

MMi Dashboard

Iron Ore Price Indices

Iron Ore Port Stock (FOT Qingdao)

Iron Ore Port Stock (FOT Qingdao)
IOPI62 62% Fe Fines RMB/t



655

11 1.71%

November 15th, 2019

IOPI65 65% Fe Fines RMB/t



712

13 1.86%

November 15th, 2019

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



545

6 1.11%

November 15th, 2019

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



85.50

2.50 3.01%

November 15th, 2019

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



95.40

2.30 2.47%

November 15th, 2019

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



785

1 -0.13%

Week Ending November 15th, 2019

Exchange Traded Contracts

DCE Iron Ore 62% Fines I2001 (Jan) RMB/t



628.50

10.00 1.62%

November 15th, 2019

(3pm close)

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



83.20

1.37 1.67%

November 15th, 2019 (5.

(5.30 pm Print)

SHFE Rebar RB2001 (Jan) RMB/t



3545

34.00 0.97%

November 15th, 2019

(3pm close)

Freight Rates

C3, Tubarao - Qingdao USD/t



18.97

0.20 1.07%

November 14th, 2019

C5, W. Australia - Qingdao USD/t

8.86

0.00 0.00%

November 14th, 2019

Steel Price

Steel Rebar (China Domestic) RMB/t



3790

50 1.34%

Week Ending November 8th, 2019

Inventory Levels

Iron Ore Inventory at Chinese Ports (35) million tonnes



114.40

-2.05 -1.76%

Week Ending November 15th, 2019

Steel Inventory in China million tonnes



10.26

0.93 -8.29%

Week Ending November 8th, 2019

Steel Price

Steel HRC (China Domestic) RMB/t

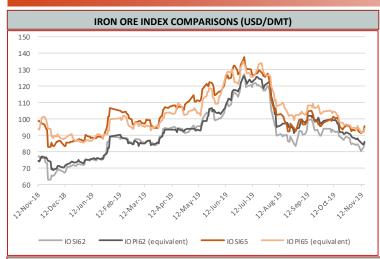


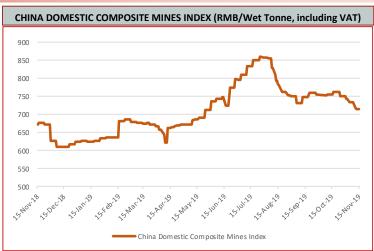
3530

20 0.57%

Week Ending November 8th, 2019

MMi D	aily Iron Or	e Inde	x Report											Nover	mber 15	th, 2019
						IRON OR	E PORT S	TOCK INDEX	(IOPI)							
November	r 15th, 2019		FOT (Qingdao	(inc. 13% VAT), RMB/wet	tonne			CFR Qiı	ngdao Eq	uivaler	nt (exc. 13%	VAT), USD,	dry tonne	1
Index	Fe Content	Price	Change	Change	e % MTD	YTD	Low ²	High ²	Price	Chan	ge Cha	nge %	MTD	YTD	Low ²	High ²
IOPI62	62% Fe Fines	655	11	1.79	660	724	535	928	86.05	1.50) 1	8%	86.74	96.60	68.50	126.12
IOPI58	58% Fe Fines	545	6	1.19	656	635	375	823	71.73	0.82	2 1	.2%	74.52	84.99	46.88	112.44
IOPI65	65% Fe Fines	712	13	1.9%	6 710	790	654	992	93.87	1.7	7 1	9%	93.51	105.81	85.47	135.34
		IR	ON ORE SE	ABORN	E INDEX (IOS	il)					ı	MARK	ЕТ СОММЕ	NTARY		
November	r 15th, 2019			CFR (Qingdao, USD/	dry tonne							Chinese ports declin			
Index	Fe Content	Price	Change	Change	e % MTD	YTD	Low ²	High ²					liveries from the 35 e steel mills stockpi			
IOSI62	62% Fe Fines	85.50	2.50	3.01	% 83.49	94.38	62.95	127.50					are likely to prever leavy pollution aler			ing this week.
IOSI65	65% Fe Fines	95.40	2.30	2.47	% 93.26	105.77	83.20	137.95								
Week Endin	ng November							JMP INDEX	1							2
15th, 2019	-				(inc. 16% VAT								it (exc. 16%			
Index	Fe Content	Price	W-o-W	Change		YTD	Low ²	High ²	Price	W-o\		inge %	MTD	YTD	Low ²	High ²
IOPLI62	62.5% Fe Lump	785	-1	-0.19		879	743	1051	97.08	0.06		.06%	97.35	111.18	93.24	133.81
			IRO	N ORE	DOMESTIC C	ONCENTRA	TE SPOT P	RICE ASSES	SMENTS A	ND COI	MPOSIT	E INDE	X			
	ing November 8						nne (exclu						USD/tonne			
Province	Region	Product		Basis	This week	Change		Low ²	High ²		This wee	K	Change %	Low		High ²
