

MMi Dashboard

Iron Ore Price Indices





736

2 0.27%

May 22nd, 2019

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



847

11 1.32%

May 22nd, 2019

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



641

10 1.58%

May 22nd, 2019

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



104.20

3.40 3.37%

May 22nd, 2019

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



121.50

2.65 2.23%

May 22nd, 2019

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



906

5 0.55%

Week Ending May 17th, 2019

Exchange Traded Contracts

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



728.00

11.00 1.53%

May 22nd, 2019

(3pm close)

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



100.86

2.26 2.29%

May 22nd, 2019 (6pm Print)

SHFE Rebar RB1910 (Oct) RMB/t



3910

-9.00 -0.23%

May 22nd, 2019

(3pm close)

Freight Rates

C3, Tubarao - Qingdao USD/t



May 21st, 2019

16.72

0.35 2.14%

C5, W. Australia - Qingdao USD/t



6.65

0.13 2.01%

May 21st, 2019

Steel Rebar (China Domestic) RMB/t

Steel Price



4070

30 -0.73%

Week Ending May 17th, 2019

Inventory Levels

Iron Ore Inventory at Chinese Ports (35) million tonnes



123.67

-0.83 -0.67%

Week Ending May 17th, 2019

Steel Inventory in China

million tonnes



13.17

-0.35 -2.60%

Week Ending May 17th, 2019

Steel Price

Steel HRC (China Domestic) RMB/t



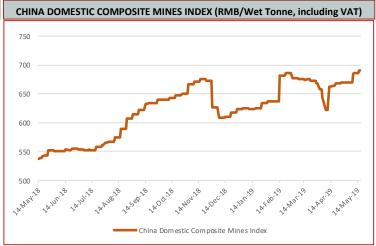
4030

-20 -0.49%

Week Ending May 17th, 2019

MMi D	aily Iro	n Or	e Inde	k Report											May 2	2nd, 20	19
							IRON OF	RE PORT S	TOCK INDEX	(IOP	기)						
May 22nd	, 2019			FOT C	Qingdao	(inc. 13% VA	Γ), RMB/wet	tonne			CFR	Qingdao	Equivale	nt (exc. 13%	% VAT), USD,	dry tonne	1
Index	Fe Cont	tent	Price	Change	Change	% MTD	YTD	Low ²	High ²	Pr	rice Cl	hange (Change %	MTD	YTD	Low ²	High ²
IOPI62	62% Fe F	Fines	736	2	0.3%	703	645	453	736	98	3.71	0.15	0.2%	95.15	86.50	61.66	98.71
IOPI58	58% Fe F	Fines	641	10	1.6%	621	558	317	641	86	5.40	1.29	1.5%	84.45	74.50	41.71	86.4
IOPI65	65% Fe I	Fines	847	11	1.3%	788	726	559	847	114	4.19	1.39	1.2%	107.03	97.89	77.70	114.19
			IR	ON ORE SEA	ABORNI	E INDEX (IOS	SI)						MARK	ET COMM	ENTARY		
May 22nd	, 2019				CFR C	Qingdao, USD,	dry tonne								markets continue to ver, given the falling		
Index	Fe Cont	tent	Price	Change	Change	% MTD	YTD	Low ³	High ³						k material in the beli and coke prices have		
IOSI62	62% Fe F	Fines	104.20	3.40	3.379	6 96.18	87.13	62.95	104.20	deman	nd for medium-hi	gh grade iron o	re has increase	d with MNPJ much	n sought-after. What er fall, prices at thes	s more, as the su	pply of main-
IOSI65	65% Fe F	Fines	121.50	2.65	2.239	6 113.31	100.98	83.20	121.50		rt those in the re						
							IRON OR	E PORT L	JMP INDEX	(IOPI	LI)						
Week Endi 2019	ng May 17t	h,		FOT C	(ingdao	(inc. 16% VA), RMB/wet	tonne			CFR	Qingdao	Equivale	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 V	V-oW	Change %	MTD	YTD	Low ³	High ³
IOPLI62	62.5% Fe	Lump	906	5	0.6%	899	849	575	906	115	5.09 -	0.77	-0.66%	115.34	109.30	76.66	115.86
				IRO	N ORE E	OOMESTIC C	ONCENTRA	TE SPOT P	RICE ASSES	SMEN	NTS AND	COMPOS	SITE INDI	EX			
