

MMi Dashboard

Iron Ore Price Indices





690

2 0.29%

May 14th, 2019

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



764

3 0.39%

May 14th, 2019

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



615

-0.32%

May 14th, 2019

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



95.40

-0.30 -0.31%

May 14th, 2019

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



110.85

-0.50 -0.45%

May 14th, 2019

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



901

10 1.12%

Week Ending May 10th, 2019

Exchange Traded Contracts

DCE Iron Ore 62% Fines I1909 (Sept) RMB/t



644.50

-9.00 -1.38%

May 14th, 2019

(3pm close)

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



91.06

-1.06 -1.15%

May 14th, 2019 (6pm Print)

SHFE Rebar RB1910 (Oct) RMB/t



3663

-28.00 -0.76%

May 14th, 2019

(3pm close)

Freight Rates

C3, Tubarao - Qingdao USD/t



16.09

0.25 1.58%

May 13th, 2019

C5, W. Australia - Qingdao USD/t



6.75

-1.05 -13.46%

May 13th, 2019

Steel Price

Steel Rebar (China Domestic) RMB/t



4100

30 -0.73%

Week Ending May 10th, 2019

Inventory Levels

Iron Ore Inventory at Chinese Ports (35) million tonnes



124.50

-0.96 -0.77%

Week Ending May 10th, 2019

Steel Inventory in China

million tonnes



13.52

-0.30 -2.18%

Week Ending May 10th, 2019

Steel Price

Steel HRC (China Domestic) RMB/t

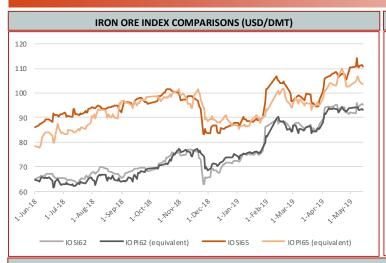


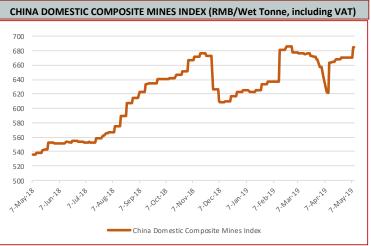
4050

70 1.76%

Week Ending May 10th, 2019

MMi D	aily Iro	n Or	e Inde	Report											May 1	4th, 201	19
							IRON OR	RE PORT S	TOCK INDEX	(IOP	기)						
May 14th,	2019			FOT C	ingdao	(inc. 13% VAT)	, RMB/wet	tonne			CFR	Qingdao	Equivale	nt (exc. 13%	6 VAT), USD,	dry tonne	1
Index	Fe Cont	tent	Price	Change	Change	e % MTD	YTD	Low ²	High ²	Pr	rice Ch	ange (Change %	MTD	YTD	Low ²	High ²
IOPI62	62% Fe F	Fines	690	2	0.3%	687	639	453	690	93	3.14 -	0.28	-0.3%	93.54	85.68	61.66	94.28
IOPI58	58% Fe F	Fines	615	-2	-0.3%	615	553	317	617	83	3.50 -	0.79	-0.9%	84.29	73.68	41.71	84.59
IOPI65	65% Fe I	Fines	764	3	0.4%	768	720	559	794	103	3.56 -	0.20	-0.2%	105.08	97.02	77.70	109.92
			IR	ON ORE SE	ABORNI	E INDEX (IOSI)						MARK	ЕТ СОММ	ENTARY		
May 14th,	2019				CFR C	Qingdao, USD/	dry tonne								ese ports in the week ents departing Austr		
Index	Fe Cont	tent	Price	Change	Change	% MTD	YTD	Low ³	High ³						frop by 1.14 million m Is as well as obvious o		
IOSI62	62% Fe F	Fines	95.40	-0.30	-0.31	% 94.34	86.45	62.95	96.05						e port stock market u a low number of cor		
IOSI65	65% Fe F	Fines	110.85	-0.50	-0.45	% 111.38	100.11	83.20	114.40								
							IRON OR	E PORT LU	JMP INDEX	(IOPL	LI)						
Week Endi 2019	ng May 10t	h,		FOT C	ingdao	(inc. 16% VAT)	, RMB/wet	tonne			CFR	Qingdao	Equivaler	nt (exc. 16%	6 VAT), USD/	dry tonne	4
Index	Fe Cont	tent	Price	W-o-W	Change	% MTD	YTD	Low ³	High ³	Pr	rice W	/-oW (Change %	MTD	YTD	Low ³	High ³
IOPLI62	62.5% Fe	Lump	901	10	1.1%	896	846	575	901	115	5.86 0).78	0.68%	115.47	108.98	76.63	115.86
IRON ORE DOMESTIC CONCENTRATE SPOT PRICE ASSESSMENTS AND COMPOSITE INDEX																	
Week End	ing May 1	0th, 20					-	nne (exclu						USD/tonne	(excluding t		
Province		gion	Product		Basis	This week	Change		Low ²		High ²	This w		Change %	Low		High ²
