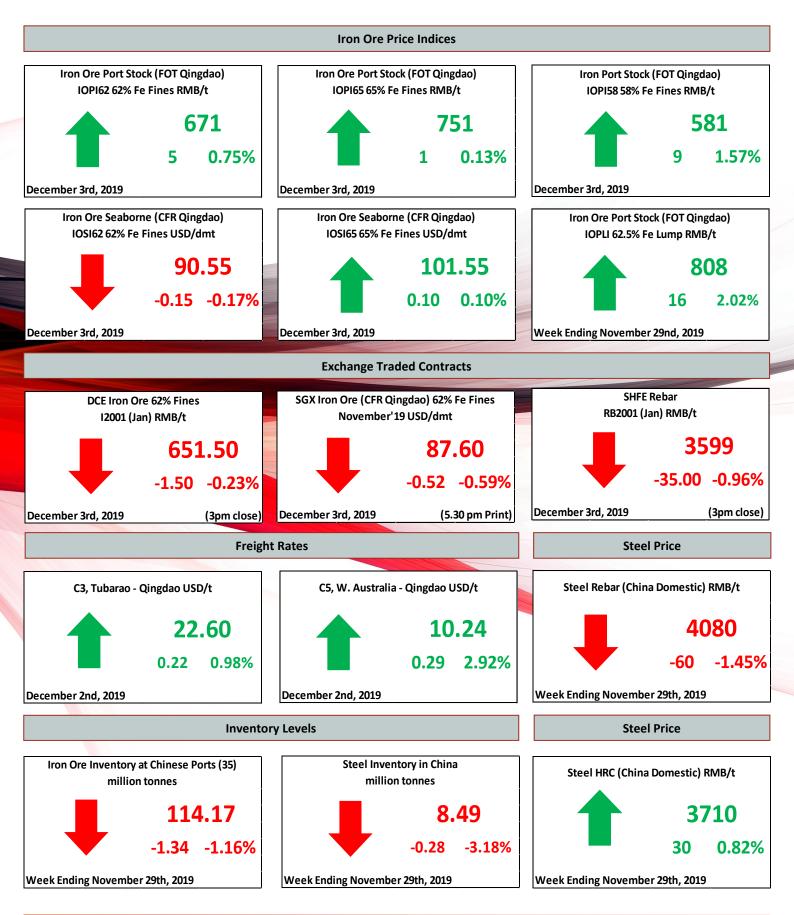


# **MMi Dashboard**



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## MMi Daily Iron Ore Index Report

