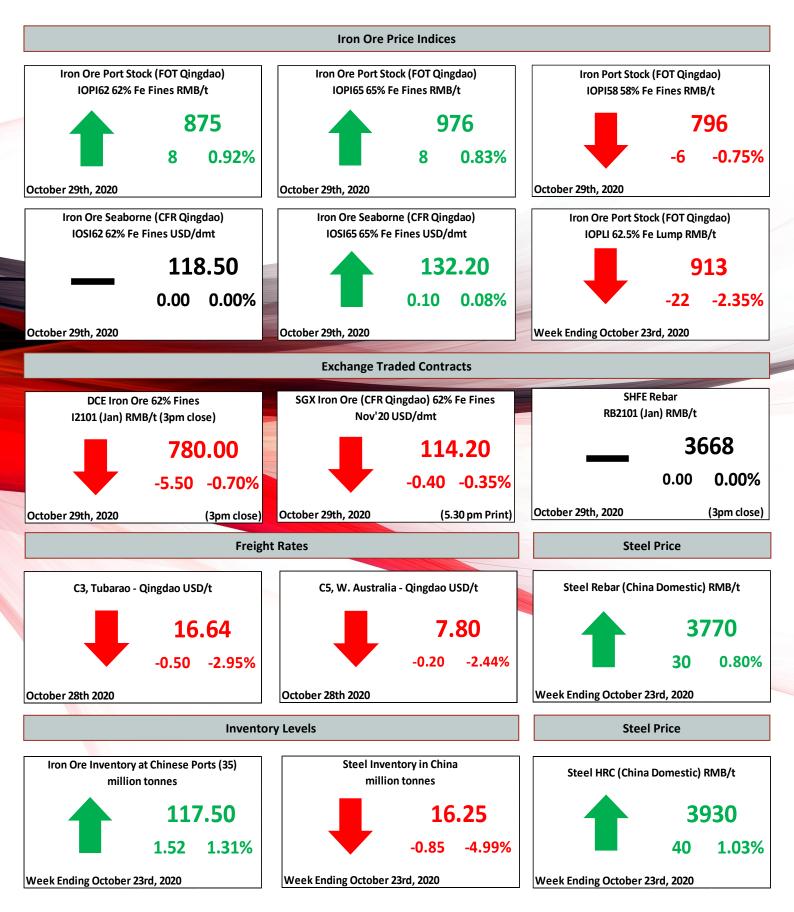


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# MMi Daily Iron Ore Index Report

