

MMi Dashboard

Iron Ore Price Indices





902

9 1.01%

July 30th, 2019

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



937

2 0.21%

July 30th, 2019

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

817
-1 -0.12%

July 30th, 2019

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



120.45

3.05 2.60%

July 30th, 2019

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



127.75

2.25 1.79%

July 30th, 2019

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



1038

11 -1.05%

Week Ending July 26th, 2019

Exchange Traded Contracts

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



906.00

21.00 2.37%

July 30th, 2019

(3pm close)

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



117.13

3.01 2.64%

July 30th, 2019 (6.00 pm Print)

SHFE Rebar RB1910 (Oct) RMB/t

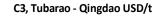


3886

9.00 0.23%

July 30th, 2019 (3pm close)

Freight Rates





23.41

0.26 1.14%

July 29th, 2019

C5, W. Australia - Qingdao USD/t



9.71

0.03 0.33%

July 29th, 2019

Steel Price

Steel Rebar (China Domestic) RMB/t



3960

85 -2.10%

Week Ending July 26th, 2019

Inventory Levels

Iron Ore Inventory at Chinese Ports (35) million tonnes

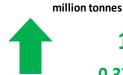


106.30

-0.80 -0.75%

Week Ending July 26th, 2019

Steel Inventory in China



14.21

0.37 2.64%

Week Ending July 26th, 2019

Steel Price

Steel HRC (China Domestic) RMB/t

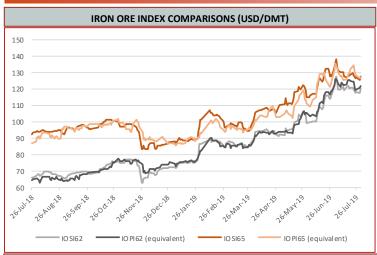


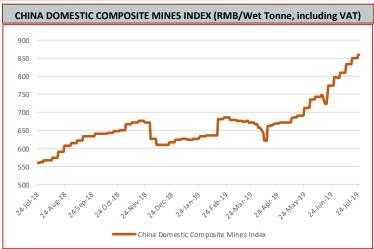
3850

-46 -1.18%

Week Ending July 26th, 2019

MMi D	aily Iron	Ore Inde	ex Report											July 30	oth, 201	.9
						IRON O	RE PORT S	TOCK INDEX	((IOPI)							
July 30th,	2019		FOT	Qingdao	(inc. 13% VA	T), RMB/wet	t tonne			CFR Qin	gdao Eq	uivaler	nt (exc. 13%	6 VAT), USD,	dry tonne	1
Index	Fe Conten	t Price	Change	Change	e % MTD	YTD	Low ²	High ²	Price	Chang	e Cha	nge %	MTD	YTD	Low ²	High ²
IOPI62	62% Fe Fine	902	9	1.09	6 909	717	484	928	122.09	1.19	1	.0%	123.31	96.38	62.54	126.12
IOPI58	58% Fe Fine	817	-1	-0.19	% 808	625	347	823	111.42	-0.21	-0	.2%	110.39	83.99	43.55	112.44
IOPI65	65% Fe Fine	es 937	2	0.29	6 955	792	654	992	126.97	0.20	0	.2%	129.65	106.89	85.47	135.34
		ı	RON ORE SE	ABORN	E INDEX (IO	SI)					N	ЛARKI	ЕТ СОММ	ENTARY		
July 30th,	2019			CFR (Qingdao, USD	dry tonne								ing that the level of cu se on yesterday. Arriva		, ,
Index	Fe Conten	t Price	Change	Change	e % MTD	YTD	Low ³	High ³	grew. SMM est	imates that 95 ves	els carrying 14	.41 million r	nt of iron ore arrive	e significantly and arriv d at major Chinese por	ts during July 21-27	, up 2.88 million mt
IOSI62	62% Fe Fine	s 120.45	3.05	2.60	% 120.90	95.93	62.95	127.50	Australian ports	grew 730,000 mt	rom the prior	week to 14.0	07 million mt. Shipm	week. During July 21- ents that left Brazilian an ports stood at 13.9	ports expanded 340	0,000 mt to 6.39
IOSI65	65% Fe Fine	s 127.7 5	2.25	1.79	% 129.71	109.39	83.20	137.95		14.75 million mt in						, ,
Week Endin	ng July 26th,	I	FOT 4	2	/' · · · 400/3/45			JMP INDEX	(IOPLI)							4
2019		.			(inc. 16% VA	-		3	D.C.					VAT), USD/		
Index IOPLI62	Fe Conten		W-o-W	Change		YTD	Low ³	High ³	Price	W-oW		nge %	MTD	YTD	Low ³	High ³
IOPLIBZ	62.5% Fe Lum	p 1038	-11	-1.09		905	617	1051	131.84	-1.57		18%	132.99	115.87	77.55	133.81
