

MMi Dashboard

Iron Ore Price Indices

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

756

0.00%

September 11th 2019

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



93.40

1.20 1.30%

September 11th 2019

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



800

10 1.27%

September 11th 2019

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



99.05

1.20 1.23%

September 11th 2019

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



673

0.15%

1

September 11th 2019

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



777

14 1.83%

Week Ending September 6th, 2019

Exchange Traded Contracts

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



661.00

5.50 0.84%

September 11th 2019

(3pm close)

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



92.88 2.00 2.20%

September 11th 2019

(6.00 pm Print)

SHFE Rebar RB2001 (Jan) RMB/t



3481

2.00 0.06%

September 11th 2019

(3pm close)

Freight Rates

C3, Tubarao - Qingdao USD/t



27.50

-0.05 -0.16%

September 10th, 2019

C5, W. Australia - Qingdao USD/t



10.66

0.19 -1.76%

September 10th, 2019

Steel Price

Steel Rebar (China Domestic) RMB/t



3670

70 1.94%

Week Ending September 6th, 2019

Inventory Levels

Iron Ore Inventory at Chinese Ports (35) million tonnes



110.30

-0.35 -0.32%

Week Ending September 6th, 2019

Steel Inventory in China

million tonnes



13.94

-0.53 -3.66%

Week Ending September 6th, 2019

Steel Price

Steel HRC (China Domestic) RMB/t

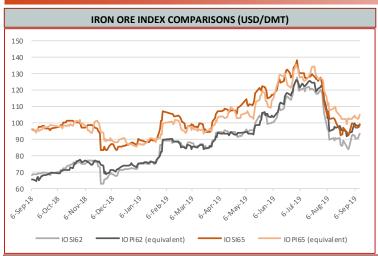


3650

20 0.55%

Week Ending September 6th, 2019

MMI D	ally Iror	n Ore	e Inde	x Report												Septe	mber 1	1th 2019
								IRON ORE	PORT S	TOCK INDEX	(IOP	1)						
Septembe	er 11th 201	19		FOT C	Qingdao	(inc. 13	% VAT), I	RMB/wet t	onne			CFR (Qingda	ao Equivale:	nt (exc. 13%	6 VAT), USD,	dry tonne	1
Index	Fe Conte	ent	Price	Change	Chang	e %	MTD	YTD	Low ²	High ²	Pr	ice Cha	ange	Change %	MTD	YTD	Low ²	High ²
IOPI62	62% Fe Fi	ines	756	0	0.09	6	750	725	497	928	98	.85 0	.01	0.0%	97.94	97.24	64.11	126.12
IOPI58	58% Fe Fi	ines	673	1	0.19	6	657	636	374	823	88	.54 0	.14	0.2%	86.37	85.42	46.88	112.44
IOPI65	65% Fe Fi	ines	800	10	1.39	6	790	797	654	992	104	.82 1	.36	1.3%	103.49	107.24	85.47	135.34
			IF	RON ORE SE	ABORN	E INDE	X (IOSI)							MARK	ЕТ СОММІ	ENTARY		
Septembe	r 11th 201	19			CFR	Qingdao	, USD/dr	y tonne								ge volumes of trades ven mills further sto		
Index	Fe Conte	ent	Price	Change	Change	e %	MTD	YTD	Low ²	High ²						ipping for the third t 75 vessels carrying		
IOSI62	62% Fe Fi	ines	93.40	1.20	1.30	% 9	2.10	95.50	62.95	127.50	leaving	Australian ports s	hrank 1.4	7 million mt from tl	ne prior week to 13	e week ended Augu 3.67 million mt. Ship	oments that depar	ted Brazilian port
IOSI65	65% Fe Fi	ines	99.05	1.20	1.23	% 9	8.49	108.05	83.20	137.95			l declines	by 1.09 million mt	on the week to 6.0	3 million mt, due to	berth maintenan	ice.
Wook Endin	ng Septemb									JMP INDEX	(IOPL	I)						
6th, 2019	ig Septemb	per		FOT C			% VAT), F	RMB/wet to				CFR C	Qingda		nt (exc. 16%	VAT), USD/	-	
Index	Fe Conte		Price	W-o-W	Change		MTD	YTD	Low ²	High ²	Pr		∙oW	Change %	MTD	YTD	Low ²	High ²
IOPLI62	62.5% Fe L	.ump	777	14	1.89		777	896	691	1051	94		66	1.78%	94.90	114.16	87.28	133.81