Week End	ing May 1	7th, 20						nne (exclu						USD/tonne	e (excluding t		
Province		egion	Product		Basis	This week			Low ²		High ²	This w		Change %	Low		High ²
Hebei	Ha	anxing	66% Fe	Concentrate	Dry	845	0.79	6	592		845	123.	35	-0.65%	91.9	97	124.15
Hebei	Qi	an'an	65% Fe	Concentrate	Dry	795	0.0%	6	635		815	116.	05	-1.35%	100.	26	117.64
Liaoning	An	nshan	65% Fe	Concentrate	Wet	605	0.09	6	450		745	88.3	32	-1.35%	68.2	21	89.53
Shandong	Zik		65% Fe	Concentrate	Dry	835	1.89	6	655	_	860	121.				127.11	
Week Ending May 17th, 2019 This week Change % Low High 1 1 Exchange rate applied: RMB/USD = 6.8992 2 Last 12 months 3 Since June 1 4 Weekly exchange rate applied: RMB/USD 6.8503																	
China Mines Concentrate Composite Index RMB/WT 690.77 0.9% 535.58 686.95																	
	IRON ORE PORT INDEX, FOT QINGDAO (RMB/WT) IRON ORE SEABORNE INDEX, CFR QINGDAO (USD/DMT)																
850 -								-	135								
750 -			_ ~~	~~~	\	Λ	~~^		115 —								كم
650 -	_ P=4	تمحمر			-	~~/~	~~~		105 ——— 95 ———			~~	~~	`	~~	m	~
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350	~~~	~	-demande						55	~							
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22:May 18	22:Jun 28	1011-28 22:A1	18:18 22:5ep-18	220x 22 nov?	27:Decise	121an 19 22.4ab 19	Mar. 19 22. Apr. 19	2:MaY.19	Siluria Silul	5.A	AUBIR SEPT	5.Oct.78	S.NOVIB S.	pecino Silanino	Step 19 S. Mar.	n9 5.R91.19 5	May
2"		٠٧٠	IO PI) PI 58 =	10 Pl 65	· · · · · · · · · · · · · · · · · · ·	,,					— IO SI62				
			1011							••••	V=15 =0				3103		
May 22nd	2010	ı				PORT STOC			QUARTERLY	AND					% VAT), USD,	/	
Index	Fe Con	itent	January	February	March	(inc. 13% VA	MTD	QTD	YTD	Jar		bruary	March	April	MTD	QTD	YTD
IOPI62	62% Fe		580	654	639	675	703	686	645		•	76.16	87.09	85.37	95.15	93.62	86.50
IOPI58	58% Fe		448	569	583	600	621	608	558			57.99	75.22	77.49	84.45	83.01	74.50
IOPI65	65% Fe	Fines	670	733	714	753	788	766	726	99	9.05 8	88.65	98.08	95.78	107.03	105.11	97.89
IRO	N ORE SE	ABOR	NE INDE	X MONTHLY	r, QUAF	RTERLY AND	YEAR-TO-D	ATE AVEF	AGES	İ			FI	REIGHT RA	TES		
May 22nd	, 2019				CFR C	Qingdao, USD	dry tonne			May 2	21st, 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	96.18	94.52	87.13	W. Aus	stralia - Qingda	ao C5	6.65	0.13	2.01%	4.39	10.00
IOSI65	65% Fe	Fines	89.92	102.56	97.22	106.75	113.31	109.37	100.98	Tubara	ao - Qingdao	СЗ	16.72	0.35	2.14%	11.61	24.76
				IRO	ON ORE	PORT LUMI	INDEX MC	ONTHLY, O	UARTERLY	AND	YEAR-TO-	DATE A	VERAGES	5			
Week Endir 2019	ng May 17ti	h,		FOT	Qingdao	(inc. 16% VA	T), RMB/wet	tonne			CFF	R Qingdac	Equivale	nt (exc. 16	% 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	8 872	899	884	849	96	6.21	94.22	99.57	111.03	115.34	113.98	109.33
							IRON ORE I	INDEX PRE	MIUMS/DI	scou	JNTS						
May 22nd,	2019				PORT S	TOCK INDEX (F	RMB/WT)		May 22nd, 2	019				SEABOR	RNE INDEX (US	D/DMT)	
Index		Fe Cor			to IOPI62	2	% Spread to I		Index		Fe Con	tent	Spre	ad to IOSI62		% Spread to	IOSI62
IOPI58 IOPI65		58% Fe 65% Fe			95 .11		-12.91% 15.08%		IOSI65		65% Fe I	Fines		17.30		16.60	%
01100		55 /0 FE					13.06%	,	103103		1 3370 FE			17.30		10.00	, ,

