

MMi Dashboard

Iron Ore Price Indices

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



754

11 1.48%

September 30th 2019

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



796

12 1.53%

September 30th 2019

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



661

0.61%

September 30th 2019

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



93.85

3.75 4.16%

September 30th 2019

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



97.90

2.10 2.19%

September 30th 2019

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



827

11 1.35%

Week Ending September 27th, 2019

Exchange Traded Contracts

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



655.50

13.00 2.02%

September 30th 2019

(3pm close)

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



91.85

2.75 3.09%

September 30th 2019 (6.00

(6.00 pm Print)

SHFE Rebar RB2001 (Jan) RMB/t



3470

33.00 0.96%

September 30th 2019

(3pm close)

Freight Rates

C3, Tubarao - Qingdao USD/t



22.82

-1.18 -4.91%

September 27th, 2019

C5, W. Australia - Qingdao USD/t



8.51

-0.05 -0.58%

September 27th, 2019

Steel Rebar (China Domestic) RMB/t

Steel Price



3760

80 2.17%

Week Ending September 27th, 2019

Inventory Levels

Iron Ore Inventory at Chinese Ports (35) million tonnes



110.70

-1.23 -1.10%

Week Ending September 27th, 2019

Steel Inventory in China million tonnes



12.30

-0.61 -4.70%

Week Ending September 27th, 2019

Steel Price

Steel HRC (China Domestic) RMB/t

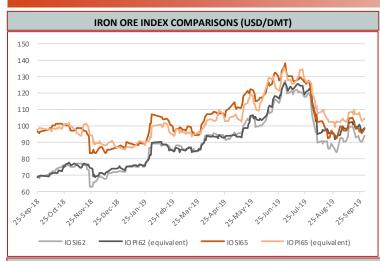


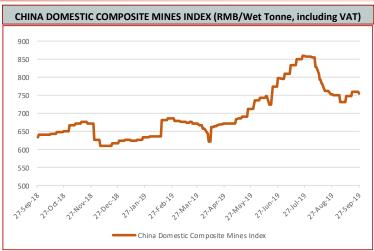
3600

10 0.28%

Week Ending September 27th, 2019

MMi D	aily Iron	Ore	e Inde	x Report											Septe	mber 30	Oth 2019
							IRON OR	E PORT S	TOCK INDEX	(IOPI)						
Septembe	r 30th 2019	9		FOT C	Qingdao	(inc. 13% VA	T), RMB/wet	tonne		CFR Qingdao Equivalent (exc. 13% VAT), USD/dry tonne ¹							
Index	Fe Conte	nt	Price	Change	Change	% Sept	YTD	Low ²	High ²	Pri	ce Cha	nge Cha	ange %	Sept	YTD	Low ²	High ²
IOPI62	62% Fe Fin	nes	754	11	1.5%	758	728	531	928	98.	74 1.	50 1	L .5 %	99.15	97.42	68.50	126.12
IOPI58	58% Fe Fin	nes	661	4	0.6%	674	640	375	823	87.	03	55 (0.6%	88.77	85.76	46.88	112.44
IOPI65	65% Fe Fin	nes	796	12	1.5%	803	798	654	992	104	.45 1.	54 1	L. 6 %	105.38	107.19	85.47	135.34
			IR	ON ORE SE	ABORN	E INDEX (IO	SI)						MARK	ЕТ СОММЕ	NTARY		
Septembe	er 30th 2019	9			CFR C	Qingdao, USD	/dry tonne							ing the physical p			
Index	Fe Conte	nt	Price	Change	Change	e % Sept	YTD	Low ²	High ²						s have intensi-		
IOSI62	62% Fe Fin	nes	93.85	3.75	4.169	93.76	95.45	62.95	127.50		e market re-ope			ionady when the	production cuts	case, so il oli oli o	prices may rise
IOSI65	65% Fe Fin	nes	97.90	2.10	2.199	6 99.42	107.49	83.20	137.95								
IRON ORE PORT LUMP INDEX (IOPLI) Week Ending September FOT Gingdes (inc. 15% VAT) PMP (inch tagge)																	
27th, 2019	1	_				•	T), RMB/wet							nt (exc. 16%			
Index	Fe Conte		Price	W-o-W	Change	% Sept	YTD	Low ²	High ²	Pri	ce W-	oW Cha	ange %	Sept	YTD	Low ²	High ²
IOPLI62	62.5% Fe Lu	ımp	827	11	1.3%	803	890	700	1051	101	.44 1.3	37 1	.37%	98.44	113.01	87.72	133.81
	IRON ORE DOMESTIC CONCENTRATE SPOT PRICE ASSESSMENTS AND COMPOSITE INDEX																
Week Endi	ing Septemb	ber 27	7th, 2019)			RMB/to	nne (exclu	ding tax) ³					USD/tonne	(excluding t	tax) ³	
