

MMi Dashboard

Iron Ore Price Indices





926

-2 -0.22%

July 18th, 2019

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



956

3 0.31%

July 18th, 2019

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



823

3 0.37%

July 18th, 2019

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



120.25

-1.45 -1.19%

July 18th, 2019

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



128.00

-0.20 -0.16%

July 18th, 2019

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



1046

-0.48%

Week Ending July 12th, 2019

Exchange Traded Contracts

DCE Iron Ore 62% Fines I1909 (Sept) RMB/t



889.00

-10.50 -1.17%

July 18th, 2019

(3pm close)

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



114.58

-1.16 -1.00%

July 18th, 2019 (6.00 pm Print)

SHFE Rebar RB1910 (Oct) RMB/t



3968

-84.00 -2.07%

July 18th, 2019

(3pm close)

Freight Rates

C3, Tubarao - Qingdao USD/t



26.87

0.90 3.45%

July 17th, 2019

C5, W. Australia - Qingdao USD/t

10.49

0.00 0.00%

July 17th, 2019

Steel Price

Steel Rebar (China Domestic) RMB/t

3990

0.00%

Week Ending July 12th, 2019

Inventory Levels

Iron Ore Inventory at Chinese Ports (35) million tonnes



104.40

-1.40 -1.32%

Week Ending July 12th, 2019

Steel Inventory in China million tonnes



13.44

0.42 3.20%

Week Ending July 12th, 2019

Steel Price

Steel HRC (China Domestic) RMB/t



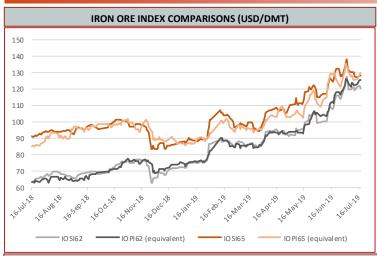
3850

-30 -0.77%

Week Ending July 12th, 2019

www.mmiprices.com Page 1/6 July 18th, 2019

MMi D	aily Iror	n Ore	e Inde	Report											July 18	3th, 201	.9
							IRON O	RE PORT S	TOCK INDEX	K (IOPI)							
July 18th,	2019			FOT C	Qingdao	(inc. 13% V	AT), RMB/wet	tonne			CFR C	ingdao E	quivaler	nt (exc. 13%	6 VAT), USD,	dry tonne	1
Index	Fe Conte	ent	Price	Change	Change	e % MTD	YTD	Low ²	High ²	Price	e Cha	nge Ch	nange %	MTD	YTD	Low ²	High ²
IOPI62	62% Fe Fi	nes	926	-2	-0.29	6 914	706	478	928	125.6	52 -0 .	16	-0.1%	124.02	95.02	62.54	126.12
IOPI58	58% Fe Fi	nes	823	3	0.49	804	614	344	815	112.4	14 0.	54	0.5%	109.78	82.53	43.55	112.44
IOPI65	65% Fe Fi	nes	956	3	0.39	952	782	634	992	129.8	32 0.	54	0.4%	129.32	105.63	84.86	135.34
			IR	ON ORE SE	ABORN	E INDEX (IC	OSI)						MARK	ЕТ СОММІ	ENTARY		
July 18th,	2019				CFR (Qingdao, USI	O/dry tonne								today. Traders com According to SMM,		
Index	Fe Conte	ent	Price	Change	Change	% MTD	YTD	Low ³	High ³						nished their mainst the production cut		
IOSI62	62% Fe Fi		120.25	-1.45	-1.19			62.95	127.50						e pig iron productio tlook remains unce		round 8,900 mt/
IOSI65	65% Fe Fi	nes	128.00	-0.20	-0.16	% 130.8		83.20	137.95								
Wook Endir	a Luly 12th						IRON OF	RE PORT LU	JMP INDEX	(IOPLI)							
2019	ng July 12th,	-		FOT C			AT), RMB/wet						•		VAT), USD/		
Index	Fe Conte		Price	W-o-W	Change		YTD	Low ³	High ³	Price			ange %	MTD	YTD	Low ³	High ³
IOPLI62	62.5% Fe Lu	ump	1046	-5	-0.5%		895	611	1051	132.9			0.68%	133.35	114.63	77.55	133.81
	IRON ORE DOMESTIC CONCENTRATE SPOT PRICE ASSESSMENTS AND COMPOSITE INDEX																
Week Endi	ing July 12t	h, 201	.9				RMB/t	onne (exclu	ding tax) 4					USD/tonne	(excluding t	ax) ⁴	