	IRON ORE DOMESTIC CONCENTRATE SPOT PRICE ASSESSMENTS AND COMPOSITE INDEX															
	ing July 26th,		_	-			onne (exclu			_				(excluding t		
Province	Regio			Basis	This week			Low ²	High		his weel	•	Change %	Low		High ²
Hebei	Hanxi		e Concentrate	'	1026	0.7		610	1032		149.14		0.58%	91.9		150.03
Hebei	Qian'a		e Concentrate	'	950	0.0		690	950		138.09		-0.10%	100.		138.24
Liaoning	Ansha		e Concentrate		720	2.1		465	745		104.66		2.02%	68.2		104.66
Shandong Week Endin	Zibo g July 26th, 20		e Concentrate	+ -	1040 week Ch	0.0° ange %	% Low ²	660 High ²	1040		151.18 MR/USD - 6	8 -0.10% 99.75 151.33 = 6.8862 ² Last 12 months ³ Since June 1			151.33	
	Concentrate (dex RMB/WT	_		1.0%	558.71	859.50		exchange rate a				Since June 1		
IRON ORE PORT INDEX, FOT QINGDAO (RMB/WT)									IRON	ORE SEAE	ORNE I	NDEX	, CFR QING	GDAO (USD	/DMT)	
1050 —	1050															
950							A	135								M.
850							~~~	125 ——— 115 ———							كهمي	Mm
750 -	~~~	~ ~(h		~~~~	لهمركم		105 ——— 95 —— —	~~	/ ~~	\		1	~~~	مكهم	
550		~~~	سسمما					85 —— 75 ——			~~					
450			سمسمسما					65	~~		\sim					
350 -	, ,							55 ——— 45 ———		-		,				
301111.78 301111.78	TRUE 18 30 SERVE	1.04.18 30.Nov.	31Dec 18 31Jani	28×80,79	AMaria 30 Aprila	, May 19 30 Jun 19	>	3014178	ing sping	31-0t.18	1.18 31:Dec	37:125	1.19 28 Febr. 19	Mar.19 30 Apr.19	51:May 129	129
3° 3°	3 30 6					×, 20		, 30	30 /	n' no					2, 3,	
		10	PI 62 I	O PI 58 •	IO PI 65							IO SI62	<u> </u>	5165		
			IR	ON ORE	PORT STOC	K INDEX M	ONTHLY, C	QUARTERLY	AND YEA	R-TO-DA	TE AVEI	RAGES	5			
July 30th,	1				o (inc. 13% VA									% VAT), USD,		
Index	Fe Conten		•	May		MTD	QTD	YTD	March	•		/lay	June	MTD	QTD	YTD
IOPI62 IOPI58	62% Fe Find		675 600	729 637		909 808	909 808	717 625	87.09 75.22	85.37 77.49		3.40 5.39	111.42 98.60	123.31 110.39	123.31 110.39	96.38 83.99
IOPI65	65% Fe Fin		753	812		955	955	792	98.08	95.78		0.00	121.97	129.65	129.65	106.89
IROI	N ORE SEAB	ORNE IND	EX MONTHL	Y, QUA	RTERLY AND	YEAR-TO-I	DATE AVER	RAGES				FR	EIGHT RA	TES		
July 30th, 2	2019			CFR	Qingdao, USD	/dry tonne			July 29th, 2	019			FREIGHT R	ATES - DRY BUL	.K US\$/wet to	onne
Index	Fe Conten	t March	April	May	, June	MTD	QTD	YTD	Route	D	esignation		Change	Change %	Low ²	High ²
IOSI62	62% Fe Fin		•	98.6		120.90	120.90		W. Australia	- Qingdao	C5	9.71	0.03	0.33%	4.39	11.15
IOSI65	65% Fe Fin	es 97.22	106.75	115.5	3 124.49	129.71	129.71	109.39	Tubarao - Qi	ngdao	С3	23.41	0.26	1.14%	11.61	27.52
			IR	ON OR	PORT LUM	P INDEX M	ONTHLY, O	UARTERLY	AND YEA	R-TO-DAT	E AVER	AGES				
Week Endin 2019	g July 26th,		FOT	Qingdao	(inc. 16% VA	T), RMB/we	t tonne			CFR Qin	gdao Eq	uivaleı	nt (exc. 169	% VAT), USD,	dry tonne	1
Index	Fe Conter	t Marci	n April	Ma	y June	MTD	QTD	YTD	March	Apri	l r	May	June	MTD	QTD	YTD
IOPLI62	62.5% Fe Lur	np 858	872	919	9 1009	1046	1046	905	99.57	111.0	3 11	7.12	128.00	132.99	132.99	115.87
						IRON ORE	INDEX PRE	MIUMS/DI	SCOUNTS	;						
July 30th, 2	019			PORT	STOCK INDEX (I	RMB/WT)		July 30th, 20	019				SEABOR	NE INDEX (US	D/DMT)	
Index		Content		to IOPI6	2	% Spread to		Index	F	e Content		Sprea	ad to IOSI62		% Spread to	IOSI62
IOPI58		Fe Fines Fe Fines		-85 35		-9.42% 3.88%		IOSI65	6	5% Fe Fines			7.30		6.069	%
	557	25				2.0070		1		33			-		2.20	

