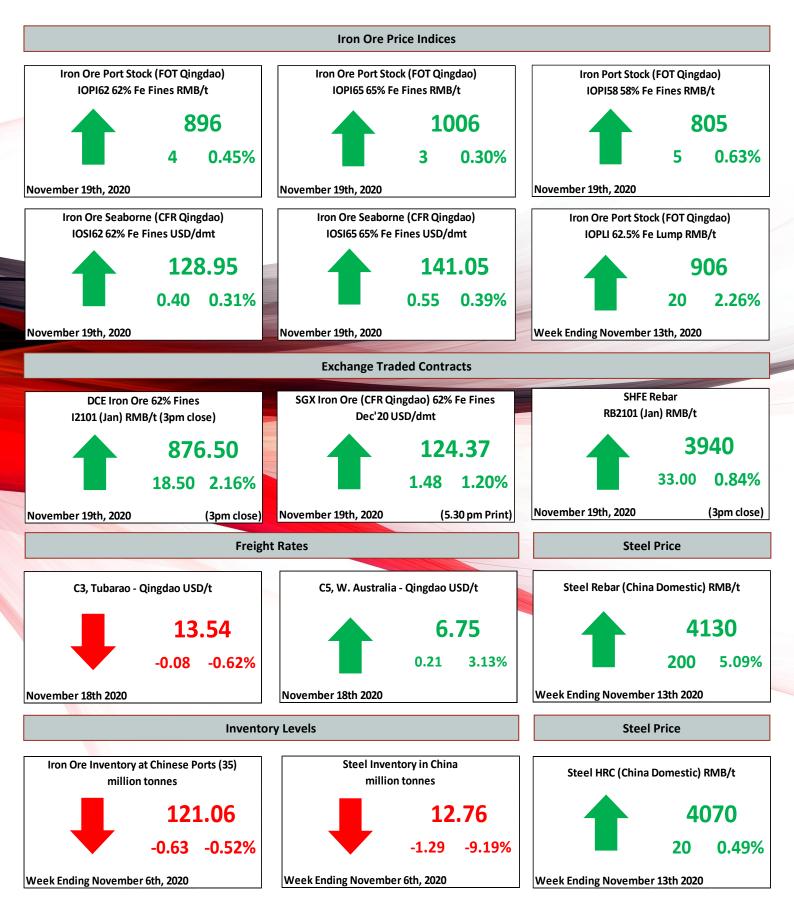


# **MMi Dashboard**



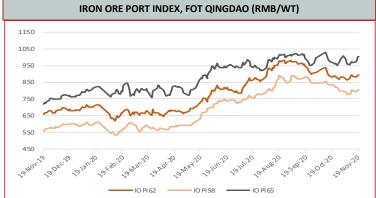
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# IRON ORE PORT STOCK INDEX (IOPI)

