

MMi Dashboard

Iron Ore Price Indices

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

779

0.00%

September 16th 2019

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

99.75

0.00 0.00%

September 16th 2019

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

825

0.00%

September 16th 2019

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

104.90

0.00 0.00%

September 16th 2019

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



705

16 2.32%

September 16th 2019

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



796

19 2.45%

Week Ending September 13th, 2019

Exchange Traded Contracts

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



670.50

-9.50 -1.40%

September 16th 2019

(3pm close)

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



95.18

-1.02 -1.06%

September 16th 2019 (6.00 pm Print)

SHFE Rebar RB2001 (Jan) RMB/t



3564

5.00 0.14%

September 16th 2019

(3pm close)

Freight Rates

C3, Tubarao - Qingdao USD/t



25.89

-1.46 -5.32%

September 13th, 2019

C5, W. Australia - Qingdao USD/t



10.92

0.26 2.43%

September 13th, 2019

Steel Price

Steel Rebar (China Domestic) RMB/t



3720

50 1.36%

Week Ending September 13th, 2019

Inventory Levels

Iron Ore Inventory at Chinese Ports (35) million tonnes



108.75

-1.55 -1.41%

Week Ending September 14th, 2019

Steel Inventory in China million tonnes



13.13

-0.80 -5.77%

Week Ending September 13th, 2019

Steel Price

Steel HRC (China Domestic) RMB/t



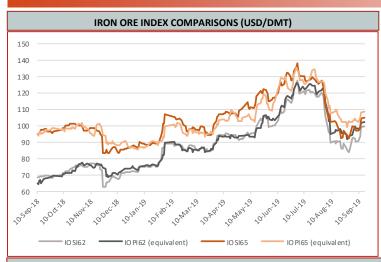
3690

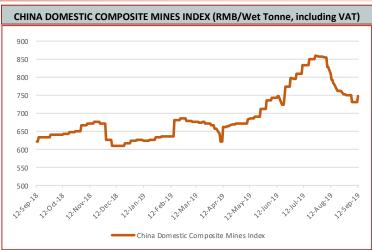
40 1.10%

Week Ending September 13th, 2019

www.mmiprices.com Page 1/6 September 16th 2019

MMi D	aily Iron O	re Inde	x Report											Septe	mber 1	6th 2019
	IRON ORE PORT STOCK INDEX (IOPI)															
Septembe	er 16th 2019		FOT (Qingdao	(inc. 13% VAT), RMB/wet	tonne		CFR Qingdao Equivalent (exc. 13% VAT), USD/dry tonne ¹							
Index	Fe Content	Price	Change	Chang	e % MTD	YTD	Low ²	High ²	Price	Chang	e Cha	ange %	MTD	YTD	Low ²	High ²
IOPI62	62% Fe Fines	779	0	0.09	6 755	726	497	928	102.24	0.27	O	0.3%	98.77	97.30	64.11	126.12
IOPI58	58% Fe Fines	705	16	2.39	6 665	637	374	823	93.18	2.45	2	2.7%	87.49	85.51	46.88	112.44
IOPI65	65% Fe Fines	825	0	0.09	6 797	797	654	992	108.50	0.29	C	0.3%	104.46	107.24	85.47	135.34
		IR	ON ORE SE	ABORN	E INDEX (IOS	ii)					ا	MARK	ЕТ СОММІ	ENTARY		
Septembe	r 16th 2019			CFR (Qingdao, USD/	dry tonne								15 Chinese ports shr average deliveries f		
Index	Fe Content	Price	Change	Chang	e % MTD	YTD	Low ²	High ²						0 mt on a yearly bas ng port and Caofeid		
IOSI62	62% Fe Fines	99.75	0.00	0.00	% 94.13	95.57	62.95	127.50	Deliveries from major ports in Shandong fell as most local steel mills planned to stockpile for the National Day hoilday afte Mid-Autumn Festival. Deliveries from some ports along the Yangtze River increased slightly as some mills increased purcha							
IOSI65	65% Fe Fines	104.90	0.00	0.00	% 100.20	108.00	83.20	137.95	and would conti	nue to do so a	fter the thre	e-day holid	lay.			
Week Endir	ng September							JMP INDEX								2
13th, 2019					(inc. 16% VAT									6 VAT), USD,		
