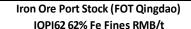


MMi Dashboard

Iron Ore Price Indices





920

13 1.43%

July 16th, 2019

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



940

13 1.40%

July 16th, 2019

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

815

0 0.00%

July 16th, 2019

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



July 16th, 2019

121.90

0.60 0.49%

IOSI65 65% Fe Fines USD/dmt



127.40

0.40 0.31%

July 16th, 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

Iron Ore Seaborne (CFR Qingdao)

DCE Iron Ore 62% Fines 11909 (Sept) RMB/t



905.00

10.00 1.12%

July 16th, 2019

(3pm close)

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

C5, W. Australia - Qingdao USD/t



116.27

-0.23 -0.20%

July 16th, 2019 (6.00 pm Print)

SHFE Rebar RB1910 (Oct) RMB/t



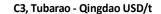
4037

72.00 1.82%

July 16th, 2019

(3pm close)

Freight Rates





July 15th, 2019

24.98

1.12 4.68%



10.13

0.62 6.55%

July 15th, 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

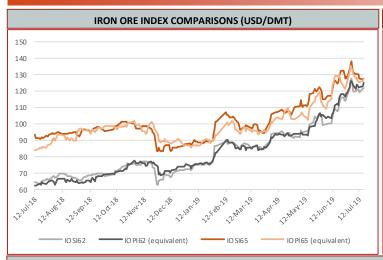


3850

-0.77%

Week Ending July 12th, 2019

MMi D	aily Iro	n Ore	Inde	Report											July 1	5th, 201	L9
							IRON OR	E PORT ST	OCK INDEX	(IOPI)							
July 16th,	2019			FOT C	Qingdao (inc. 13% VAT)	, RMB/wet	tonne			CFR Q	ingdao Eq	uivaler	nt (exc. 13%	6 VAT), USD	dry tonne	, 1
Index	Fe Cont	ent	Price	Change	Change	% MTD	YTD	Low ²	High ²	Pric	e Cha	nge Cha	inge %	MTD	YTD	Low ²	High ²
IOPI62	62% Fe F	ines	920	13	1.4%	912	703	472	928	124.	88 1.7	·6 1	.4%	123.74	94.54	62.35	126.12
IOPI58	58% Fe F	ines	815	0	0.0%	801	611	344	815	111.	39 - <mark>0.</mark>	05 0	.0%	109.39	82.08	43.55	111.44
IOPI65	65% Fe F	ines	940	13	1.4%	952	779	627	992	127.	68 1.7	6 1	.4%	129.28	105.26	84.12	135.34
			IR	ON ORE SEA	ABORNE	INDEX (IOSI)					ı	MARKI	ЕТ СОММ	ENTARY		
July 16th,	2019				CFR Q	ingdao, USD/o	lry tonne				-				though the physica o sell. According to		-
Index	Fe Cont	ent	Price	Change	Change	% MTD	YTD	Low ³	High ³	Jingtang a	ınd Rizhao are exp	ected to increa	se and this	made traders look	to quickly take pro	fit should increasir	ing inventories
IOSI62	62% Fe F	ines	121.90	0.60	0.49%	122.01	94.16	62.95	127.50	maintain	current levels, wit	h little supports	from the n	nills. The Dalian Co		will increase its ire	ron ore transaction
IOSI65	65% Fe F	ines	127.40	0.40	0.31%	131.31	108.02	83.20	137.95								
=							IRON OR	E PORT LU	JMP INDEX	(IOPLI)							
Week Endir 2019	ng July 12th	1,		FOT C	(ingdao	inc. 16% VAT)	, RMB/wet 1	tonne			CFR Q	ingdao Eq	uivalen	it (exc. 16%	VAT), USD,	dry tonne	
Index	Fe Cont	ent	Price	W-o-W	Change	% MTD	YTD	Low ³	High ³	Pric	e W-c	oW Cha	nge %	MTD	YTD	Low ³	High ³
IOPLI62	62.5% Fe L	ump	1046	-5	-0.5%	1049	895	611	1051	132.9	90 -0.9	91 -0	.68%	133.35	114.63	77.55	133.81
	IRON ORE DOMESTIC CONCENTRATE SPOT PRICE ASSESSMENTS AND COMPOSITE INDEX																
Week Endi	ing July 12	th, 201					RMB/to	nne (exclu						USD/tonne	(excluding t	ax) ⁴	
Province	Reg	gion	Product		Basis	This week	Change	2 %	Low ²	Hig	gh ²	This wee	k	Change %	Low	, 2	High ²
Hebei	Hai	nxing	66% Fe	Concentrate	Dry	1032	4.3%	5	600	10	32	150.03		4.15%	91.9	97	150.03