Province	Regio	ion	Product	:	Basis	This week	Change	e %	Low ²	Hi	gh ²	This wee	k	Change %	Low	/ ²	High ²
Hebei	Hanx	xing	66% Fe	Concentrate	Dry	864	-0.9%	%	644	10	032	122.16		-0.94%	93.5	58	150.03
Hebei	Qian	n'an	65% Fe	Concentrate	Dry	910	1.1%	6	690	9	60	128.66		1.09%	100.	26	139.35
Liaoning	Ansh	han	65% Fe	Concentrate	Wet	650	-1.5%		535	7	45	91.90		-1.53%	77.3	39	104.66
Shandong	Zibo			Concentrate		895	-0.6%		740	_	040	126.54		-0.58%	106.	55	151.33
	g September Concentrate			ay RMR/WT	_		ange % -0.6%	Low ² 609.04	High ² 859.50		ange rate applie kly exchange rat						
Cilila Willes						DAO (RMB/		003.04	839.30	IRC	N ORE SE	ARORNE	INDEX	, CFR QING	EDAO (USE)/DMT\	
		J.1 O.	IL I OIL	тивел, го	1 QIIIO	DAO (IIIVID)	••••				ONE SE	ADOMILE	III	, ci ii Qiite	בכטן טאטנ	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
1050 — 950 —						~/	1/4		145 —— 135 ——						0/	L	
850 —							my my	7	125 —— 115 ——						مرکم کم	my	
750 —	~~~	لسہ		Mm.	^^		~~~	~~~	105	~_	_	~	200	~~~	المكراد	_ /	٠.٨.
650 — 550 —	~~~	۔	~~	\			~~		95 — 85 —		ham	~~/~~	~~	~~~~		\-\	
450 —		_							75 65		\~~	لسم					
350 —		<i></i>							55								
250 -	28 128	9	, s	229 25	3 ,3	129 229	779 279	279	262 260 C	280	,78 c,78	o Jan 19	,5° .5	19 119	1,79 6,79	.11.29 .86	\$.79
250 -	804.18 18MOV.18	28 Deci	28 Jan. 19	28 Februs 31. Mar. 25	30APT.19	, May 19 30 Jun 19	37.111.19 37.4118.19	o Ser	262 560C	78 MO	1,78 Sec. 18	aza, Jake	26 Mar.	10 Sever 30W	26 Jun 19	26 Jul. 29 Aug	2626
		_	IO PI		D PI 58 -	10 PI 65							IO SI62	—— IO S			
				IRO	ON ORE	PORT STO	CK INDEX MO	ONTHLY, C	QUARTERLY	AND \	EAR-TO-E	ATE AVE	RAGES	S			
Septembe	er 30th 2019	9		FOT	Qingdao	(inc. 13% VA	T), RMB/wet	tonne	<u> </u>		CFR	Qingdao E	quivale	ent (exc. 13%	6 VAT), USD	/dry tonne	
Index	Fe Conte	ent	May	June	July	August	Sept	QTD	YTD	М	ay Ju	ne .	July	August	Sept	QTD	YTD
IOPI62	62% Fe Fir	nes	729	825	909	759	758	812	728	98	.40 111	1.42 12	23.29	100.18	99.15	108.04	97.42
IOPI58	58% Fe Fir	nes	637	726	809	691	674	727	640	86	.39 98	.60 13	10.47	91.86	88.77	97.49	85.76
IOPI65	65% Fe Fir	nes	812	901	954	823	803	863	798	110	.00 121	L.97 12	29.53	108.92	105.38	115.13	107.19
IROI	N ORE SEA	BORN	NE INDE	X MONTHL	Y, QUAI	RTERLY AND	YEAR-TO-D	ATE AVER	AGES				FF	REIGHT RAT	TES		
Septembe	r 30th 2019	9			CFR (Qingdao, USD	/dry tonne			Septen	nber 27th, 201	9		FREIGHT RA	ATES - DRY BU	LK US\$/wet to	
Index	Fe Conte	ent	May	June	July	August	Sept	QTD	YTD	Route		Designation		Change	Change %	Low ²	High ²
IOSI62	62% Fe Fir		98.68	108.57	120.8		93.76	103.13	95.45		ralia - Qingdao	C5	8.51	-0.05	-0.58%	4.39	11.42
IOSI65	65% Fe Fir	nes	115.53	124.49	129.5		99.42	110.84	107.49		- Qingdao	C3	22.82		-4.91%	11.61	29.10
Week Endin	ıg Septembei	r					P INDEX MO	-	UARTERLY	AND Y							
27th, 2019		-				·	T), RMB/wet							nt (exc. 16%	•	•	
Index	Fe Conte		May	June	July	•		QTD	YTD	M	•		July	August	MTD	QTD	YTD
IOPLI62	62.5% Fe Lu	ump	919	1009	104	6 870	803	904	890	117		3.00 1	32.99	108.80	98.44	1112.78	113.01
			,				IRON ORE I	NDEX PRE	MIUMS/DI	scour	NTS						
September			hamt.	·		TOCK INDEX (ODIC2	September	30th 20			C		NE INDEX (U		IOCICS
Index IOPI58		e Cont 3% Fe F		•	to IOPI6: 93	۷	% Spread to 10 -12.33%		Index		Fe Conte	nt	spre	ad to IOSI62		% Spread to	103/62
IOPI65		5% Fe F			42		5.57%		IOSI65		65% Fe Fir	nes		4.05		4.32%	6