Index	Fe Content	Price	W-o-W	Change		YTD	Low ²	High ²	Price	W-oV		ange %		YTD	Low ²	High ²
IOPLI62	62.5% Fe Lump	796	19	2.49		894	694	1051	97.34	2.44		.57%	96.12	113.69	87.48	133.81
IRON ORE DOMESTIC CONCENTRATE SPOT PRICE ASSESSMENTS AND COMPOSITE INDEX																
	ing September						nne (exclu						-	(excluding t		
Province	Region	Produc		Basis	This week	Change		Low ²	High ²	1	his wee	k	Change %	Low		High ²
Hebei	Hanxing		Concentrate	'	832	5.6%		640	1032		117.44		5.62%	93.4		150.03
Hebei	Qian'an		Concentrate	'	880	4.8%		690	960		124.21		4.80%	100.		139.35
Liaoning	Anshan		Concentrate		660	0.0%		535	745		93.16		0.03%	77.3		104.66
Shandong	Zibo		Concentrate		week Cha	4.8%	Low ²	735 High ²	1040	to continue D	124.21	7.0046 31	4.80%	106.	55	151.33
Week Ending September 13th, 2019 This week Change % Low 2 High 2 1 Exchange rate applied: RMB/USD = 7.0846 RMB/																
	IRON (ORE PORT	T INDEX, FO	T QING	DAO (RMB/\	NT)			IRON O	RE SEAI	BORNE	INDEX	, CFR QING	GDAO (USE)/DMT)	
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950 —					^	1		135							Λ.	
850 —					\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	See M	- ~ T	125 —— 115 ——						کهکی	Any	
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		IO P	162 —— 1	O PI 58	IO PI 65							IO SI62	IOS	5165		
		1	IR	ON ORI	PORT STOC	K INDEX MO	ONTHLY, O	QUARTERLY	AND YEAR	-TO-DA	TE AVE	RAGE	S			
	er 16th 2019				o (inc. 13% VA							•		% VAT), USD,	•	
Index IOPI62	Fe Content 62% Fe Fines	May 729	June 825	July 909	_	MTD 755	QTD 821	YTD 726	May 98.40	June 111.4		July 23.29	August 100.18	MTD 98.77	QTD 109.59	YTD 97.30
IOPI62	58% Fe Fines	637	825 726	809		755 665	736	637	86.39	98.6		23.29 10.47	91.86	98.77 87.49	98.85	97.30 85.51
IOPI65	65% Fe Fines	812	901	954		797	873	797	110.00	121.9		29.53	108.92	104.46	116.73	107.24
IRO	N ORE SEABO	RNE INDE	X MONTHL	Y, QUA	RTERLY AND	YEAR-TO-D	ATE AVEF	RAGES				FF	REIGHT RA	TES		
Septembe	r 16th 2019			CFR	Qingdao, USD,	dry tonne			September 1	3th, 2019			FREIGHT R	ATES - DRY BUI	LK US\$/wet to	onne
Index	Fe Content	May	June	July		MTD	QTD	YTD	Route	[esignation		Change	Change %	Low ²	High ²
IOSI62	62% Fe Fines	98.68	108.57	120.8	92.61	94.13	104.94	95.57	W. Australia - C	Qingdao	C5	10.92	0.26	2.43%	4.39	11.42
IOSI65	65% Fe Fines	115.53	124.49	129.5	3 101.34	100.20	113.11	108.00	Tubarao - Qing	dao	С3	25.89	-1.46	-5.32%	11.61	29.10
			IR	ON ORI	PORT LUMI	INDEX MC	ONTHLY, C	UARTERLY	AND YEAR-	-TO-DA	TE AVEI	RAGES	,			
Week Endin 13th, 2019	g September		FOT	Qingdad	(inc. 16% VA	T), RMB/wet	tonne			CFR Qir	gdao Ed	quivale	nt (exc. 16%	% VAT), USD	/dry tonne	1
Index	Fe Content	May	June	Jul	y August	MTD	QTD	YTD	May	June		July	August	MTD	QTD	YTD
IOPLI62	62.5% Fe Lump	919	1009	104	6 870	787	919	894	117.12	128.0	0 1	32.99	108.80	96.12	114.97	113.69
						IRON ORE I	INDEX PRI	MIUMS/DI	SCOUNTS							
September	16th 2019			PORT	STOCK INDEX (F	RMB/WT)		September	16th 2019				SEABOR	NE INDEX (US	SD/DMT)	
Index		ntent	•	to IOPI6	2	% Spread to I		Index	Fe	Content		Spre	ad to IOSI62		% Spread to	IOSI62
IOPI58 IOPI65		e Fines e Fines		-74 46		-9.50% 5.91%		IOSI65	650	% Fe Fines			5.15		5.169	%
101103	05% F	e rines		-1 ∪		5.91%		103103	037	ore rines			3.13		3.10	···



