

MMi Dashboard

Iron Ore Price Indices

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

680

0 0.00%

December 5th, 2019



90.00

-0.90 -0.99%

December 5th, 2019

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



-0.40%

December 5th, 2019

IOPI58 58% Fe Fines RMB/t

Iron Port Stock (FOT Qingdao)



580

-0.51%

December 5th, 2019

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



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



102.15

0.25 0.25%

December 5th, 2019

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



808

2.02% 16

Week Ending November 29nd, 2019

Exchange Traded Contracts

DCE Iron Ore 62% Fines 12005 (May) RMB/t



620.50

1.00 0.16%

December 5th, 2019

(3pm close)

SGX Iron Ore (CFR Qingdao) 62% Fe Fines January'20 USD/dmt



86.84

-0.11 -0.13%

(5.30 pm Print) December 5th, 2019

SHFE Rebar RB2001 (Jan) RMB/t



-18.00 -0.50%

December 5th, 2019

(3pm close)

Freight Rates

C3, Tubarao - Qingdao USD/t



22.52

-0.25 -1.12%

December 4th, 2019

C5, W. Australia - Qingdao USD/t



10.62

-0.17 -1.59%

December 4th, 2019

Steel Rebar (China Domestic) RMB/t

Steel Price



4080

-1.45%

Week Ending November 29th, 2019

Inventory Levels

Iron Ore Inventory at Chinese Ports (35) million tonnes



114.17

-1.34 -1.16%

Week Ending November 29th, 2019

Steel Inventory in China million tonnes



8.49

-0.28 -3.18%

Week Ending November 29th, 2019

Steel Price

Steel HRC (China Domestic) RMB/t



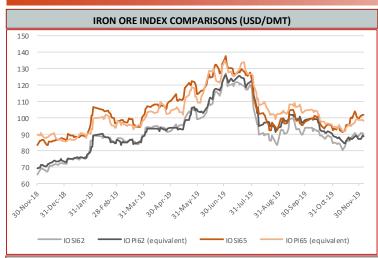
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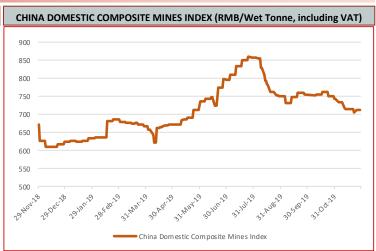
30 0.82%