	IRON ORE DOMESTIC CONCENTRATE SPOT PRICE ASSESSMENTS AND COMPOSITE INDEX																	
Week Endi	ing Septem	nber 61	th, 2019					RMB/ton	ne (exclu	ding tax) 3					USD/tonne	(excluding t	ax) ³	
Province	Reg	gion	Produc	t	Basis	This	week	Change	%	Low ²	Н	igh ²	This	week	Change %	Low	/ ²	High ²
Hebei		nxing		Concentrate	'	7	88	-2.2%		630		032		1.19	-2.34%	92.3		150.03
Hebei	'	ın'an		Concentrate	'		40	-1.2%		690		960		8.53	-1.29%	100.		139.35
Liaoning		shan		Concentrate			60	-4.3%		515		745		3.13	-4.46%	75.4		104.66
Shandong	Zibo			Concentrate	<u> </u>		40 Change	-1.8%	Low ²	725				106.	23	151.33		
Week Ending September 6th, 2019 This week Change % Low 2 High 2 1 Exchange rate applied: RMB/USD = 7.0843 *Last 12 months China Mines Concentrate Composite Index RMB/WT 731.70 -2.5% 609.04 859.50																		
	IR	ON O	RE POR	T INDEX, FO	T QING	DAO (R	MB/WT	-)			IR	ON ORE SE	ABO	RNE INDEX	, CFR QING	GDAO (USD)/DMT)	
1050 —										145								
950									135							Λ.		
850								125 ——— 115 ———						كهمي	Mm			
750 ~ 650 —		\mathcal{N}	~~	~~~	~~~		,~~	F	\ <u>\</u>	105 95	~	~			~~~	لهمر	~	Mr.
550	سمسمه	~~	سمرير	~~ ~~	~~~					85 ——		~	^	~~	~~	<u>~</u>		
450		~~~	~~~							75 65	ممر	~~	^					
350 — 250 —										55 ——— 45 ———	,							1 1
1.5ep.18	120t.18	12.Dec	,190 12:13n:19	77. Febr. 19. 19. 19. 19.	11.AQE.19	rwa4.70	Jun 19 11-Jul	12 12 AUB 19	588.19	1.56478 1.000	7.MG	in Theche	1.130.19	7. Februs 7. Mar. 1	2 1.80r.79	1.Jun.19	7.Jul.29 7.Au8	1,5ep.19
75. 7	y, /y,	77.0	77.	72, 72,	7. Y	in 1	. Yz	73., 73.	; *	Λ	٧.	7.	`	1 1	1 1	• (, 4.	^
			IO P	PI 62 ——— IC	O PI 58	10	PI 65							IO SI62	— IO S	6165		
				IRO	ON ORI	PORT	STOCK I	NDEX MO	NTHLY, C	QUARTERLY	AND	YEAR-TO-	DATE	AVERAGES	5			
Septembe	r 11th 201	19		FOT	Qingda) (inc. 13	% VAT),	RMB/wet t	onne			CFR	Qingo	dao Equivale	nt (exc. 13%	% VAT), USD,	dry tonne	
Index	Fe Cont	tent	May	June	July	Αι	igust	MTD	QTD	YTD	N	1ay Ju	ıne	July	August	MTD	QTD	YTD
IOPI62	62% Fe F		729	825	909		759	750	823	725			1.42	123.29	100.18	97.94	109.87	97.24
IOPI58 IOPI65	58% Fe F 65% Fe F		637 812	726 901	809 954		591 323	657 790	737 875	636 797			3.60 1.97	110.47 129.53	91.86 108.92	86.37 103.49	99.11 117.05	85.42 107.24
											1.1	J.00 12	1.57				117.03	107.24
			NE INDE	X MONTHL					ATE AVEN	RAGES				FF	REIGHT RA			
	r 11th 201			l			, USD/dr		OTD	VTD	Route	mber 10th, 20		nation		ATES - DRY BUI Change %	Low 2	High ²
Index IOSI62	Fe Cont		May 98.68	June 108.57	July 120.8		ugust 2.61	MTD 92.10	QTD 105.25	YTD 95.50		: tralia - Qingdao		25 10.66	Change -0.19	-1.76%	4.39	11.42
IOSI65	65% Fe F		115.53		120.5		2.01	98.49	113.61	108.05		o - Qingdao		27.50	-0.05	-0.16%	11.61	29.10
	1									UARTERLY								
Week Endin	ıg Septembe	er						RMB/wet t								% VAT), USD	/dry tonne	1
6th, 2019 Index	Fe Cont	tent	May	June	Jul		ugust	MTD	QTD	YTD	I		une	July	August	MTD	QTD	YTD
IOPLI62	62.5% Fe L		919	1009	104	-	870	777	931	896		•	8.00	132.99	108.80	94.90	119.15	114.16
	·						IR	ON ORE IN	IDEX PRE	MIUMS/DI	scou	NTS						
September	11th 2019				PORT	STOCK IN	DEX (RME			September					SEABOR	NE INDEX (US	SD/DMT)	
Index		Fe Con	tent	Spread	to IOPI6			Spread to IO	PI62	Index		Fe Conte	nt	Spre	ad to IOSI62	(30	% Spread to	IOSI62
IOPI58		8% Fe I			83			-10.98%										
IOPI65	6	55% Fe I	Fines		44			5.82%		IOSI65		65% Fe Fi	nes		5.65		6.059	%