19th, 2020		FOT													
Fo Contont		POIN	FOT Qingdao (inc. 13% VAT), RMB/wet tonne							CFR Qingdao Equivalent (exc. 13% VAT), USD/dry tonne <sup>1</sup>					
Fe Content	Price	Change	Change %	6 MTD	YTD	Low <sup>2</sup>	High <sup>2</sup>	Price	Change	Change %	MTD	YTD	Low <sup>2</sup>	High <sup>2</sup>	
62% Fe Fines	896	4	0.4%	882	793	619	983	127.50	0.80	0.6%	123.96	106.19	81.37	133.69	
58% Fe Fines	805	5	0.6%	793	706	531	892	115.39	0.93	0.8%	112.37	95.14	70.02	122.73	
65% Fe Fines	1006	3	0.3%	981	899	719	1031	143.66	0.68	0.5%	138.44	120.77	94.91	143.73	
IRON ORE SEABORNE INDEX (IOSI) MARKET COMMENTARY															
19th, 2020			CFR Qin	igdao, USD/d	ry tonne				-		-				
Fe Content	Price	Change	Change %	6 MTD	YTD	Low <sup>2</sup>	High <sup>2</sup>								
62% Fe Fines	128.95	0.40	0.31%	124.12	104.61	80.65	132.25								
65% Fe Fines	141.05	0.55	0.39%	135.64	118.42	97.05	144.85								
IRON ORE PORT LUMP INDEX (IOPLI)															
gNovember		FOT C	Qingdao (in	c. 13% VAT),	RMB/wet t	onne		CFR Qingdao Equivalent (exc. 13% VAT), USD/dry tonne <sup>3</sup>						3	
Fe Content	Price	W-o-W	Change %	6 MTD	YTD	Low <sup>2</sup>	High <sup>2</sup>	Price	W-oW	Change %	MTD	YTD	Low <sup>2</sup>	High <sup>2</sup>	
62.5% Fe Lump	906	20	2.3%	896	880	785	969	122.40	3.98	3.36%	120.41	112.76	97.08	127.14	
		IRO	N ORE DO	MESTIC CO	NCENTRAT	E SPOT PI	RICE ASSES	SMENTS AI	ND COMP	OSITE INDEX	ĸ				
Ending November 13th 2020 RMB/tonne (excluding tax) <sup>3</sup>							ι	JSD/tonne	(excluding ta	ax) <sup>3</sup>					
Region	Product		Basis	This week	Change	%	Low <sup>2</sup>	High <sup>2</sup>	This	week	Change %	Low	2	High <sup>2</sup>	
Hanxing	66% Fe C	Concentrate	Dry	982	0.7%		763	1071	14	8.51	1.74%	109.2	21	157.74	
Qian'an	65% Fe C	Concentrate	Dry	975	1.6%		780	1040	14	7.45	2.59%	110.5	51	152.35	
Anshan	65% Fe C	Concentrate	Wet	785	0.0%		620	805	11	.8.72	1.01%	87.4	0	119.58	
Zibo	65% Fe C	Concentrate	Dry	1035	0.0%		795	1115	15	6.53	1.01%	113.3	34	163.06	
					ge %	Low <sup>2</sup>	High <sup>2</sup>	<sup>1</sup> Exchange rat	e applied: RMB	/USD = 6.5484 <sup>2</sup> La	ast 12 months				
	58% Fe Fines 65% Fe Fines 65% Fe Fines 65% Fe Fines 65% Fe Fines 65% Fe Fines 65% Fe Lump ng November 1 Agenon Hanxing Qian'an Anshan Zibo	S8% Fe Fines     805       55% Fe Fines     1006       I9th, 2020     IRC       19th, 2020     IRC       Fe Content     Price       62% Fe Fines     128.95       65% Fe Fines     141.05       g November     Irce       g November     Price       62.5% Fe Lump     906       Region     Product       Hanxing     66% Fe C       Qian'an     65% Fe C       Anshan     65% Fe C	S8% Fe Fines         805         5           58% Fe Fines         1006         3           IRON ORE SE           19th, 2020         IRON ORE SE           19th, 2020         Price         Change           62% Fe Fines         128.95         0.40           65% Fe Fines         141.05         0.55           g November           FOT C           FOT C           G           g November           FOT C           FOT C           G           g November           FOT C           G           FOT C           IRO           IRO	S8% Fe Fines         805         5         0.6%           55% Fe Fines         1006         3         0.3%           IRON ORE SEABORNE I           19th, 2020         CFR Qin           Fe Content         Price         Change         Change %           62% Fe Fines         128.95         0.40         0.31%           65% Fe Fines         141.05         0.55         0.39%           FOT Qingdao (in           Gong November 13th 