Hebei	Qia	an'an	65% Fe	Concentrate	Dry	925	2.2%	5	665	92	25	134.48		2.01%	100.	26	134.48
Liaoning	An	shan	65% Fe	Concentrate	Wet	705	2.9%	S	465	74	45	102.49		2.72%	68.2	21	102.49
Shandong	Zib		65% Fe	Concentrate	Dry	1010	0.0%		660	10		146.83				147.11	
Week Endin			nosite Inde	y RMR/WT	This v			Low ² 552.39	High ² ¹ Exchange rate applied: RMB/USD = 6.8710 ³ Last 12 months ³ Since June 1 ⁴ Weekly exchange rate applied: RMB/USD 6.8786								
China Mines Concentrate Composite Index RMB/WT 834.48 2.9% 552.39 834.48 IRON ORE PORT INDEX, FOT QINGDAO (RMB/WT) IRON ORE SEABORNE INDEX, C									CER OING	SDAO (USE	/DMT)						
950								Λ.	135								2
850 —								y s	125 ——— 115 ———							کام .	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
750 —	~~~	~~~	~~	has	~	~~~			105 ——			~		~~	m/	مام _ل	<i>_</i>
650 ~			~~~	٠		****			95 85	~		L	~~~	~~	~~~		
450	~~~								75 65	~~		~~	~~~				
350 —	~_~								55 ——— 45 ———								
250 -	200	28 x2	30 4.70	Peneciza Pelaviz	16/50.70	1.79 1.79	1811/19 16/IUI.19	11.29	13/11/18 13/AUR	13 28 SER	130 g. 13	40v.18	73-1ar	'S 'Stap.'S	Var. 13 Var. 18	3.May.19	1,19 III,19
18.10. 18	Pulling To Seb.	780g.	's War's	Reber Pelsi	Veter Ve	Varia Jevorija	ig, Pelin, "	16,111,19	13, 13k	133	131 13	73.0	132 Ju	131, 131	" 13th.	341, 131,	1, 3,
		_	IO PI	62 —— 10	O PI 58 -	IO PI 65						_	IO SI62	10.9	il65		
				IRO	ON ORE	PORT STOCK	INDEX MC	ONTHLY, C	UARTERLY	AND Y	EAR-TO-D	ATE AVE	RAGES	5			
July 16th,	2019			FOT	Qingdao	(inc. 13% VAT)	, RMB/wet	tonne			CFR (Qingdao E	quivale	nt (exc. 139	% VAT), USD	dry tonne	
Index	Fe Cont	tent	March	April	May	June	MTD	QTD	YTD	Mar	ch Ap	ril 1	Vlay	June	MTD	QTD	YTD
IOPI62	62% Fe F	ines	639	675	729	825	912	912	703	87.0	09 85	.37 9	8.40	111.42	123.74	123.74	94.54
IOPI58	58% Fe F		583	600	637	726	801	801	611	75.2			6.39	98.60	109.39	109.39	82.08
IOPI65	65% Fe F		714	753	812	901	952	952	779	98.0	08 95	.78 11	.0.00	121.97	129.28	129.28	105.26
		ABORN	NE INDE	X MONTHL	• •	TERLY AND Y		ATE AVER	AGES			1	FR	EIGHT RA			
July 16th,	1					ingdao, USD/o				July 15tl	h, 201 9	_			ATES - DRY BU		
Index	Fe Cont		March	April	May	June	MTD	QTD	YTD	Route		Designation		Change	Change %	Low ²	High ²
IOSI62	62% Fe F		86.18	93.42	98.68	108.57	122.01	122.01	94.16		alia - Qingdao	C5	10.13	0.62	6.55%	4.39	10.13
IOSI65	65% Fe F	mes	97.22	106.75	115.53		131.31	131.31	108.02	Tubarao		C3	24.98	1.12	4.68%	11.61	24.98
Week Endin	ıg July 12th	,				PORT LUMP			UAKTERLY	AND Y					/ \/A=\ ··	/ al	. 1
2019						(inc. 16% VAT)							-		% VAT), USD	•	
Index	Fe Cont		March	April	May		MTD	QTD	YTD	Mar	•		May	June	MTD	QTD	YTD
IOPLI62 62.5% Fe Lump 858 872 919 1009 1049 1049 895 99.57 111.03 117.12 128.00 133.35 133.35 114.63										<u> </u>		.03 1	17.12	128.00	133.35	133.35	114.63
IOPLI62		IRON ORE INDEX PREMIUMS/DISCOUNTS															
			Т				4										
July 16th, 2		Fe Cont	tent	Sproad		OCK INDEX (RI		1PI62	July 16th, 20)19	Fe Conto	nt	Snre		NE INDEX (U		n IOSI62
		Fe Cont			PORT ST to IOPI62 105	OCK INDEX (RI	MB/WT) 6 Spread to IO -11.41%		July 16th, 20 Index)19	Fe Conte	nt	Sprea	SEABOR ad to IOSI62	NE INDEX (U	SD/DMT) % Spread to	o IOSI62