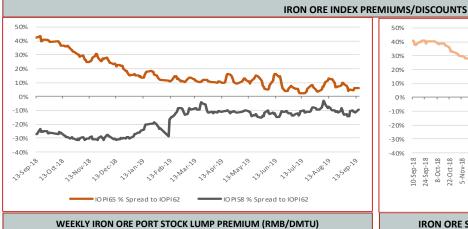


IRON ORE BRAND SPOT PRICE ASSESMENTS											
September 16th 2019	PORT	STOCK INDEX (R	MB/WT)	September 16th 2019	SEABC	SEABORNE INDEX (USD/DMT)					
	Price	Change	Diff to IOPI62		Price	Change	Diff to IOSI62				
Roy Hill	745	1	-34	Roy Hill	97.27	0.00	-2.48				
SIMEC Fines	720	7	-59	SIMEC Fines	94.65	0.00	-5.10				
PB Fines	758	0	-21	PB Fines	98.25	0.00	-1.50				
Newman Fines	783	1	4	Newman Fines	99.92	0.00	0.17				
MAC Fines	757	2	-22	MAC Fines	96.60	0.00	-3.15				
Jimblebar Blended Fines	702	2	-77	Jimblebar Blended Fines	86.32	0.00	-13.43				
Carajas Fines	829	0	50	Carajas Fines	105.17	0.00	5.42				
Brazilian SSF	737	7	-42	Brazilian SSF	96.62	0.00	-3.13				
Brazilian Blend Fines	770	2	-9	Brazilian Blend Fines	99.00	0.00	-0.75				
RTX Fines	714	1	-65	RTX Fines	91.20	0.00	-8.55				
West Pilbara Fines	738	2	-41	West Pilbara Fines	97.12	0.00	-2.63				

September 16th 2019	PORT	PORT STOCK INDEX (RMB/WT)						
	Price	Change	Diff to IOPI58					
SSF	631	16	-74					
FMG Blended Fines	705	16	0					
Robe River	642	16	-63					
Western Fines	637	16	-68					
Atlas Fines	628	17	-77					
Yandi	678	16	-27					