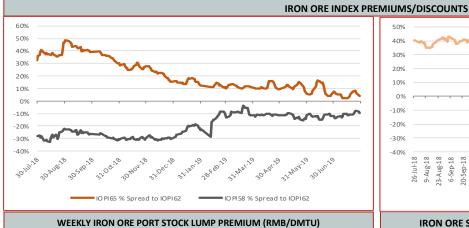




IRON ORE BRAND SPOT PRICE ASSESMENTS										
July 30th, 2019	PORT	STOCK INDEX (R	MB/WT)	July 30th, 2019	SEABO	SEABORNE INDEX (USD/DMT)				
	Price	Change	Diff to IOPI62		Price	Change	Diff to IOSI62			
Roy Hill	852	9	-50	Roy Hill	118.00	3.05	-2.45			
SIMEC Fines	784	11	-118	SIMEC Fines	116.25	3.05	-4.20			
PB Fines	885	8	-17	PB Fines	119.95	3.05	-0.50			
Newman Fines	907	9	5	Newman Fines	121.56	3.05	1.11			
MAC Fines	865	9	-37	MAC Fines	116.15	3.05	-4.30			
Jimblebar Blended Fines	855	10	-47	Jimblebar Blended Fines	110.35	3.05	-10.10			
Carajas Fines	940	-1	38	Carajas Fines	127.71	3.05	7.26			
Brazilian SSF	795	10	-107	Brazilian SSF	120.76	3.05	0.31			
Brazilian Blend Fines	887	29	-15	Brazilian Blend Fines	121.64	3.05	1.19			
RTX Fines	869	11	-33	RTX Fines	113.85	3.05	-6.60			
West Pilbara Fines	849	9	-53	West Pilbara Fines	117.20	3.05	-3.25			