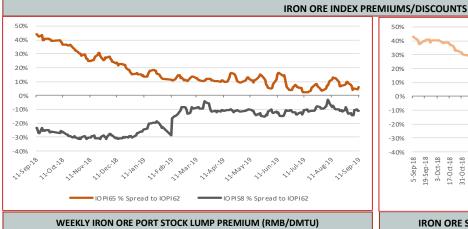




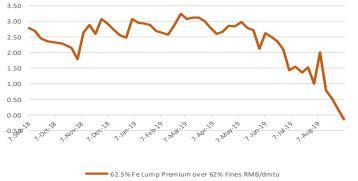
IRON ORE BRAND SPOT PRICE ASSESMENTS											
September 11th 2019	PORT	STOCK INDEX (R	MB/WT)	September 11th 2019	SEABORNE INDEX (USD/DMT)						
	Price	Change	Diff to IOPI62		Price	Change	Diff to IOSI62				
Roy Hill	720	1	-36	Roy Hill	91.47	1.15	-1.93				
SIMEC Fines	684	7	-72	SIMEC Fines	89.37	1.15	-4.03				
PB Fines	735	-1	-21	PB Fines	91.97	0.85	-1.43				
Newman Fines	758	2	2	Newman Fines	93.45	1.20	0.05				
MAC Fines	732	1	-24	MAC Fines	90.67	0.75	-2.73				
Jimblebar Blended Fines	677	0	-79	Jimblebar Blended Fines	81.55	-1.25	-11.85				
Carajas Fines	802	9	46	Carajas Fines	99.10	1.20	5.70				
Brazilian SSF	698	12	-58	Brazilian SSF	90.90	1.20	-2.50				
Brazilian Blend Fines	743	5	-13	Brazilian Blend Fines	92.77	1.20	-0.63				
RTX Fines	693	0	-63	RTX Fines	85.72	-0.65	-7.68				
West Pilbara Fines	713	-1	-43	West Pilbara Fines	91.42	1.15	-1.98				

September 11th 2019	PORT STOCK INDEX (RMB/WT)						
	Price	Change	Diff to IOPI58				
SSF	608	-4	-65				
FMG Blended Fines	675	0	2				
Robe River	618	-1	-55				
Western Fines	613	-7	-60				
Atlas Fines	603	-5	-70				
Yandi	649	-5	-24				