Week Ending November 29th, 2019

www.mmiprices.com Page 1/6 December 5th, 2019

MMi D	aily Iron C	re Inde	x Report										Dece	mber 5t	h, 2019
						IRON OR	RE PORT S	TOCK INDEX	(IOPI)						
December	5th, 2019		FOT (Qingdao (iı	nc. 13% VAT), I	RMB/wet	tonne			CFR Q	ngdao Equiva	lent (exc. 13%	% VAT), USI	D/dry tonne	1
Index	Fe Content	Price	Change	Change 9	6 MTD	YTD	Low ²	High ²	Price	Char	nge Change	% MTD	YTD	Low ²	High ²
IOPI62	62% Fe Fines	680	0	0.0%	674	720	546	928	88.93	-0.1	18 -0.2%	88.37	96.07	70.35	126.12
IOPI58	58% Fe Fines	580	-3	-0.5%	579	631	379	823	76.12	-0.5	7 -0.7%	76.12	84.39	47.67	112.44
IOPI65	65% Fe Fines	748	-3	-0.4%	750	787	654	992	98.21	-0.6	-0.6%	98.21	105.31	85.47	135.34
		IF	RON ORE SE	ABORNE	INDEX (IOSI)						MA	КЕТ СОММ	ENTARY		
December	5th, 2019			CFR Qir	ngdao, USD/dr	y tonne			1			ck market despite D		-	
Index	Fe Content	Price	Change	Change 9	6 MTD	YTD	Low ²	High ²	have restocl	ked early this	week and most tra	ders were reluctant	to give way their	r quotes. Hebei la	unched another
IOSI62	62% Fe Fines	90.00	-0.90	-0.99%	90.54	94.06	67.40	127.50				avy pollution, to last any near-term upsi			vere therefore
IOSI65	65% Fe Fines	102.15	0.25	0.25%	101.76	105.45	83.55	137.95							
						IRON OR	E PORT L	JMP INDEX	(IOPLI)						
Week Endin 29nd, 2019	ng November		FOT C	Qingdao (ir	nc. 16% VAT), F	RMB/wet	tonne			CFR Qi	ngdao Equiva	lent (exc. 16%	6 VAT), USE	O/dry tonne	
Index	Fe Content	Price	W-o-W	Change 9	6 MTD	YTD	Low ²	High ²	Price	W-c	W Change	% MTD	YTD	Low ²	High ²
IOPLI62	62.5% Fe Lump	808	16	2.0%	794	875	743	1051	99.51	1.7	0 1.749	97.89	110.63	93.24	133.81
IRON ORE DOMESTIC CONCENTRATE SPOT PRICE ASSESSMENTS AND COMPOSITE INDEX															
Week Endi	ing November	29th, 2019)			RMB/to	nne (exclu	ding tax) 3				USD/tonne	(excluding	tax) ³	
Province	Region	Produc	t	Basis	This week	Change	e %	Low ²	High	2	This week	Change %	Lo	w ²	High ²
Hebei	Hanxin	66% Fe	Concentrate	Dry	800	4.4%	6	644	1032	2	113.75	4.16%	93	.58	150.03
Hebei	Qian'ar	65% Fe	Concentrate	Dry	830	0.6%	6	690	960		118.01	0.33%	100	0.26	139.35
Liaoning	Anshan	65% Fe	Concentrate	Wet	650	0.0%	6	535	745		92.42	-0.27%	77	.39	104.66
Shandong	Zibo	65% Fe	Concentrate	Dry	810	1.9%	6	740	1040)	115.17	1.61%	106	5.55	151.33
	g November 29			This we			Low ²	High ² 1 Exchange rate applied: RMB/USD = 7.0521 ² Last 12 months 3 Weekly exchange rate applied: RMB/USD 7.0332							
China Mines Concentrate Composite Index RMB/WT 713.20 1.3% 609.04 859.50															
IRON ORE PORT INDEX, FOT QINGDAO (RMB/WT) IRON ORE SEABORNE INDEX, CFR QINGDAO (USD/DMT) 1050															
950 — 850 — 750 — 650 —	~~~	\			The same of the sa		×	135 125 115 105 95 85		^~~	~~**			\$_\\	~~~
450 — 350 ~ 250 —	Cheury Press, C.			SJUN 19 SA	Specify Co.	g Mouris	5tect 9	65	3,68h,9	3.Mar.1.9				3 CCC 3 NO	3,78°,78
					ORT STOCK I			QUARTERLY	AND YEA						
December		August			nc. 13% VAT),			VTD	August			alent (exc. 13		•	VTD
Index IOPI62	Fe Content 62% Fe Fines		September 758	October 721	November 665	MTD 674	QTD 689	YTD 720	123.29	•		er November 87.30	MTD 88.37	QTD 90.33	YTD 96.07
IOPI62 IOPI58	58% Fe Fines		758 674	636	567	674 579	597	720 631	123.29				88.3 <i>7</i> 76.12	90.33 78.54	96.07 84.39
IOPI65	65% Fe Fines		803	758	723	750	740	787	129.53				98.21	97.30	105.31
IROI	N ORE SEABO	RNE INDE	X MONTHL	Y, QUART	ERLY AND YE	AR-TO-D	ATE AVEF	RAGES				FREIGHT RA	TES		
December	5th, 2019			CFR Qi	ngdao, USD/dr	y tonne			December	4th, 2019		FREIGHT R	ATES - DRY BU	ULK US\$/wet to	nne
Index	Fe Content	August	September	October	November	MTD	QTD	YTD	Route		Designation	Change	Change %	Low ²	High ²
IOSI62	62% Fe Fines	92.61	93.76	90.81	85.83	90.54	88.56	94.06	W. Australia	- Qingdao	C5 10	.62 - <mark>0.17</mark>	-1.59%	4.39	11.42
IOSI65	65% Fe Fines	101.34	99.42	97.45	96.49	101.76	97.39	105.45	Tubarao - Qi	ingdao	C3 22	.52 -0.25	-1.12%	11.61	29.10
			IR	ON ORE P	ORT LUMP II	NDEX MO	ONTHLY, O	UARTERLY	AND YEA	R-TO-D	ATE AVERAG	ES			
Week Endin 29nd, 2019	g November		FOT	Qingdao (i	nc. 16% VAT),	RMB/wet	tonne			CFR Q	ingdao Equiv	alent (exc. 16	% VAT), USI	D/dry tonne	1
Index	Fe Content	August	Septembe	r Octobe	r November	MTD	QTD	YTD	May	Jui	ne July	Novembe	r MTD	QTD	YTD
IOPLI62	62.5% Fe Lum		803	829	794	794	807	875	132.99		•		97.89	99.34	110.63
		-			IR	ON ORE I	NDEX PRE	MIUMS/DI	SCOUNTS	S					
December 5	5th, 2019			PORT STO	OCK INDEX (RMI			December 5				SEABOR	RNE INDEX (L	JSD/DMT1	
Index		ontent	Spread	to IOPI62		Spread to I	OPI62	Index		Fe Conten	t S _I	read to IOSI62		% Spread to	IOSI62
IOPI58		Fe Fines		100		-14.71%									
IOPI65	65%	Fe Fines		68		10.00%		IOSI65	6	5% Fe Fin	es	12.15		13.50	%