December 3rd, 2019

	any fron C	re mue.	х кероп											Decen	nber 3r	d, 2019
	IRON ORE PORT STOCK INDEX (IOPI)															
December	<sup>.</sup> 3rd, 2019		FOT	Qingdao (	nc. 13% VAT),	RMB/wet	tonne			CFR Qi	ngdao Eo	quivaler	nt (exc. 13%	VAT), USD/	dry tonne	, <sup>1</sup>
Index	Fe Content	Price	Change	Change	e % MTD YTD Low		Low <sup>2</sup>	High <sup>2</sup>	Price	Char	ge Ch	ange %	MTD	YTD	Low <sup>2</sup>	High <sup>2</sup>
OPI62	62% Fe Fines	671	5	0.8%	669	721	541	928	88.08	0.7	4	0.8%	87.71	96.14	69.73	126.12
OPI58	58% Fe Fines	581	9	1.6%	577	632	379	823	76.58	1.2	9 :	1.7%	75.94	84.46	47.67	112.44
OPI65	65% Fe Fines	751	1	0.1%	751	787	654	992	99.04	0.2	5 (	0.3%	98.94	105.37	85.47	135.34
		IR	ON ORE SE	ABORNE	INDEX (IOSI)							MARK	ET COMME	NTARY		
ecember	<sup>.</sup> 3rd, 2019			CFR Q	ngdao, USD/d	ry tonne							iron ore arrived at maj		-	
ndex	Fe Content	Price	Change	Change	% MTD	YTD	Low <sup>2</sup>	High <sup>2</sup>	arrivals may see a :	sharp decline	next week base	ed on the deliv	raight week of increase very period. Last week, remained below the le	iron ore deliveries l	eaving Australian p	orts recovered
OSI62	62% Fe Fines	90.55	-0.15	-0.17%	90.63	94.09	65.75	127.50	departed Brazilian	ports were e	timated to shri	ink for the sec	cond straight week by 5 f steel products support	60,000 mt, to stand	at 6.36 million mt,	lower from the
<b>DSI65</b>	65% Fe Fines	101.55	0.10	0.10%	101.50	5.48	83.50	137.95					eaborne iron ore prices cember 3, SMM assesse			
	'					IRON OR	RE PORT LI	UMP INDEX	(IOPLI)							
	ng November		FOT (	)ingdao (i	nc. 16% VAT),						adao Ec	wivalen	nt (exc. 16% )		dry toppe	3
9nd, 2019 ndex	Fe Content	Price	W-o-W	Change		YTD	Low <sup>2</sup>	High <sup>2</sup>	Price	W-o	-	ange %	MTD	YTD	Low <sup>2</sup>	High <sup>2</sup>
OPLI62	62.5% Fe Lump		16	2.0%	794	875	<b>LOW</b> 743	ні <b>дп</b> 1051	99.51	1.7		74%	97.89	110.63	93.24	ніgn 133.81
							1					110.03	95.24	155.61		
IRON ORE DOMESTIC CONCENTRATE SPOT PRICE ASSESSMENTS AND COMPOSITE INDEX         Veek Ending November 29th, 2019         RMB/tonne (excluding tax) <sup>3</sup> USD/tonne (excluding tax) <sup>3</sup>																
	-						-	• •	USD/tonne (excluding tax) <sup>3</sup>							
rovince	Region	Product		Basis	This week	Change		Low <sup>2</sup>	High <sup>2</sup>		This wee		Change %	Low		High <sup>2</sup>
lebei	Hanxin	g 66% Fe	Concentrate	Dry	800	4.4%	6	644	1032		113.75		4.16%	93.5	8	150.03
lebei	Qian'ar	65% Fe	Concentrate	Dry	830	0.6%	6	690	960		118.01		0.33%	100.	26	139.35
iaoning	Anshar	65% Fe	Concentrate	Wet	650	0.0%	%	535	745		92.42		-0.27%	77.3	9	104.66