2020           Region         Product         Basis           Qian'an         65% Fe Concentrate         Dry	S8% Fe Fines         805         5         0.6%         793           65% Fe Fines         1006         3         0.3%         981           IRON ORE SEABORNE INDEX (IOSI)           19th, 2020         CFR Qingdao, USD/d           Fe Content         Price         Change         Change         MTD           62% Fe Fines         128.95         0.40         0.31%         124.12           65% Fe Fines         141.05         0.55         0.39%         135.64           GNovember           FOT Qingdao (inc. 13% VAT),           FOT Qingdao (inc. 13% VAT), </td <td>S8% Fe Fines         805         5         0.6%         793         706           65% Fe Fines         1006         3         0.3%         981         899           IRON ORE SEABORNE INDEX (IOSI)           19th, 2020         CFR Qingdao, USD/dry tonne           Fe Content         Price         Change         Change         MTD         YTD           62% Fe Fines         128.95         0.40         0.31%         124.12         104.61           65% Fe Fines         141.05         0.55         0.39%         135.64         118.42           IRON ORE SEABORNE INDEX (IOSI)           IRON ORE SEABORNE INDEX (IOSI)           Generation of the second of the</td> <td>Since         Since         <t< td=""><td>Same of the second of</td><td>Since         Since         <t< td=""><td>Single Feines         Sole         Sole</td><td>Start         Start         <th< td=""><td>Since         Since         <t< td=""><td>Sinter       Bot       Orde       Orde</td><td>Construction       Construction       <t< td=""></t<></td></t<></td></th<></td></t<></td></t<></td>	S8% Fe Fines         805         5         0.6%         793         706           65% Fe Fines         1006         3         0.3%         981         899           IRON ORE SEABORNE INDEX (IOSI)           19th, 2020         CFR Qingdao, USD/dry tonne           Fe Content         Price         Change         Change         MTD         YTD           62% Fe Fines         128.95         0.40         0.31%         124.12         104.61           65% Fe Fines         141.05         0.55         0.39%         135.64         118.42           IRON ORE SEABORNE INDEX (IOSI)           IRON ORE SEABORNE INDEX (IOSI)           Generation of the second of the	Since         Since <t< td=""><td>Same of the second of</td><td>Since         Since         <t< td=""><td>Single Feines         Sole         Sole</td><td>Start         Start         <th< td=""><td>Since         Since         <t< td=""><td>Sinter       Bot       Orde       Orde</td><td>Construction       Construction       <t< td=""></t<></td></t<></td></th<></td></t<></td></t<>	Same of the second of	Since         Since <t< td=""><td>Single Feines         Sole         Sole</td><td>Start         Start         <th< td=""><td>Since         Since         <t< td=""><td>Sinter       Bot       Orde       Orde</td><td>Construction       Construction       <t< td=""></t<></td></t<></td></th<></td></t<>	Single Feines         Sole         Sole	Start         Start <th< td=""><td>Since         Since         <t< td=""><td>Sinter       Bot       Orde       Orde</td><td>Construction       Construction       <t< td=""></t<></td></t<></td></th<>	Since         Since <t< td=""><td>Sinter       Bot       Orde       Orde</td><td>Construction       Construction       <t< td=""></t<></td></t<>	Sinter       Bot       Orde       Orde	Construction       Construction <t< td=""></t<>	