Province	Regi	ion	Product		Basis	This wee	k Chang	ge %	Low ²	Hig	h²	This we	ek	Change %	Low	, ²	High ²
Hebei		xing		Concentrate	'	1032	4.3		600	103		150.0	3	4.15%	91.9		150.03
Hebei	Qiar			Concentrate	'	925	2.2		665	92		134.4		2.01%	100.		134.48
Liaoning	Ans			Concentrate		705	2.9		465	74		102.49		2.72%	68.2		102.49
Shandong Week Endin	Zibo g July 12th, 2		65% FE	Concentrate		1010 week C	0.0°	% Low ²	660 1010 146.83 -0.19% 99.75 High ² 1 Exchange rate applied: RMB/USD = 6.8710 ² Last 12 months ³ Since June 1						75	147.11	
	Concentrate		posite Inde	x RMB/WT	_	4.48	2.9%	552.39	834.48		ly exchange ra				Since June 1		
	IR	ON O	RE PORT	INDEX, FO	T QING	DAO (RMB	/WT)			IROI	N ORE SE	ABORNI	INDEX	, CFR QING	SDAO (USD	/DMT)	
1050 —									145								
950 —								V\\	135 ——— 125 ———								1
850 —								~~~	115							مامميير	
750 — 650 ~	~~~		~	ham	~~	~~~~	لممرمحسه		95 95	~	~~	~		└ ^	~~~	ساممي	
550 —			~~~	~~~	م ممہ	~~			85 —— 75 ——			~~~	~~~		~~		
450				مسسه					65	~~		-					
350 -		,							55 ———————————————————————————————————								
78,101,78	Skuela Jasepi	, \$00°	78 MON. 18	Poscing Jananiz	18480.19	28 Apr. 19	18 Wah 18 July 18	Shirts	78 JUL 78 VA	\$6.78 SER!	78.04.78	, NOV. 18 D	5c.78	's '8t'sp.'s	Nat. 19 V& Vot. 19	8 Way 19 18 Jul	19 18/11/19
1 10 13	2, 20	1,0					À. À.	7.		*	y 'y	,	ŕ	* *	,	,, ,	
			IO PI	62	O PI 58 *	10 PI 65							IO SI62	— IOS	165		
				IRO	ON ORE	PORT STO	CK INDEX M	ONTHLY, C	QUARTERLY	AND YE	EAR-TO-D	ATE AV	ERAGES	5			
July 18th,	2019			FOT	Qingdad	(inc. 13% V	AT), RMB/wet	t tonne			CFR	Qingdao	Equivale	nt (exc. 13%	% VAT), USD,	dry tonne	
Index	Fe Conte		March	April	May	June	MTD	QTD	YTD	Mar		oril	May	June	MTD	QTD	YTD
IOPI62	62% Fe Fi		639	675	729	825	914	914	706	87.0			98.40	111.42	124.02	124.02	95.02
IOPI58	58% Fe Fi 65% Fe Fi		583 714	600 753	637 812	726 901	804 952	804 952	614 782	75.2 98.0			86.39 110.00	98.60 121.97	109.78 129.32	109.78 129.32	82.53 105.63
							D YEAR-TO-I			30.0	,6 55	.70		EIGHT RA		123.32	103.03
		ADONI	NE INDE	K WONTHE	-			JAIL AVEN	AGLS	Luby 174h	2010	l l	FR		ATES - DRY BUI	V LISĆ huga ka	
July 18th,	Т		March	Amuil			D/dry tonne MTD	OTD	YTD	July 17th Route	, 2019	Designation	ın	Change	Change %	Low 2	High ²
Index IOSI62	Fe Conte		86.18	April 93.42	May 98.68			QTD 121.86	94.56		ilia - Qingdao	C5	10.49	0.00	0.00%	4.39	10.49
IOSI65	65% Fe Fi		97.22	106.75	115.5			130.85	108.32	Tubarao -	-	C3	26.87	0.90	3.45%	11.61	26.87
				IRO	ON ORE	PORT LUN	1P INDEX M	ONTHLY, Q	UARTERLY	AND YE	AR-TO-D	ATE AVI	RAGES				
Week Endin	g July 12th,						AT), RMB/we								6 VAT), USD	/dry tonne	1
2019 Index	Fe Conto	ent	March	April	Ma	•		QTD	YTD	Marc		oril	May	June	MTD	QTD	YTD
IOPLI62	62.5% Fe L		858	872	919	-		1049	895	99.5			117.12	128.00	133.35	133.35	114.63
	<u> </u>						IRON ORE	INDEX PRE	MIUMS/DI	SCOUN	TS						
July 18th, 2	019				PORT	STOCK INDEX			July 18th, 20					SEABOR	NE INDEX (US	D/DMT)	
Index		Fe Con	tent	Spread	to IOPI6		% Spread to	IOPI62	Index		Fe Conte	nt	Sprea	ad to IOSI62	(30	% Spread to	IOSI62
IOPI58		8% Fe I			103		-11.129		loc:		CEN' = -						,
IOPI65	6!	5% Fe I	Fines		30		3.24%)	IOSI65		65% Fe Fir	ies		7.75		6.449	%

