

MMi Dashboard

Iron Ore Price Indices





-16 -2.17%

August 13th 2019

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



815

-0.73%

August 13th 2019

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



668

-1.04%

August 13th 2019

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



89.75

-6.05 -6.32%

August 13th 2019

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



102.40

-4.45 -4.16%

August 13th 2019

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



4.77%

Week Ending August 9th, 2019

Exchange Traded Contracts

DCE Iron Ore 62% Fines 12001 (Jan) RMB/t



627.50

-11.00 -1.72%

August 13th 2019

(3pm close)

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



86.22

-1.80 -2.04%

August 13th 2019 (6.00 pm Print)

SHFE Rebar RB1910 (Oct) RMB/t



3677

86.00 2.39%

August 13th 2019

(3pm close)

Freight Rates

C3, Tubarao - Qingdao USD/t



August 12th, 2019

21.35

0.09

0.43%

C5, W. Australia - Qingdao USD/t



9.22

0.05 0.59%

August 12th, 2019

Steel Price

Steel Rebar (China Domestic) RMB/t



3700

-160 -4.15%

Week Ending August 9th, 2019

Inventory Levels

Iron Ore Inventory at Chinese Ports (35) million tonnes



107.84

-1.30 -1.19%

Week Ending August 9th, 2019

Steel Inventory in China million tonnes



14.83

0.28 1.93%

Week Ending August 9th, 2019

Steel Price

Steel HRC (China Domestic) RMB/t



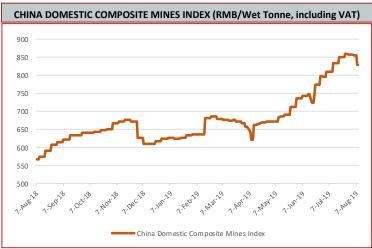
3650

-120 -3.18%

Week Ending August 9th, 2019

MMi D	aily Iron (Ore Inde	ex Report											Augus	t 13th 2	2019
						IRON OR	RE PORT S	TOCK INDEX	((IOP	기)						
August 13	th 2019		FOT (Qingdao	(inc. 13% VA	Γ), RMB/wet	tonne			CFR C	Qingdao I	quivale	nt (exc. 13%	% VAT), USD,	dry tonne	1
Index	Fe Conten	Price	Change	Change	e % MTD	YTD	Low ²	High ²	Pr	rice Cha	ange C	hange %	6 MTD	YTD	Low ²	High ²
IOPI62	62% Fe Fine	722	-16	-2.29	6 805	724	492	928	94	1.92 - <mark>2</mark>	.35	-2.4%	107.19	97.38	63.83	126.12
IOPI58	58% Fe Fine	668	-7	-1.09	6 749	634	347	823	88	3.50 -1	.11	-1.2%	100.58	85.36	43.55	112.44
IOPI65	65% Fe Fine	s 815	-6	-0.79	6 865	797	654	992	107	7.64 -1	.00	-0.9%	115.53	107.68	85.47	135.34
			RON ORE SE	ABORN	E INDEX (IOS	SI)						MARK	CET COMM	ENTARY		
August 13	th 2019			CFR (Qingdao, USD,	dry tonne			rebar a	and wire rod, suppo	orting both phy	sical and futi	ures markets. Accor	oction of around 400 rding to SMM, price:	s of Shandong stee	el prices climbed
Index	Fe Conten	Price	Change	Change	e % MTD	YTD	Low ²	High ²						n cut plan remain u s are unwilling to er		
IOSI62	62% Fe Fine	s 89.75	-6.05	-6.32	% 102.07	96.36	62.95	127.50		orced to buy due to rt to pricing.	the low ore ir	iventories at	the plants. Total tra	ansactions conclude	d rose today, prov	viding some slight
IOSI65	65% Fe Fine	s 102.40	-4.45	-4.16	% 110.44	109.55	83.20	137.95								
Week Endir	ng August 9th,	1						JMP INDEX	(IOPL							2
2019	1				(inc. 16% VAT				_			•	•	6 VAT), USD/		
Index	Fe Conten		W-o-W	Change		YTD	Low ²	High ²				nange %		YTD	Low ²	High ²
IOPLI62	62.5% Fe Lum	p 958	-48	-4.89		908	618	1051				-6.17%	123.55	116.37	80.29	133.81
			IRO	N ORE	DOMESTIC C				SIVIEÑ	NIS AND CO	UMPOSI	IE IND				
