

MMi Dashboard

Iron Ore Price Indices





-0.65%

July 19th, 2019

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



970

14 1.46%

July 19th, 2019

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



820

-0.36%

July 19th, 2019

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



121.00

0.62%

July 19th, 2019

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



128.95

0.95 0.74%

July 19th, 2019

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



1049

3 0.29%

Week Ending July 19th, 2019

Exchange Traded Contracts

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



916.00

27.00 3.04%

July 19th, 2019

(3pm close)

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



116.72

2.14 1.87%

July 19th, 2019 (6.00 pm Print)

SHFE Rebar RB1910 (Oct) RMB/t



4001

33.00 0.83%

July 19th, 2019

(3pm close)

Freight Rates

C3, Tubarao - Qingdao USD/t



July 18th, 2019

27.51

0.64 2.39%

C5, W. Australia - Qingdao USD/t



10.85

0.36 3.42%

July 18th, 2019

Steel Rebar (China Domestic) RMB/t

Steel Price

3990

0 0.00%

Week Ending July 12th, 2019

Inventory Levels

Iron Ore Inventory at Chinese Ports (35) million tonnes



107.10

2.70 2.59%

Week Ending July 19th, 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

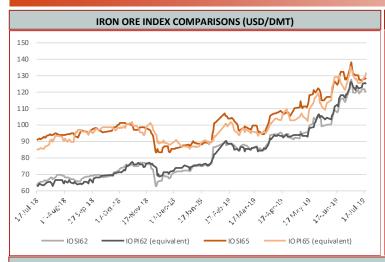


3850

-0.77%

Week Ending July 12th, 2019

MMi D	aily I	ron Or	e Inde	k Report											July 19	9th, 201	.9
							IRON OF	RE PORT S	TOCK INDEX	((IOPI)							
July 19th,	2019			FOT	Qingdao	(inc. 13% VAT), RMB/wet	tonne			CFR Qi	ngdao Eq	uivaleı	nt (exc. 13%	VAT), USD/	dry tonne	1
Index	Fe C	ontent	Price	Change	Change	e% MTD	YTD	Low ²	High ²	Price	Chan	ige Cha	inge %	MTD	YTD	Low ²	High ²
IOPI62	62% F	e Fines	920	-6	-0.69	6 914	708	478	928	125.01	-0.6	1 -0	0.5%	124.08	95.24	62.54	126.12
IOPI58	58% F	e Fines	820	-3	-0.49	6 805	615	347	823	112.12	-0.3	2 -0	0.3%	109.95	82.76	43.55	112.44
IOPI65	65% F	e Fines	970	14	1.5%	953	783	634	992	132.02	2.2	0 1	.7%	129.50	105.83	84.86	135.34
			IR	ON ORE SE	ABORN	E INDEX (IOS	SI)					ا	MARK	ЕТ СОММІ	NTARY		
July 19th,	2019				CFR (Qingdao, USD/	dry tonne							ecutive weeks of dec			
Index	Fe C	ontent	Price	Change	Change	e % MTD	YTD	Low ³	High ³	decline slowed. D	aily average	deliveries from	the 35 ports	fell 38,000 mt from steel mills continue	a week ago, but incr	eased 87,200 mt fr	om a year ago, and
IOSI62	62% F	e Fines	121.00	0.75	0.629	% 121.80	94.75	62.95	127.50					ion. Daily deliveries cks along the Yangtz			ter steel mills in the rived, and as steel
IOSI65	65% F	e Fines	128.95	0.95	0.749	130.73	108.47	83.20	137.95	mills showed little	e purchasing	interest after th	ey stockpile	d one week ago			
Mark Fadio		4041-					IRON OF	RE PORT LU	JMP INDEX	(IOPLI)							
Week Endir 2019	ng July	19th,		FOT	Qingdao	(inc. 16% VAT), RMB/wet				CFR Qi	ngdao Eq	uivaler	it (exc. 16%	VAT), USD/	dry tonne	
Index	Fe C	ontent	Price	W-o-W	Change	e% MTD	YTD	Low ³	High ³	Price	W-o	W Cha	nge %	MTD	YTD	Low ³	High ³
IOPLI62	62.5%	Fe Lump	1049	3	0.3%	1049	900	613	1051	133.41	0.5	1 0.	.38%	133.37	115.30	77.55	133.81
IRON ORE DOMESTIC CONCENTRATE SPOT PRICE ASSESSMENTS AND COMPOSITE INDEX																	
Week End	ing July	12th, 20	19				RMB/to	onne (exclu	ding tax) ⁴					USD/tonne	(excluding t	ax) ⁴	
Province		Region	Product	:	Basis	This week	Chang	e %	Low ²	High ²		This wee	k	Change %	Low	, 2	High ²