 Week Ending November 13th 2020
 This week
 Change %
 Low ²
 High ²
 1 Exchange rate applied: RMB/USD = 6.5484 \*Last 12 months

 China Mines Concentrate Composite Index RMB/WT
 875.76
 0.29%
 702.47
 924.68
 1 Weekly exchange rate applied: RMB/USD = 6.5184

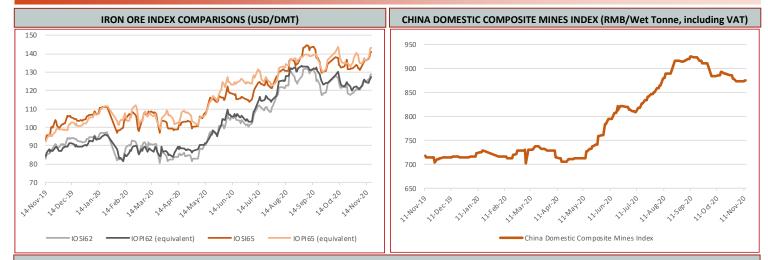




SD/dry tonne           QTD         YTD           5         123.20         106.19           7         112.37         95.14           4         133.82         120.77           BULK US\$/wet tonne           6         Low <sup>2</sup> High <sup>2</sup> 3.57         10.80									
QTD         YTD           6         123.20         106.19           7         112.37         95.14           4         133.82         120.77           BULK US\$/wet tonne             6         Low <sup>2</sup> High <sup>2</sup>									
5 123.20 106.19 7 112.37 95.14 4 133.82 120.77 BULK US\$/wet tonne 6 Low <sup>2</sup> High <sup>2</sup>									
7         112.37         95.14           4         133.82         120.77           BULK US\$/wet tonne            6         Low <sup>2</sup> High <sup>2</sup>									
4 133.82 120.77 BULK US\$/wet tonne 6 Low <sup>2</sup> High <sup>2</sup>									
BULK US\$/wet tonne 6 Low <sup>2</sup> High <sup>2</sup>									
6 Low <sup>2</sup> High <sup>2</sup>									
6 Low <sup>2</sup> High <sup>2</sup>									
3.57 10.80									
6.70 22.78									
CFR Qingdao Equivalent (exc. 13% VAT), USD/dry tonne <sup>1</sup>									
QTD YTD									
<b>1 119.43</b> 112.76									
IRON ORE INDEX PREMIUMS/DISCOUNTS									
19th, 2020 SEABORNE INDEX (USD/DMT)									
% Spread to IOSI62									
DPI65         65% Fe Fines         110         12.28%         IOSI65         65% Fe Fines         12.10         9.38%									

# MMi Daily Iron Ore Index Report

## November 19th, 2020



#### IRON ORE BRAND SPOT PRICE ASSESMENTS

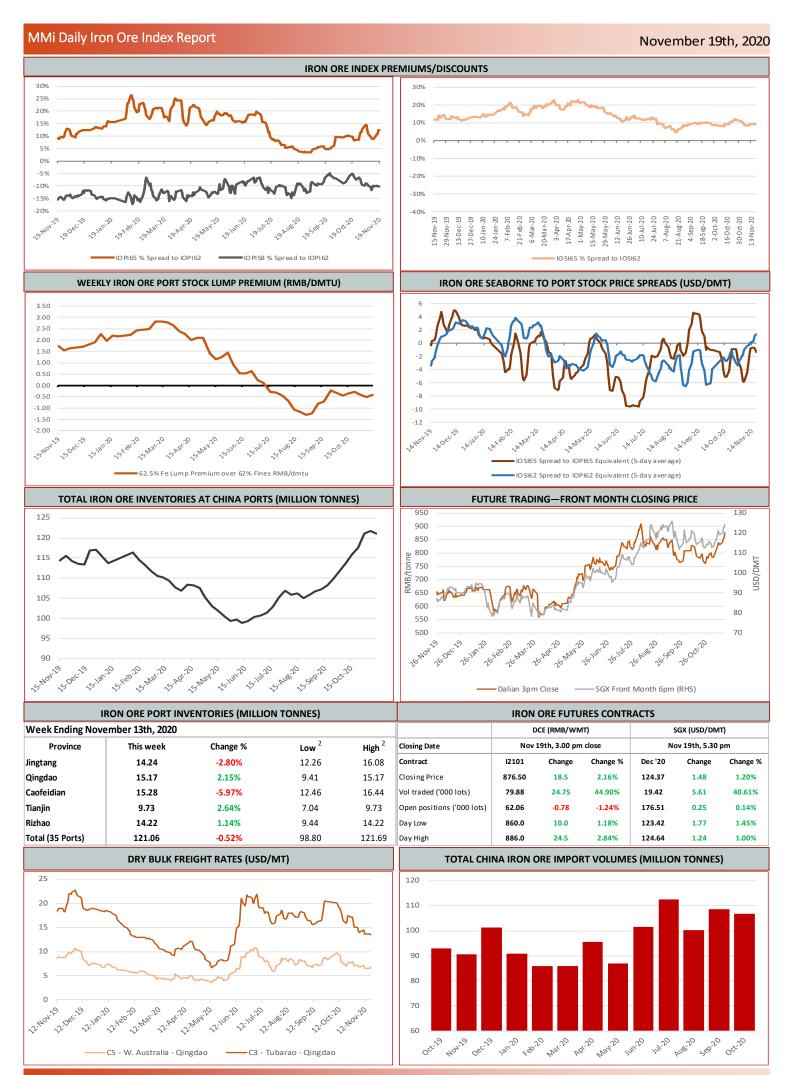
November 19th, 2020	PORT STOCK INDEX (RMB/WT)					
	Price	Change	Diff to IOPI62			
Roy Hill	872	4	-24	F		
SIMEC Fines	872	4	-24	5		
PB Fines	879	4	-17	F		
Newman Fines	899	5	3	r		
MAC Fines	880	4	-16	ľ		
Jimblebar Blended Fines	864	4	-32	J		
Carajas Fines	1006	4	110	0		
Brazilian SSF	914	4	18	E		
Brazilian Blend Fines	927	4	31	E		
RTX Fines	882	4	-14	F		
West Pilbara Fines	871	4	-25	1		
November 19th, 2020	PORT	STOCK INDEX (R	MB/WT)			
	Price	Change	Diff to IOPI58	]		
SSF	764	5	-41			
FMG Blended Fines	803	5	-2			
Robe River	776	5	-29			
Western Fines	778	5	-27			
Atlas Fines	810	5	5			
Yandi	832	5	27			