October 29th, 2020

	IRON ORE PORT STOCK INDEX (IOPI)														
October 2	9th, 2020		FOT Q	ingdao	(inc. 13% VAT)	, RMB/wet	tonne			CFR Qing	dao Equivale:	nt (exc. 13%	VAT), USD/	dry tonne	1
Index	Fe Content	Price	Change	Change	e % MTD	YTD	Low <sup>2</sup>	High <sup>2</sup>	Price	Change	Change %	MTD	YTD	Low <sup>2</sup>	High <sup>2</sup>
IOPI62	62% Fe Fines	875	8	0.9%	893	787	619	983	121.13	1.03	0.9%	124.02	104.85	81.37	133.69
IOPI58	58% Fe Fines	796	-6	- <b>0.7</b> %	6 830	699	531	892	111.04	-0.98	-0.9%	116.27	93.85	70.02	122.73
IOPI65	65% Fe Fines	976	8	0.8%	981	893	696	1031	135.58	1.02	0.8%	136.59	119.43	91.81	143.73
		IR	ON ORE SEA	ABORN	E INDEX (IOSI	)			MARKET COMMENTARY						
October 2	9th, 2020			CFR (	Qingdao, USD/o	dry tonne					though physical iron ore Some steel mills in Tangs				
Index	Fe Content	Price	Change	Change	e % MTD	YTD	Low <sup>2</sup>	High <sup>2</sup>	High ry. However, in the afternoon, the Caofeidian district authority in Tangshan issued a document forbade the delivery of irro port from 29 Oct to 1st Nov. Thus some steel mills in Tangshan adjust their procurement plans resulting fewer deals today furnace operating rate increased slightly to 88.74% week on week, and rebar has been strong of late, and therefore mills of still expected to increase.		the delivery of iron				
IOSI62	62% Fe Fines	118.50	0.00	0.00	<b>6</b> 122.30	103.22	80.40	132.25			nd therefore mills de	emand for iron ore is			
IOSI65	65% Fe Fines	132.20	0.10	0.089	6 133.99	117.19	91.20	144.85							
IRON ORE PORT LUMP INDEX (IOPLI)															
Week Ending October 23rd, 2020 FOT Qingdao (inc. 13% VAT), RMB/wet tonne								CFR Qing	dao Equivaler	it (exc. 13%	VAT), USD/	dry tonne	3		
Index	Fe Content	Price	W-o-W	Change	% MTD	YTD	Low <sup>2</sup>	High <sup>2</sup>	Price	W-oW	Change %	MTD	YTD	Low <sup>2</sup>	High <sup>2</sup>
IOPLI62	62.5% Fe Lump	913	-22	-2.4%	<mark>6</mark> 927	879	785	969	122.14	-2.06	-1.66%	123.00	112.24	97.02	127.14
IRON ORE DOMESTIC CONCENTRATE SPOT PRICE ASSESSMENTS AND COMPOSITE INDEX															
Week Ending October 23rd, 2020 RMB/tonne (excluding ta						ding tax) <sup>3</sup>				USD/tonne	(excluding t	ax) <sup>3</sup>			
Province	Region	Product	:	Basis	This week	Change	e %	Low <sup>2</sup>	High <sup>2</sup>	Th	is week	Change %	Low	2	High <sup>2</sup>
Hebei	Hanxing	66% Fe	Concentrate	Dry	1006	-1.4%	6	763	1071 <b>150.61</b>		-0.60%	109.2	21	157.74	
Hebei	Qian'an	65% Fe	Concentrate	Dry	993	-0.7%	6	780	1040	1	48.66	0.08%	110.5	51	152.35
Liaoning	Anshan	65% Fe	Concentrate	Wet	790	-1.9%	6	620	805	1	.18.27	-1.09%	87.4	0	119.58
Shandong	Zibo	65% Fe	Concentrate	Dry	1045	-1.9%	6	795	1115	1	56.45	-1.11%	113.3	34	163.06
Week Endi	ng October 23rd,	2020		This	week Char	nge %	Low <sup>2</sup>	High <sup>2</sup>			B/USD = 6.7260				
China Mine	s Concentrate Co	mposite Inde	ex RMB/WT	88	7.24 - <mark>0</mark> .	65%	702.47	924.68	<sup>3</sup> Weekly exc	hange rate app	blied: RMB/USD 6.6	796			
	IRON	ORE PORT	INDEX, FO	r qing	DAO (RMB/W	/т)			IRON ORE SEABORNE INDEX, CFR QINGDAO (USD/DMT)						
1150								150						m	
1050						m	1.	140 —— 130 ——						-fm	m
950				N	my			120				- ~^	M	، خلیر	rh
850	~~~	$\sim$	m	$\checkmark$	m	<b>J v</b> = <b>c</b>	-	110 —	.~~	$\sim$	)m		$\sim$	<u> </u>	
750 650	when a	$\sim$	m	ر کر				<sup>100</sup> 90		$\sqrt{2}$					
550	Y man	$\sim$	m					80 50		$\sim$	h	~J'			
450								70 290 <sup>0,19</sup> 29 <sup>100</sup>			2				-
29.00,29	450 c.13 2. 10 r. 13 7. 10 2. 10 2. 10 10 10 2. 10 10 10 2. 10 10 10 10 10 10 10 10 10 10 10 10 10								290ec19	318 <sup>1,2</sup> 2,948	31-Mar 20 AP	31:May20	Jun 20 32: Jul 20	32 AUE 20 3058	220
		IO PI	62 10	PI 58 -	IO PI 65						IO SI62	- IO SI	65		
			IRC	ON ORE	PORT STOCK	INDEX MC	ONTHLY, O	QUARTERLY	AND YEAR	R-TO-DAT	E AVERAGES	5			
October 2	9th, 2020		FOT	Qingdao	(inc. 13% VAT	), RMB/wet	tonne			CFR Qin	gdao Equivale	nt (exc. 13%	۷AT), USD/	dry tonne	
							070	VTP		L.J.	A	C	MATO	0.75	