July 30th, 2019	PORT	PORT STOCK INDEX (RMB/WT)						
	Price	Change	Diff to IOPI58					
SSF	735	-3	-82					
FMG Blended Fines	819	-1	2					
Robe River	743	-1	-74					
Western Fines	753	-7	-64					
Atlas Fines	740	-6	-77					
Yandi	805	-7	-12					

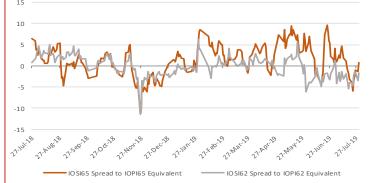
				IRON ORE IN	NDEX NORMA	LISATION DIFFER	ENTIALS				
Por	t Stock Index	Product Differ	entials (R	RMB/wet tonne)	Sea	aborne Inde	x Product Di	ferentials (USD/dry tonne)
	Apı	plicable range		Value	Change		A	pplicable ran	ge	Value	Change
	High Grade	e Fe 60 - 63%		6.00	1.00		High Grad	de Fe 60 - 639	6	1.50	0.00
	High Grade	e Fe 63 - 64%		10.00	-3.00		High Grad	de Fe 63 - 649	6	1.75	0.00
1% Fe	High Grade	e Fe 64 - 65%		10.00	-3.00	1% Fe	High Grad	High Grade Fe 64 - 65%		1.75	0.00
	High Grade	e Fe 65 - 65.5%	.	10.00	-3.00		High Grad	de Fe 65 - 65.	5%	1.75	0.00
	Low Grade	Fe		22.00	0.00						
	High Fe Gra	High Fe Grade Al <2.25% High Fe Grade Al 2.25-4%		7.00	-3.00		High Fe G	High Fe Grade Al <2.25%		1.25	0.00
1% Alumina	High Fe Gra			6.00	-2.00	40/ 41	High Fe G	rade Al 2.25-	4%	1.00	0.00
	Low Fe Gra	de Al <2.25%		25.00	-6.00	1% Alumina					
	Low Fe Gra	de Al 2.25-4%		49.00	0.00						
	High Fe Gra	ade Si <4%		1.00	0.00		High Fe G	rade Si <4%		0.50	0.00
L% Silica	High Fe Gra	de Si 4-6.5%		53.00	-2.00	1% Silica	High Fe G	rade Si 4 - 6.	5%	0.50	0.00
	Low Fe Gra	de		22.00	3.00						
	High Fe Gra	nde 0.09% <p<0< td=""><td>0.115%</td><td>0.00</td><td>0.00</td><td>0.01%</td><td>High Fe G</td><td colspan="2">High Fe Grade 0.09%<p<0.115%< td=""><td>1.00</td><td>0.00</td></p<0.115%<></td></p<0<>	0.115%	0.00	0.00	0.01%	High Fe G	High Fe Grade 0.09% <p<0.115%< td=""><td>1.00</td><td>0.00</td></p<0.115%<>		1.00	0.00
0.01%	High Fe Gra	nde 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>0.75</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>0.75</td><td>0.00</td></p<0.15%<>	0.75	0.00
Phosphorus	Low Fe Gra	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 9	Stock Price Differe	ntials to Qingd	ao Port for PB Fine	s (RMB/wet t	onne)			
Port	Value	Change	Port	t Value	Change	Port	Value	Change	Port	Value	Change
Bayuquan	-45.00	0.00	Fangcher	ng -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	-10.00	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	-20.00	0.00	Tianjin	-15.00	0.00



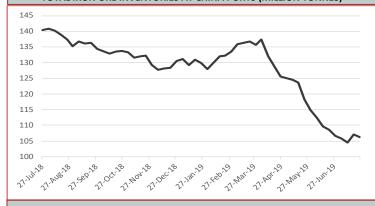








TOTAL IRON ORE INVENTORIES AT CHINA PORTS (MILLION TONNES)





