

## MMi Dashboard

### **Iron Ore Price Indices**

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



-0.53%

October 10th 2019

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



93.60

1.65 1.79%

October 10th 2019

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



-0.88%

October 10th 2019

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



100.65

1.95 1.98%

October 10th 2019

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



-0.30%

October 10th 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 12001 (Jan) RMB/t



657.50

19.00 2.98%

October 10th 2019

(3pm close)

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



88.85

2.45 2.84%

October 10th 2019

(5.30 pm Print)

**SHFE Rebar** RB2001 (Jan) RMB/t



2.00 0.06%

October 10th 2019

(3pm close)

### **Freight Rates**

C3, Tubarao - Qingdao USD/t



23.47

0.66 2.92%

October 9th, 2019

C5, W. Australia - Qingdao USD/t



9.52

2.60% 0.24

October 9th, 2019

**Steel Price** 

Steel Rebar (China Domestic) RMB/t



**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



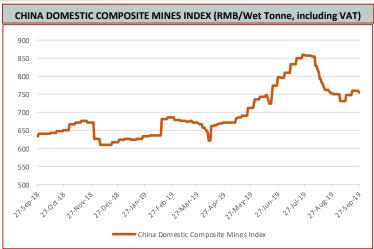
**3600** 

10 0.28%

Week Ending September 27th, 2019

MMi D	aily Iron Or	re Index	Report											Octob	er 10th	2019
						IRON OR	E PORT S	TOCK INDEX	(IOPI)							
October 1	0th 2019		FOT C	Qingdao (i	nc. 13% VAT),	RMB/wet	tonne			CFR Qin	gdao Eq	uivaler	nt (exc. 13%	6 VAT), USD	dry tonne	1
Index	Fe Content	Price	Change	Change 9	% MTD	YTD	Low <sup>2</sup>	High <sup>2</sup>	Price	Chang	e Cha	nge %	MTD	YTD	Low <sup>2</sup>	High <sup>2</sup>
IOPI62	62% Fe Fines	757	-4	-0.5%	760	728	535	928	99.14	-0.55	-0	.6%	99.60	97.46	68.50	126.12
IOPI58	58% Fe Fines	657	-2	-0.3%	659	640	375	823	86.48	-0.28	-0	.3%	86.76	85.78	46.88	112.44
IOPI65	65% Fe Fines	790	-7	-0.9%	797	798	654	992	103.63	-0.95	-0	.9%	104.54	107.15	85.47	135.34
		IR	ON ORE SE	ABORNE	INDEX (IOSI)						N	MARKI	ЕТ СОММІ	ENTARY		
October 1	0th 2019			CFR Qi	ngdao, USD/dr	y tonne								increase in inquiri nt announced anot		
Index	Fe Content	Price	Change	Change 9	% MTD	YTD	Low <sup>2</sup>	High <sup>2</sup>						ills demand following		
IOSI62	62% Fe Fines	93.60	1.65	1.79%	93.92	95.39	62.95	127.50		an say that su				ries at ports gradua		
IOSI65	65% Fe Fines	100.65	1.95	1.98%	99.11	107.14	83.20	137.95								
						IRON OR	E PORT LU	JMP INDEX	(IOPLI)							
27th, 2019	ng September		FOT C	Qingdao (ii	nc. 16% VAT), I	RMB/wet 1	tonne			CFR Qing	dao Equ	uivalen	t (exc. 16%	VAT), USD,	dry tonne	
Index	Fe Content	Price	W-o-W	Change 9	6 Sept	YTD	Low <sup>2</sup>	High <sup>2</sup>	Price	W-oW	Cha	nge %	Sept	YTD	Low <sup>2</sup>	High <sup>2</sup>
IOPLI62	62.5% Fe Lump	827	11	1.3%	803	890	700	1051	101.44	1.37	1.	37%	98.44	113.01	87.72	133.81
IRON ORE DOMESTIC CONCENTRATE SPOT PRICE ASSESSMENTS AND COMPOSITE INDEX																
Week End	ing September 2	27th, 2019	1			RMB/to	nne (exclu	ding tax) <sup>3</sup>					USD/tonne	(excluding t	ax) <sup>3</sup>	