October 2	9th, 2020		FO	Qingdao (	inc. 13% VAT),	RMB/wet 1	ionne		CFR Qingdao Equivalent (exc. 13% VAT), USD/dry tonne						
Index	Fe Content	June	July	August	September	MTD	QTD	YTD	June	July	August	September	MTD	QTD	YTD
IOPI62	62% Fe Fines	807	844	948	946	893	893	787	93.74	105.69	127.65	129.64	124.02	124.02	104.85
IOPI58	58% Fe Fines	730	758	838	870	830	830	699	83.60	96.40	113.63	120.14	116.27	116.27	93.85
IOPI65	65% Fe Fines	943	948	992	998	981	981	893	110.98	124.25	133.70	136.85	136.59	136.59	119.43
IRO	IRON ORE SEABORNE INDEX MONTHLY, QUARTERLY AND YEAR-TO-DATE AVERAGES										F	REIGHT RAT	ES		

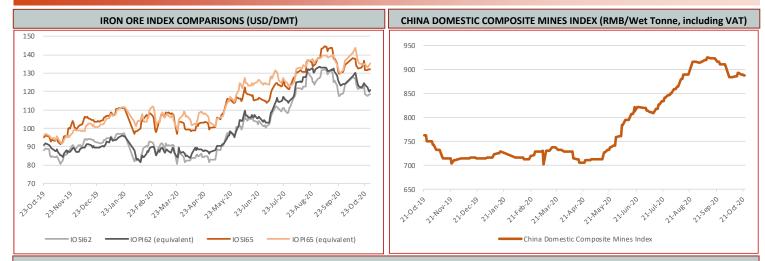
									6						
October 29	9th, 2020			CFR Qi	ngdao, USD/dı	ry tonne			October 28th 2020		FREIGHT RATES - DRY BULK US\$/wet tonne				ne
Index	Fe Content	June	July	August	September	MTD	QTD	YTD	Route	Designation		Change	Change %	Low <sup>2</sup>	High <sup>2</sup>
IOSI62	62% Fe Fines	103.49	108.23	124.02	126.26	122.30	122.30	103.22	W. Australia - Qingdao	C5	7.80	-0.20	-2.44%	3.57	10.80
IOSI65	65% Fe Fines	117.06	121.21	132.95	138.39	133.99	133.99	117.19	Tubarao - Qingdao	C3	16.64	-0.50	-2.95%	6.70	23.78
	IRON ORE PORT LUMP INDEX MONTHLY, QUARTERLY AND YEAR-TO-DATE AVERAGES														
Week Ending 2020	g October 23rd,		FOT	Qingdao (i	nc. 13% VAT),	RMB/wet	tonne		CFR (	Qingdao Ec	quivale	nt (exc. 13%	% VAT), USD,	/dry tonne	1
Index	Fe Content	June	July	August	September	MTD	QTD	YTD	June Ju	ily A	ugust	Septembe	r MTD	QTD	YTD
IOPLI62	62.5% Fe Lump	888	875	932	959	927	927	879	111.88 11	1.35 12	20.08	125.87	123.00	123.00	112.24

IRON ORE INDEX PREMIUMS/DISCOUNTS											
October 29th, 202	20	PORT STOCK I	October 29th, 2	2020	SEABORNE INDEX (USD/DMT)						
Index	Fe Content	Spread to IOPI62	% Spread to IOPI62	Index	Fe Content	Spread to IOSI62	% Spread to IOSI62				
IOPI58 58% Fe Fines		-79	-9.03%								
IOPI65	65% Fe Fines	101	11.54%	IOSI65	65% Fe Fines	13.70	11.56%				

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## MMi Daily Iron Ore Index Report