handong	Zibo	65% Fe	Concentrate	Dry	810	1.9%	%	740	1040		115.17	·	1.61%	106.	55	151.33
Week Ending November 29th, 2019     This week     Change %     Low <sup>2</sup> High <sup>2</sup> <sup>1</sup> Exchange rate applied: RMB/USD = 7.0262 <sup>2</sup> Last 12 months       China Minac Composite Index PMP (WT     742.20     1.3%     COD.04     950.50																
China Mines Concentrate Composite Index RMB/WT     713.20     1.3%     609.04     859.50     Incent canage that spin and																
	IRON	ORE POR	I INDEX, FO		ao (rmb/w	1)			IRON O	RE SEA	BORNE	INDEX	, CFR QING	DAO (USD	(DMT)	
1050 — 950 —				- A	Δ			145 — 135 —								
850 -			^	Jyn	4			125				ر	n Mm	$\sim$		
750 —			ممكمهم	~~~~	- have	my-	a mar	115 — 105 —		$\sim$	$\sim$	لىر			0	
650	~~~~	min		~		and the		95	ركىمىر		~~	w	~		JV~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
5 50 🦟								85 <b>A</b>								~
450 -								65								
250								45								
3.00018	3.1an.19 3.tep19	Mar.19 3-APr.19	3.May 19 3.100-1	2.111.19	AUE 3.5EP 19 3.0	Jet-19 3.Nov.19	3.780-19	29740412906	29130119 28	+eb-19 31	Nar. 19 30 A.C	1-19 31-May	19 30111119 3111	U1-19 31-AUE19	05ep-19 31-0r	301104-29
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		IO P	162	O PI 58	IO PI 65							IO SI62		65		
			IR	ON ORE	PORT STOCK	INDEX MO	ONTHLY, (	QUARTERLY	AND YEAR	-TO-D	ATE AVI	RAGES	S			
December	3rd, 2019		FOT	Qingdao	inc. 13% VAT),	RMB/wet	tonne			CFR C	ingdao E	quivale	nt (exc. 13%	VAT), USD,	dry tonne	;
ndex	Fe Content	August	September	Octobe	November	MTD	QTD	YTD	August	Septer	nber O	ctober	November	MTD	QTD	YTD
OPI62	62% Fe Fines		758	721	665	669	690	721	123.29	100		94.29	87.30	87.71	90.39	96.14
OPI58	58% Fe Fines		674	636	567	577	598	632	110.47	91.		33.57	74.67	75.94	78.64	84.46
OPI65	65% Fe Fines		803	758	723	751	740	787	129.53	108	92 9	99.32	95.29	98.94	97.24	105.37
IRO	N ORE SEABO	ORNE INDE	X MONTHL	Y, QUAR	TERLY AND Y	EAR-TO-D	DATE AVEF	RAGES				FR	REIGHT RAT	ES		
ecember	<sup>•</sup> 3rd, 2019			CFR Q	ingdao, USD/d	ry tonne			December 2n	id, 2019			FREIGHT RA	TES - DRY BUL		
ndex	Fe Content	August	September	Octobe	r November	MTD	QTD	YTD	Route		Designation	ו	Change	Change %	Low <sup>2</sup>	High <sup>2</sup>
OSI62	62% Fe Fines		93.76	90.81	85.83	90.63	88.48	94.09	W. Australia - C	Qingdao	C5	10.24	0.29	2.92%	4.39	11.42
OSI65	65% Fe Fines	5 101.34	99.42	97.45	96.49	101.50	97.18	5.48	Tubarao - Qing	dao	C3	22.60	0.22	0.98%	11.61	29.10
			IR	ON ORE	PORT LUMP I	NDEX MC	ONTHLY, C	UARTERLY	AND YEAR	TO-D/	TE AVE	RAGES				
leek Endin	ıg November		EOT	Oingdac	inc 16% (/AT)	RMR/wo+	tonne			CEP O	ngdao E	auivalo	nt (evc. 16%		/dry topp	