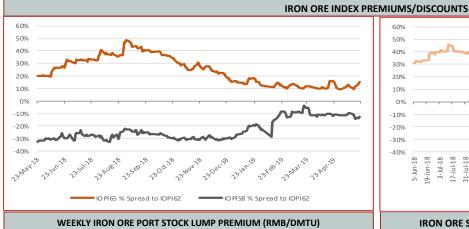




	IRON ORE BRAND SPOT PRICE ASSESMENTS											
May 22nd, 2019	PORT	STOCK INDEX (R	MB/WT)	May 22nd, 2019	SEABO	RNE INDEX (US	D/DMT)					
	Price	Change	Diff to IOPI62		Price	Change	Diff to IOSI62					
Roy Hill	711	3	-25	Roy Hill	101.20	4.08	-3.00					
SIMEC Fines	708	4	-28	SIMEC Fines	99.62	4.42	-4.58					
PB Fines	718	0	-18	PB Fines	103.67	3.57	-0.53					
Newman Fines	744	2	8	Newman Fines	106.21	3.00	2.01					
MAC Fines	717	3	-19	MAC Fines	100.77	4.62	-3.43					
Jimblebar Blended Fines	694	0	-42	Jimblebar Blended Fines	98.25	5.05	-5.95					
Carajas Fines	857	12	121	Carajas Fines	121.01	2.32	16.81					
Brazilian SSF	780	12	44	Brazilian SSF	109.51	3.40	5.31					
Brazilian Blend Fines	769	8	33	Brazilian Blend Fines	108.51	3.15	4.31					
RTX Fines	694	-2	-42	RTX Fines	98.55	4.95	-5.65					

May 22nd, 2019	PORT STOCK INDEX (RMB/WT)					
	Price	Change	Diff to IOPI58			
SSF	607	6	-34			
FMG Blended Fines	644	9	3			
Robe River	601	6	-40			
Western Fines	634	6	-7			
Atlas Fines	618	6	-23			
Yandi	653	7	12			

				IRON O	RE INDEX NORM	ALISATION DIFFER	ENTIALS				
Por	t Stock Index	Product Differ	entials (F	RMB/wet to	nne)	Se	aborne Inde	x Product Dif	ferentials (USD/dry tonne)
	Арі	olicable range		Value	Change		А	pplicable ran	ge	Value	Change
	High Grade	e Fe 60 - 63%		10.00	0.00		High Grad	de Fe 60 - 639	6	2.25	-0.50
	High Grade	e Fe 63 - 64%		20.00	1.00		High Grad	de Fe 63 - 649	%	3.50	0.00
1% Fe	High Grade Fe 64 - 65%			20.00	1.00	1% Fe	High Grad	ligh Grade Fe 64 - 65%		3.50	0.00
	High Grade	High Grade Fe 65 - 65.5%			1.00		High Grad	High Grade Fe 65 - 65.5%		3.50	0.00
	Low Grade Fe			13.00	1.00						
	High Fe Grade Al <2.25%			42.00	6.00		High Fe G	rade Al <2.25	5%	4.25	0.00
40/ 41	High Fe Gra	High Fe Grade Al 2.25-4%		0.00	0.00	40/ 41	High Fe G	rade Al 2.25-	4%	1.50	-0.50
1% Alumina	Low Fe Gra	Low Fe Grade Al <2.25%		48.00	-2.00	1% Alumina					
	Low Fe Gra	Low Fe Grade Al 2.25-4%		23.00	3.00						
	High Fe Gra	High Fe Grade Si <4%		10.00	1.00		High Fe G	rade Si <4%		1.75	-0.25
1% Silica	High Fe Gra	High Fe Grade Si 4-6.5%			-1.00	1% Silica	High Fe G	rade Si 4 - 6.	5%	0.00	0.00
	Low Fe Gra	Low Fe Grade		1.00	1.00						
0.010/	High Fe Gra	ade 0.09% <p<0< td=""><td>.115%</td><td>6.00</td><td>2.00</td><td>0.01%</td><td>High Fe G</td><td colspan="2">High Fe Grade 0.09%<p<0.115%< td=""><td>0.25</td><td>-0.25</td></p<0.115%<></td></p<0<>	.115%	6.00	2.00	0.01%	High Fe G	High Fe Grade 0.09% <p<0.115%< td=""><td>0.25</td><td>-0.25</td></p<0.115%<>		0.25	-0.25
0.01%	High Fe Gra	de 0.115% <p<< td=""><td>0.15%</td><td>8.00</td><td>0.00</td><td>Phosphorus</td><td>High Fe G</td><td colspan="2">High Fe Grade 0.115%<p<0.15%< td=""><td>0.75</td><td>0.00</td></p<0.15%<></td></p<<>	0.15%	8.00	0.00	Phosphorus	High Fe G	High Fe Grade 0.115% <p<0.15%< td=""><td>0.75</td><td>0.00</td></p<0.15%<>		0.75	0.00
Phosphorus	Low Fe Gra	de 0.09 <p<0.19< td=""><td>%</td><td>10.00</td><td>0.00</td><td></td><td></td><td></td><td></td><td></td><td></td></p<0.19<>	%	10.00	0.00						
			Port	Stock Price Di	fferentials to Qingo	dao Port for PB Fine	s (RMB/wet t	onne)			
Port	Value	Change	Por	t Va	lue Change	Port	Value	Change	Port	Value	Change
Bayuquan	-35.00	0.00	Fangchei	ng -5	0.00	Lanshan	0.00	0.00	Qingdao	0.00	0.00
Beilun	5.00	0.00	Jiangyin	-30	.00 -5.00	Lianyungang	-5.00	0.00	Rizhao	0.00	0.00
Caofeidian	0.00	0.00	Jingtang	0.	0.00	Majishan	0.00	0.00	Shekou	0.00	0.00
Dalian	-35.00	0.00	Lanqiao	0.	0.00	Nantong	-30.00	-5.00	Tianjin	-20.00	0.00