Province	Region	Product		Basis	This week	Change	e %	Low <sup>2</sup>	High <sup>2</sup>	TI	nis weel	k	Change %	Low	/ <sup>2</sup>	High <sup>2</sup>
Hebei	Hanxing	66% Fe	Concentrate	Dry	864	-0.9%	6	644	1032		122.16		-0.94%	93.5	58	150.03
Hebei	Qian'an	65% Fe	Concentrate	Dry	910	1.1%	5	690	960		128.66		1.09%	100.	26	139.35
Liaoning	Anshan	65% Fe	Concentrate	Wet	650	-1.5%	6	535	745		91.90		-1.53%	77.3	39	104.66
Shandong	Zibo	65% Fe	Concentrate	Dry	895	-0.6%	6	740	1040		126.54		-0.58%	106.	55	151.33
	g September 27tl		DA 4D /\4/T	This w			Low 2	High <sup>2</sup>	<sup>1</sup> Exchange rate <sup>3</sup> Weekly exch				est 12 months 729			
China Mines	Concentrate Con	•	-	754.8			609.04	859.50							(5.0.47)	
	IRON	JKE POKI	INDEX, FO	I QINGD	AO (RMB/W	1)			IRON OF	KE SEAB	OKNE	INDEX	, CFR QING	GDAO (USE	D/DIVIT)	
1050								145 ——— 135 ———						A		
950 — 850 —					V JANAS	1		125 ——						~ ~~~	$\sim$	
750	~~~		~~~ <i>~</i>	S	 مارات	1/ Jane	<b>*</b>	115 ——— 105 ———			^		كسهر	~~~		
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						NIDEV MC	NITUIV C	NIADTERIV	AND VEAD	TO DA						
October 1	0th 2019				inc. 13% VAT),			, QUARTERLY AND YEAR-TO-DATE AVERAGES  CFR Qingdao Equivalent (exc. 13% VAT), USD/dry tonne								
Index	Fe Content	June	July		September	MTD	QTD	YTD	June	July	Au	Igust	September	· MTD	QTD	YTD
IOPI62	62% Fe Fines	825	909	759	758	760	760	728	98.40	111.4		3.29	100.18	99.60	99.60	97.46
IOPI58	58% Fe Fines	726	809	691	674	659	659	640	86.39	98.60	11	0.47	91.86	86.76	86.76	85.78
IOPI65	65% Fe Fines	901	954	823	803	797	797	798	110.00	121.9	7 12	9.53	108.92	104.54	104.54	107.15
IRO	N ORE SEABOR	RNE INDE	X MONTHL	Y, QUART	TERLY AND YE	EAR-TO-D	ATE AVER	RAGES				FR	EIGHT RA	TES		
October 1	0th 2019			CFR Qi	ngdao, USD/dr	ry tonne			October 9th, 2	2019			FREIGHT RA	ATES - DRY BU	LK US\$/wet to	nne
Index	Fe Content	June	July	August	September	MTD	QTD	YTD	Route	D	esignation		Change	Change %	Low <sup>2</sup>	High <sup>2</sup>
IOSI62	62% Fe Fines	108.57	120.82	92.61	93.76	93.92	93.92	95.39	W. Australia - Q	ingdao	C5	9.52	0.24	2.60%	4.39	11.42
IOSI65	65% Fe Fines	124.49	129.53	101.34	99.42	99.11	99.11	107.14	Tubarao - Qingd	ao	СЗ	23.47	0.66	2.92%	11.61	29.10
			IRO	ON ORE F	ORT LUMP II	NDEX MO	NTHLY, Q	UARTERLY	AND YEAR-	TO-DAT	E AVER	RAGES				
Week Endir 27th, 2019	g September		FOT	Qingdao (i	nc. 16% VAT),	RMB/wet	tonne			CFR Qin	gdao Eq	uivaleı	nt (exc. 16%	% VAT), USD	dry tonne	1
Index	Fe Content	May	June	July	August	MTD	QTD	YTD	May	June	J	luly	August	MTD	QTD	YTD
IOPLI62	62.5% Fe Lump	919	1009	1046	870	803	904	890	117.12	128.0	0 13	32.99	108.80	98.44	1112.78	113.01
					IR	ON ORE II	NDEX PRE	MIUMS/DI	SCOUNTS							
October 10	th 2019			PORT ST	OCK INDEX (RM	B/WT)		October 10t	h 2019				SEABOR	NE INDEX (U	SD/DMT)	
Index		ntent		to IOPI62	%:	Spread to IC		Index	Fe	Content		Sprea	ad to IOSI62		% Spread to	IOSI62
IOPI58 IOPI65	58% Fe			100 33		-13.21% 4.36%		IOSI65	65%	Fe Fines			7.05		7.53%	%
101103	03% F6					4.30%		100100	0370				7.03		7.357	•