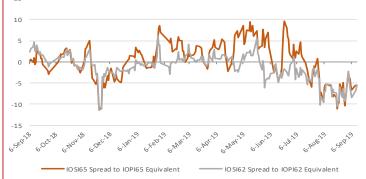
				IRON ORE II	NDEX NORMA	ALISATION DIFFER	ENTIALS				
Por	t Stock Index	Product Differ	entials (R	MB/wet tonne)	Sea	aborne Inde	x Product Di	fferentials (I	JSD/dry tonne)
	App	plicable range		Value	Change		А	pplicable ran	ge	Value	Change
	High Grade	e Fe 60 - 63%		9.00	2.00		High Grad	de Fe 60 - 639	%	0.50	0.00
	High Grade	e Fe 63 - 64%		11.00	1.00		High Grad	h Grade Fe 63 - 64%		1.75	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	%	1.75	0.00
	High Grade				1.00		High Grad	High Grade Fe 65 - 65.5%		1.75	0.00
	Low Grade Fe			17.00	0.00						
	High Fe Gra	de Al <2.25%		0.00	0.00		High Fe G	rade Al <2.25	5%	0.50	0.00
40/ 41	High Fe Grade Al 2.25-4%			30.00	0.00 0.00		High Fe Grade Al 2.25			% 3.00	
1% Alumina	Low Fe Gra	ade Al <2.25%		10.00	-5.00	1% Alumina					
	Low Fe Gra	de Al 2.25-4%		33.00	3.00						
	High Fe Gra	ade Si <4%		5.00	2.00		High Fe G	rade Si <4%		0.50	0.00
1% Silica	High Fe Gra	de Si 4-6.5%		29.00	-5.00	1% Silica	High Fe Grade Si 4 - 6.5%			1.25	0.00
	Low Fe Gra	Low Fe Grade			3.00						
0.01%	High Fe Gra	de 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
	High Fe Gra	de 0.115% <p<< td=""><td>0.15%</td><td>5.00</td><td>0.00</td><td>Phosphorus</td><td colspan="2">High Fe Grade 0.115%<p<0.15%< td=""><td><p<0.15%< td=""><td>2.00</td><td>0.50</td></p<0.15%<></td></p<0.15%<></td></p<<>	0.15%	5.00	0.00	Phosphorus	High Fe Grade 0.115% <p<0.15%< td=""><td><p<0.15%< td=""><td>2.00</td><td>0.50</td></p<0.15%<></td></p<0.15%<>		<p<0.15%< td=""><td>2.00</td><td>0.50</td></p<0.15%<>	2.00	0.50
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 Qingo	lao 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	-20.00	0.00	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	-20.00	0.00	Tianjin	-10.00	0.00











TOTAL IRON ORE INVENTORIES AT CHINA PORTS (MILLION TONNES) 140 130 125 120 115 110 105 100



I	IRON ORE PORT INVENTORIES (MILLION TONNES)											
Week Ending September 6th, 2019												
Province	This week	Change %	Low ²	High ²								
Jingtang	12.85	-0.70%	10.80	16.37								
Qingdao	13.17	-0.75%	12.38	19.01								
Caofeidian	14.75	-3.53%	14.32	20.10								
Tianjin	7.09	-1.39%	6.39	10.05								
Rizhao	12.13	1.42%	11.65	17.10								
Total (35 Ports)	110.30	-0.32%	104.40	137.30								

		D	CE (RMB/WN	IT)	SGX (USD/DMT)					
	Closing Date	Sept 11th 3pm close			Sep 11th 5.30 pm					
	Contract	12001	Change	Change %	Sep'19	Change	Change %			
	Closing Price	661.00	5.5	0.84%	92.88	2.00	2.20%			
	Vol traded ('000 lots)	285.38	47.0	19.70%	5.36	-0.86	-13.75%			
	Open positions ('000 lots)	160.70	14.1	9.65%	157.63	-0.05	-0.03%			
	Day Low	646.0	3.0	0.47%	90.96	0.08	0.09%			
)	Day High	665.0	5.0	0.76%	92.88	0.83	0.90%			