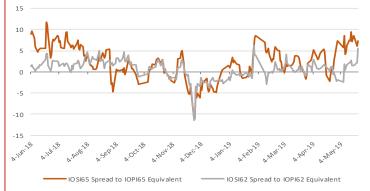




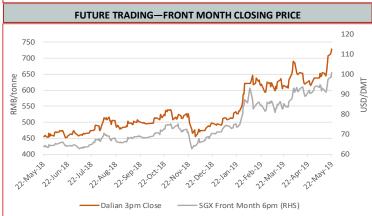








TOTAL IRON ORE INVENTORIES AT CHINA PORTS (MILLION TONNES) 150 145 140 135 130 125 120 115 110 105 100

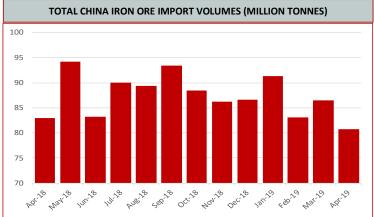


	IRON ORE PORT INVENTORIES (MILLION TONNES)									
Week Ending May	17th, 2019									
Province	This week	Change %	Low ²	High ²						
Jingtang	14.44	-3.41%	13.29	18.10						
Qingdao	15.95	-0.68%	15.94	19.50						
Caofeidian	17.65	1.38%	16.30	21.10						
Tianjin	7.56	-1.56%	7.39	10.48						
Rizhao	14.16	-4.00%	14.00	19.00						
Total (35 Ports)	123.67	-0.67%	123.67	147.56						

	D	CE (RMB/WN	IT)	SGX (USD/DMT)				
Closing Date	Ma	y 22nd 3pm c	lose	22nd May Feb 6 pm				
Contract	11909	Change	Change %	Jun'19	Change	Change %		
Closing Price	728.00	11.0	1.53%	100.86	2.26	2.29%		
Vol traded ('000 lots)	319.91	43.5	15.74%	17.70	4.41	33.18%		
Open positions ('000 lots)	170.84	9.2	5.70%	128.99	-2.13	-1.62%		
Day Low	709.0	15.0	2.16%	101.14	4.15	4.28%		
Day High	733.0 13.0 1.81%			98.77 0.17 0.17%				

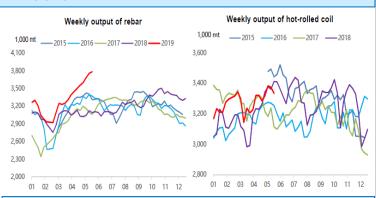
IRON ORE FUTURES CONTRACTS

DRY BULK FREIGHT RATES (USD/MT)
30
25
20
15
10
5
THURTH THURS THE THE TEST TOUTS THEORY THE THURS THE
C5 - W. Australia - Qingdao C3 - Tubarao - Qingdao



STEEL SPOT MARKET PRICES—CHINA

Steel Spot Market RMB/tonne									
Product	17/5/2019	Change	Change %						
ReBar HRB400 ф18mm	4,070.0	-30	-0.73%						
Wirerod Q300 ¢6.5mm	4,270.0	-30	-0.70%						
HRC Q235/SS400 5.5mm*1500*C	4,030.0	-20	-0.49%						
CRC SPCC/ST12 1.0mm*1250*2500	4,280.0	-30	-0.70%						
Medium & Heavy Plate Q235B 20mm	4,080.0	-30	-0.73%						
GI ST02Z 1.0mm*1000*C	4,620.0	-20	-0.43%						
Colour Coated Plate	7,200.0	0	0.00%						