Hebei	Ha	anxing	66% Fe	Concentrate	Dry	839	1.1%	6	592		839	124.	15	0.50%	91.9	97	124.15
Hebei	Qi	an'an	65% Fe	Concentrate	Dry	795	2.6%	6	635		815	117.	64	1.99%	100.	26	117.64
Liaoning	An	nshan	65% Fe	Concentrate	Wet	605	5.2%	6	450		745	89.5	53	4.61%	68.2	21	89.53
Shandong	Zik	bo	65% Fe	Concentrate	Dry	820	0.0%	6	655	_	860	121.	34				127.11
Week Ending May 10th, 2019 This week Change % Low 2 High 2 1 Exchange rate applied: RMB/USD = 6.8365 2 Last 12 months 3 Since June 1 4 Weekly exchange rate applied: RMB/USD 6.7577																	
China Mines Concentrate Composite Index RMB/WT 684.41 2.1% 535.58 685.87																	
IRON ORE PORT INDEX, FOT QINGDAO (RMB/WT) IRON ORE SEABORNE INDEX, CFR QINGDAO (USD/DMT)																	
850 -								A •	125 ——								
750 -			~~	~~~	Λ_{-}		May 1		105 —						^		~
650 -	~	فمحسي	, , ,		•	~~	wh		95	~~		~~	<u> </u>	1	-5-	~~,	mt
550	~ ·		~~~~	Manage of the last	سا٠	م حسب			85					6		~~	
450	~~				~	~~~~			75 65					1			
350	~~~	_							55								
250 -	.9	. %	.99.		b •9s	.0 .0	۵ ۵	.0	45	28	.5° 5	\$ 5	.%	S ⁹ S	2 2	.5° .5°	.59
14.Nav.18	74/m1/18	JAA.	JR:18 JASER:18	JWO4.78 JWWO4.76	JADEC'18	Jalania Jakabila	Nat. 19 14 Apr. 19	AM34.19	Willing Wild	V.V	AUB 18 ASEPT	A OCT IS	A. NOV. 18	Dec.18 Alani	"Yep, "W	at.19 A.A91.19	A.May
ŕ			IO PI) PI 58 =	IO PI 65						_	— IO SI62	10.9	8165		
				IR	N ORF	PORT STOCK	INDEX MO	אדווע מ	NIARTERIV	AND	VEAR-TO.	DATE A	VERAGE	S			
May 14th,	2019					(inc. 13% VAT			COARTERET						% VAT), USD,	/dry tonne	
Index	Fe Con	itent	January	February	March		MTD	QTD	YTD	Jar		bruary	March	April	MTD	QTD	YTD
IOPI62	62% Fe	Fines	580	654	639	675	687	678	639		•	'6.16	87.09	85.37	93.54	92.91	85.68
IOPI58	58% Fe	Fines	448	569	583	600	615	604	553	50	0.47 5	7.99	75.22	77.49	84.29	82.66	73.68
IOPI65	65% Fe	Fines	670	733	714	753	768	757	720	99	9.05 8	88.65	98.08	95.78	105.08	104.21	97.02
IRO	N ORE SE	ABOR	NE INDE	X MONTHLY	r, QUAF	RTERLY AND	/EAR-TO-D	ATE AVER	AGES				FF	REIGHT RA	TES		
May 14th,	2019				CFR (Qingdao, USD/	dry tonne			May 1	13th, 2019			FREIGHT R	ATES - DRY BUI	K US\$/wet to	nne
Index	Fe Con	itent	January	February	March	n April	MTD	QTD	YTD	Route	e	Designa	tion	Change	Change %	Low ²	High ²
IOSI62	62% Fe	Fines	76.09	87.39	86.18	93.42	94.34	93.70	86.45	W. Aus	stralia - Qingda	o C5	6.75	-1.05	-13.46%	4.39	10.00
IOSI65	65% Fe	Fines	89.92	102.56	97.22	106.75	111.38	108.14	100.11	Tubara	ao - Qingdao	СЗ	16.09	0.25	1.58%	11.61	24.76
				IRO	ON ORE	PORT LUMP	INDEX MO	NTHLY, Q	UARTERLY	AND	YEAR-TO-	DATE A	VERAGES	,			
Week Endir 2019	ng May 10tl	h,		FOT	Qingdao	(inc. 16% VAT), RMB/wet	tonne			CFR	Qingdad	Equivale	nt (exc. 169	% VAT), USD	dry tonne	1
Index	Fe Con	ntent	January	February	Marc	h April	MTD	QTD	YTD	Jan	nuary Fe	bruary	March	April	MTD	QTD	YTD
IOPLI62	62.5% Fe	Lump	782	842	858	872	896	880	846	96	6.21 9	4.22	99.57	111.03	115.47	113.73	108.98
						ı	RON ORE I	NDEX PRE	MIUMS/DI	scou	JNTS						
May 14th,	2019				PORT S	TOCK INDEX (RI	MB/WT)		May 14th, 20	019				SEABOR	NE INDEX (US	D/DMT)	
Index		Fe Cor		•	to IOPI62	2 9	6 Spread to I		Index		Fe Cont	ent	Spre	ad to IOSI62		% Spread to	IOSI62
IOPI58 IOPI65		58% Fe 65% Fe			75 74		-10.87% 10.72%		IOSI65		65% Fe F	ines		15.45		16.19	%
101 103		55 /0 FE			-		10.72%		,00,00		1 22/0 FE F					10.19	,.