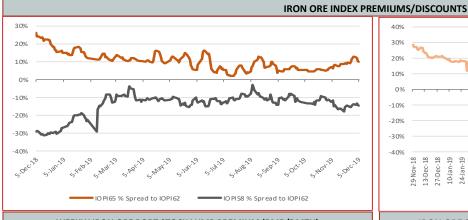




IRON ORE BRAND SPOT PRICE ASSESMENTS												
December 5th, 2019	PORT	STOCK INDEX (R	MB/WT)	December 5th, 2019	SEABO	SEABORNE INDEX (USD/DMT)						
	Price	Change	Diff to IOPI62		Price	Change	Diff to IOSI62					
Roy Hill	644	4	-36	Roy Hill	86.79	-0.98	-3.21					
SIMEC Fines	614	9	-66	SIMEC Fines	83.29	-0.81	-6.71					
PB Fines	660	1	-20	PB Fines	88.61	-0.74	-1.39					
Newman Fines	682	0	2	Newman Fines	90.30	-0.61	0.30					
MAC Fines	653	3	-27	MAC Fines	86.09	-0.36	-3.91					
Jimblebar Blended Fines	591	5	-89	Jimblebar Blended Fines	76.01	-0.09	-13.99					
Carajas Fines	757	-3	77	Carajas Fines	102.50	0.11	12.50					
Brazilian SSF	659	8	-21	Brazilian SSF	87.50	0.04	-2.50					
Brazilian Blend Fines	690	1	10	Brazilian Blend Fines	90.00	-0.34	0.00					
RTX Fines	613	0	-67	RTX Fines	81.46	-0.19	-8.54					
West Pilbara Fines	645	4	-35	West Pilbara Fines	86.59	-1.18	-3.41					

December 5th, 2019	PORT	STOCK INDEX (R	MB/WT)
	Price	Change	Diff to IOPI58
SSF	547	-3	-33
FMG Blended Fines	589	-2	9
Robe River	555	-2	-25
Western Fines	537	-4	-43
Atlas Fines	525	-4	-55
Yandi	559	-2	-21