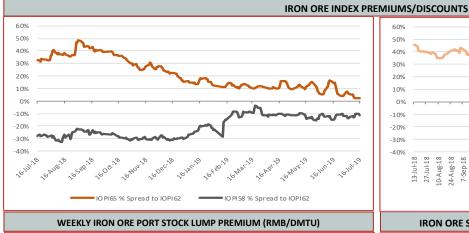
IRON ORE BRAND SPOT PRICE ASSESMENTS								
July 16th, 2019	PORT	STOCK INDEX (R	MB/WT)	July 16th, 2019	SEABO	SEABORNE INDEX (USD/DMT)		
	Price	Change	Diff to IOPI62		Price	Change	Diff to IOSI62	
Roy Hill	876	11	-44	Roy Hill	119.24	0.68	-2.66	
SIMEC Fines	824	5	-96	SIMEC Fines	117.14	0.50	-4.76	
PB Fines	903	13	-17	PB Fines	121.41	0.35	-0.49	
Newman Fines	924	13	4	Newman Fines	122.90	0.34	1.00	
MAC Fines	890	11	-30	MAC Fines	118.54	-0.05	-3.36	
Jimblebar Blended Fines	879	10	-41	Jimblebar Blended Fines	116.01	-0.75	-5.89	
Carajas Fines	941	13	21	Carajas Fines	127.50	1.64	5.60	
Brazilian SSF	826	5	-94	Brazilian SSF	120.65	0.29	-1.25	
Brazilian Blend Fines	886	11	-34	Brazilian Blend Fines	122.27	0.41	0.37	
RTX Fines	877	9	-43	RTX Fines	117.14	-0.32	-4.76	
West Pilbara Fines	875	9	-45	West Pilbara Fines	118.49	0.88	-3.41	

July 16th, 2019	PORT STOCK INDEX (RMB/WT)					
	Price	Change	Diff to IOPI58			
SSF	756	-2	-59			
FMG Blended Fines	817	-1	2			
Robe River	756	-2	-59			
Western Fines	778	-2	-37			
Atlas Fines	766	-1	-49			
Yandi	844	-2	29			

