

# **MMi Dashboard**

### **Iron Ore Price Indices**

Iron Ore Port Stock (FOT Qingdao)

IOPI65 65% Fe Fines RMB/t

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



**769** 

-10 -1.28%

September 17th 2019

В/Т



815

-10 -1.21%

September 17th 2019

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



**707** 

2 0.28%

September 17th 2019

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



98.70

-1.05 -1.05%

September 17th 2019

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



104.15

-0.75 -0.71%

September 17th 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



665.50

-5.00 -0.75%

September 17th 2019

(3pm close)

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



93.10

-1.35 -1.43%

September 17th 2019

(6.00 pm Print)

SHFE Rebar RB2001 (Jan) RMB/t



3533

-31.00 -0.87%

September 17th 2019

(3pm close)

# **Freight Rates**

C3, Tubarao - Qingdao USD/t



26.00

0.11 0.42%

September 16th, 2019

C5, W. Australia - Qingdao USD/t



10.95

0.03 0.25%

September 16th, 2019

Steel Rebar (China Domestic) RMB/t

**Steel Price** 



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

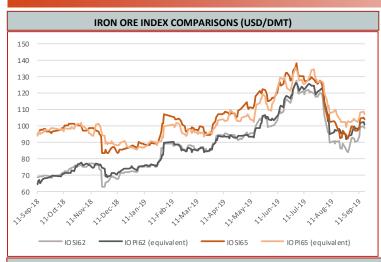


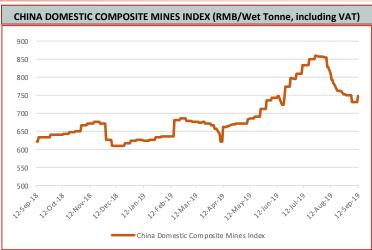
3690

40 1.10%

Week Ending September 13th, 2019

MMi D	aily Iroi	n Ore	e Inde	x Report											Septe	mber 1	7th 2019
	IRON ORE PORT STOCK INDEX (IOPI)																
Septembe	er 17th 201	19		FOT C	Qingdao	(inc. 13% VAT	), RMB/wet	tonne		CFR Qingdao Equivalent (exc. 13% VAT), USD/dry tonne <sup>1</sup>							
Index	Fe Conte	ent	Price	Change	Change	e % MTD	YTD	Low <sup>2</sup>	High <sup>2</sup>	Price	e Cha	nge Cha	ange %	MTD	YTD	Low <sup>2</sup>	High <sup>2</sup>
IOPI62	62% Fe Fi	ines	769	-10	-1.39	<b>%</b> 757	726	504	928	100.7	77 <b>-1</b> .	47 -:	1.4%	98.95	97.32	65.13	126.12
IOPI58	58% Fe Fi	ines	707	2	0.3%	669	637	374	823	93.3	6 0.1	18 (	0.2%	88.02	85.56	46.88	112.44
IOPI65	65% Fe Fi	ines	815	-10	-1.29	<del>6</del> 799	797	654	992	107.0	)3 <b>-1</b> .	47 -:	1.4%	104.70	107.24	85.47	135.34
			IR	ON ORE SEA	ABORN	E INDEX (IOS	1)					l	MARK	ET COMMI	ENTARY		
Septembe	r 17th 201	19			CFR (	Qingdao, USD/	dry tonne			enthusiasr	m meant traders	were happy to	concede so	me ground, followi	e down on yesterd ng the DCE lower. I	ump demand is re	latively good, due
Index	Fe Conte	ent	Price	Change	Change	e % MTD	YTD	Low <sup>2</sup>	High <sup>2</sup>	increasing	for the first time	in three weeks	. SMM esti	mates that 89 vesse	Major Chinese port els carrying 13.93 m	illion mt of iron or	e arrived at major
IOSI62	62% Fe Fi		98.70	-1.05	-1.05		95.59	62.95	127.50	leaving Au	stralian ports up	660,000 mt fro	m the prior	week to 14.33 mill	eek ended Septemb lion mt. Shipments		
IOSI65	65% Fe Fi	ines	104.15	-0.75	-0.71	<b>%</b> 100.53	107.97	83.20	137.95		to grow by 60,00	00 mt on the we	ek to 6.09	million mt.			
Week Endin	ng Septemb	oer		FOT 6		/: 160/ MAT			JMP INDEX	(IOPLI)							3
13th, 2019			<b>D</b> .*			(inc. 16% VAT			2	n.i.					VAT), USD,		
Index IOPLI62	Fe Conte		Price	W-o-W	Change		<b>YTD</b> 894	Low <sup>2</sup>	High <sup>2</sup>	Price			ange %	MTD 96.12	<b>YTD</b> 113.69	Low <sup>2</sup>	High <sup>2</sup>
IOPLI62	62.5% Fe L	ump	796	19	2.4%			694	1051	97.3			.57%		113.69	87.48	133.81