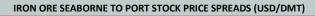
				IRON ORE IN	NDEX NORM	ALISATION DIFFER	ENTIALS				
Por	t Stock Index	Product Differ	entials (RI	/IB/wet tonne)	Sea	aborne Inde	x Product Di	fferentials (l	JSD/dry tonne	:)
	App	olicable range		Value	Change		A	pplicable ran	ge	Value	Change
	High Grade	Fe 60 - 63%		5.00	-1.00		High Grad	de Fe 60 - 63	%	1.00	0.25
	High Grade	Fe 63 - 64%		9.00	-1.00		High Grad	High Grade Fe 63 - 64%		1.75	0.00
1% Fe	High Grade	Fe 64 - 65%		9.00	-1.00	1% Fe	High Grade Fe 64 - 65%		%	1.75	0.00
	High Grade	Fe 65 - 65.5%		9.00	-1.00		High Grad	de Fe 65 - 65	.5%	1.75	0.00
	Low Grade Fe			12.00	0.00						
	High Fe Grade Al <2.25%			30.00	0.00		High Fe G	rade Al <2.2!	5%	2.00	0.25
1% Alumina	High Fe Grade Al 2.25-4%		.	40.00	-2.00	40/ 41	High Fe Grade Al 2.25-4%		-4%	2.25	-0.25
	Low Fe Gra	Low Fe Grade Al <2.25%		20.00	3.00	1% Alumina					
	Low Fe Gra	Low Fe Grade Al 2.25-4%		1.00	-1.00						
	High Fe Gra	High Fe Grade Si <4%		8.00	0.00		High Fe G	rade Si <4%		2.75	0.25
1% Silica	High Fe Grade Si 4-6.5%			29.00	-3.00	1% Silica High Fe Grade Si 4 - 6.5%		5%	2.00	-0.25	
	Low Fe Grade			25.00	1.00						
0.040/	High Fe Gra	nde 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%<</td><td>P<0.115%</td><td>0.25</td><td>-0.25</td></p<0<>	.115%	5.00	0.00	0.01%	High Fe G	rade 0.09%<	P<0.115%	0.25	-0.25
0.01%	High Fe Gra	de 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>2.00</td><td>0.00</td></p<0.15%<></td></p<<>	0.15%	2.00	2.00	Phosphorus	High Fe G	rade 0.115%	<p<0.15%< td=""><td>2.00</td><td>0.00</td></p<0.15%<>	2.00	0.00
Phosphorus	Low Fe Gra	de 0.09 <p<0.1< td=""><td>%</td><td>4.00</td><td>1.00</td><td></td><td></td><td></td><td></td><td></td><td></td></p<0.1<>	%	4.00	1.00						
			Port St	ock Price Differe	ntials to Qingo	dao Port for PB Fine	s (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	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

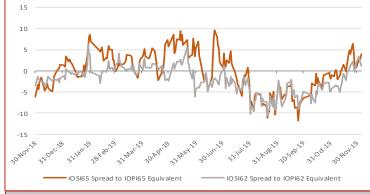




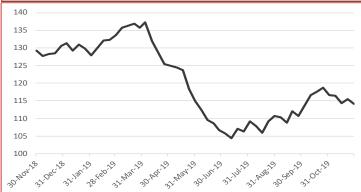
WEEKLY IRON ORE PORT STOCK LUMP PREMIUM (RMB/DMTU)







TOTAL IRON ORE INVENTORIES AT CHINA PORTS (MILLION TONNES)



		FUTURE TRADING—FRONT MONTH CLOSING PRICE		
آ	1000		130	
	900	MAA	120	
l	a 800		110	
	8MB/tonn 900 800		100	USD/DMT
l	/B/	A. MAN	90	SD/
	≥ 600	John M. Aller	80	\supset
	500		70	
l	400		60	
	5.Dec.	RINTER CHAPTER MATTER MATTER MATTER MATTER MATTER MATTER MATTER CHAPTER CHAPTE		
		—— Dalian 3pm Close —— SGX Front Month 6pm (RHS)		

IRON ORE PORT INVENTORIES (MILLION TONNES)

Week Ending November 29nd, 2019											
Province	This week	Change %	Low ²	High ²							
Jingtang	14.57	-4.96%	10.80	17.00							
Qingdao	13.60	0.74%	12.38	19.01							
Caofeidian	13.97	-0.21%	13.97	19.30							
Tianjin	7.04	-1.68%	6.37	9.90							
Rizhao	13.45	-2.96%	11.41	17.10							
Total (35 Ports)	114.17	-1.16%	104.40	137.30							

	D	CE (RMB/WN	IT)	SGX (USD/DMT)				
Closing Date	De	Dec 5th, 3pm close			Dec 5th, 5.30 pm			
Contract	12005	Change	Change %	Jan'20	Change	Change %		
Closing Price	620.50	1.0	0.16%	86.84	-0.11	-0.13%		
Vol traded ('000 lots)	110.07	-17.3	-13.61%	9.79	-3.50	-26.32%		
Open positions ('000 lots)	104.23	11.1	11.89%	134.12	1.98	1.50%		
Day Low	617.5	15.0	2.49%	86.23	-0.05	-0.06%		
Day High	626.5	3.0	0.48%	86.40	-0.98	-1.12%		