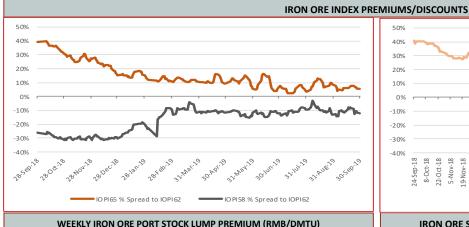




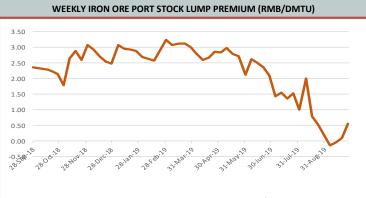
IRON ORE BRAND SPOT PRICE ASSESMENTS										
September 30th 2019	PORT S	MB/WT)	September 30th 2019	SEABORNE INDEX (USD/DMT)						
	Price	Change	Diff to IOPI62		Price	Change	Diff to IOSI62			
Roy Hill	724	12	-30	Roy Hill	92.20	3.80	-1.65			
SIMEC Fines	706	18	-48	SIMEC Fines	90.45	3.80	-3.40			
PB Fines	738	13	-16	PB Fines	92.85	3.80	-1.00			
Newman Fines	756	11	2	Newman Fines	93.97	3.80	0.12			
MAC Fines	736	12	-18	MAC Fines	91.75	3.80	-2.10			
Jimblebar Blended Fines	700	18	-54	Jimblebar Blended Fines	84.90	3.80	-8.95			
Carajas Fines	798	11	44	Carajas Fines	97.92	3.80	4.07			
Brazilian SSF	721	19	-33	Brazilian SSF	91.97	3.80	-1.88			
Brazilian Blend Fines	746	13	-8	Brazilian Blend Fines	93.47	3.80	-0.38			
RTX Fines	709	18	-45	RTX Fines	88.15	3.80	-5.70			
West Pilbara Fines	720	13	-34	West Pilbara Fines	92.10	3.80	-1.75			

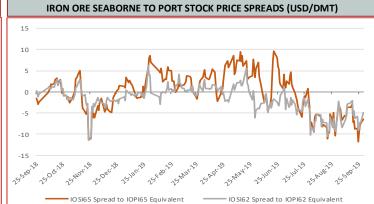
September 30th 2019	PORT STOCK INDEX (RMB/WT)						
	Price	Change	Diff to IOPI58				
SSF	629	2	-32				
FMG Blended Fines	669	4	8				
Robe River	630	3	-31				
Western Fines	632	0	-29				
Atlas Fines	618	0	-43				
Yandi	643	0	-18				