## October 29th, 2020



#### IRON ORE BRAND SPOT PRICE ASSESMENTS

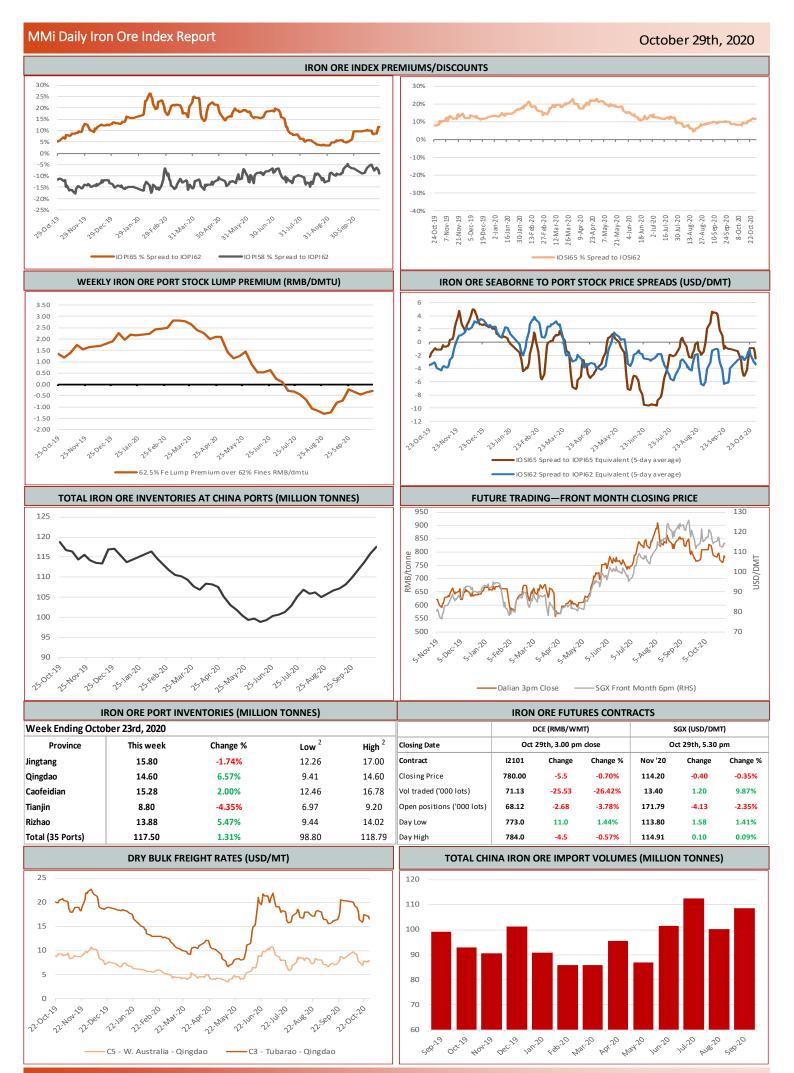
October 29th, 2020	PORT	STOCK INDEX (R	MB/WT)	0
	Price	Change	Diff to IOPI62	1
Roy Hill	849	8	-26	F
SIMEC Fines	855	8	-20	5
PB Fines	857	8	-18	F
Newman Fines	877	8	2	ſ
MAC Fines	857	8	-18	r
Jimblebar Blended Fines	829	8	-46	J
Carajas Fines	976	8	101	0
Brazilian SSF	890	8	15	E
Brazilian Blend Fines	902	8	27	E
RTX Fines	846	8	-29	F
West Pilbara Fines	850	8	-25	1
October 29th, 2020	PORT	STOCK INDEX (R	MB/WT)	
	Price	Change	Diff to IOPI58	]
SSF	765	-6	-31	
FMG Blended Fines	795	-6	-1	
Robe River	776	-6	-20	
Western Fines	781	-6	-15	
Atlas Fines	804	-6	8	
Yandi	805	-6	9	

POT PRICE ASSESIVIENTS			
October 29th, 2020	SEABC	RNE INDEX (US	D/DMT)
	Price	Change	Diff to IOSI62
Roy Hill	109.07	0.00	-9.43
SIMEC Fines	98.22	0.00	-20.28
PB Fines	114.27	0.00	-4.23
Newman Fines	115.67	0.00	-2.83
MAC Fines	110.30	0.00	-8.20
Jimblebar Blended Fines	105.50	0.00	-13.00
Carajas Fines	131.39	0.00	12.89
Brazilian SSF	105.69	0.00	-12.81
Brazilian Blend Fines	116.56	0.00	-1.94
RTX Fines	104.60	0.00	-13.90
West Pilbara Fines	108.87	0.00	-9.63