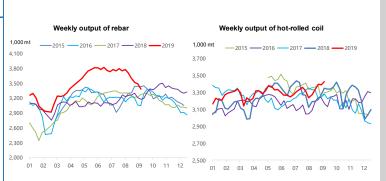
IRON ORE FUTURES CONTRACTS

DRY BULK FREIGHT RATES (USD/MT)
35 ————————————————————————————————————
30 —
25
20
15
10
5
0
7560 1 10 C. 18 MOUT 1 10 C. 18 1 1 160 1 1 1 1
C5 - W. Australia - Qingdao C3 - Tubarao - Qingdao



STEEL SPOT MARKET PRICES—CHINA

Steel Spot Market RMB/tonne			
Product	6/9/2019	Change	Change %
ReBar HRB400 ф18mm	3,670.0	70	1.94%
Wirerod Q300 ¢6.5mm	3,970.0	90	2.32%
HRC Q235/SS400 5.5mm*1500*C	3,650.0	20	0.55%
CRC SPCC/ST12 1.0mm*1250*2500	4,250.0	30	0.71%
Medium & Heavy Plate Q235B 20mm	3,760.0	10	0.27%
GI ST02Z 1.0mm*1000*C	4,490.0	0	0.00%
Colour Coated Plate	6,950.0	-50	-0.71%



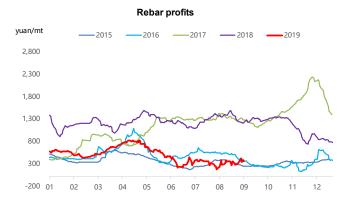
CHINESE STEEL MILL PROFITABILITY SMM Tracking of Steel Mill P&L - Rebar and Hot-rolled Coil (RMB/tonne) Change (WoW) Note Category Price MMi (Fe 62%), USD/mt exluding tax 92.30 8.55 Mmi CFR Equivalent index for 1st Feb Coke -100 1,910 2nd grade met coke, Tangshan, incl. tax Steel Scrap 50 2.270 steel scrap (6mm) in Zhangjiagang, exl. tax Q234, incl. tax Billet Cost 3,062 56 3,306 51 calculated based on theoretical weight, incl. tax Rebar cost - Blast furnace Rebar profit - Blast furnace 344 29 based on Shanghai prices, incl. tax Hot-rolled coil cost - Blast furnace 3,378 55 based on actual weight, incl. tax Hot-rolled coil proft - Blast furnace 302 -5 based on Shanghai prices, incl. tax

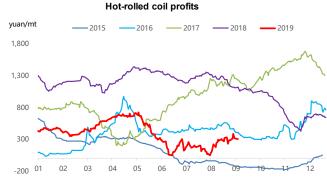
Note: 1 Costs in the table are caluclated based on todays market prices and facout our management, sales, financial and depreciations fees.

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

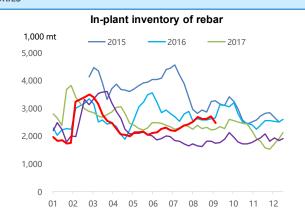


CHINESE STEEL MILL PROFITABILITY





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 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. Th indices are calculated using detailed transaction-level data submitted to MMI			mpanies that are				
Fe %	65.00	62.00	58.00	62.50								
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.			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 he	elow 10mm for at lea	st 90% of cargo:	Size below 6.3mm max 15%		Data Ex	clusions*	65%				
Sizing		um of 40% below 150	•	Size above 31.15mm max 25%	Port Index	0	58% 0	0				
	IIIdXIIIIU	1111 OI 40% DEIOW 130	HIICIOH	312e above 31.1311111 11lax 23%	Seaborne index	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 for							
Payment Terms	L/C at sight			L/C at sight or CAD	index calculations today as they were anomalous and could not be verified			iot 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							
September 11th 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	61.52%	2.37%	3.76%	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%	1.35%	0.075%	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 11th 2019	Specifi	cations appli	ed for 58%	brand asses	sments								
	Fe	Alumina	Silica	Phos	Moisture								
SSF	56.58%	3.08%	6.33%	0.057%	8.05%								
FMG Blended Fines	58.20%	2.60%	5.44%	0.059%	7.77%								
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%								
						-							

	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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