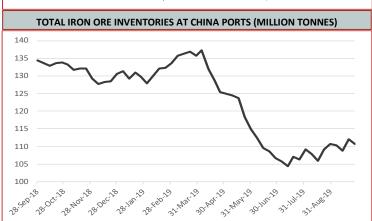
				IRON C	RE INDEX NORM	ALISATION DIFFEI	RENTIALS				
Por	t Stock Index I	Product Differ	entials (RMB/wet to	onne)	Seaborne Index Product Differentials (USD/dry tonne))
	Арр	olicable range		Value	Change		А	pplicable ran	ge	Value	Change
	High Grade	Fe 60 - 63%		8.00	0.00		High Gra	High Grade Fe 60 - 63%			0.00
	High Grade	High Grade Fe 63 - 64%		9.00	0.00		High Gra	High Grade Fe 63 - 64%		1.25	0.00
1% Fe	High Grade	Fe 64 - 65%		9.00	0.00	1% Fe	High Gra	High Grade Fe 64 - 65%		1.25	0.00
	High Grade	Fe 65 - 65.5%		9.00	0.00		High Gra	High Grade Fe 65 - 65.5%		1.25	0.00
	Low Grade	Low Grade Fe			0.00						
	High Fe Gra	de Al <2.25%		1.00	0.00		High Fe Grade Al <2.25%		5%	0.50	0.00
40/ 41 .	High Fe Gra	ide Al 2.25-4%	.	15.00	0.00	40/ 41	High Fe G	High Fe Grade Al 2.25-4%		2.00	0.00
1% Alumina	Low Fe Grad	de Al <2.25%		5.00	-3.00	1% Alumina					
	Low Fe Grad	de Al 2.25-4%		10.00	0.00						
	High Fe Gra	de Si <4%		6.00	0.00		High Fe G	irade Si <4%		0.25	0.00
1% Silica	High Fe Gra	de Si 4-6.5%		20.00	-3.00	1% Silica	High Fe G	irade Si 4 - 6.	5%	1.00	0.00
	Low Fe Grad	de		16.00	2.00						
	High Fe Gra	ide 0.09% <p<0< td=""><td>.115%</td><td>0.00</td><td>-2.00</td><td>0.01%</td><td>High Fe G</td><td>6rade 0.09%<</td><td>P<0.115%</td><td>0.00</td><td>0.00</td></p<0<>	.115%	0.00	-2.00	0.01%	High Fe G	6rade 0.09%<	P<0.115%	0.00	0.00
0.01%		ide 0.115% <p<< td=""><td></td><td>9.00</td><td>0.00</td><td>Phosphorus</td><td>High Fe G</td><td>Grade 0.115%</td><td><p<0.15%< td=""><td>1.50</td><td>0.00</td></p<0.15%<></td></p<<>		9.00	0.00	Phosphorus	High Fe G	Grade 0.115%	<p<0.15%< td=""><td>1.50</td><td>0.00</td></p<0.15%<>	1.50	0.00
Phosphorus	Low Fe Grad	de 0.09 <p<0.1< td=""><td>%</td><td>0.00</td><td>0.00</td><td>•</td><td></td><td></td><td></td><td></td><td></td></p<0.1<>	%	0.00	0.00	•					
			Port	Stock Price D	ifferentials to Qing	dao Port for PB Find	es (RMB/wet 1	tonne)			
Port	Value	Change	Por	t Va	lue Chang	e Port	Value	Change	Port	Value	Change
Bayuquan	-35.00	0.00	Fangche	ng -5	0.00	Lanshan	0.00	0.00	Qingdao	0.00	0.00
Beilun	5.00	0.00	Jiangyin	-10	0.00	Lianyungang	0.00	0.00	Rizhao	0.00	0.00
Caofeidian	-25.00	0.00	Jingtang		0.00	', '	0.00	0.00	Shekou	0.00	0.00
Dalian	-35.00	0.00	Lanqiao	0	.00 0.00	Nantong	-10.00	0.00	Tianjin	-30.00	0.00

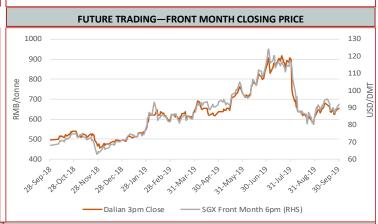








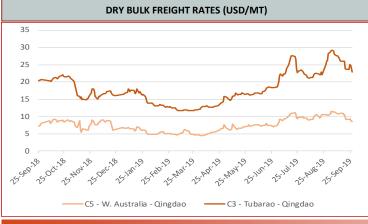




I	IRON ORE PORT INVENTORIES (MILLION TONNES)										
Week Ending September 27th, 2019											
Province	This week	Change %	Low ²	High ²							
Jingtang	13.27	10.86%	10.80	16.37							
Qingdao	13.17	-2.15%	12.38	19.01							
Caofeidian	14.90	0.47%	14.32	20.10							
Tianjin	6.37	-12.98%	6.37	10.05							
Rizhao	11.41	-2.89%	11.41	17.10							
Total (35 Ports)	110.70	-1.10%	104.40	137.30							

		D	CE (RMB/WN	IT)		GX (USD/DM	T)		
2	Closing Date	Sep	ot 30th 3pm o	lose	Sep 30th 5.30 pm				
,	Contract	12001	Change Change %		Oct'19	Change	Change %		
	Closing Price	655.50	13.0	2.02%	91.85	2.75	3.09%		
	Vol traded ('000 lots)	205.29	21.5	11.67%	12.91	0.36	2.88%		
	Open positions ('000 lots)	139.71	-10.8	-7.16%	129.42	-3.44	-2.59%		
1	Day Low	633.0	0.0	0.00%	91.00	2.25	2.54%		
0	Day High	663.5	17.0	2.63%	92.26	2.00	2.22%		