				IRON ORE IN	DEX NORM	ALISATION DIFFER	ENTIALS				
Por	t Stock Index	Product Differ	entials (RI	MB/wet tonne	)	Se	aborne Inde	ex Product D	ifferentials (	JSD/dry tonne	:)
	Ар	plicable range		Value	Change		A	Applicable range		Value	Change
	High Grade	e Fe 60 - 63%		6.00	0.00		High Grad	de Fe 60 - 63	%	2.50	0.00
	High Grade	e Fe 63 - 64%		28.00 0.00			High Grade Fe 63 - 64%			1.50	0.00
1% Fe	High Grade Fe 64 - 65%			28.00	0.00	1% Fe	High Grad	de Fe 64 - 65	%	1.50	0.00
	High Grade	e Fe 65 - 65.5%	.	28.00 0.00			High Grade Fe 65 - 65.5		.5%	1.50	0.00
	Low Grade	Fe		1.00	0.00						
	High Fe Gra	ade Al <2.25%		19.00 0.00			High Fe G	irade Al <2.2	5%	2.75	0.00
1% Alumina	High Fe Gra	ade Al 2.25-4%	5	21.00	0.00	10/ Alumaina	High Fe G	irade Al 2.25	-4%	6.50	0.00
	Low Fe Gra	de Al <2.25%		29.00	0.00	1% Alumina					
	Low Fe Gra	de Al 2.25-4%		23.00	0.00						
	High Fe Gra	ade Si <4%		9.00	0.00		High Fe G	irade Si <4%		2.25	0.00
1% Silica	High Fe Gra	High Fe Grade Si 4-6.5%			0.00	1% Silica	High Fe G	High Fe Grade Si 4 - 6.5%			0.00
	Low Fe Gra	Low Fe Grade			0.00						
0.010/	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%&lt;</td><td><p<0.115%< td=""><td>0.25</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>0.25</td><td>0.00</td></p<0.115%<>	0.25	0.00
0.01%	High Fe Gra	ade 0.115% <p<< td=""><td>&lt;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>6<p<0.15%< td=""><td>1.00</td><td>0.00</td></p<0.15%<></td></p<<>	<0.15%	1.00	0.00	Phosphorus	High Fe G	irade 0.115%	6 <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>1.00</td><td>0.00</td><td></td><td></td><td></td><td></td><td></td><td></td></p<0.1<>	%	1.00	0.00						
			Port St	ock Price Differe	ntials to Qingo	dao Port for PB Fine	s (RMB/wet t	tonne)			
Port	Value	Change	Port	Value	Change	e Port	Value	Change	Port	Value	Change
Bayuquan	-60.00	0.00	Fangcheng	, <b>-5.00</b>	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	0.00	Jingtang	0.00	0.00	Majishan	0.00	0.00	Taicang	-30.00	0.00
Dalian	-55.00	0.00	Langiao	0.00	0.00	Qingdao	0.00	0.00	Tianjin	-20.00	0.00