Hebei		Hanxing	66% Fe	Concentrate	Dry	1032	4.3%	%	600	1032		150.03		4.15%	91.9	7	150.03
Hebei		Qian'an	65% Fe	Concentrate	Dry	925	2.29	%	665	925		134.48		2.01%	100.	26	134.48
Liaoning		Anshan	65% Fe	Concentrate	Wet	705	2.99	%	465	745		102.49		2.72%	68.2	121	102.49
Shandong		Zibo	65% Fe	Concentrate	Dry	1010	0.09	%	660	1010		146.83		-0.19%	99.7	' 5	147.11
Week Ending July 12th, 2019 This week Change % Low High 1 texhange rate applied: RMB/USD = 6.8635 Last Weekly exchange rate applied: RMB/USD 6.872								Since June 1									
China Mines Concentrate Composite Index RMB/WT 834.48 2.9% 552.82 850.71																	
IRON ORE PORT INDEX, FOT QINGDAO (RMB/WT) IRON ORE SEABORNE INDEX, CFR QINGDAO (USD/DMT)																	
1050 —								Λ.	145 ——— 135 ———								
950 — 850 —							1	VY A	125							مم	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
750 —			~~		M	~~~^	الشركب	~~	115 ——— 105 ———		_			~~		~LU	
650 🕶	سر	,			~/>	~~~			95 85	~~~		\sim	 ~	```	~~~	~~~ <u> </u>	
550 — 450 —	~~~			-					75			~~\	مسسر	لس			
350 -	~~~			مسم					65 55 ——								
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18 July 8	Aprigo 12	,5ep. 600c	AR ARMOVIDE	Carrier Salatin	SAKED IS	Phalla Butta	ENAVIS JOHNSON	19-101-19	SWINE TO VINE	Ta Sear la	Og. 19.	Men' JE G Del	Cot y	18 18 18 18 18 18 18 18 18 18 18 18 18 1	134. 15 ARIVE	Brush o Tahn	10/11
			IO PI		O PI 58	IO PI 65							IOSI62	IO S	165		
				IR	ON ORE	PORT STOC	K INDEX M	ONTHLY, C	QUARTERLY	AND YEAR	R-TO-D	ATE AVE	RAGE	S			
July 19th,	2019			FOT	Qingdad	(inc. 13% VA	T), RMB/wet	tonne			CFR C	Qingdao E	quivale	nt (exc. 13%	6 VAT), USD,	dry tonne	
Index	Fe C	ontent	March	April	May	June	MTD	QTD	YTD	March	Ap	ril f	Vlay	June	MTD	QTD	YTD
IOPI62	62%	Fe Fines	639	675	729	825	914	914	708	87.09	85.	37 9	8.40	111.42	124.08	124.08	95.24
IOPI58	58%	Fe Fines	583	600	637	726	805	805	615	75.22	77.	49 8	6.39	98.60	109.95	109.95	82.76
IOPI65	65%	Fe Fines	714	753	812	901	953	953	783	98.08	95.	78 11	10.00	121.97	129.50	129.50	105.83
IRO	N ORE	SEABOR	NE INDE	X MONTHL	Y, QUA	RTERLY AND	YEAR-TO-D	OATE AVER	RAGES				FF	REIGHT RA	TES		
July 19th,	2019				CFR (Qingdao, USD,	dry tonne			July 18th, 201	19			FREIGHT RA	ATES - DRY BUI		
Index	Fe C	ontent	March	April	May	June	MTD	QTD	YTD	Route		Designation		Change	Change %	Low ²	High ²
IOSI62		Fe Fines	86.18	93.42	98.68		121.80	121.80	94.75	W. Australia - C	-	C5	10.85	0.36	3.42%	4.39	10.85
IOSI65	65%	Fe Fines	97.22	106.75	115.5	3 124.49	130.73	130.73	108.47	Tubarao - Qing	dao	C3	27.51	0.64	2.39%	11.61	27.51
				IR	ON ORE	PORT LUMI	INDEX MO	ONTHLY, Q	UARTERLY	AND YEAR	-TO-D/	ATE AVE	RAGES				
Week Ending July 19th, 2019 FOT Qingdao (inc. 16% VAT), RMB/wet tonne			CFR Q	ingdao Ed	quivale	nt (exc. 16%	6 VAT), USD	dry tonne	1								
Index	Fe C	ontent	March	April	Ma	y June	MTD	QTD	YTD	March	Ар	ril	May	June	MTD	QTD	YTD
IOPLI62	62.5%	Fe Lump	858	872	919	1009	1049	1049	900	99.57	111	.03 1:	17.12	128.00	133.37	133.37	115.30
							IRON ORE	INDEX PRE	MIUMS/DI	SCOUNTS							
July 19th, 2	019				PORT S	STOCK INDEX (F	RMB/WT)		July 19th, 20)19				SEABOR	NE INDEX (US	D/DMT)	
Index		Fe Cor		•	to IOPI6	2	% Spread to I		Index	Fe	Conten	t	Spre	ad to IOSI62		% Spread to	IOSI62
IOPI58		58% Fe 65% Fe			100 50		-10.87% 5.43%		IOSI65	659	% Fe Fin	es		7.95		6.579	%
IOPI65 65% Fe Fines 5					5.45/0		11	1 337						3.37			