Hebei	Hanxing		Concentrate	1 '	806	0.0%		644	1032		114.88		0.61%	93.5		150.03
Hebei	Qian'an		Concentrate	'	855	-2.8%		690	960		121.86		-2.25%	100.		139.35
Liaoning	Anshan		Concentrate		650	0.0%		535	745		92.65		0.61%	77.3		104.66
Shandong	Zibo g November 8th,		Concentrate	-	835 week Cha	-2.3%	Low ²	740	40 1040 119.01 -1.75% 106.55 151.33 High ² Exchange rate applied: RMB/USD = 7.0091 2 Last 12 months					151.33		
	Week Ending November 8th, 2019 This week Change % Low High 1 Exchange rate applied: RMB/USD = 7.0091 1 Last 12 months Weekly exchange rate applied: RMB/USD 7.0024 Weekly exchange rate applied: RMB/USD 7.0024															
	IRON C	ORE PORT	Γ INDEX, FO	T QING	DAO (RMB/\	NT)			IRON O	RE SEA	BORNE	INDEX	, CFR QING	iDAO (USD)/DMT)	
1050 —								145								
950 —				^	SA			135					.^	۸.,		
850 —			4 ^		my	-aran		125 —— 115 ——				~	م کهمی	m		
750 A	ham	~~~	~~~~	لهمركم	F	1	~~	95		~~	ww/	~~	"كسامر	/	ma	2
550	كسسها	سمم						85	~~~	بالمسا	~~		<u>'</u>	•		The same
450	سممسم							75 65								
350 — 250 —								55 —— 45 ——				_				
72.Mov.18	Special Phanial	15 Mar. 19	15 KOT 29 115 MOV 25	15.Jun.19	Finis Francis	35eq.19	5 Nov. 19	1340418	231/301/19 231/301/19	5F80-19	13 AP	13 May	13 mi 19	101129 13-AURILA	358019 130C	70, 401.70
12k 1	2, 2, 2,	124	121, 124,	12,	is, is, i	3, 42, 4	the state of the s	's, 's,	\$ \$	2 St.	1,3	135	\$ Y	'32. v	Ş. Ş.	13.
		IO PI	162 —— 1	O PI 58 •	IO PI 65							IOSI62	IO SI	65		
			IR	ON ORE	PORT STOC	K INDEX MO	ONTHLY, C	QUARTERLY	AND YEAR	R-TO-DA	ATE AVE	RAGES	3			
November	r 15th, 2019				(inc. 13% VA								nt (exc. 13%	•	-	
Index	Fe Content	July	-	•	ber October	MTD	QTD	YTD	July	•			October	MTD	QTD	YTD
IOPI62 IOPI58	62% Fe Fines 58% Fe Fines	909 809	759 691	758 674	721 636	660 656	698 609	724 635	98.60	123. 110.		00.18 1.86	94.29 83.57	86.74 74.52	91.43 80.13	96.60 84.99
IOPISS	65% Fe Fines	954	823	803	758	710	740	790	121.97	129.		1.80	99.32	93.51	97.11	105.81
	N ORE SEABOR												EIGHT RAT			
	r 15th, 2019			• •	Qingdao, USD/				November 14	4th, 2019				ATES - DRY BUI	LK US\$/wet to	nne
Index	Fe Content	July	August		ber October	MTD	QTD	YTD	Route		Designation			Change %	Low ²	High ²
IOSI62	62% Fe Fines	120.82	92.61	93.76		83.49	88.37	94.38	W. Australia - 0	Qingdao	C5	8.86	0.00	0.00%	4.39	11.42
IOSI65	65% Fe Fines	129.53	101.34	99.42	97.45	93.26	96.06	105.77	Tubarao - Qing	dao	С3	18.97	0.20	1.07%	11.61	29.10
			IR	ON ORE	PORT LUMP	INDEX MO	NTHLY, O	UARTERLY	AND YEAR	-TO-DA	TE AVE	RAGES				
Week Endin 15th, 2019	g November		FOT	Qingdao	(inc. 16% VA	T), RMB/wet	tonne			CFR Qi	ngdao Ec	uivale	nt (exc. 16%	VAT), USD	/dry tonne	1
Index	Fe Content	July	August	Septen	nber Octobe	r MTD	QTD	YTD	May	Jun	e .	July	October	MTD	QTD	YTD
IOPLI62	62.5% Fe Lump	1046	870	803		790	814	879	128.00	132.		08.80	98.44	97.35	100.04	111.18
						IRON ORE I	NDEX PRE	MIUMS/DI	SCOUNTS							
November :	15th, 2019			PORT	STOCK INDEX (R			November 1					SEABOR	NE INDEX (US	SD/DMT)	
Index	Fe Co	ntent	Spread	to IOPI6		% Spread to I	OPI62	Index		Content	:	Sprea	ad to IOSI62	,	% Spread to	IOSI62
IOPIS8	58% Fe			110		-16.79%	,	IOSICE	(55)	V Ec 5' -			0.00		44 50	0/
IOPI65	65% Fe	rines		57		8.70%		IOSI65	659	% Fe Fine	5		9.90		11.58	70