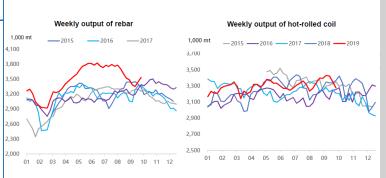
IRON ORE FUTURES CONTRACTS





STEEL SPOT MARKET PRICES—CHINA

Steel Spot Market RMB/tonne									
Product	27/9/2019	Change	Change %						
ReBar HRB400 ¢18mm	3,760.0	80	2.17%						
Wirerod Q300 ¢6.5mm	4,070.0	80	2.01%						
HRC Q235/SS400 5.5mm*1500*C	3,600.0	10	0.28%						
CRC SPCC/ST12 1.0mm*1250*2500	4,280.0	20	0.47%						
Medium & Heavy Plate Q235B 20mm	3,770.0	10	0.27%						
GI ST02Z 1.0mm*1000*C	4,490.0	0	0.00%						
Colour Coated Plate	6,850.0	-50	-0.72%						



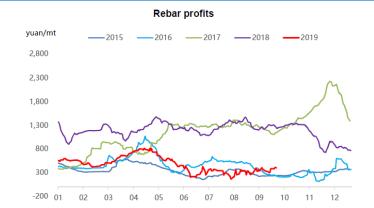
CHINESE STEEL MILL PROFITABILITY									
SMM Tracking of Steel Mill P&L - Rebar and Hot-rolled Coil (RMB/tonne)									
Category	Price Change (WoW) Note								
MMi (Fe 62%), USD/mt exluding tax	90.10	-4.70	Mmi CFR Equivalent index for 1st Feb						
Coke	1,910	0	2nd grade met coke, Tangshan, incl. tax						
Steel Scrap	2,300	0	steel scrap (6mm) in Zhangjiagang, exl. tax						
Billet Cost	3,034	-54	Q234, incl. tax						
Rebar cost - Blast furnace	3,279	-31	calculated based on theoretical weight, incl. tax						
Rebar profit - Blast furnace	401	95	based on Shanghai prices, incl. tax						
Hot-rolled coil cost - Blast furnace	3,351	-53	based on actual weight, incl. tax						
Hot-rolled coil proft - Blast furnace	based on Shanghai prices, incl. tax								

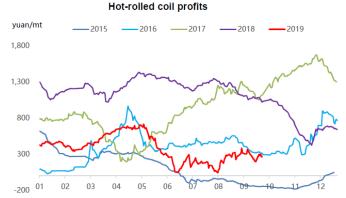
Note: 1 Costs in the table are caluclated based on todays market prices and facout our management, sales, financial and depreciations fees.

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

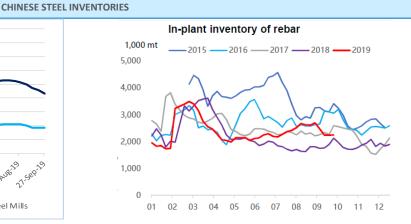


CHINESE STEEL MILL PROFITABILITY





18 16 14 12 10 10 8 6 4 2 0 Total Social Steel Inventory Total Steel Inventory at Steel Mills



Payment Terms

index calculations today as they were anomalous and could not be verified

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)

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	PPLIED FOR BRAND PRICE A	SSESSMEN	TS					
	PORT	STOCK BRAN	IDS			SEABORNE BRANDS						
September 30th 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%	2.38%	3.74%	0.097%	9.47%	PB Fines 62%	62.00%	2.60%	4.30%	0.090%	10.00%	
Newman Fines	62.48%	2.18%	4.17%	0.088%	7.76%	Newman Fines	62.80%	2.20%	4.30%	0.080%	6.40%	
MAC Fines	60.86%	2.24%	4.59%	0.079%	7.58%	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	65.47%	1.31%	1.34%	0.076%	8.31%	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	62.96%	1.48%	4.69%	0.068%	8.37%	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 30th 2019	Specifi	cations appli	ed for 58%	brand asses	sments							
	Fe	Alumina	Silica	Phos	Moisture							
SSF	56.59%	3.08%	6.30%	0.055%	8.09%							
FMG Blended Fines	58.19%	2.61%	5.44%	0.058%	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	57.30%	1.54%	6.34%	0.041%	8.94%							
						-						

	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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