#### October 29th, 2020

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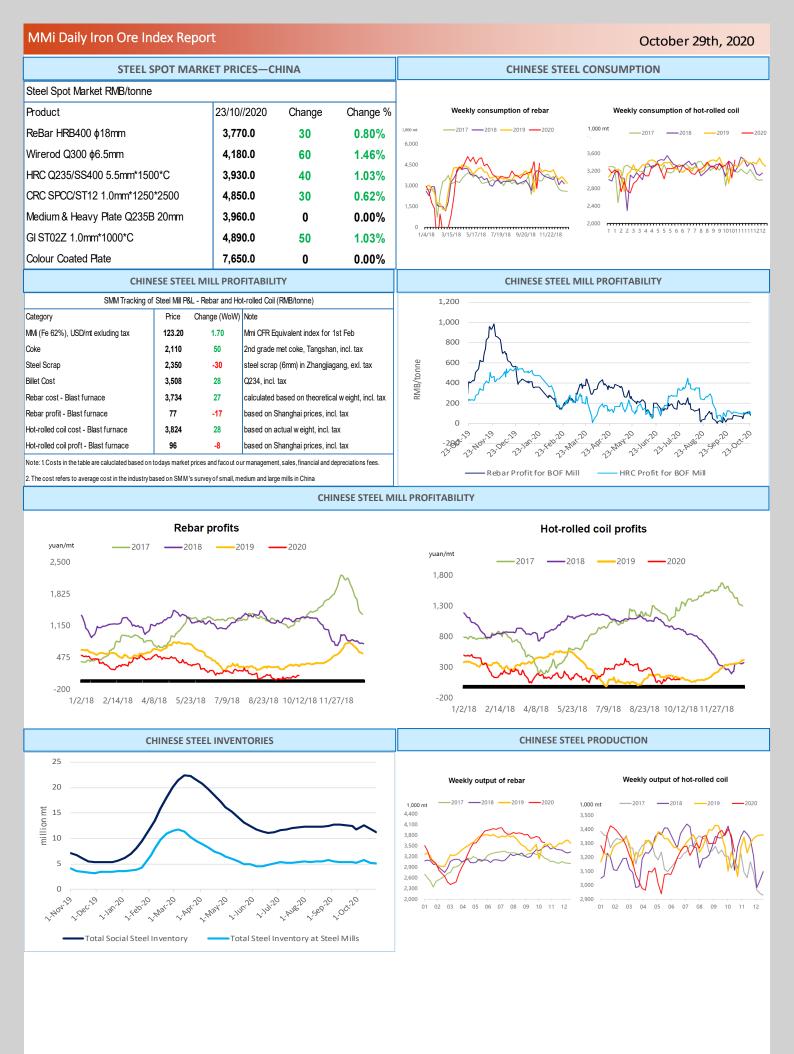


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		IRON ORE INDEX S	PECIFICATIONS, CO	MPILATION RATIONALE AND DA	TA EXCLUSIONS	5				
	Iron Ore	Index Specifications	(Port and Seaborne	2)	Iron Ore Inde	x Compilation F	Rationale and Da	ta Exclusions		
	65% Fe Fines	62% Fe Fines	58% Fe Fines	62.5% Fe Lump		MMi iron ore indices are compiled from data provided by companies that part of the iron ore supply chain and involved in spot market transactions				
Fe %	65.00	62.00	58.00	62.50	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			lusions*			
Ciaina	Granular size be	low 10mm for at lea	st 90% of cargo;	Size below 6.3mm max 15%		62%	58%	65%		
Sizing	maximu	ım of 40% below 150	) micron	Size above 31.15mm max 25%	Port Index Seaborne index	0	0	0		
Pricing Point	Qingdao P	ort (FOT and CFR res	spectively)	FOT Qingdao Port	Lump Index 62.5	0		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 or CAD	index calculations today as they were anomalous and could not be verified							
		IRON ORE DO	MESTIC CONCENTR	ATE INDEX CALCULATION METH	DDOLOGY					

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			SEABORNE BRANDS							
October 29th, 2020	Specifi	cations appli	ed for 62%	brand asses	sments		Specifi	Specifications applied for 62% brand assessments					
	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	61.67%	2.31%	3.90%	0.101%	9.58%	PB Fines 62%	62.00%	2.60%	4.30%	0.090%	9.50%		
Newman Fines	62.35%	2.32%	4.09%	0.092%	7.77%	Newman Fines	62.30%	2.40%	4.40%	0.090%	8.00%		
MAC Fines	60.50%	2.39%	4.54%	0.079%	8.03%	MAC Fines	60.80%	2.35%	4.70%	0.080%	7.80%		
Jimblebar Blended Fines	60.84%	3.00%	4.47%	0.113%	7.51%	Jimblebar Blended Fines	60.50%	3.00%	4.50%	0.120%	8.00%		
Carajas Fines	65.06%	1.23%	1.82%	0.066%	8.14%	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%		
October 29th, 2020	Specifi	cations appli	ed for 58%	brand asses	sments								
	Fe	Alumina	Silica	Phos	Moisture								
SSF	56.48%	3.15%	6.27%	0.061%	9.40%								
FMG Blended Fines	58.19%	2.52%	5.66%	0.053%	8.30%								
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%								
Yandi	57.05%	1.57%	6.47%	0.041%	9.34%								

	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									

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