				IRON ORE IN	IDEX NORMA	LISATION DIFFER	ENTIALS				
Por	t Stock Index	Product Differ	entials (R	MB/wet tonne)		Seaborne Index Product Differentials (USD/dry tonne)					
	Ар	plicable range		Value	Change		А	pplicable ran	ige	Value	Change
	High Grade	e Fe 60 - 63%		10.00	0.00		High Grad	de Fe 60 - 63	%	0.75	0.00
	High Grade	e Fe 63 - 64%		12.00	0.00		High Grad	High Grade Fe 63 - 64% High Grade Fe 64 - 65%		1.50	0.00
1% Fe	High Grade	e Fe 64 - 65%		12.00	0.00	1% Fe	High Grad			1.50	0.00
	High Grade	High Grade Fe 65 - 65.5%			0.00		High Grad	High Grade Fe 65 - 65.5%		1.50	0.00
	Low Grade	e Fe		19.00	0.00						
1% Alumina	High Fe Gra	ade Al <2.25%		0.00	0.00		High Fe G	rade Al <2.2	5%	0.50	0.00
	High Fe Gra	High Fe Grade Al 2.25-4%		30.00	0.00	40/ 41	High Fe G	rade Al 2.25	-4%	3.00	0.00
	Low Fe Gra	de Al <2.25%		10.00	0.00	1% Alumina					
	Low Fe Gra	de Al 2.25-4%		39.00	0.00						
	High Fe Gra	ade Si <4%		5.00	0.00		High Fe G	High Fe Grade Si <4%		0.50	0.00
1% Silica	High Fe Gra	High Fe Grade Si 4-6.5%		23.00 -3.00		1% Silica	Silica High Fe Grade Si 4 - 6.5%			1.50	0.00
	Low Fe Gra	Low Fe Grade			0.00						
0.040/	High Fe Gra	ade 0.09% <p<0< td=""><td>.115%</td><td>3.00</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>0.00</td><td>0.00</td></p<0<>	.115%	3.00	0.00	0.01%	High Fe G	rade 0.09%<	P<0.115%	0.00	0.00
0.01%	High Fe Gra	ade 0.115% <p<< td=""><td>0.15%</td><td>7.00</td><td>0.00</td><td>Phosphorus</td><td>High Fe G</td><td>rade 0.115%</td><td><p<0.15%< td=""><td>2.25</td><td>0.00</td></p<0.15%<></td></p<<>	0.15%	7.00	0.00	Phosphorus	High Fe G	rade 0.115%	<p<0.15%< td=""><td>2.25</td><td>0.00</td></p<0.15%<>	2.25	0.00
Phosphorus	Low Fe Gra	de 0.09 <p<0.19< td=""><td>%</td><td>0.00</td><td>0.00</td><td>·</td><td></td><td></td><td></td><td></td><td></td></p<0.19<>	%	0.00	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	-35.00	0.00	Fangchen	g -5.00	0.00	Lanshan	0.00	0.00	Qingdao	0.00	0.00
Beilun	5.00	0.00	Jiangyin	-10.00	10.00	Lianyungang	0.00	0.00	Rizhao	0.00	0.00
Caofeidian	-20.00	0.00	Jingtang	-20.00	0.00	Majishan	0.00	0.00	Shekou	0.00	0.00
Dalian	-35.00	0.00	Lanqiao	0.00	0.00	Nantong	-10.00	10.00	Tianjin	-20.00	-10.00

3.50

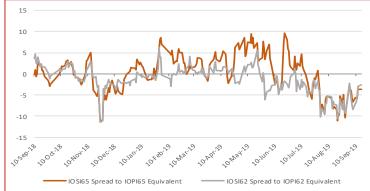




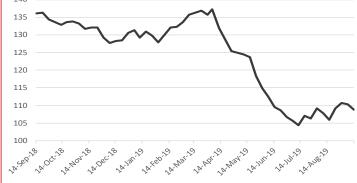
62.5% Fe Lump Premium over 62% Fines RMB/dmtu









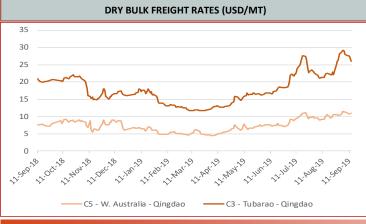


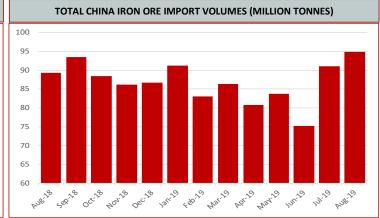
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		FUTURE TRADING—FRONT MONTH CLOSING PRICE	
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	9	00	120
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		—— Dalian 3pm Close —— SGX Front Month 6pm (RHS)	