IRON ORE FUTURES CONTRACTS

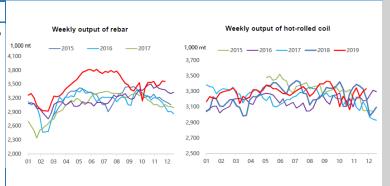
DRY BULK FREIGHT RATES (USD/MT) 35





STEEL SPOT MARKET PRICES—CHINA

Steel Spot Market RMB/tonne										
Product	29/11/2019	Change	Change %							
ReBar HRB400 ¢18mm	4,080.0	-60	-1.45%							
Wirerod Q300 ¢6.5mm	4,380.0	-130	-2.88%							
HRC Q235/SS400 5.5mm*1500*C	3,710.0	30	0.82%							
CRC SPCC/ST12 1.0mm*1250*2500	4,280.0	0	0.00%							
Medium & Heavy Plate Q235B 20mm	3,730.0	20	0.54%							
GI ST02Z 1.0mm*1000*C	4,450.0	50	1.14%							
Colour Coated Plate	6,800.0	-50	-0.73%							



CHINESE STEEL MILL PROFITABILITY											
SMM Tracking of	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	89.10	1.30	Mmi CFR Equivalent index for 1st Feb								
Coke	1,810	0	2nd grade met coke, Tangshan, incl. tax								
Steel Scrap	2,330	-20	steel scrap (6mm) in Zhangjiagang, exl. tax								
Billet Cost	2,941	14	Q234, incl. tax								
Rebar cost - Blast furnace	3,167	14	calculated based on theoretical weight, incl. tax								
Rebar profit - Blast furnace	863	-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

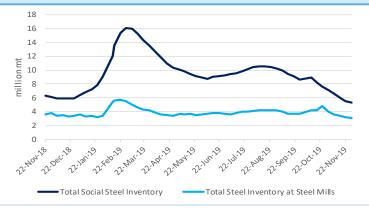


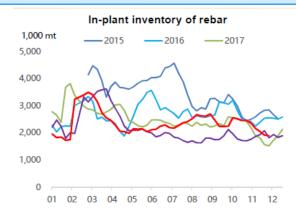


Hot-rolled coil profits



CHINESE STEEL INVENTORIES





Payment Terms

	IRON ORE INDEX SPECIFICATIONS, COMPILATION RATIONALE AND DATA EXCLUSIONS													
	Iron Ore	Iron Ore Ind	ex Compilation	Rationale and Da	ta Exclusions									
	65% Fe Fines	62% Fe Fines	58% Fe Fines	62.5% Fe Lump	MMi iron ore indic	es are compiled from	n data provided by cor	npanies that are						
Fe %	65.00	62.00	58.00	62.50	part of the iron ore supply chain and involved in spot market transactions. indices 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 and			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.			e prices are						
Phosphorus %	0.06	0.09	0.05	0.08	For more details on MMi's iron ore methodology please download the guide			nload the guide						
Sulphur %	0.01	0.02	0.02	0.02	published on our w	ebsite at: www.mm	iprices.com	-						
Moisture %	8.00	8.00	9.00	4.00										
	Granular size be	elow 10mm for at lea	st 90% of cargo:	Size below 6.3mm max 15%		Data Ex	clusions*	65%						
Sizing		0 ,		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	Loading within 4 weeks, Delivery within 8 weeks		Delivery within 2 weeks	* Number of price submissions for iron ore indices that were excluded from									
	1/0 1 11			1/0 1 1 1 010	index calculations today as they were anomalous and could not be ve									

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.

		AVER	AGE IRON	ORE SPECIF	ICATIONS A	PPLIED FOR BRAND PRICE A	SSESSMEN	TS				
	SEABORNE BRANDS											
December 5th, 2019	ober 5th, 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%	9.51%	PB Fines 62%	62.00%	2.60%	4.30%	0.090%	10.00%	
Newman Fines	62.48%	2.21%	4.08%	0.092%	7.82%	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	60.51%	3.03%	4.64%	0.116%	7.92%	Jimblebar Blended Fines	59.50%	3.70%	5.80%	0.135%	8.30%	
Carajas Fines	65.40%	1.27%	1.42%	0.082%	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 5th, 2019	Specifi	cations appli	ed for 58%	brand asses	sments							
	Fe	Alumina	Silica	Phos	Moisture							
SSF	56.72%	3.03%	6.15%	0.054%	9.01%							
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%							
Yandi	57.11%	1.62%	6.40%	0.041%	9.03%							

	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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