	ing August 9t						nne (exclu	<u> </u>		P. 1. 2			•	(excluding t		10.1.2
Province	Regio			Basis	This week	ŭ		Low ²		High ²	This we		Change %	Low		High ²
Hebei	Hanxi		e Concentrate	'	994	-0.8%		630		1032	142.3		-2.11%	91.9		150.03
Hebei	Qian'a		e Concentrate	'	925	-3.69		690		960	132.4		-4.92%	100.		139.35
Liaoning	Ansha		e Concentrate		720	0.0%		465		745	103.1		-1.32%	68.2		104.66
Shandong	Zibo g August 9th, 2		e Concentrate	+ -							-8.10%	99.75 151.33				
	Concentrate (dex RMB/WT	_			567.06	High ² 859.50		eekly exchange ra				nonuis		
	IROI	N ORE POF	RT INDEX, FO	T QING	DAO (RMB/	WT)			IR	ON ORE SE	ABORN	E INDEX	X, CFR QING	GDAO (USD	/DMT)	
1050	1050															
950 -						$\Lambda \Delta V$	4	135 —							~/	50.
850 —					/		7	125 —— 115 ——							المركم كمم	lmy
750 — 650 —	~~~~	~~~~	~~/	~~~	~~~~		-b	105 —— 95 ~~	~	<u>~~</u>			~~~		מגיינו	<u> </u>
550		~~~	/	رسيد	~~~			85 —	1		ha	لسمه	لسمم			
450 -				J				75 65		سمسر	\sim	_,	,			
350 F								55 ——— 45 ———								
131AUB 18	358012 130E12	3.40v.18	\$ 13/8n/9 13/68b/	13-Mar.19	13 Apr. 13 May 19	Shurts 13hurts	37AU819	9. AUB 18 9.5EF	,	or Moring	3-Dec-18	aning gifel	p.19 9.1481.19 9.	POL' 18 8'WAY 18	Jun. 19 0.141.	19 AUE 19
23, v	``````````````````````````````	3, 3,	3, 3,	138 V	3, 3, 1	ş, ₂ , 7	3,	9. 9.	9	9, 9	y. 2	9,	9, 9	95	9 9	9.
		10	PI 62 I	O PI 58 •	IO PI 65							O SI62	10 9	5165		
			IR	ON ORE	PORT STOC	K INDEX MO	ONTHLY, C	QUARTERLY	AND	YEAR-TO-I	DATE AV	ERAGE	S			
August 13	1			Qingdad	(inc. 13% VA					CFR	Qingdao	Equivale	ent (exc. 139	% VAT), USD,		
Index	Fe Conten		May	June	•	MTD	QTD	YTD		•	/lay	June	July	MTD	QTD	YTD
IOPI62 IOPI58	62% Fe Fine		729 637	825 726	909 809	805 749	880 792	724 634			3.40 5.39	98.60	123.29 110.47	107.19 100.58	118.76 107.69	97.38 85.36
IOPIS8	65% Fe Fine		812	901	954	749 865	929	797				98.60 121.97	129.53	115.53	125.59	107.68
			EX MONTHL							31,0 11	0.00		REIGHT RA		123.33	107100
August 13					Qingdao, USD,				Augus	st 12th, 2019	Τ	T		ATES - DRY BUI	.K US\$/wet to	nne
Index	Fe Conten	t April	May	June	July	MTD	QTD	YTD	Route	e	Designati	on	Change	Change %	Low ²	High ²
IOSI62	62% Fe Fine	es 93.42	98.68	108.5	7 120.82	102.07	116.45	96.36	W. Aus	stralia - Qingdao	C5	9.22	0.05	0.59%	4.39	11.15
IOSI65	65% Fe Fine	es 106.75	115.53	124.4	9 129.53	110.44	125.07	109.55	Tubara	ao - Qingdao	СЗ	21.35	5 0.09	0.43%	11.61	27.52
			IR	ON ORE	PORT LUMI	INDEX MO	ONTHLY, O	UARTERLY	AND	YEAR-TO-D	OATE AV	ERAGES	S			
Week Endin 2019	g August 9th,		FOT	Qingdao	(inc. 16% VA	T), RMB/wet	tonne			CFR (Qingdao	Equivale	ent (exc. 169	% VAT), USD	dry tonne	1
Index	Fe Conten	t Marcl	n April	Ma	y June	MTD	QTD	YTD	Ma	arch A	pril	May	June	MTD	QTD	YTD
IOPLI62	62.5% Fe Lun	np 858	872	919	1009	1006	1038	908	99	9.57 11	1.03	117.12	128.00	123.55	129.84	116.37
						IRON ORE I	INDEX PRE	MIUMS/DI	scou	JNTS						
August 13tl	n 2019			PORT	STOCK INDEX (F	RMB/WT)		August 13th	2019				SEABOR	RNE INDEX (US	D/DMT)	
Index		Content		to IOPI6	2	% Spread to I		Index		Fe Conte	ent	Spre	ead to IOSI62		% Spread to	IOSI62
IOPI58		Fe Fines Fe Fines		-54 93		-7.48% 12.88%		IOSI65		65% Fe Fii	nes		12.65		14.09	%