CHINESE STEEL MILL PROFITABILITY

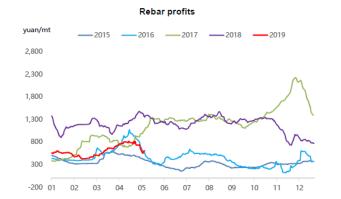
SMM Tracking of Steel Mill P&L - Rebar and Hot-rolled Coil (RMB/tonne)									
Category	Price	Change (WoW)	Note						
MMi (Fe 62%), USD/mt exluding tax	97.20	3.00	Mmi CFR Equivalent index for 1st Feb						
Coke	2,110	100	2nd grade met coke, Tangshan, incl. tax						
Steel Scrap	2,210	-40	steel scrap (6mm) in Zhangjiagang, exl. tax						
Billet Cost	3,221	100	Q234, incl. tax						
Rebar cost - Blast furnace	3,468	100	calculated based on theoretical w eight, incl. tax						
Rebar profit - Blast furnace	602	-140	based on Shanghai prices, incl. tax						
Hot-rolled coil cost - Blast furnace	3,546	100	based on actual weight, incl. tax						
Hot-rolled coil proft - Blast furnace	484	-120	based on Shanghai prices, incl. tax						

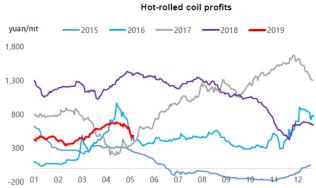
Note: 1. Costs in the table are caluclated based on todays market prices and facout our management, sales, financial and depreciations fees.

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

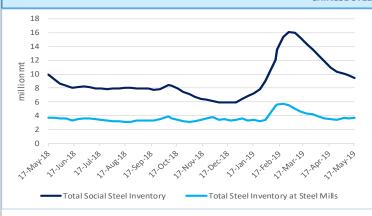


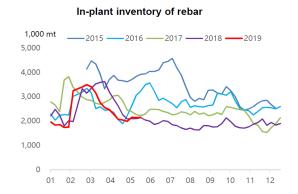
CHINESE STEEL MILL PROFITABILITY





CHINESE STEEL INVENTORIES





	IRON ORE INDEX SPECIFICATIONS, COMPILATION RATIONALE AND DATA EXCLUSIONS												
	Iron Ore	Index Specifications	(Port and Seaborne)	Iron Ore Inde	ex Compilation I	Rationale and Da	ata Exclusions					
	65% Fe Fines	62% Fe Fines	58% Fe Fines	62.5% Fe Lump	MMi iron ore indice	s are compiled from	data provided by co	mpanies 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. 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 withi	n 4 weeks, Delivery v	vithin 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			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	ICATIONS A	APPLIED FOR BRAND PRICE ASSESSMENTS						
	PORT	STOCK BRAN	IDS			SEABORNE BRANDS						
May 22nd, 2019	Specifi	cations appli	ed for 62%	brand asses	sments		Specifi	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	61.56%	2.35%	3.79%	0.099%	9.27%	PB Fines 62%	62.00%	2.60%	4.30%	0.090%	10.00%	
Newman Fines	62.55%	2.28%	4.07%	0.093%	7.33%	Newman Fines	62.80%	2.20%	4.30%	0.080%	6.40%	
MAC Fines	60.84%	2.24%	4.92%	0.085%	7.77%	MAC Fines	61.00%	2.70%	4.70%	0.110%	9.30%	
Jimblebar Blended Fines	60.93%	2.99%	4.49%	0.109%	7.36%	Jimblebar Blended Fines	61.79%	2.67%	4.08%	0.115%	7.16%	
Carajas Fines	65.44%	1.30%	1.43%	0.084%	8.33%	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	62.82%	1.40%	4.79%	0.072%	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%	
May 22nd, 2019	Specifi	cations appli	ed for 58%	brand asses	sments							
	Fe	Alumina	Silica	Phos	Moisture							
SSF	56.76%	3.05%	6.08%	0.053%	8.78%							
FMG Blended Fines	58.18%	2.68%	5.54%	0.062%	7.51%							
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	57.13%	1.80%	6.42%	0.047%	8.59%							

		BLOOMBE	RG TICKERS					
	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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