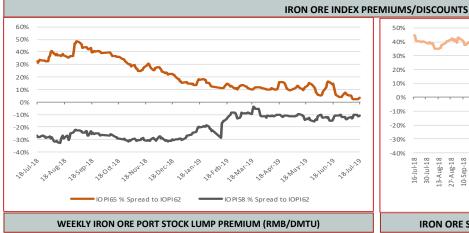




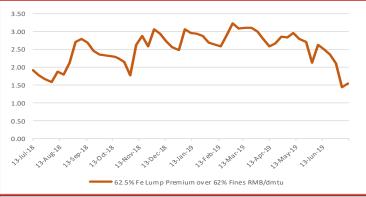
	IRON ORE BRAND SPOT PRICE ASSESMENTS										
July 18th, 2019	PORT	STOCK INDEX (R	MB/WT)	July 18th, 2019	SEABO	RNE INDEX (US	D/DMT)				
	Price	Change	Diff to IOPI62		Price	Change	Diff to IOSI62				
Roy Hill	880	0	-46	Roy Hill	117.55	-1.46	-2.70				
SIMEC Fines	825	5	-101	SIMEC Fines	115.45	-1.46	-4.80				
PB Fines	907	-2	-19	PB Fines	119.50	-1.54	-0.75				
Newman Fines	931	-2	5	Newman Fines	121.27	-1.45	1.02				
MAC Fines	894	0	-32	MAC Fines	115.55	-1.56	-4.70				
Jimblebar Blended Fines	880	-1	-46	Jimblebar Blended Fines	108.97	-5.07	-11.28				
Carajas Fines	959	5	33	Carajas Fines	127.85	-1.45	7.60				
Brazilian SSF	841	10	-85	Brazilian SSF	119.62	-1.45	-0.63				
Brazilian Blend Fines	899	3	-27	Brazilian Blend Fines	121.00	-1.45	0.75				
RTX Fines	882	-1	-44	RTX Fines	113.10	-2.16	-7.15				
West Pilbara Fines	877	0	-49	West Pilbara Fines	116.80	-1.46	-3.45				

July 18th, 2019	PORT	PORT STOCK INDEX (RMB/WT)					
	Price	Change	Diff to IOPI58				
SSF	760	-2	-63				
FMG Blended Fines	825	2	2				
Robe River	757	-2	-66				
Western Fines	790	1	-33				
Atlas Fines	774	-1	-49				
Yandi	846	-2	23				