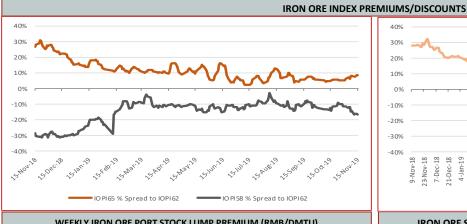




IRON ORE BRAND SPOT PRICE ASSESMENTS											
November 15th, 2019	PORT STOCK INDEX (RMB/WT)			November 15th, 2019	SEABC	RNE INDEX (US	D/DMT)				
	Price	Change	Diff to IOPI62		Price	Change	Diff to IOSI62				
Roy Hill	608	14	-47	Roy Hill	83.99	2.84	-1.51				
SIMEC Fines	557	18	-98	SIMEC Fines	82.06	3.01	-3.44				
PB Fines	632	10	-23	PB Fines	83.69	1.59	-1.81				
Newman Fines	659	9	4	Newman Fines	85.42	2.31	-0.08				
MAC Fines	617	15	-38	MAC Fines	82.31	2.36	-3.19				
Jimblebar Blended Fines	554	12	-101	Jimblebar Blended Fines	76.94	3.37	-8.56				
Carajas Fines	717	15	62	Carajas Fines	95.52	3.01	10.02				
Brazilian SSF	599	11	-56	Brazilian SSF	84.87	2.81	-0.63				
Brazilian Blend Fines	654	8	-1	Brazilian Blend Fines	85.87	2.56	0.37				
RTX Fines	582	13	-73	RTX Fines	79.69	2.84	-5.81				
West Pilbara Fines	599	17	-56	West Pilbara Fines	84.09	2.99	-1.41				

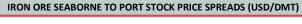
November 15th, 2019	PORT	PORT STOCK INDEX (RMB/WT)						
	Price	Change	Diff to IOPI58					
SSF	523	2	-22					
FMG Blended Fines	553	5	8					
Robe River	519	2	-26					
Western Fines	534	4	-11					
Atlas Fines	517	4	-28					
Yandi	541	5	-4					