IRON ORE PORT INVENTORIES (MILLION TONNES)												
Week Ending Sept	Week Ending September 13th, 2019											
Province	This week	Change %	Low ²	High ²								
Jingtang	12.38	-3.66%	10.80	16.37								
Qingdao	12.97	-1.52%	12.38	19.01								
Caofeidian	14.50	-1.69%	14.32	20.10								
Tianjin	7.15	0.85%	6.39	10.05								
Rizhao	11.44	-5.69%	11.44	17.10								
Total (35 Ports)	108.75	-1.41%	104.40	137.30								

		D	CE (RMB/WN	IT)	SGX (USD/DMT)				
	Closing Date	Sep	t 16th 3pm c	lose	Sep 16th 5.30 pm				
	Contract	12001	I2001 Change Change % S		Sep'19	Change	Change %		
	Closing Price	670.50	-9.5	-1.40%	95.18	-1.02	-1.06%		
	Vol traded ('000 lots)	150.55	-87.4	-36.74%	1.89	1.14	151.33%		
	Open positions ('000 lots)	146.57	-9.6	-6.16%	158.05	-0.51	-0.32%		
	Day Low	669.5	10.5	1.59%	94.94	-1.26	-1.31%		
)	Day High	690.0	9.0	1.32%	95.30	-0.90	-0.94%		

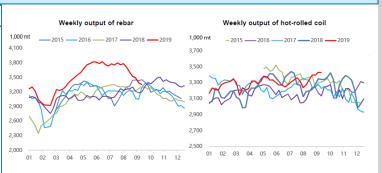
IRON ORE FUTURES CONTRACTS





STEEL SPOT MARKET PRICES—CHINA

Steel Spot Market RMB/tonne								
Product	13/9/2019	Change	Change %					
ReBar HRB400	3,720.0	50	1.36%					
Wirerod Q300 ¢6.5mm	4,030.0	60	1.51%					
HRC Q235/SS400 5.5mm*1500*C	3,690.0	40	1.10%					
CRC SPCC/ST12 1.0mm*1250*2500	4,270.0	20	0.47%					
Medium & Heavy Plate Q235B 20mm	3,780.0	20	0.53%					
GI ST02Z 1.0mm*1000*C	4,500.0	10	0.22%					
Colour Coated Plate	6,950.0	0	0.00%					



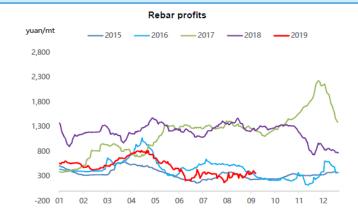
CHINESE STEEL MILL PROFITABILITY										
SMM Tracking of Steel Mill P&L - Rebar and Hot-rolled Coil (RMB/tonne)										
Category	Price	Change (WoW)	Note							
MMi (Fe 62%), USD/mt exluding tax	93.40	1.10	Mmi CFR Equivalent index for 1st Feb							
Coke	1,910	0	2nd grade met coke, Tangshan, incl. tax							
Steel Scrap	2,340	70	steel scrap (6mm) in Zhangjiagang, exl. tax							
Billet Cost	3,080	18	Q234, incl. tax							
Rebar cost - Blast furnace	3,326	20	calculated based on theoretical weight, incl. tax							
Rebar profit - Blast furnace	354	10	based on Shanghai prices, incl. tax							
Hot-rolled coil cost - Blast furnace	3,396	18	based on actual weight, incl. tax							
Hot-rolled coil proft - Blast furnace	304	2	based on Shanghai prices, incl. tax							

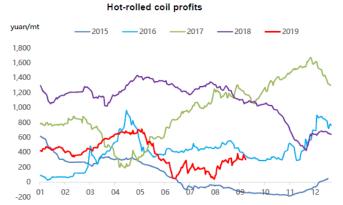
Note: 1 Costs in the table are caluclated based on todays market prices and facout our management, sales, financial and depreciations fees.