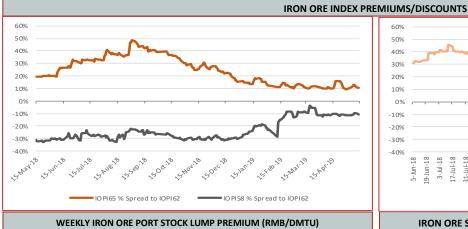




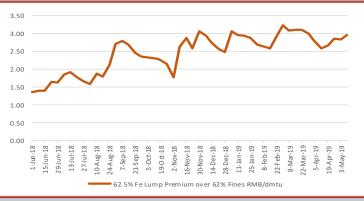
IRON ORE BRAND SPOT PRICE ASSESMENTS								
May 14th, 2019	PORT	STOCK INDEX (R	MB/WT)	May 14th, 2019	SEABO	SEABORNE INDEX (USD/DMT)		
	Price	Change	Diff to IOPI62		Price	Change	Diff to IOSI62	
Roy Hill	665	2	-25	Roy Hill	90.81	-0.30	-4.59	
SIMEC Fines	658	2	-32	SIMEC Fines	88.19	-0.30	-7.21	
PB Fines	675	1	-15	PB Fines	94.36	-0.30	-1.04	
Newman Fines	696	2	6	Newman Fines	98.06	-0.30	2.66	
MAC Fines	670	2	-20	MAC Fines	90.74	-0.30	-4.66	
Jimblebar Blended Fines	654	3	-36	Jimblebar Blended Fines	87.81	-0.30	-7.59	
Carajas Fines	773	5	83	Carajas Fines	110.46	-0.30	15.06	
Brazilian SSF	708	2	18	Brazilian SSF	98.21	-0.30	2.81	
Brazilian Blend Fines	708	2	18	Brazilian Blend Fines	98.84	-0.30	3.44	
RTX Fines	671	2	-19	RTX Fines	88.69	-0.30	-6.71	