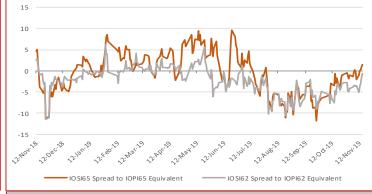
				IRON ORE IN	IDEX NORMA	LISATION DIFFER	ENTIALS				
Por	t Stock Index	Product Differ	entials (RI	MB/wet tonne		Sea	aborne Inde	x Product Di	fferentials (USD/dry tonne	e)
	Ар	plicable range		Value	Change		А	pplicable ran	ge	Value	Change
	High Grade	e Fe 60 - 63%		14.00	-3.00		High Grad	de Fe 60 - 63	%	0.25	-0.25
	High Grade	High Grade Fe 63 - 64% High Grade Fe 64 - 65% High Grade Fe 65 - 65.5%			3.00		High Grad	de Fe 63 - 64	%	1.75	0.00
l% Fe	High Grade				3.00	1% Fe	High Grad	de Fe 64 - 65	%	1.75	0.00
	High Grade				3.00		High Grad	de Fe 65 - 65	.5%	1.75	0.00
	Low Grade	Low Grade Fe			1.00						
	High Fe Gra	ade Al <2.25%		15.00	0.00		High Fe G	rade Al <2.2	5%	2.00	0.25
1% Alumina	High Fe Gra	ade Al 2.25-4%		36.00	0.00	40/ 41	High Fe G	rade Al 2.25	-4%	1.25	-0.25
	Low Fe Gra	de Al <2.25%		19.00	0.00	1% Alumina					
	Low Fe Gra	de Al 2.25-4%		4.00	3.00						
	High Fe Gra	ade Si <4%		6.00	0.00		High Fe G	rade Si <4%		2.00	0.25
.% Silica	High Fe Gra	ade Si 4-6.5%		35.00	0.00	1% Silica	High Fe G	rade Si 4 - 6	.5%	1.25	0.00
	Low Fe Gra	Low Fe Grade			0.00						
0.01%	High Fe Gra	ade 0.09% <p<0< td=""><td>.115%</td><td>4.00</td><td>2.00</td><td>0.01%</td><td>High Fe G</td><td>rade 0.09%<</td><td>P<0.115%</td><td>0.75</td><td>0.25</td></p<0<>	.115%	4.00	2.00	0.01%	High Fe G	rade 0.09%<	P<0.115%	0.75	0.25
	High Fe Gra	ade 0.115% <p<< td=""><td>0.15%</td><td>2.00</td><td>-2.00</td><td>Phosphorus</td><td>High Fe G</td><td>rade 0.115%</td><td><p<0.15%< td=""><td>1.00</td><td>-0.25</td></p<0.15%<></td></p<<>	0.15%	2.00	-2.00	Phosphorus	High Fe G	rade 0.115%	<p<0.15%< td=""><td>1.00</td><td>-0.25</td></p<0.15%<>	1.00	-0.25
hosphorus	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
ayuquan	-55.00	0.00	Fangchen	g -5.00	0.00	Lanshan	0.00	0.00	Qingdao	0.00	0.00
Beilun	5.00	0.00	Jiangyin	-30.00	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	-55.00	0.00	Langiao	0.00	0.00	Nantong	-30.00	0.00	Tianjin	-5.00	0.00

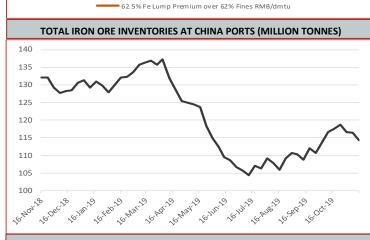




3.50 3.00 2.50 2.00 1.50 1.00 0.50 0.00 0.00 0.50 0.00 0





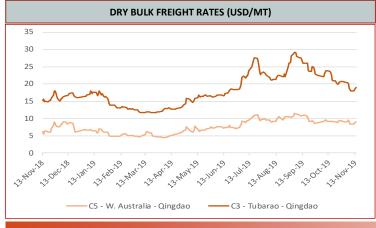


	FUTURE TRADING—FRONT MONTH CLOSING PRICE	
1	1000	130
	900	120
١	800	110
	WE 600	100 JWD/DSN
١		90 /QS
l	£600	
l	500 3	80
١	500	70
١	400	60
	Though to being the is	
	—— Dalian 3pm Close —— SGX Front Month 6pm (RHS)	

II	IRON ORE PORT INVENTORIES (MILLION TONNES)										
Week Ending November 15th, 2019											
Province	This week	Change %	Low ²	High ²							
Jingtang	15.49	-1.65%	10.80	17.00							
Qingdao	14.00	1.82%	12.38	19.01							
Caofeidian	14.95	-6.15%	14.32	19.40							
Tianjin	7.26	-4.22%	6.37	10.05							
Rizhao	13.40	-1.33%	11.41	17.10							
Total (35 Ports)	114.40	-1.76%	104.40	137.30							

		D	CE (RMB/WN	IT)	SGX (USD/DMT)							
2	Closing Date	No	v 15th 3pm c	lose	N	Nov 15th 5.30 pm						
)	Contract	12001	Change	Change %	Dec'19	Change	Change %					
	Closing Price	628.50	10.0	1.62%	83.20	1.37	1.67%					
)	Vol traded ('000 lots)	196.59	-11.3	-5.45%	11.84	-3.99	-25.22%					
,	Open positions ('000 lots)	145.63	-5.5	-3.63%	159.93	0.66	0.42%					
)	Day Low	620.5	19.0	3.16%	82.50	3.72	4.72%					
0	Day High	633.0	14.5	2.34%	83.63	1.80	2.20%					