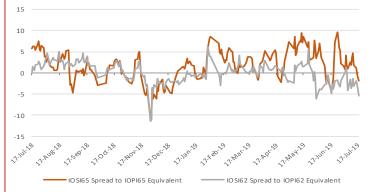
				IRON ORE II	NDEX NORMA	LISATION DIFFER	ENTIALS				
Por	t Stock Index	Product Differ	entials (R	MB/wet tonne)	Seaborne Index Product Differentials (USD/dry tonne))
	Apı	olicable range		Value	Change		A	pplicable ran	ge	Value	Change
	High Grade	Fe 60 - 63%		6.00	0.00		High Grad	de Fe 60 - 639	%	1.50	0.00
	High Grade	Fe 63 - 64%		8.00	1.00		High Grad	igh Grade Fe 63 - 64%		2.00	0.00
1% Fe	High Grade	High Grade Fe 64 - 65% High Grade Fe 65 - 65.5%			1.00	1% Fe	High Grad	de Fe 64 - 659	%	2.00	0.00
	High Grade				1.00		High Grad	High Grade Fe 65 - 65.5		2.00	0.00
	Low Grade	Low Grade Fe			2.00						
	High Fe Gra	High Fe Grade Al <2.25%			4.00		High Fe G	rade Al <2.25	5%	1.00	0.00
1% Alumina	High Fe Gra	High Fe Grade Al 2.25-4%		6.00	0.00	10/ 11	High Fe G	rade Al 2.25-	-4%	1.50	0.25
	Low Fe Gra	de Al <2.25%		54.00	-2.00	1% Alumina					
	Low Fe Gra	de Al 2.25-4%		46.00	3.00						
	High Fe Gra	rde Si <4%		0.00	0.00		High Fe G	rade Si <4%		0.50	0.00
1% Silica	High Fe Gra	High Fe Grade Si 4-6.5%		46.00	-3.00	1% Silica	High Fe G	rade Si 4 - 6.	5%	0.75	0.00
	Low Fe Gra	Low Fe Grade			0.00						
0.010/	High Fe Gra	High Fe Grade 0.09% <p<0.115%< td=""><td>0.00</td><td>0.01%</td><td>High Fe G</td><td colspan="2">High Fe Grade 0.09%<p<0.115%< td=""><td>1.00</td><td>0.00</td></p<0.115%<></td></p<0.115%<>			0.00	0.01%	High Fe G	High Fe Grade 0.09% <p<0.115%< td=""><td>1.00</td><td>0.00</td></p<0.115%<>		1.00	0.00
0.01%	High Fe Gra	rde 0.115% <p<< td=""><td>0.15%</td><td>6.00</td><td>0.00</td><td>Phosphorus</td><td>High Fe G</td><td>rade 0.115%</td><td><p<0.15%< td=""><td>0.75</td><td>0.25</td></p<0.15%<></td></p<<>	0.15%	6.00	0.00	Phosphorus	High Fe G	rade 0.115%	<p<0.15%< td=""><td>0.75</td><td>0.25</td></p<0.15%<>	0.75	0.25
Phosphorus	Low Fe Gra	de 0.09 <p<0.19< td=""><td>%</td><td>1.00</td><td>0.00</td><td></td><td></td><td></td><td></td><td></td><td></td></p<0.19<>	%	1.00	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
Bayuquan	-15.00	0.00	Fangchen	g -5.00	0.00	Lanshan	0.00	0.00	Qingdao	0.00	0.00
Beilun	5.00	0.00	Jiangyin	-20.00	0.00	Lianyungang	-10.00	0.00	Rizhao	0.00	0.00
Caofeidian	-15.00	0.00	Jingtang	-15.00	0.00	Majishan	0.00	0.00	Shekou	0.00	0.00
Dalian	-15.00	0.00	Lanqiao	0.00	0.00	Nantong	-20.00	0.00	Tianjin	0.00	0.00







IRON ORE SEABORNE TO PORT STOCK PRICE SPREADS (USD/DMT)



TOTAL IRON ORE INVENTORIES AT CHINA PORTS (MILLION TONNES)





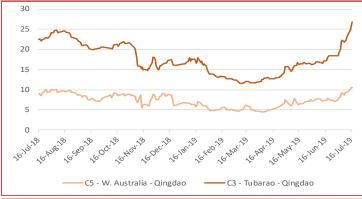
IRON ORE PORT INVENTORIES (MILLION TONNES)

Week Ending July 12th, 2019											
Province	This week	Change %	Low ²	High ²							
Jingtang	10.80	-1.46%	10.80	17.20							
Qingdao	13.37	-3.54%	13.37	19.01							
Caofeidian	14.67	1.31%	14.48	20.10							
Tianjin	6.51	-10.45%	6.51	10.48							
Rizhao	11.68	0.26%	11.65	18.73							
Total (35 Ports)	104.40	-1.32%	104.40	140.74							

		D	CE (RMB/WN	IT)	SGX (USD/DMT)				
2	Closing Date	Jul	y 18th 3pm c	lose	July 18th Feb 5.30 pm				
)	Contract	11909	Change	Change %	Aug'19	Change	Change %		
L	Closing Price	889.00	-10.5	-1.17%	114.58	-1.16	-1.00%		
)	Vol traded ('000 lots)	79.87	-100.5	-55.72%	11.80	-2.63	-18.25%		
3	Open positions ('000 lots)	132.37	0.4	0.33%	151.77	-1.47	-0.96%		
3	Day Low	886.0	6.0	0.68%	114.16	-0.09	-0.08%		
4	Day High	905.5	-2.0	-0.22%	115.70	-1.39	-1.19%		

IRON ORE FUTURES CONTRACTS

DRY BULK FREIGHT RATES (USD/MT)