November 19th, 2020	SEABORNE INDEX (USD/DMT)							
	Price	Change	Diff to IOSI62					
Roy Hill	120.54	0.39	-8.41					
SIMEC Fines	111.09	0.39	-17.86					
PB Fines	125.81	0.31	-3.14					
Newman Fines	126.86	0.36	-2.09					
MAC Fines	121.67	0.37	-7.28					
Jimblebar Blended Fines	119.14	0.22	-9.81					
Carajas Fines	140.55	0.40	11.60					
Brazilian SSF	118.32	0.40	-10.63					
Brazilian Blend Fines	127.82	0.40	-1.13					
RTX Fines	119.59	0.19	-9.36					
West Pilbara Fines	120.14	0.39	-8.81					

				IRON ORE IN	NDEX NORMA	ALISATION DIFFER	RENTIALS				
Por	t Stock Index	Product Differ	entials (RM	MB/wet tonne	)	Se	aborne Inde	x Product D	ifferentials (l	JSD/dry tonne	2)
	Ар	Applicable range		Value	ue Change Applicable range		nge	Value	Change		
	High Grade	e Fe 60 - 63%		6.00	0.00		High Grad	de Fe 60 - 63	3%	2.50	0.00
	High Grade	e Fe 63 - 64%		23.00	0.00		High Grad	de Fe 63 - 64	1%	1.25	0.00
1% Fe	High Grade	e Fe 64 - 65%		23.00	0.00	1% Fe	High Grad	de Fe 64 - 65	5%	1.25	0.00
	High Grade	e Fe 65 - 65.5%		23.00	0.00		High Grad	de Fe 65 - 65	5.5%	1.25	0.00
	Low Grade	Fe		1.00	0.00						
	High Fe Gra	ade Al <2.25%		25.00	0.00		High Fe G	irade Al <2.2	5%	2.50	0.00
1% Alumina	High Fe Gra	ade Al 2.25-4%	5	2.00	0.00	1% Alumina	High Fe G	High Fe Grade Al 2.25-4%		4.25	0.25
1% Alumina	Low Fe Gra	de Al <2.25%		62.00	0.00	1% Alumina					
	Low Fe Gra	de Al 2.25-4%		32.00	0.00						
	High Fe Gra	ade Si <4%		15.00	0.00		High Fe G	rade Si <4%		2.00	0.00
1% Silica	High Fe Gra	ade Si 4-6.5%		13.00	0.00	1% Silica	High Fe G	irade Si 4 - 6	.5%	5.50	0.00
	Low Fe Gra	de		10.00	0.00						
0.01%	High Fe Gra	ade 0.09% <p<0< td=""><td>0.115%</td><td>1.00</td><td>0.00</td><td>0.01%</td><td>High Fe G</td><td>irade 0.09%</td><td><p<0.115%< td=""><td>0.00</td><td>0.00</td></p<0.115%<></td></p<0<>	0.115%	1.00	0.00	0.01%	High Fe G	irade 0.09%	<p<0.115%< td=""><td>0.00</td><td>0.00</td></p<0.115%<>	0.00	0.00
	High Fe Gra	ade 0.115% <p<< td=""><td>0.15%</td><td>1.00</td><td>0.00</td><td>Phosphorus</td><td>High Fe G</td><td>irade 0.115%</td><td>%<p<0.15%< td=""><td>0.25</td><td>0.00</td></p<0.15%<></td></p<<>	0.15%	1.00	0.00	Phosphorus	High Fe G	irade 0.115%	% <p<0.15%< td=""><td>0.25</td><td>0.00</td></p<0.15%<>	0.25	0.00
Phosphorus	Low Fe Gra	de 0.09 <p<0.1< td=""><td>%</td><td>5.00</td><td>0.00</td><td></td><td></td><td></td><td></td><td></td><td></td></p<0.1<>	%	5.00	0.00						
			Port St	ock Price Differe	ntials to Qingd	lao Port for PB Fine	es (RMB/wet t	onne)			
Port	Value	Change	Port	Value	Change	Port	Value	Change	Port	Value	Change
Bayuquan	-50.00	0.00	Fangcheng	-5.00	0.00	Lanshan	0.00	0.00	Rizhao	0.00	0.00
Beilun	-5.00	0.00	Jiangyin	-30.00	0.00	Lianyungang	0.00	0.00	Shekou	0.00	0.00
Caofeidian	0.00	5.00	Jingtang	0.00	5.00	Majishan	0.00	0.00	Taicang	-30.00	0.00
Dalian	-50.00	0.00	Lanqiao	0.00	0.00	Qingdao	0.00	0.00	Tianjin	-10.00	0.00