May 14th, 2019	PORT STOCK INDEX (RMB/WT)						
	Price	Change	Diff to IOPI58				
SSF	599	-1	-16				
FMG Blended Fines	624	-3	9				
Robe River	593	-5	-22				
Western Fines	620	-2	5				
Atlas Fines	604	-2	-11				
Yandi	632	-16	17				

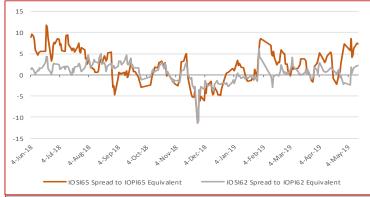
				IRON ORE IN	NDEX NORMA	LISATION DIFFER	ENTIALS				
Por	t Stock Index	Product Differ	entials (RI	MB/wet tonne)	Sea	aborne Inde	x Product Di	fferentials ((USD/dry tonne	e)
	Ар	plicable range		Value	Change		А	pplicable ran	ge	Value	Change
	High Grade	e Fe 60 - 63%		9.00	0.00		High Grad	de Fe 60 - 63	%	3.25	0.00
	High Grade	High Grade Fe 63 - 64% High Grade Fe 64 - 65%			0.00		High Grad	de Fe 63 - 649	%	3.00	0.00
1% Fe	High Grade				0.00	1% Fe	High Grad	de Fe 64 - 65	%	3.00	0.00
	High Grade	e Fe 65 - 65.5%		15.00	0.00		High Grad	de Fe 65 - 65.	.5%	3.00	0.00
	Low Grade	Fe		9.00	0.00						
	High Fe Gra	ade Al <2.25%		26.00	0.00		High Fe G	rade Al <2.25	5%	2.75	0.00
1% Alumina	High Fe Gra	gh Fe Grade Al 2.25-4%		0.00	0.00	40/ 41	High Fe G	rade Al 2.25	-4%	2.75	0.00
	Low Fe Gra	de Al <2.25%		48.00	0.00	1% Alumina					
	Low Fe Gra	de Al 2.25-4%		7.00	0.00						
	High Fe Gra	ade Si <4%		5.00	0.00		High Fe G	rade Si <4%		1.50	0.00
1% Silica	High Fe Gra	ade Si 4-6.5%		12.00	0.00	1% Silica	High Fe G	rade Si 4 - 6.	5%	0.25	0.00
	Low Fe Gra	de		0.00	0.00						
	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>0.00</td><td>0.00</td><td>Phosphorus</td><td>High Fe G</td><td>rade 0.115%</td><td><p<0.15%< td=""><td>0.50</td><td>0.00</td></p<0.15%<></td></p<<>	0.15%	0.00	0.00	Phosphorus	High Fe G	rade 0.115%	<p<0.15%< td=""><td>0.50</td><td>0.00</td></p<0.15%<>	0.50	0.00
Phosphorus	Low Fe Gra	de 0.09 <p<0.19< td=""><td>%</td><td>6.00</td><td>0.00</td><td></td><td></td><td></td><td></td><td></td><td></td></p<0.19<>	%	6.00	0.00						
			Port St	ock 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	Fangcheng	-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	-5.00	0.00	Rizhao	0.00	0.00
Caofeidian	0.00	0.00	Jingtang	0.00	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	-20.00	0.00