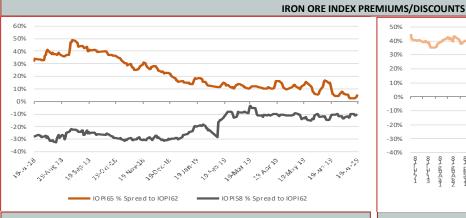




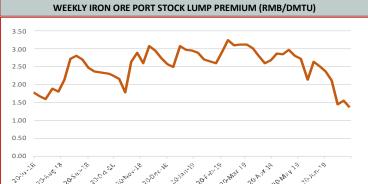
IRON ORE BRAND SPOT PRICE ASSESMENTS										
July 19th, 2019 PORT STOCK INDEX (RMB/WT)			July 19th, 2019	SEABC	RNE INDEX (US	D/DMT)				
	Price	Change	Diff to IOPI62		Price	Change	Diff to IOSI62			
Roy Hill	874	-6	-46	Roy Hill	117.96	0.41	-3.04			
SIMEC Fines	819	-6	-101	SIMEC Fines	115.69	0.24	-5.31			
PB Fines	902	-5	-18	PB Fines	120.16	0.66	-0.84			
Newman Fines	925	-6	5	Newman Fines	122.25	0.98	1.25			
MAC Fines	888	-6	-32	MAC Fines	114.94	-0.61	-6.06			
Jimblebar Blended Fines	873	-7	-47	Jimblebar Blended Fines	106.99	-1.98	-14.01			
Carajas Fines	975	16	55	Carajas Fines	129.80	1.95	8.80			
Brazilian SSF	844	3	-76	Brazilian SSF	121.00	1.38	0.00			
Brazilian Blend Fines	899	0	-21	Brazilian Blend Fines	122.25	1.25	1.25			
RTX Fines	876	-6	-44	RTX Fines	111.64	-1.46	-9.36			
West Pilbara Fines	871	-6	-49	West Pilbara Fines	117.06	0.26	-3.94			

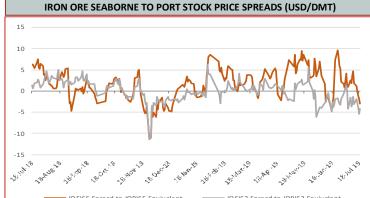
July 19th, 2019	PORT	PORT STOCK INDEX (RMB/WT)					
	Price	Change	Diff to IOPI58				
SSF	762	2	-58				
FMG Blended Fines	823	-2	3				
Robe River	756	-1	-64				
Western Fines	795	5	-25				
Atlas Fines	777	3	-43				
Yandi	850	4	30				