STEEL SPOT MARKET PRICES—CHINA

Steel Spot Market RMB/tonne			
Product	12/7/2019	Change	Change %
ReBar HRB400 ф18mm	3,990.0	0	0.00%
Wirerod Q300 ¢6.5mm	4,240.0	0	0.00%
HRC Q235/SS400 5.5mm*1500*C	3,850.0	-30	-0.77%
CRC SPCC/ST12 1.0mm*1250*2500	4,200.0	0	0.00%
Medium & Heavy Plate Q235B 20mm	3,930.0	-50	-1.26%
GI ST02Z 1.0mm*1000*C	4,560.0	-60	-1.30%
Colour Coated Plate	6,900.0	50	0.73%



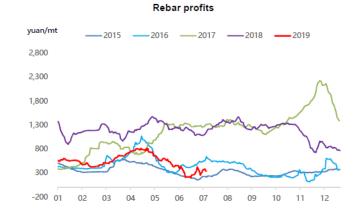
CHINESE STEEL MILL PROFITABILITY										
SMM Tracking of	SMM Tracking of Steel Mill P&L - Rebar and Hot-rolled Coil (RMB/tonne)									
Category	Price	Change (WoW)	Note							
MMi (Fe 62%), USD/mt exluding tax	121.15	-3.55	Mmi CFR Equivalent index for 1st Feb							
Coke	1,910	0	2nd grade met coke, Tangshan, incl. tax							
Steel Scrap	2,330	0	steel scrap (6mm) in Zhangjiagang, exl. tax							
Billet Cost	3,381	-37	Q234, incl. tax							
Rebar cost - Blast furnace	3,631	-39	calculated based on theoretical weight, incl. tax							
Rebar profit - Blast furnace	349	39	based on Shanghai prices, incl. tax							
Hot-rolled coil cost - Blast furnace	3,697	-38	based on actual weight, incl. tax							
Hot-rolled coil proft - Blast furnace	163	-2	based on Shanghai prices, incl. tax							

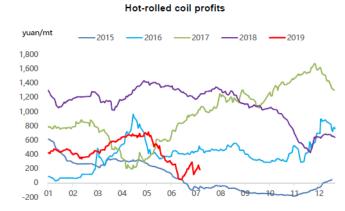
Note: 1 Costs in the table are caluclated based on todays market prices and facout our management, sales, financial and depreciations fees.

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

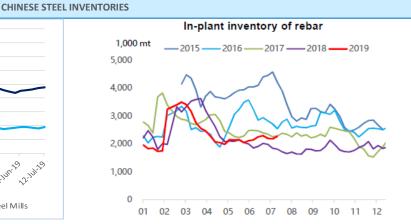


CHINESE STEEL MILL PROFITABILITY





Total Social Steel Inventory Total 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	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 fron	n 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 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									
	Granular size be	elow 10mm for at lea	st 90% of cargo:	Size below 6.3mm max 15%		Data Ex	clusions*	65%					
Sizing		ım of 40% below 150	•	Size above 31.15mm max 25%	Port Index Seaborne index	0	0	0					
Pricing Point	Qingdao P	ort (FOT and CFR res	pectively)	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			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						
July 18th, 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	61.16%	2.25%	4.61%	0.052%	9.35%	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	61.51%	2.35%	3.87%	0.101%	9.42%	PB Fines 62%	62.00%	2.60%	4.30%	0.090%	10.00%	
Newman Fines	62.56%	2.26%	3.98%	0.084%	7.79%	Newman Fines	62.80%	2.20%	4.30%	0.080%	6.40%	
MAC Fines	60.87%	2.24%	4.66%	0.081%	7.55%	MAC Fines	61.00%	2.70%	4.70%	0.110%	9.30%	
Jimblebar Blended Fines	60.85%	3.00%	4.41%	0.114%	7.31%	Jimblebar Blended Fines	59.50%	3.70%	5.80%	0.135%	8.30%	
Carajas Fines	65.60%	1.23%	1.43%	0.068%	8.42%	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	62.85%	1.45%	4.81%	0.073%	8.28%	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%	
July 18th, 2019	Specifi	ications appli	ed for 58%	brand asses	sments							
	Fe	Alumina	Silica	Phos	Moisture							
SSF	56.72%	3.06%	6.27%	0.057%	8.45%							
FMG Blended Fines	58.19%	2.60%	5.47%	0.063%	7.43%							
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	57.41%	1.54%	6.24%	0.041%	8.80%							

		BLOOMBE	RG TICKERS
	PORT STOCK II	NDICES	
	FOT Qingdao (RMB/wet tonne)	CFR Qingdao Equivalent (USD/dry tonne)	
IOPI62	IRCNQ001	IRCNQ004	
IOPI58	IRCNQ002	IRCNQ005	
IOPI65	IRCNQ003	IRCNQ006	

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