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



TOTAL IRON ORE INVENTORIES AT CHINA PORTS (MILLION TONNES) 150

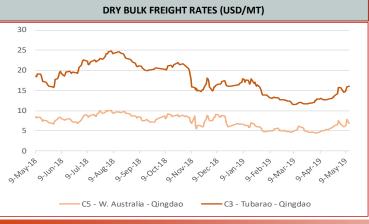


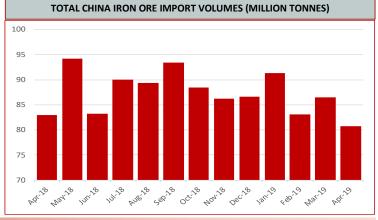
	FUTURE TRADING—FRONT MONTH CLOSING PRICE		
750		100	
700	MA. M	95	
650		90	
900 600	- Print w	85	Ψ
RMB/tonne		80	USD/DMT
<u>≨</u> 500	man party and	75	Ď
450	June 1 hours	70	
	Mark Market Mark	65	
400	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	60	
24.May	the little of th		
	—— Dalian 3pm Close —— SGX Front Month 6pm (RHS)		

IRON ORE PORT INVENTORIES (MILLION TONNES)										
Week Ending May 10th, 2019										
Province	This week	Change %	Low ²	High ²						
Jingtang	14.95	2.12%	13.29	18.10						
Qingdao	16.06	-5.53%	16.06	19.50						
Caofeidian	17.41	4.19%	16.30	23.30						
Tianjin	7.68	-2.78%	7.39	10.48						
Rizhao	14.75	-3.91%	14.00	19.00						
Total (35 Ports)	124.50	-0.77%	124.50	147.56						

	DCE (RMB/WMT)			SGX (USD/DMT)			
Closing Date	Ma	y 14th 3pm c	lose	14th May Feb 6 pm			
Contract	11909	Change	Change %	Jun'19	Change	Change %	
Closing Price	644.50	-9.0	-1.38%	91.06	-1.06	-1.15%	
Vol traded ('000 lots)	293.59	94.3	47.33%	18.47	8.09	77.96%	
Open positions ('000 lots)	147.26	2.1	1.43%	118.26	3.46	3.01%	
Day Low	642.0	-8.0	-1.23%	90.50	-1.40	-1.52%	
Day High	666.0	6.0	0.91%	92.94	-0.15	-0.16%	

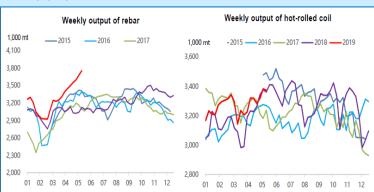
IRON ORE FUTURES CONTRACTS





STEEL SPOT MARKET PRICES—CHINA

Steel Spot Market RMB/tonne									
Product	10/5/2019	Change	Change %						
ReBar HRB400 ф18mm	4,100.0	-30	-0.73%						
Wirerod Q300 ¢6.5mm	4,300.0	-20	-0.46%						
HRC Q235/SS400 5.5mm*1500*C	4,050.0	70	1.76%						
CRC SPCC/ST12 1.0mm*1250*2500	4,310.0	-30	-0.69%						
Medium & Heavy Plate Q235B 20mm	4,110.0	30	0.74%						
GI ST02Z 1.0mm*1000*C	4,640.0	0	0.00%						
Colour Coated Plate	7,200.0	-100	-1.37%						



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	94.20	2.75	Mmi CFR Equivalent index for 1st Feb						
Coke	2,010	0	2nd grade met coke, Tangshan, incl. tax						
Steel Scrap	2,250	20	steel scrap (6mm) in Zhangjiagang, exl. tax						
Billet Cost	3,121	42	Q234, incl. tax						
Rebar cost - Blast furnace	3,368	41	calculated based on theoretical weight, incl. tax						
Rebar profit - Blast furnace	742	-91	based on Shanghai prices, incl. tax						
Hot-rolled coil cost - Blast furnace	3,446	42	based on actual weight, incl. tax						
Hot-rolled coil proft - Blast furnace	604	-32	based on Shanghai prices, incl. tax						

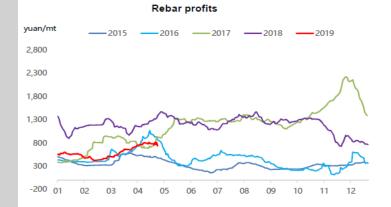
CHINESE STEEL MILL PROFITABILITY

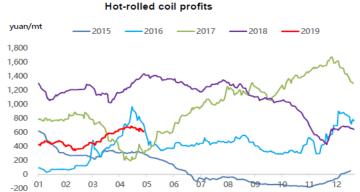
Note: 1 Costs in the table are caluclated based on todays market prices and facout our management, sales, financial and depreciations fees.