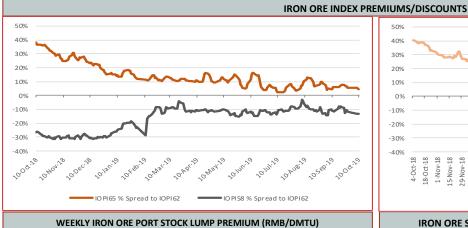




IRON ORE BRAND SPOT PRICE ASSESMENTS											
October 10th 2019	er 10th 2019 PORT STOCK INDEX (RMB/WT)			October 10th 2019	SEABORNE INDEX (USD/DMT)						
	Price	Change	Diff to IOPI62		Price	Change	Diff to IOSI62				
Roy Hill	725	-5	-32	Roy Hill	92.42	1.65	-1.18				
SIMEC Fines	703	-8	-54	SIMEC Fines	91.37	1.65	-2.23				
PB Fines	738	-6	-19	PB Fines	92.92	1.65	-0.68				
Newman Fines	761	-3	4	Newman Fines	93.91	1.65	0.31				
MAC Fines	736	-6	-21	MAC Fines	92.07	1.65	-1.53				
Jimblebar Blended Fines	696	-9	-61	Jimblebar Blended Fines	86.27	1.65	-7.33				
Carajas Fines	791	-7	34	Carajas Fines	102.11	2.75	8.51				
Brazilian SSF	722	-4	-35	Brazilian SSF	93.91	1.65	0.31				
Brazilian Blend Fines	751	-2	-6	Brazilian Blend Fines	94.29	1.65	0.69				
RTX Fines	707	-7	-50	RTX Fines	88.57	1.65	-5.03				
West Pilbara Fines	717	-8	-40	West Pilbara Fines	92.22	1.65	-1.38				

October 10th 2019	PORT STOCK INDEX (RMB/WT)						
	Price	Change	Diff to IOPI58				
SSF	629	0	-28				
FMG Blended Fines	666	-1	9				
Robe River	631	-1	-26				
Western Fines	627	-1	-30				
Atlas Fines	616	-2	-41				
Yandi	639	-2	-18				