IRON ORE PORT INVENTORIES (MILLION TONNES)

Week Ending July 26th, 2019										
Province	This week	Change %	Low ²	High ²						
Jingtang	11.70	1.56%	10.80	17.10						
Qingdao	12.38	-3.81%	12.38	19.01						
Caofeidian	14.60	-2.34%	14.48	20.10						
Tianjin	6.39	-2.44%	6.39	10.48						
Rizhao	12.72	2.75%	11.65	17.53						
Total (35 Ports)	106.30	-0.75%	104.40	140.74						

DRY BULK FREIGHT RATES (USD/MT)

		D	CE (RMB/WN	IT)	SGX (USD/DMT)			
2	Closing Date	Jul	y 30th 3pm c	lose	July 30th Feb 5.30 pm			
)	Contract	11909	Change	Change %	Aug'19	Change	Change %	
1	Closing Price	906.00	21.0	2.37%	117.13	3.01	2.64%	
)	Vol traded ('000 lots)	67.99	14.2	26.50%	16.30	5.88	56.35%	
8	Open positions ('000 lots)	98.24	-0.6	-0.63%	146.89	2.37	1.64%	
3	Day Low	882.0	1.5	0.17%	114.95	1.22	1.07%	
4	Day High	913.0	21.5	2.41%	117.50	2.70	2.35%	

IRON ORE FUTURES CONTRACTS

30 25 20

C5 - W. Australia - Qingdao



C3 - Tubarao - Qingdao

STEEL SPOT MARKET PRICES—CHINA

Steel Spot Market RMB/tonne								
Product	26/7/2019	Change	Change %					
ReBar HRB400 ф18mm	3,960.0	-85	-2.10%					
Wirerod Q300 ¢6.5mm	4,220.0	-20	-0.47%					
HRC Q235/SS400 5.5mm*1500*C	3,850.0	-46	-1.18%					
CRC SPCC/ST12 1.0mm*1250*2500	4,240.0	37	0.88%					
Medium & Heavy Plate Q235B 20mm	3,920.0	-26	-0.66%					
GI ST02Z 1.0mm*1000*C	4,570.0	10	0.22%					
Colour Coated Plate	7,000.0	100	1.45%					

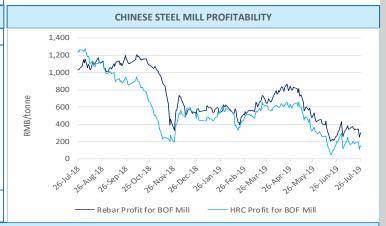


CHINESE STEEL MILL PROFITABILITY

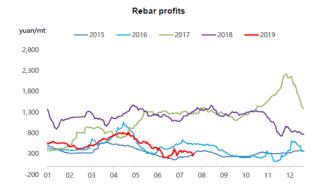
SMM Tracking of Steel Mill P&L - Rebar and Hot-rolled Coil (RMB/tonne)									
Category	Price	Change (WoW)	Note						
MMi (Fe 62%), USD/mt exluding tax	117.50	-2.75	Mmi CFR Equivalent index for 1st Feb						
Coke	2,010	100	2nd grade met coke, Tangshan, incl. tax						
Steel Scrap	2,370	0	steel scrap (6mm) in Zhangjiagang, exl. tax						
Billet Cost	3,394	18	Q234, incl. tax						
Rebar cost - Blast furnace	3,644	17	calculated based on theoretical weight, incl. tax						
Rebar profit - Blast furnace	306	-37	based on Shanghai prices, incl. tax						
Hot-rolled coil cost - Blast furnace	3,710	18	based on actual weight, incl. tax						
Hot-rolled coil proft - Blast furnace	122	-66	based on Shanghai prices, incl. tax						

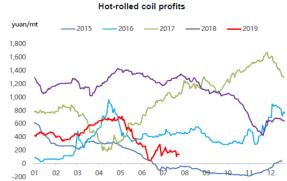
Note: 1 Costs in the table are caluclated based on todays market prices and facout our management, sales, financial and depreciations fees.