IRON ORE DOMESTIC CONCENTRATE SPOT PRICE ASSESSMENTS AND COMPOSITE INDEX																	
Province	ing Septem	nber 1: gion	Produc		Basis	This week	RMB/to	nne (exclu	Low <sup>2</sup>	Hig	th <sup>2</sup>	This wee		USD/tonne Change %	(excluding t		High <sup>2</sup>
Hebei	-	-		Concentrate		832	5.6%		640	під 10:		117.44		5.62%	93.4		150.03
Hebei		nxing in'an		Concentrate	′	880	4.8%		690	96		124.21		4.80%	100.		139.35
Liaoning	'	shan		Concentrate	'	660	0.0%		535	74		93.16		0.03%	77.3		104.66
Shandong	Zibo			Concentrate		880	4.8%		735	10		124.21		4.80%	106.		151.33
Week Endin				Concentrate	-			Low <sup>2</sup>	High <sup>2</sup>	1			7.0730 <sup>2</sup> L	730 <sup>2</sup> Last 12 months			
China Mines				ex RMB/WT	_			609.04	859.50		ly exchange rat						
	IR	ON O	RE POR	T INDEX, FO	T QING	DAO (RMB/\	NT)			IRO	N ORE SE	ABORNE	INDEX	, CFR QING	GDAO (USE	)/DMT)	
1050 —									145								
950 —						. ^	A		135 —— 125 ——							May	
850 —		. ^			-1		my	~~~	115						Lorun	my	
750 <b>—</b>		~ \"	~~	~~~~	~~~	لممرممت	1		95	<u> </u>	$\overline{}$	Γ	$\sim$	~~~~	كسكمهم		WF
550	سمرسر	~~		~~	~~				85 —— 75 ——		~~~		~~	~~			
450 — 350 —		~~~	سمسب						65		\~~	~					
350 -		,	,						55 ——— 45 ———	-		-	,				
745eB128	MOE'JB	18 Janes	18 18 P. 18	14F80.19 14M8F.19	JAAP1.19	Wahis January 16	Jul 19 14 AUB 19 14	Series	135 88 1 30 0°C	13,404	13 Dec 14	31211.79 134 et	1.29 Mar	13 Val. 13 W	13/119 13/lun 19	13-Jul-19 13-Au8	73280.79
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			101										IO SI62	IOS			
						PORT STOC			QUARTERLY	AND Y							
Index	Fe Cont	-	May	June	Qingaac July	(inc. 13% VAT	MTD	QTD	YTD	Ma			quivaie July	August	% VAT), USD MTD	QTD	YTD
IOPI62	62% Fe F		729	825	909	759	757	820	726	98.4	•		23.29	100.18	98.95	109.43	97.32
IOPI58	58% Fe F		637	726	809	691	669	735	637	86.3			10.47	91.86	88.02	98.75	85.56
IOPI65	65% Fe F	ines	812	901	954	823	799	872	797	110.	00 121	1.97 12	29.53	108.92	104.70	116.56	107.24
IROI	N ORE SEA	ABORI	NE INDE	X MONTHLY	, QUA	RTERLY AND	YEAR-TO-D	ATE AVER	AGES				FF	REIGHT RA	TES		
Septembe	r 17th 201	19			CFR	Qingdao, USD/	dry tonne			Septemb	ber 16th, 201	9		FREIGHT RA	ATES - DRY BU	LK US\$/wet to	nne
Index	Fe Cont	tent	May	June	July	August	MTD	QTD	YTD	Route		Designation		Change	Change %	Low <sup>2</sup>	High <sup>2</sup>
IOSI62	62% Fe F	ines	98.68	108.57	120.8	2 92.61	94.15	104.82	95.59	W. Austra	alia - Qingdao	C5	10.95	0.03	0.25%	4.39	11.42
IOSI65	65% Fe F	ines	115.53	124.49	129.5	3 101.34	100.53	112.95	107.97	Tubarao -	Qingdao	C3	26.00	0.11	0.42%	11.61	29.10
=				IRO	ON ORE	PORT LUMP	INDEX MO	NTHLY, Q	UARTERLY	AND YE	AR-TO-D	ATE AVE	RAGES				
Week Endin 13th, 2019	g Septemb	er		FOT	Qingdao	(inc. 16% VA	Γ), RMB/wet	tonne			CFR C	Qingdao Ed	quivale	nt (exc. 16%	% VAT), USD	dry tonne	1
Index	Fe Cont	tent	May	June	July	/ August	MTD	QTD	YTD	Ma	y Ju	ne	July	August	MTD	QTD	YTD
IOPLI62	62.5% Fe I	Lump	919	1009	104	6 870	787	919	894	117.	12 128	3.00 1	32.99	108.80	96.12	114.97	113.69
							IRON ORE II	NDEX PRE	MIUMS/DI	SCOUN	TS						
September						STOCK INDEX (R			September :	17th 201					NE INDEX (U		
Index IOPI58		Fe Con		•	to IOPI6 62	2	% Spread to IC -8.06%	OPI62	Index		Fe Conte	nt	Spre	ad to IOSI62		% Spread to	IOSI62
IOPIS8		55% Fe I			46		5.98%		IOSI65		65% Fe Fin	nes		5.45		5.52%	%
									-								