Week Endin 29nd, 2019	Ending November 2019 FOT Qingdao (inc. 16% VAT), RMB/wet tonne								CFR Qingdao Equivalent (exc. 16% VAT), USD/dry tonne <sup>1</sup>						ı
Index	Fe Content	August	September	October	November	MTD	QTD	YTD	May	June	July	November	MTD	QTD	YTD
IOPLI62	62.5% Fe Lump	870	803	829	794	794	807	875	132.99	108.80	98.44	97.89	97.89	99.34	110.63
	IRON ORE INDEX PREMIUMS/DISCOUNTS														

December 3rd, 2019		PORT STOCK IN	December 3rd, 2	019	SEABORNE INDEX (USD/DMT)							
Index	Fe Content	Spread to IOPI62 % Spread to IOPI62 I		Index	Fe Content	Spread to IOSI62	% Spread to IOSI62					
IOPI58	58% Fe Fines	-90	-13.41%									
IOPI65	65% Fe Fines	80	11.92%	IOSI65	65% Fe Fines	11.00	12.15%					

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## MMi Daily Iron Ore Index Report

## December 3rd, 2019



## IRON ORE BRAND SPOT PRICE ASSESMENT

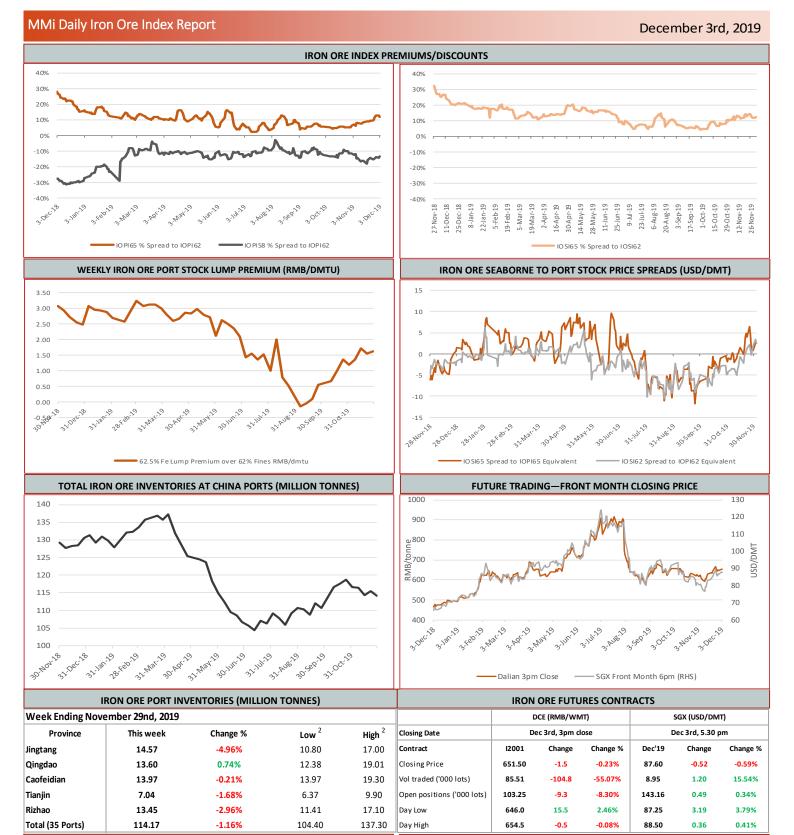
December 3rd, 2019	PORT STOCK INDEX (RMB/WT)							
	Price	Change	Diff to IOPI62	Γ				
Roy Hill	631	6	-40	F				
SIMEC Fines	596	7	-75	s				
PB Fines	651	5	-20	F				
Newman Fines	673	5	2	٢				
MAC Fines	641	6	-30	r				
Jimblebar Blended Fines	577	7	-94	J				
Carajas Fines	761	2	90	C				
Brazilian SSF	642	2	-29	E				
Brazilian Blend Fines	680	3	9	E				
RTX Fines	604	6	-67	F				
West Pilbara Fines	632	7	-39	V				
December 3rd, 2019	PORT	STOCK INDEX (R	MB/WT)					
	Price	Change	Diff to IOPI58					
SSF	548	9	-33					
FMG Blended Fines	589	9	8					
Robe River	554	9	-27					
Western Fines	539	9	-42					
Atlas Fines	527	9	-54					
Yandi	557	10	-24					

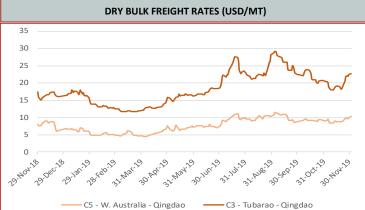
OT PRICE ASSESMENTS										
December 3rd, 2019	SEABORNE INDEX (USD/DMT)									
	Price	Change	Diff to IOSI62							
Roy Hill	87.20	-0.15	-3.35							
SIMEC Fines	83.17	-0.15	-7.38							
PB Fines	88.92	-0.15	-1.63							
Newman Fines	90.49	-0.15	-0.06							
MAC Fines	85.92	0.35	-4.63							
Jimblebar Blended Fines	76.30	-0.02	-14.25							
Carajas Fines	101.51	0.42	10.96							
Brazilian SSF	86.49	-0.15	-4.06							
Brazilian Blend Fines	89.74	-0.15	-0.81							
RTX Fines	82.17	-0.03	-8.38							
West Pilbara Fines	87.25	-0.15	-3.30							