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

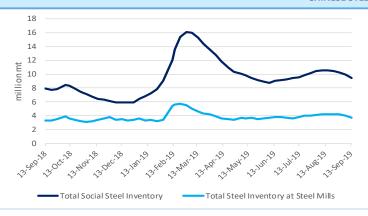


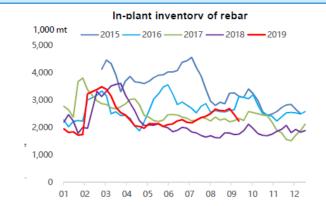
CHINESE STEEL MILL PROFITABILITY





CHINESE STEEL INVENTORIES





Payment Terms

IRON ORE INDEX SPECIFICATIONS, COMPILATION RATIONALE AND DATA EXCLUSIONS Iron Ore Index Specifications (Port and Seaborne) Iron Ore Index Compilation Rationale and Data Exclusions 65% Fe Fines 62% Fe Fines 58% Fe Fines 62.5% Fe Lump MMi iron ore indices are compiled from data provided by companies that are part of the iron ore supply chain and involved in spot market transactions. The Fe % 65.00 62.00 58.00 62.50 indices are calculated using detailed transaction-level data submitted to MMi by 2.25 2.25 1.50 these companies. This data is normalised to the appropriate specifications and Alumina % 1.40 screened to remove outliers before volume-weighted average prices are Silica% 4.00 3.50 1.50 5.50 calculated from the remaining core set of data. Phosphorus % 0.09 0.05 0.08 0.06 For more details on MMi's iron ore methodology please download the guide published on our website at: www.mmiprices.com Sulphur % 0.01 0.02 0.02 0.02 Moisture % 8.00 8.00 9.00 4.00 Data Exclusions* Granular size below 10mm for at least 90% of cargo; Size below 6.3mm max 15% 65% Sizing 0 maximum of 40% below 150 micron Size above 31.15mm max 25% Seaborne index O Qingdao Port (FOT and CFR respectively) FOT Qingdao Port **Pricing Point** Lump Index 62.5 Loading within 4 weeks, Delivery within 8 weeks Delivery within 2 weeks * Number of price submissions for iron ore indices that were excluded from Timing (Seaborne) 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.

AVERAGE IRON ORE SPECIFICATIONS APPLIED FOR BRAND PRICE ASSESSMENTS												
	PORT	STOCK BRAN	IDS			SEABORNE BRANDS						
September 16th 2019	Specifi	cations appli	ed for 62%	brand asses	sments		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	61.53%	2.37%	3.75%	0.097%	9.45%	PB Fines 62%	62.00%	2.60%	4.30%	0.090%	10.00%	
Newman Fines	62.52%	2.16%	4.15%	0.088%	7.74%	Newman Fines	62.80%	2.20%	4.30%	0.080%	6.40%	
MAC Fines	60.82%	2.24%	4.58%	0.079%	7.59%	MAC Fines	61.00%	2.70%	4.70%	0.110%	9.30%	
Jimblebar Blended Fines	60.58%	3.04%	4.57%	0.119%	7.51%	Jimblebar Blended Fines	59.50%	3.70%	5.80%	0.135%	8.30%	
Carajas Fines	65.46%	1.32%	1.34%	0.076%	8.32%	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	62.90%	1.54%	4.59%	0.070%	8.49%	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%	
September 16th 2019	Specifi	cations appli	ed for 58%	brand asses	sments							
	Fe	Alumina	Silica	Phos	Moisture							
SSF	56.59%	3.07%	6.32%	0.056%	8.07%							
FMG Blended Fines	58.19%	2.61%	5.44%	0.058%	7.76%							
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	57.31%	1.54%	6.33%	0.041%	8.90%							
						d						

	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	10S165	IRCN0035							
IOPI65	IRCNQ003	IRCNQ006									
IOPLI62	IRCN0036	IRCN0037									

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