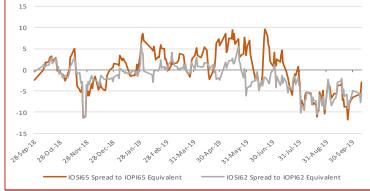
				IRON ORE IN	IDEX NORMA	LISATION DIFFER	ENTIALS				
Por	t Stock Index	Product Differ	entials (RI	MB/wet tonne)		Seaborne Index Product Differentials (USD/dry tonne)					
	Ар	plicable range		Value	Change		А	pplicable ran	ge	Value	Change
	High Grade	e Fe 60 - 63%		11.00	2.00		High Grad	High Grade Fe 60 - 63% High Grade Fe 63 - 64%		0.50	0.00
	High Grade	e Fe 63 - 64%		6.00	0.00		High Grad			2.00	0.25
l% Fe	High Grade	e Fe 64 - 65%		6.00	0.00	1% Fe	High Grad	de Fe 64 - 65	%	2.00	0.25
	High Grade	e Fe 65 - 65.5%		6.00	0.00		High Grad	de Fe 65 - 65	.5%	2.00	0.25
	Low Grade	Fe		10.00	0.00						
	High Fe Gra	ade Al <2.25%		0.00	0.00		High Fe G	rade Al <2.2	5%	1.25	0.00
0/ 11	High Fe Gra	ade Al 2.25-4%		18.00	2.00	10/ 11	High Fe G	High Fe Grade Al 2.25-4%		1.50	0.00
% Alumina	Low Fe Gra	de Al <2.25%		4.00	-1.00	1% Alumina					
	Low Fe Gra	de Al 2.25-4%		8.00	-2.00						
	High Fe Gra	ade Si <4%		4.00	-2.00		High Fe G	rade Si <4%		1.25	0.25
l% Silica	High Fe Gra	ade Si 4-6.5%		20.00	0.00	1% Silica	High Fe G	rade Si 4 - 6	.5%	0.50	0.00
	Low Fe Gra	de		17.00	0.00						
0.010/	High Fe Gra	ade 0.09% <p<0< td=""><td>.115%</td><td>0.00</td><td>0.00</td><td>0.01%</td><td>High Fe G</td><td>rade 0.09%&lt;</td><td>P&lt;0.115%</td><td>0.00</td><td>0.00</td></p<0<>	.115%	0.00	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>9.00</td><td>0.00</td><td>Phosphorus</td><td>High Fe G</td><td>rade 0.115%</td><td><p<0.15%< td=""><td>1.50</td><td>0.00</td></p<0.15%<></td></p<<>	0.15%	9.00	0.00	Phosphorus	High Fe G	rade 0.115%	<p<0.15%< td=""><td>1.50</td><td>0.00</td></p<0.15%<>	1.50	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 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
ayuquan	-40.00	0.00	Fangchen	g -5.00	0.00	Lanshan	0.00	0.00	Qingdao	0.00	0.00
Beilun	5.00	0.00	Jiangyin	-15.00	0.00	Lianyungang	0.00	0.00	Rizhao	0.00	0.00
Caofeidian	-10.00	0.00	Jingtang	-10.00	0.00	Majishan	0.00	0.00	Shekou	0.00	0.00
Dalian	-40.00	0.00	Langiao	0.00	0.00	Nantong	-10.00	0.00	Tianjin	-25.00	0.00





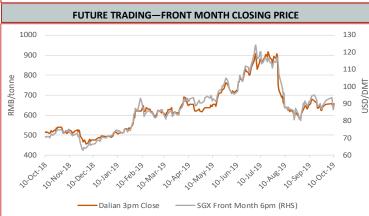






### TOTAL IRON ORE INVENTORIES AT CHINA PORTS (MILLION TONNES) 140 130 125 120 115 110

105 100

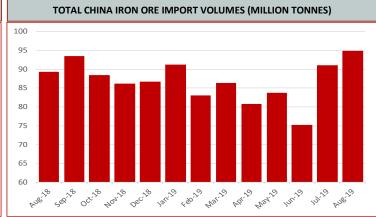


I	IRON ORE PORT INVENTORIES (MILLION TONNES)										
Week Ending September 27th, 2019											
Province	This week	Change %	Low <sup>2</sup>	High <sup>2</sup>							
Jingtang	13.27	10.86%	10.80	16.37							
Qingdao	13.17	-2.15%	12.38	19.01							
Caofeidian	14.90	0.47%	14.32	20.10							
Tianjin	6.37	-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)	SGX (USD/DMT)			
	Closing Date	Oc	t 10th 3pm cl	ose	Oct 10th 5.30 pm			
	Contract	12001	I2001 Change Change %		Nov'19	Change	Change %	
	Closing Price	657.50	19.0	2.98%	88.85	2.45	2.84%	
	Vol traded ('000 lots)	213.81	58.0	37.25%	24.01	8.28	52.67%	
	Open positions ('000 lots)	172.55	15.9	10.14%	121.46	1.67	1.40%	
	Day Low	633.5	-4.5	-0.71%	86.80	1.02	1.19%	
)	Day High	659.0	-1.0	-0.15%	88.97	0.10	0.11%	