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

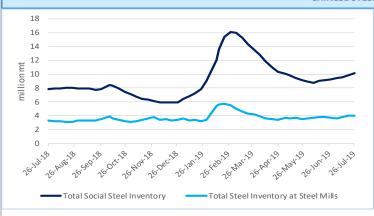


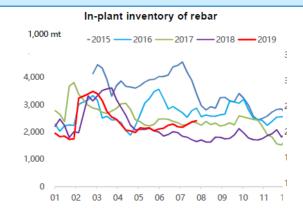
CHINESE STEEL MILL PROFITABILITY





CHINESE STEEL INVENTORIES





	IRON ORE INDEX SPECIFICATIONS, COMPILATION RATIONALE AND DATA EXCLUSIONS										
	Iron Ore	Index Specifications	(Port and Seaborne)	Iron Ore Ind	ex Compilation	Rationale and Da	ata Exclusions			
	65% Fe Fines	62% Fe Fines	58% Fe Fines	62.5% Fe Lump	MMi iron ore indice	es are compiled fron	n 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 b						
Alumina %	1.40	2.25	2.25	1.50	these companies. This data is normalised to the appropriate 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.			ge prices are			
Phosphorus %	0.06	0.09	0.05	0.08	For more details on MMi's iron ore methodology please download the guide			nload 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 be	elow 10mm for at lea	st 90% of cargo:	Size below 6.3mm max 15%		Data Ex	clusions*	65%			
Sizing		ım of 40% below 150	•	Size above 31.15mm max 25%	Port Index Seaborne index	0	0	0			
Pricing Point	Qingdao P	ort (FOT and CFR res	pectively)	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						

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	PPLIED FOR BRAND PRICE A	SSESSMEN	TS						
	PORT	STOCK BRAN	IDS			SEABORNE BRANDS						
July 30th, 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	61.49%	2.35%	3.85%	0.100%	9.37%	PB Fines 62%	62.00%	2.60%	4.30%	0.090%	10.00%	
Newman Fines	62.57%	2.26%	3.97%	0.079%	7.82%	Newman Fines	62.80%	2.20%	4.30%	0.080%	6.40%	
MAC Fines	60.87%	2.24%	4.65%	0.081%	7.57%	MAC Fines	61.00%	2.70%	4.70%	0.110%	9.30%	
Jimblebar Blended Fines	60.89%	2.98%	4.42%	0.113%	7.34%	Jimblebar Blended Fines	59.50%	3.70%	5.80%	0.135%	8.30%	
Carajas Fines	65.54%	1.23%	1.43%	0.068%	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	63.04%	1.56%	4.36%	0.078%	8.71%	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%	
July 30th, 2019	Specifi	cations appli	ed for 58%	brand asses	sments							
	Fe	Alumina	Silica	Phos	Moisture							
SSF	56.70%	3.08%	6.32%	0.059%	8.34%							
FMG Blended Fines	58.21%	2.59%	5.48%	0.062%	7.43%							
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	57.33%	1.51%	6.30%	0.041%	8.85%							

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

CONTACT US

RG TICKERS

MMI Singapore Office Details: Level 28, Manulife Tower, 8 Cross Street Singapore. Tel: + 65 6850 7629 E: jarek@mmiprices.com SMM Singapore Office Details: Level 28, Manulife Tower, 8 Cross Street Singapore. Tel: + 65 6850 7630 E: service.en@smm.cr SMM Shanghai Office Details: 9th FL, Building 9, Lujiazui Software Park, No.20, Lane 91, Pudong, Shanghai Tel: +86 021 5155 0306 E: service.en@smm.cn

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