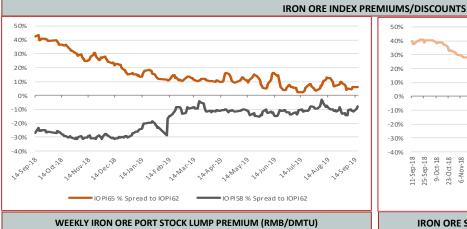
IRON ORE BRAND SPOT PRICE ASSESMENTS										
September 17th 2019	19 PORT STOCK INDEX (RMB/WT)			September 17th 2019	SEABORNE INDEX (USD/DMT)					
	Price	Change	Diff to IOPI62		Price	Change	Diff to IOSI62			
Roy Hill	737	-8	-32	Roy Hill	96.22	-1.05	-2.48			
SIMEC Fines	714	-6	-55	SIMEC Fines	93.60	-1.05	-5.10			
PB Fines	746	-12	-23	PB Fines	97.20	-1.05	-1.50			
Newman Fines	773	-10	4	Newman Fines	98.87	-1.05	0.17			
MAC Fines	748	-9	-21	MAC Fines	95.55	-1.05	-3.15			
Jimblebar Blended Fines	687	-15	-82	Jimblebar Blended Fines	85.27	-1.05	-13.43			
Carajas Fines	819	-10	50	Carajas Fines	104.12	-1.05	5.42			
Brazilian SSF	732	-5	-37	Brazilian SSF	95.57	-1.05	-3.13			
Brazilian Blend Fines	761	-9	-8	Brazilian Blend Fines	97.95	-1.05	-0.75			
RTX Fines	696	-18	-73	RTX Fines	90.15	-1.05	-8.55			
West Pilbara Fines	730	-8	-39	West Pilbara Fines	96.07	-1.05	-2.63			

September 17th 2019	PORT	PORT STOCK INDEX (RMB/WT)						
	Price	Change	Diff to IOPI58					
SSF	641	10	-66					
FMG Blended Fines	710	5	3					
Robe River	649	7	-58					
Western Fines	649	12	-58					
Atlas Fines	636	8	-71					
Yandi	683	5	-24					

				IRON ORE IN	IDEX NORMA	LISATION DIFFER	ENTIALS				
Por	t Stock Index	Product Differ	entials (R	MB/wet tonne)		Sea	aborne Inde	x Product Di	fferentials (	USD/dry tonne	)
	Ар	plicable range		Value	Change		А	pplicable ran	ge	Value	Change
	High Grade Fe 60 - 63% <b>10.00 0.00</b>			High Grad	High Grade Fe 60 - 63%		0.75	0.00			
	High Grade	e Fe 63 - 64%		12.00	0.00		High Grad	High Grade Fe 63 - 64%		1.50	0.00
1% Fe	High Grade	e Fe 64 - 65%		12.00	0.00	1% Fe	High Grad	de Fe 64 - 65	%	1.50	0.00
	High Grade	High Grade Fe 65 - 65.5%			12.00 0.00		High Grad	High Grade Fe 65 - 65.5%		1.50	0.00
	Low Grade	Fe		19.00	0.00						
	High Fe Gra	High Fe Grade Al <2.25%			0.00		High Fe G	High Fe Grade Al <2.25%		0.50	0.00
1% Alumina	High Fe Gra	High Fe Grade Al 2.25-4%		30.00	0.00	10/ 11	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%		33.00	-6.00						
	High Fe Gra	ade Si <4%		5.00	0.00		High Fe G	rade Si <4%		0.50	0.00
L% Silica	High Fe Gra	ade Si 4-6.5%		21.00	-2.00	1% Silica	High Fe G	rade Si 4 - 6	.5%	1.50	0.00
	Low Fe Gra	de		23.00	-3.00						
0.010/	High Fe Gra	ade 0.09% <p<0< td=""><td>.115%</td><td>5.00</td><td>2.00</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%	5.00	2.00	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>2.00</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%	9.00	2.00	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 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
Bayuquan	-35.00	0.00	Fangchen	g <b>-5.00</b>	0.00	Lanshan	0.00	0.00	Qingdao	0.00	0.00
Beilun	5.00	0.00	Jiangyin	-10.00	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	Langiao	0.00	0.00	Nantong	-10.00	0.00	Tianjin	-20.00	0.00