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

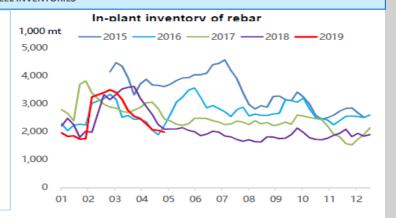


CHINESE STEEL MILL PROFITABILITY





Total Social Steel Inventory Total Steel Inventory at Steel Mills Total Social Steel Inventory Total Steel Inventory at Steel Mills Total Social Steel Inventory Total Steel Inventory at Steel Mills



IRON ORE INDEX SPECIFICATIONS, COMPILATION RATIONALE AND DATA EXCLUSIONS										
	Iron Ore)	Iron Ore Inde	ex Compilation I	Rationale and Da	ata Exclusions				
	65% Fe Fines	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				
Fe %	65.00 62.00 58.00		62.50	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						
Alumina %	1.40	2.25	2.25	1.50	these companies. T	these companies. This data is normalised to the appropriate specifications and		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.					
Phosphorus %	0.06	0.09	0.05	0.08	For more details on MMi's iron ore methodology please download 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		im of 40% below 150	•	Size above 31.15mm max 25%	Port Index Seaborne index	0	0	0		
Pricing Point	Qingdao Port (FOT and CFR respectively)		FOT Qingdao Port	Lump Index 62.5	0					
Timing (Seaborne)	Loading within 4 weeks, Delivery within 8 weeks			Delivery within 2 weeks	* Number of price submissions for iron ore indices that were excluded from					
Payment Terms	L/C at sight			L/C at sight or CAD	index calculations today as they were anomalous and could not 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	APPLIED FOR BRAND PRICE ASSESSMENTS						
	PORT	STOCK BRAN	IDS		SEABORNE BRANDS						
May 14th, 2019	lay 14th, 2019 Specifications applied for 62% brand assessments						Specifi	cations appli	ed for 62%	brand asses	sments
	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	61.59%	2.34%	3.76%	0.098%	9.24%	PB Fines 62%	62.00%	2.60%	4.30%	0.090%	10.00%
Newman Fines	62.49%	2.25%	4.19%	0.091%	7.46%	Newman Fines	62.80%	2.20%	4.30%	0.080%	6.40%
MAC Fines	60.85%	2.24%	4.92%	0.085%	7.77%	MAC Fines	61.00%	2.70%	4.70%	0.110%	9.30%
Jimblebar Blended Fines	60.96%	2.93%	4.55%	0.101%	7.69%	Jimblebar Blended Fines	61.79%	2.67%	4.08%	0.115%	7.16%
Carajas Fines	65.40%	1.30%	1.43%	0.082%	8.28%	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	62.88%	1.38%	4.79%	0.074%	8.44%	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%
May 14th, 2019	Specifi	cations appli	ed for 58%	brand asses	sments						
	Fe	Alumina	Silica	Phos	Moisture						
SSF	56.72%	3.09%	5.99%	0.051%	8.95%						
FMG Blended Fines	58.25%	2.71%	5.65%	0.064%	7.37%						
Robe River	56.64%	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	57.10%	1.48%	6.52%	0.044%	8.65%						

		BLOOMBE									
PORT STOCK INDICES											
	FOT Qingdao (RMB/wet tonne)	CFR Qingdao Equivalent (USD/dry tonne)									
IOPI62	IRCNQ001	IRCNQ004									
IOPI58	IRCNQ002	IRCNQ005									
IOPI65	IRCNQ003	IRCNQ006									

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