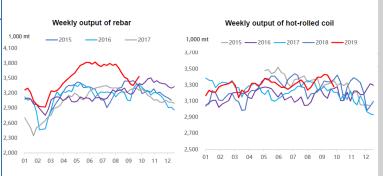
**IRON ORE FUTURES CONTRACTS** 

DRY BULK FREIGHT RATES (USD/MT)								
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—— C5 - W. Australia - Qingdao —— C3 - Tubarao - Qingdao								



### 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 WILL 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 w eight, 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	269	73	based on Shanghai prices, incl. tax						

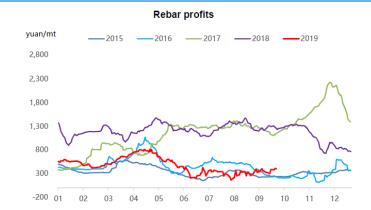
CHINIESE STEEL MILL DECEITABILITY

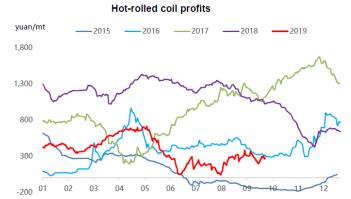
Note: 1 Costs in the table are caluclated based on todays market prices and facout our management, sales, financial and depreciations fees.

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

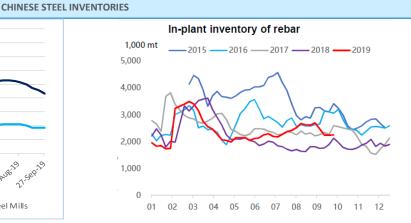


### **CHINESE STEEL MILL PROFITABILITY**





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



Sizing

Yandi

57.30%

1.54%

6.34%

0.041%

**Pricing Point** 

Payment Terms

Timing (Seaborne)

# IRON ORE INDEX SPECIFICATIONS, COMPILATION RATIONALE AND DATA EXCLUSIONS Iron Ore Index Specifications (Port and Seaborne) Iron Ore Index Compilation Rationale and Data Exclusions Fines 62% Fe Fines 58% Fe Fines 62.5% Fe Lump MMi iron ore indices are compiled from data provided by companies that are

65% Fe Fines Fe % 65.00 62.00 58.00 62.50 2.25 2.25 1.50 Alumina % 1.40 4.00 3.50 Silica% 1.50 5.50 Phosphorus % 0.09 0.05 0.08 0.06 Sulphur % 0.01 0.02 0.02 0.02 Moisture % 8.00 8.00 9.00 4.00

Granular size below 10mm for at least 90% of cargo; maximum of 40% below 150 micron Size above 31.15mm max 25%

Qingdao Port (FOT and CFR respectively)

Loading within 4 weeks, Delivery within 8 weeks

L/C at sight

FOT Qingdao Port

Delivery within 2 weeks

L/C at sight or CAD

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 indices are calculated using detailed transaction-level data submitted to MMi by these companies. This data is normalised to the appropriate specifications and screened to remove outliers before volume-weighted average prices are calculated from the remaining core set of data.

For more details on MMi's iron ore methodology please download the guide published on our website at: www.mmiprices.com

### 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.

AVERAGE IRON ORE SPECIFICATIONS APPLIED FOR BRAND PRICE ASSESSMENTS												
	PORT	STOCK BRAN	IDS			SEABORNE BRANDS						
October 10th 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%	2.41%	3.70%	0.097%	9.49%	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%	
October 10th 2019	Specifi	ications appli	ed for 58%	brand asses	sments							
	Fe	Alumina	Silica	Phos	Moisture							
SSF	56.59%	3.08%	6.30%	0.055%	8.08%							
FMG Blended Fines	58.18%	2.62%	5.43%	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%							

	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								

8.95%

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<sup>\*</sup> Number of price submissions for iron ore indices that were excluded from index calculations today as they were anomalous and could not be verified