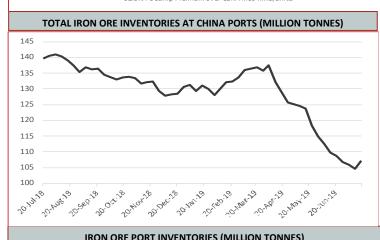
Tarrar		030									
				IRON ORE I	NDEX NORMA	LISATION DIFFER	RENTIALS				
Por	t Stock Index	Product Differ	entials (RMB/wet tonne	e)	Se	aborne Inde	x Product Diff	ferentials (USD/dry tonne	=)
	Apı	plicable range		Value	Change		Aı	plicable rang	ge	Value	Change
	High Grade	e Fe 60 - 63%		6.00	0.00		High Grad	le Fe 60 - 63%	5	1.75	0.25
	High Grade	High Grade Fe 63 - 64%			3.00		High Grad	le Fe 63 - 64%	<u> </u>	2.00	0.00
1% Fe	High Grade	e Fe 64 - 65%		11.00	3.00	1% Fe	High Grad	le Fe 64 - 65%	<u> </u>	2.00	0.00
	High Grade Fe 65 - 65.5%			11.00	3.00		High Grad	le Fe 65 - 65.5	5%	2.00	0.00
	Low Grade	Fe		19.00	0.00						
	High Fe Gra	ade Al <2.25%		17.00	7.00		High Fe G	rade Al <2.25	%	1.50	0.50
1% Alumina	High Fe Grade Al 2.25-4% Low Fe Grade Al <2.25%			6.00	0.00	1% Alumina	High Fe G	rade Al 2.25-4	1%	1.75	0.25
1/0 Alullilla			60.00	6.00	1/6 Alullilla						
	Low Fe Gra	de Al 2.25-4%		43.00	-3.00						
	High Fe Gra	ade Si <4%		3.00	3.00		High Fe G	rade Si <4%		0.75	0.25
1% Silica	High Fe Gra	ade Si 4-6.5%		46.00	0.00	1% Silica	High Fe G	rade Si 4 - 6.5	5%	0.75	0.00
	Low Fe Gra	de		5.00	-3.00						
0.01%	High Fe Gra	ade 0.09% <p<0< td=""><td>.115%</td><td>1.00</td><td>0.00</td><td>0.01%</td><td>High Fe G</td><td>rade 0.09%<p< td=""><td><0.115%</td><td>1.50</td><td>0.50</td></p<></td></p<0<>	.115%	1.00	0.00	0.01%	High Fe G	rade 0.09% <p< td=""><td><0.115%</td><td>1.50</td><td>0.50</td></p<>	<0.115%	1.50	0.50
Phosphorus	High Fe Gra	ade 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>1.00</td><td>0.25</td></p<<>	0.15%	6.00	0.00	Phosphorus	High Fe G	rade 0.115%<	P<0.15%	1.00	0.25
Filospilorus	Low Fe Gra	de 0.09 <p<0.19< td=""><td>6</td><td>1.00</td><td>0.00</td><td></td><td></td><td></td><td></td><td></td><td></td></p<0.19<>	6	1.00	0.00						
			Port	Stock Price Differ	entials to Qingd	ao Port for PB Fine	s (RMB/wet t	onne)			
Port	Value	Change	Po	rt Value	Change	Port	Value	Change	Port	Value	Change







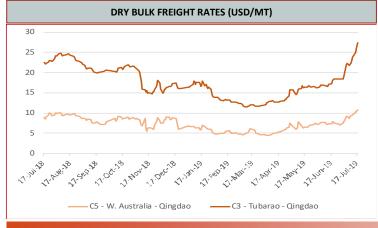




	FUTURE TRADING—FRONT MONTH CLOSING PRICE		
	1000	130	
	900	120	
	e 800	110	т
	9 700 B M 600	100	ļ
	₿ ₭¹ ₆₀₀	90	5
	. 600	80	
	500	70	
	400	60	
	Thing to the forest to congression to being the state of		
	—— Dalian 3pm Close —— SGX Front Month 6pm (RHS)		
Ī	IRON ORE FUTURES CONTRACTS		

INON ORE PORT INVENTORIES (WILLION TOWNES)											
Week Ending July 19th, 2019											
Province	This week	Change %	Low ²	High ²							
Jingtang	11.52	6.67%	10.80	17.20							
Qingdao	12.87	-3.74%	12.87	19.01							
Caofeidian	14.95	1.91%	14.48	20.10							
Tianjin	6.55	0.61%	6.51	10.48							
Rizhao	12.38	5.99%	11.65	18.08							
Total (35 Ports)	107.10	2.59%	104.40	140.74							