				IRON ORE IN	DEX NORMA	LISATION DIFFER	ENTIALS				
Por	t Stock Index	Product Differ	entials (R	MB/wet tonne)		Sea	aborne Inde	x Product Di	fferentials (U	JSD/dry tonne	e)
	Ар	plicable range		Value	Change		А	pplicable ran	ge	Value	Change
	High Grade	e Fe 60 - 63%		4.00	4.00 1.00		High Grad	de Fe 60 - 63	%	1.50	-0.25
	High Grade	e Fe 63 - 64%		7.00	0.00		High Grad	de Fe 63 - 64	%	1.50	0.25
.% Fe	High Grade	e Fe 64 - 65%		7.00	0.00	1% Fe	High Grad	de Fe 64 - 65	%	1.50	0.25
	High Grade Fe 65 - 65.5%			7.00	0.00		High Grad	High Grade Fe 65 - 65.5%		1.50	0.25
	Low Grade Fe			16.00	0.00						
	High Fe Gra	ade Al <2.25%		3.00	0.00		High Fe G	rade Al <2.2	5%	0.50	0.25
1% Alumina	High Fe Gra	High Fe Grade Al 2.25-4%		3.00	2.00	40/ 41	High Fe G	rade Al 2.25	-4%	0.75	0.50
	Low Fe Gra	de Al <2.25%		59.00	-3.00	1% Alumina					
	Low Fe Gra	de Al 2.25-4%		43.00	3.00						
	High Fe Gra	ade Si <4%		0.00 0.00			High Fe G	rade Si <4%		0.25	0.25
1% Silica	High Fe Gra	High Fe Grade Si 4-6.5%			3.00	1% Silica	High Fe G	rade Si 4 - 6	.5%	0.75	0.25
	Low Fe Gra	de		11.00	0.00						
2.040/	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>rade 0.09%<</td><td>P<0.115%</td><td>0.50</td><td>0.50</td></p<0<>	0.115%	1.00	0.00	0.01%	High Fe G	rade 0.09%<	P<0.115%	0.50	0.50
0.01%	High Fe Gra	ade 0.115% <p<< td=""><td><0.15%</td><td>8.00</td><td>0.00</td><td>Phosphorus</td><td>High Fe G</td><td colspan="2">gh Fe Grade 0.115%<p<0.15%< td=""><td>0.50</td><td>0.00</td></p<0.15%<></td></p<<>	<0.15%	8.00	0.00	Phosphorus	High Fe G	gh Fe Grade 0.115% <p<0.15%< td=""><td>0.50</td><td>0.00</td></p<0.15%<>		0.50	0.00
Phosphorus	Low Fe Gra	de 0.09 <p<0.1< td=""><td>%</td><td>2.00</td><td>-1.00</td><td></td><td></td><td></td><td></td><td></td><td></td></p<0.1<>	%	2.00	-1.00						
			Port S	tock Price Differer	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	Langiao	0.00	0.00	Nantong	-20.00	0.00	Tianjin	0.00	0.00

3.50

1.00





M



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

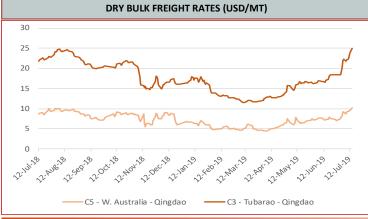




	TOTAL IRON ORE INVENTORIES AT CHINA PORTS (MILLION TONNES)
145	
140	\sim
135	
130	
125	
120	
115	
110	
105	
100	
13.10	ris and the state of the same of the state o

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)				
Closing Date	Jul	y 16th 3pm c	lose	July 16th Feb 5.30 pm				
Contract	11909	Change	Change %	Aug'19	Change	Change %		
Closing Price	905.00	10.0	1.12%	116.27	-0.23	-0.20%		
Vol traded ('000 lots)	207.46	22.5	12.15%	14.31	-2.33	-14.02%		
Open positions ('000 lots)	134.37	-5.4	-3.86%	155.21	-2.71	-1.72%		
Day Low	897.0	32.0	3.70%	115.70	2.95	2.62%		
Day High	924.5	26.0	2.89%	119.40	2.85	2.45%		