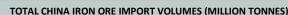
				IRON ORE IN	DEX NORM	ALISATION DIFFER	ENTIALS				
Por	t Stock Index	Product Differ	entials (R	MB/wet tonne	)	Sea	aborne Inde	x Product Di	fferentials (	USD/dry tonne	2)
	Ар	plicable range		Value	Change		A	pplicable ran	ge	Value	Change
	High Grade	e Fe 60 - 63%		6.00	-1.00		High Grad	de Fe 60 - 63	%	0.75	0.00
	High Grade	e Fe 63 - 64%		12.00	0.00		High Grad	de Fe 63 - 64	%	1.50	0.00
1% Fe	High Grade Fe 64 - 65%			12.00	0.00	1% Fe	High Grade Fe 64 - 65%		%	1.50	0.00
	High Grade Fe 65 - 65.5%			12.00	0.00		High Grad	High Grade Fe 65 - 65.5%		1.50	0.00
	Low Grade Fe			12.00	0.00						
	High Fe Gr	ade Al <2.25%		30.00	-2.00		High Fe G	rade Al <2.2	5%	1.75	0.00
	High Fe Grade Al 2.25-		.	42.00	0.00	10/ 11/10/	High Fe G	rade Al 2.25	-4%	2.50	0.00
1% Alumina	Low Fe Gra	Low Fe Grade Al <2.25%			2.00	1% Alumina					
	Low Fe Gra	de Al 2.25-4%		3.00	0.00						
	High Fe Gr	ade Si <4%		10.00	0.00		High Fe G	rade Si <4%		2.50	0.25
1% Silica	High Fe Gr	High Fe Grade Si 4-6.5%			0.00	1% Silica	High Fe G	rade Si 4 - 6.	.5%	2.50	0.00
	Low Fe Gra	Low Fe Grade			0.00						
0.010/	High Fe Gr	ade 0.09% <p<0< td=""><td>.115%</td><td>5.00</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>-0.25</td></p<0<>	.115%	5.00	0.00	0.01%	High Fe G	rade 0.09%<	P<0.115%	0.50	-0.25
0.01%	High Fe Gr	ade 0.115% <p<< td=""><td>0.15%</td><td>0.00</td><td>0.00</td><td>Phosphorus</td><td colspan="2">High Fe Grade 0.115%<p<0.15%< td=""><td><p<0.15%< td=""><td>1.50</td><td>0.25</td></p<0.15%<></td></p<0.15%<></td></p<<>	0.15%	0.00	0.00	Phosphorus	High Fe Grade 0.115% <p<0.15%< td=""><td><p<0.15%< td=""><td>1.50</td><td>0.25</td></p<0.15%<></td></p<0.15%<>		<p<0.15%< td=""><td>1.50</td><td>0.25</td></p<0.15%<>	1.50	0.25
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 Qing	dao Port for PB Fine	s (RMB/wet t	onne)			
Port	Value	Change	Port	Value	Change	e Port	Value	Change	Port	Value	Change
Bayuquan	-50.00	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	-15.00	0.00	Lianyungang	0.00	0.00	Rizhao	0.00	0.00
Caofeidian	-10.00	0.00	Jingtang	-10.00	0.00	Majishan	0.00	0.00	Shekou	0.00	0.00
Dalian	-50.00	0.00	Lanqiao	0.00	0.00	Nantong	-15.00	0.00	Tianjin	0.00	0.00

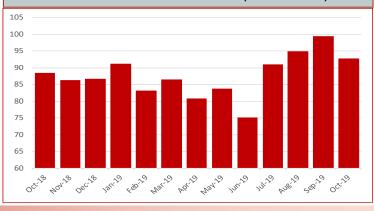
#### December 3rd, 2019

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December 3rd, 2019

## MMi Daily Iron Ore Index Report

## December 3rd, 2019

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HRC Profit for BOF Mill

## STEEL SPOT MARKET PRICES-CHINA

Steel Spot Market RMB/tonne							
Product		29/11/201	19 Change	Change %	Weekly	output of rebar	Weekly output of hot-rolled coil
ReBar HRB400		4,080.0	-60	-1.45%	1,000 mt2015 4,100	20162017	1,000 mt20152016201720182019
Wirerod Q300 ¢6.5mm	4,380.0	-130	-2.88%	3,800	~~~~	3,500	
HRC Q235/SS400 5.5mm*150	0*C	3,710.0	30	0.82%	3,200		3,300
CRC SPCC/ST12 1.0mm*1250	4,280.0	0	0.00%	2,900		2,900	
Medium & Heavy Plate Q235E	3,730.0	20	0.54%	2,300		2,700	
GI ST02Z 1.0mm*1000*C	4,450.0	50	1.14%	2,000 01 02 03 04 0	5 06 07 08 09 10 11 12	2,500 01 02 03 04 05 06 07 08 09 10 11 12	
Colour Coated Plate		6,800.0	-50	-0.73%			
CHIN	ESE STEEL N	/ILL PROFIT	ABILITY			CHINESE STEE	EL MILL PROFITABILITY
SMM Tracking o	f Steel Mill P&L - F	Rebar and Hot-rolle	ed Coil (RMB/tonne)		1,200		
Category	Price Cha	ange (WoW) Note	9		1,000		
MMi (Fe 62%), USD/mt exluding tax	89.10	1.30 Mmi	CFR Equivalent index for	1st Feb			Mar
Coke	1,810	0 2nd grade met coke, Tangshan, incl. tax			800	Λ	
Steel Scrap	eel Scrap 2,330 -20 steel scrap (6mm) in Zhangjiagang, exl. tax			900 E	the man and	may	
Billet Cost	2,941	14 Q23	84, incl. tax		euro 400 400 WBWB		my hy my my my
Rebar cost - Blast furnace	3,167	14 calc	ulated based on theoretic	al weight, incl. tax	≥ 200		my have my