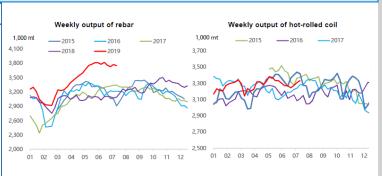
		D	CE (RMB/WN	IT)	SGX (USD/DMT)			
	Closing Date	July 18th 3pm close			July 18th Feb 5.30 pm			
	Contract	11909	Change	Change %	Aug'19	Change	Change %	
	Closing Price	916.00	27.0	3.04%	116.72	2.14	1.87%	
	Vol traded ('000 lots)	97.61	17.7	22.21%	13.83	2.03	17.18%	
	Open positions ('000 lots)	134.13	1.8	1.33%	152.55	0.78	0.52%	
	Day Low	882.0	-4.0	-0.45%	113.55	-0.61	-0.53%	
1	Day High	918.0	12.5	1.38%	116.89	1.19	1.03%	





STEEL SPOT MARKET PRICES—CHINA

Steel Spot Market RMB/tonne									
Product	12/7/2019	Change	Change %						
ReBar HRB400 ¢18mm	3,990.0	0	0.00%						
Wirerod Q300 φ6.5mm	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%						



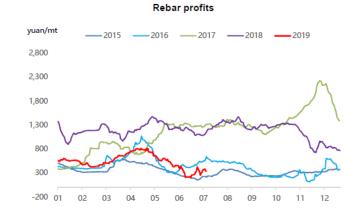
CHINESE STEEL MILL PROFITABILITY										
SMM Tracking of Steel Mill P&L - Rebar and Hot-rolled Coil (RMB/tonne)										
Category	Price	Change (WoW)	Note							
MMi (Fe 62%), USD/mt exluding tax	121.15	-3.55	Mmi CFR Equivalent index for 1st Feb							
Coke	1,910	0	2nd grade met coke, Tangshan, incl. 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 w eight, incl. tax							
Hot-rolled coil proft - Blast furnace	163	-2	based on Shanghai prices, incl. tax							

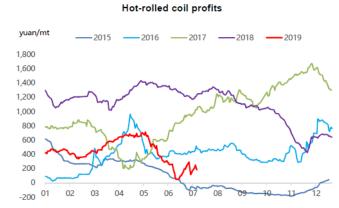
Note: 1 Costs in the table are caluclated based on todays market prices and facout our management, sales, financial and depreciations fees.

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

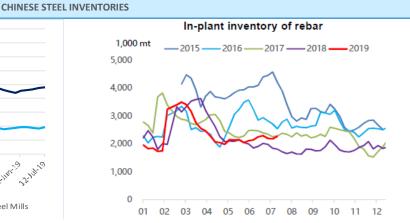


CHINESE STEEL MILL PROFITABILITY





18 16 14 t 12 mlo 0 8 m 6 4 2 0 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 F	Rationale and Da	ta Exclusions					
	65% Fe Fines	62% Fe Fines	58% Fe Fines	62.5% Fe Lump	MMi iron ore indices are compiled from data provided by compar			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. Ti indices are calculated using detailed transaction-level data submitted to MN						
Alumina %	1.40	2.25	2.25	1.50	these companies. This data is normalised to the appropriate specifications and			pecifications 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		8				
Moisture %	8.00	8.00	9.00	4.00							
	Granular size he	elow 10mm for at lea	ist 90% of cargo.	Size below 6.3mm max 15%		Data Exe	clusions*	65%			
Sizing		nular size below 10mm for at least 90% of cargo; maximum 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	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 ndex 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.

		AVEF	RAGE IRON	ORE SPECIF	ICATIONS A	APPLIED FOR BRAND PRICE ASSESSMENTS							
	PORT	STOCK BRAN	IDS				SEABORNE BRANDS						
July 19th, 2019	Specifi	cations appli	ed for 62%	brand asses	sments		Specifi	cations appli	ed for 62%	brand asses	sments		
	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	61.50%	2.35%	3.87%	0.101%	9.41%	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	60.83%	3.01%	4.41%	0.114%	7.35%	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 19th, 2019	Specifi	cations appli	ed for 58%	brand asses	sments								
	Fe	Alumina	Silica	Phos	Moisture								
SSF	56.73%	3.06%	6.28%	0.058%	8.46%								
FMG Blended Fines	58.20%	2.59%	5.47%	0.063%	7.42%								
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	57.43%	1.53%	6.23%	0.040%	8.80%								

		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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