STEEL SPOT MARKET PRICES—CHINA

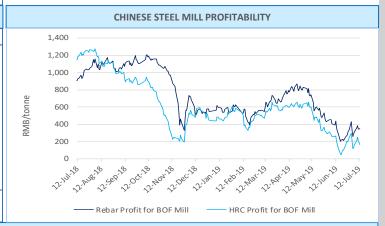
Steel Spot Market RMB/tonne							
Product	12/7/2019	Change	Change %				
ReBar HRB400 ф18mm	3,990.0	0	0.00%				
Wirerod Q300 ¢6.5mm	4,240.0	0	0.00%				
HRC Q235/SS400 5.5mm*1500*C	3,850.0	-30	-0.77%				
CRC SPCC/ST12 1.0mm*1250*2500	4,200.0	0	0.00%				
Medium & Heavy Plate Q235B 20mm	3,930.0	-50	-1.26%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



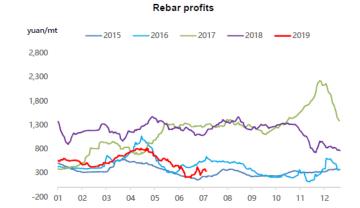
CHINESE STEEL MILL PROFITABILITY								
SMM Tracking of Steel Mill P&L - Rebar and Hot-rolled Coil (RMB/tonne)								
Category	Price	Change (WoW)	Note					
MMi (Fe 62%), USD/mt exluding tax	121.15	-3.55	Mmi CFR Equivalent index for 1st Feb					
Coke	1,910	0	2nd grade met coke, Tangshan, incl. tax					
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					

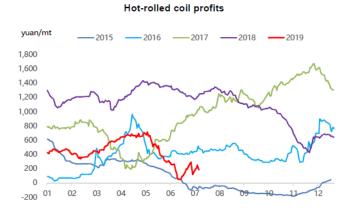
Note: 1 Costs in the table are caluclated based on todays market prices and facout our management, sales, financial and depreciations fees.

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

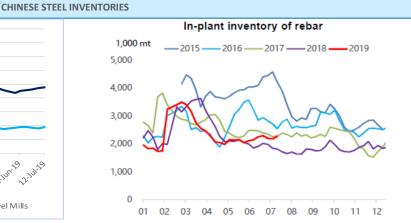


CHINESE STEEL MILL PROFITABILITY





Total Social Steel Inventory Total Steel Inventory at Steel Mills



Payment Terms

IRON ORE INDEX SPECIFICATIONS, COMPILATION RATIONALE AND DATA EXCLUSIONS

IRON ORE INDEX SPECIFICATIONS, COMPILATION RATIONALE AND DATA EXCLUSIONS								
	Iron Ore	Index Specifications)	Iron Ore Ind	ex Compilation I	Rationale and Da	ta Exclusions	
	65% Fe Fines	62% Fe Fines	MMi iron ore indices are compiled from data provided by companies that are					
Fe %	65.00	62.00	58.00	62.50	1		olved in spot market nsaction-level data su	
Alumina %	1.40	2.25	2.25	1.50	these companies. T	his data is normalise	d to the appropriate s	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 website at: www.mmiprices.com			
Moisture %	8.00	8.00	9.00	4.00				
	Granular size be	elow 10mm for at lea	ist 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	0	0	0
Pricing Point	Qingdao Port (FOT and CFR respectively)			FOT Qingdao Port	Seaborne index Lump Index 62.5	0		0
Timing (Seaborne)	Loading within 4 weeks, Delivery within 8 weeks			Delivery within 2 weeks	* Number of price submissions for iron ore indices that were excluded from index calculations today as they were anomalous and could not be verified			

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					
	PORT	STOCK BRAN	IDS			SEABORNE BRANDS							
July 16th, 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	62.55%	2.27%	3.99%	0.087%	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	61.79%	2.67%	4.08%	0.115%	7.16%		
Carajas Fines	65.64%	1.23%	1.41%	0.067%	8.39%	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 16th, 2019	Specifi	cations appli	ed for 58%	brand asses	sments								
	Fe	Alumina	Silica	Phos	Moisture								
SSF	56.72%	3.06%	6.27%	0.057%	8.46%								
FMG Blended Fines	58.19%	2.60%	5.47%	0.062%	7.45%								
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	57.47%	1.50%	6.22%	0.040%	8.86%								

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

L/C at sight

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