#### November 19th, 2020

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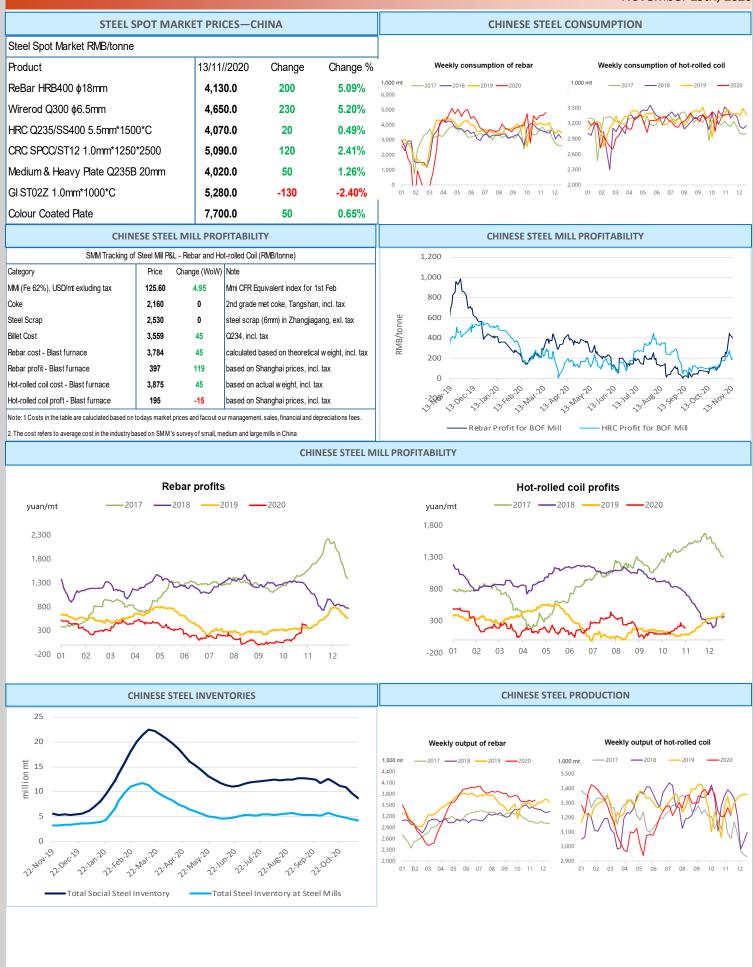
Page 4/6

## November 19th, 2020

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#### MMi Daily Iron Ore Index Report