863 Rebar profit - Blast furnace -74 based on Shanghai prices, incl. tax Hot-rolled coil cost - Blast furnace 3,258 14 based on actual weight, incl. tax Hot-rolled coil proft - Blast furnace 442 -14 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

CHINESE STEEL MILL PROFITABILITY

200

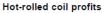
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Rebar Profit for BOF Mill

#### Rebar profits





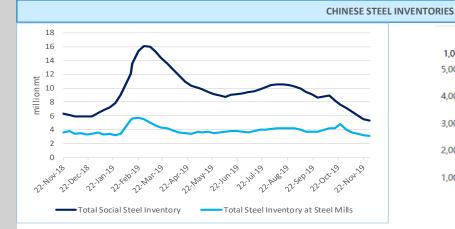
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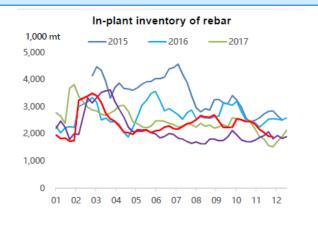
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#### December 3rd, 2019

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	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 th							
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 t								
Alumina %	1.40	2.25	2.25	1.50	these companies. This data is normalised to the appropriate specific								
silica% 1.50 4.00 5.50 3.50 screened to remove outliers before volume-weighted average prior calculated from the remaining core set of data.							e prices are						
Phosphorus %	0.06	0.09	0.05	0.08	For more details on	MMi's iron ore met	hodology please dow	nload the guide					
Sulphur %	0.01 0.02 0.02		0.02	published on our w	ebsite at: www.mmi	prices.com							
Moisture %	8.00	8.00	9.00	4.00		Data Exclusions*							
Ciaina	Granular size be	elow 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 Port (FOT and CFR respectively)			FOT Qingdao Port	Lump Index 62.5 0									
Timing (Seaborne)	ming (Seaborne) Loading within 4 weeks, Delivery within 8 weeks						ore indices that were						
Payment Terms L/C at sight L/C at sight or CAD							nomalous and could r	iot be verified					
	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.

		AVER	AGE IRON	ORE SPECIF	ICATIONS A	PPLIED FOR BRAND PRICE A	SSESSMEN	TS					
	PORT	STOCK BRAN	IDS		SEABORNE BRANDS								
December 3rd, 2019	December 3rd, 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	60.70%	2.25%	4.70%	0.054%	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	61.58%	2.37%	3.70%	0.099%	9.53%	PB Fines 62%	62.00%	2.60%	4.30%	0.090%	10.00%		
Newman Fines	62.48%	2.20%	4.08%	0.092%	7.84%	Newman Fines	62.80%	2.20%	4.30%	0.080%	6.40%		
MAC Fines	60.80%	2.29%	4.71%	0.081%	7.75%	MAC Fines	61.00%	2.70%	4.70%	0.110%	9.30%		
Jimblebar Blended Fines	60.52%	3.03%	4.63%	0.116%	7.92%	Jimblebar Blended Fines	59.50%	3.70%	5.80%	0.135%	8.30%		
Carajas Fines	65.41%	1.27%	1.42%	0.081%	8.01%	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	62.98%	1.46%	4.70%	0.073%	7.79%	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%		
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%		
December 3rd, 2019	Specifi	cations appli	ed for 58%	brand asses	sments								
	Fe	Alumina	Silica	Phos	Moisture								
SSF	56.72%	3.03%	6.15%	0.054%	9.02%								
FMG Blended Fines	58.26%	2.74%	5.65%	0.063%	7.48%								
Robe River	56.31%	3.17%	5.64%	0.041%	9.10%								
Western Fines	57.88%	2.87%	7.50%	0.062%	7.45%								
Atlas Fines	56.59%	2.55%	7.14%	0.080%	8.46%								

	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	IOS165	IRCN0035								
IOPI65	IRCNQ003	IRCNQ006										
IOPLI62	IRCN0036	IRCN0037										

9.03%

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SMM Shanghai Office Details: 9th FL, Building 9, Lujiazui Software Park, No.20, Lane 91, Pudong, Shanghai Tel: +86 021 5155 0306 E: see	price histories and archive of daily reports

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Yandi

57.11%

1.62%

6.40%

0.041%