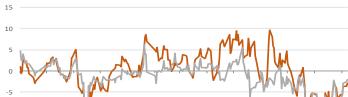
3.50

2.50 2.00 1.50 1.00



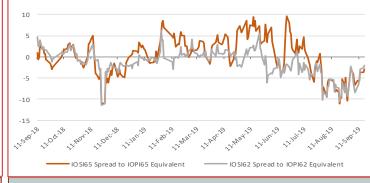




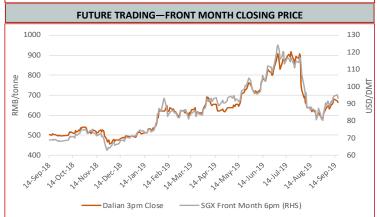


IRON ORE SEABORNE TO PORT STOCK PRICE SPREADS (USD/DMT)

TOTAL IRON ORE INVENTORIES AT CHINA PORTS (MILLION TONNES)



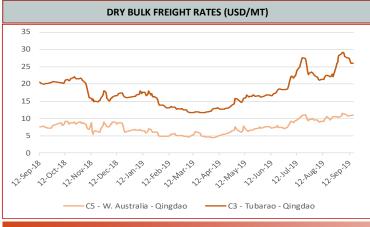
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II	IRON ORE PORT INVENTORIES (MILLION TONNES)										
Week Ending September 13th, 2019											
Province	This week	Change %	Low <sup>2</sup>	High <sup>2</sup>							
Jingtang	12.38	-3.66%	10.80	16.37							
Qingdao	12.97	-1.52%	12.38	19.01							
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	ot 16th 3pm o	lose	Sep 16th 5.30 pm			
Contract	12001	Change	Change %	Oct'19	Change	Change %	
Closing Price	665.50	-5.0	-0.75%	93.10	-1.35	-1.43%	
Vol traded ('000 lots)	181.86	31.3	20.79%	18.60	-7.36	-28.35%	
Open positions ('000 lots)	155.32	8.7	5.97%	133.47	-1.31	-0.97%	
Day Low	655.5	-14.0	-2.09%	91.64	-2.25	-2.40%	
Day High	676.0	-14.0	-2.03%	94.20	-3.00	-3.09%	

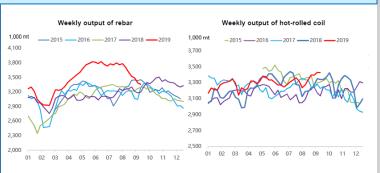
**IRON ORE FUTURES CONTRACTS** 





# STEEL SPOT MARKET PRICES—CHINA

Steel Spot Market RMB/tonne							
Product	13/9/2019	Change	Change %				
ReBar HRB400 ¢18mm	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					

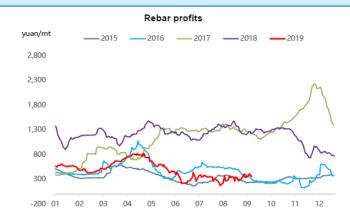
CHINIESE STEEL MILL DECEITABILITY

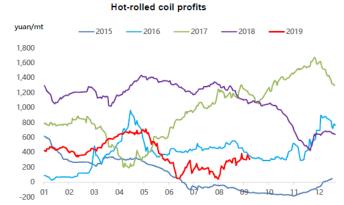
Note: 1 Costs in the table are caluclated based on todays market prices and facout our management, sales, financial and depreciations fees.

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

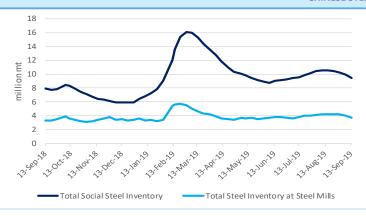


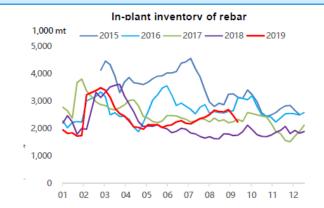
### **CHINESE STEEL MILL PROFITABILITY**





## 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.

		AVER	AGE IRON	ORE SPECIF	ICATIONS A	PPLIED FOR BRAND PRICE A	SSESSMEN	TS				
	PORT	STOCK BRAN	IDS			SEABORNE BRANDS						
September 17th 2019	September 17th 2019 Specifications applied for 62% brand assessments				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	62.51%	2.16%	4.16%	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%	7.58%	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	65.46%	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 17th 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%							
						a.						

	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	IOS162	IRCN0034							
IOPI58	IRCNQ002	IRCNQ005	IOS165	IRCN0035							
IOPI65	IRCNQ003	IRCNQ006									
IOP1162	IRCN0036	IRCN0037									

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