### November 19th, 2020



		IRON ORE INDEX S	PECIFICATIONS, CO	MPILATION RATIONALE AND DAT	TA EXCLUSION	s			
	Iron Ore	Iron Ore Inde	ex Compilation I	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 from	data provided by co	mpanies that are	
Fe %	65.00	62.00	58.00	62.50		art of the iron ore supply chain and involved in spot market transactions. Idices are calculated using detailed transaction-level data submitted to M			
Alumina %	1.40	2.25	2.25	1.50	these companies. This data is normalised to the appropriate specifications screened to remove outliers before volume-weighted average prices are calculated from the remaining core set of data.				
Silica%	1.50	4.00	5.50	3.50					
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			Ū	
Moisture %	8.00	8.00	9.00	4.00					
	Granular cizo bo	low 10mm for at lea	ct 0.0% of cargo	Size below 6.3mm max 15%			clusions*		
Sizing			0		Port Index	62%	58%	65% 0	
-	maximu	ım of 40% below 150	micron	Size above 31.15mm max 25%	Seaborne index	0	U	0	
Pricing Point	Qingdao Port (FOT and CFR respectively)		FOT Qingdao Port	Lump Index 62.5	0				
Timing (Seaborne)	ning (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				
Payment Terms		L/C at sight		L/C at sight or CAD	index calculations today as they were anomalous and could not be verified				
		IRON ORE DO	MESTIC CONCENTR	ATE INDEX CALCULATION METHO	ODOLOGY				

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			
November 19th, 2020	Specifi	cations appli	ed for 62%	brand asses	sments		Specifications applied for 62% brand assessment				
	Fe	Alumina	Silica	Phos	Moisture		Fe	Alumina	Silica	Phos	Moisture
Roy Hill	60.95%	2.40%	4.36%	0.056%	9.34%	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%	2.31%	3.90%	0.100%	9.57%	PB Fines 62%	62.00%	2.60%	4.30%	0.090%	9.50%
Newman Fines	62.37%	2.34%	4.07%	0.092%	7.84%	Newman Fines	62.30%	2.40%	4.40%	0.090%	8.00%
MAC Fines	60.49%	2.39%	4.56%	0.079%	7.90%	MAC Fines	60.80%	2.35%	4.70%	0.080%	7.80%
Jimblebar Blended Fines	60.88%	2.98%	4.47%	0.113%	7.48%	Jimblebar Blended Fines	60.50%	3.00%	4.50%	0.120%	8.00%
Carajas Fines	65.04%	1.21%	1.85%	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	63.19%	1.17%	4.78%	0.082%	7.65%	Brazilian Blend Fines	63.00%	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%
West Pilbara Fines	60.10%	2.30%	4.70%	0.075%	8.50%	West Pilbara Fines	60.10%	2.30%	4.70%	0.075%	8.50%
November 19th, 2020	Specifi	cations appli	ed for 58%	brand asses	sments						
	Fe	Alumina	Silica	Phos	Moisture						
SSF	56.49%	3.16%	6.26%	0.062%	9.37%						
FMG Blended Fines	58.21%	2.50%	5.64%	0.055%	8.23%						
Robe River	56.44%	3.18%	5.74%	0.041%	8.41%						
Western Fines	57.88%	2.87%	7.50%	0.062%	7.45%						
Atlas Fines	58.00%	1.85%	5.50%	0.090%	9.00%						

BLOOMBERG TICKERS									
	PORT STO	CK INDICES		SEABORNE INDICES					
	FOT Qingdao (RMB/wet tonne)	CFR Qingdao Equivalent (USD/dry tonne)		CFR Qingdao (USD/DMT)					
IOPI62	IRCNQ001	IRCNQ004	IOSI62	IRCN0034					
IOPI58	IRCNQ002	IRCNQ005	IOSI65	IRCN0035					
IOPI65	IRCNQ003	IRCNQ006							
IOPLI62	IRCN0036	IRCN0037							

9.40%

CONTACT US	
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SMM Singapore Office Details: Level 28, Manulife Tower, 8 Cross Street Singapore. Tel: + 65 6850 7630 E: service.en@smm.cn	
SMM Shanghai Office Details: 9th FL, Building 9, Lujiazui Software Park, No.20, Lane 91, Pudong, Shanghai Tel: +86 021 5155 0306 E: service.en@smm.cn	price histories and archive of daily reports

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Yandi

57.00%

1.59%

6.40%

0.041%