IRON ORE FUTURES CONTRACTS





STEEL SPOT MARKET PRICES—CHINA

8/11/2019	Change	Change %
3,790.0	50	1.34%
4,180.0	50	1.21%
3,530.0	20	0.57%
4,210.0	0	0.00%
3,680.0	0	0.00%
4,350.0	0	0.00%
6,800.0	-100	-1.45%
	3,790.0 4,180.0 3,530.0 4,210.0 3,680.0 4,350.0	3,790.0 50 4,180.0 50 3,530.0 20 4,210.0 0 3,680.0 0 4,350.0 0



CHINESE STEEL MILL PROFITABILITY									
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	84.75	0.25	Mmi CFR Equivalent index for 1st Feb						
Coke	1,810	-50	2nd grade met coke, Tangshan, incl. tax						
Steel Scrap	2,340	60	steel scrap (6mm) in Zhangjiagang, exl. tax						
Billet Cost	2,893	-31	Q234, incl. tax						
Rebar cost - Blast furnace	3,119	-36	calculated based on theoretical weight, incl. tax						
Rebar profit - Blast furnace	611	96	based on Shanghai prices, incl. tax						
Hot-rolled coil cost - Blast furnace	3,209	-31	based on actual weight, incl. tax						
Hot-rolled coil proft - Blast furnace	331	51	based on Shanghai prices, incl. tax						

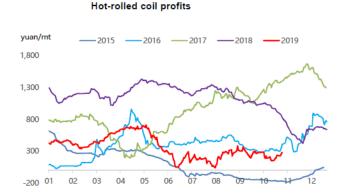
Note: 1 Costs in the table are caluclated based on todays market prices and facout our management, sales, financial and depreciations fees.

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

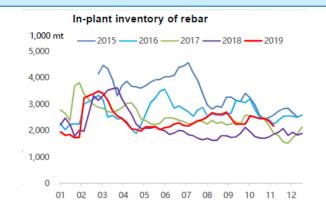


CHINESE STEEL MILL PROFITABILITY





Total Social Steel Inventory Total Social Steel Inventory Total Steel Inventory at Steel Mills



	IRON ORE INDEX SPECIFICATIONS, COMPILATION RATIONALE AND DATA EXCLUSIONS											
	Iron Ore	Index Specifications	(Port and Seaborne)	Iron Ore Ind	ex Compilation I	Rationale and Da	ata Exclusions				
	65% Fe Fines	62% Fe Fines	58% Fe Fines	62.5% Fe Lump	MMi iron ore indic	es are compiled from	data provided by co	mpanies 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 I these companies. This data is normalised to the appropriate specifications and							
Alumina %	1.40	2.25	2.25	1.50				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.			ge prices are				
Phosphorus %	0.06	0.09	0.05	0.08	For more details on MMi's iron ore methodology please download the guide			vnload 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								
	Cranular cira ha	low 10mm for at loa	st 00% of sarga	Size below 6.3mm max 15%			clusions*					
Sizing		elow 10mm for at lea	•			62%	58%	65%				
	maximu	ım of 40% below 150) micron	Size above 31.15mm max 25%	Port Index Seaborne index	0	0	0				
Pricing Point	Qingdao F	Qingdao Port (FOT and CFR respectively)		FOT Qingdao Port	Lump Index 62.5	0						
Timing (Seaborne)	Loading withi	n 4 weeks, Delivery v	vithin 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 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						
November 15th, 2019	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	61.01%	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	61.57%	2.37%	3.70%	0.098%	9.57%	PB Fines 62%	62.00%	2.60%	4.30%	0.090%	10.00%	
Newman Fines	62.49%	2.19%	4.12%	0.092%	7.76%	Newman Fines	62.80%	2.20%	4.30%	0.080%	6.40%	
MAC Fines	60.83%	2.27%	4.65%	0.081%	7.73%	MAC Fines	61.00%	2.70%	4.70%	0.110%	9.30%	
Jimblebar Blended Fines	60.50%	3.04%	4.62%	0.117%	7.82%	Jimblebar Blended Fines	59.50%	3.70%	5.80%	0.135%	8.30%	
Carajas Fines	65.41%	1.29%	1.37%	0.080%	8.13%	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	62.96%	1.47%	4.74%	0.071%	7.97%	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%	
November 15th, 2019	Specifi	cations appli	ed for 58%	brand asses	sments							
	Fe	Alumina	Silica	Phos	Moisture							
SSF	56.61%	3.05%	6.23%	0.051%	8.35%							
FMG Blended Fines	58.19%	2.68%	5.50%	0.058%	7.77%							
Robe River	56.28%	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	57.20%	1.57%	6.40%	0.041%	9.01%							
						-						

	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									

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