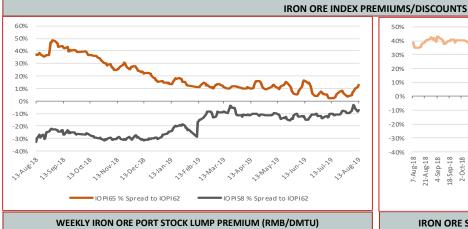




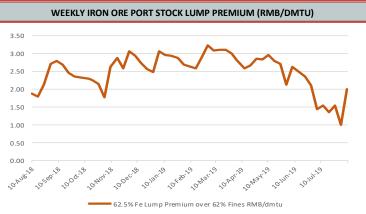
IRON ORE BRAND SPOT PRICE ASSESMENTS										
August 13th 2019	PORT	STOCK INDEX (R	MB/WT)	August 13th 2019	SEABO	RNE INDEX (US	D/DMT)			
	Price	Change	Diff to IOPI62		Price	Change	Diff to IOSI62			
Roy Hill	685	-17	-37	Roy Hill	84.75	-5.15	-5.00			
SIMEC Fines	640	-20	-82	SIMEC Fines	81.25	-3.75	-8.50			
PB Fines	708	-16	-14	PB Fines	88.05	-5.75	-1.70			
Newman Fines	726	-15	4	Newman Fines	91.99	-5.70	2.24			
MAC Fines	696	-18	-26	MAC Fines	82.75	-5.35	-7.00			
Jimblebar Blended Fines	668	-19	-54	Jimblebar Blended Fines	70.77	-4.75	-18.98			
Carajas Fines	827	-6	105	Carajas Fines	102.94	-4.77	13.19			
Brazilian SSF	678	-12	-44	Brazilian SSF	90.69	-2.30	0.94			
Brazilian Blend Fines	728	-11	6	Brazilian Blend Fines	92.31	-4.30	2.56			
RTX Fines	672	-18	-50	RTX Fines	78.97	-6.05	-10.78			
West Pilbara Fines	681	-19	-41	West Pilbara Fines	83.15	-5.35	-6.60			

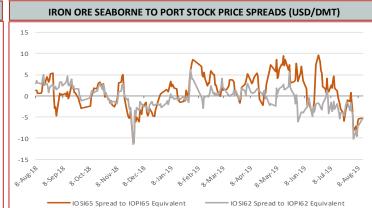
August 13th 2019	PORT STOCK INDEX (RMB/WT)					
	Price	Change	Diff to IOPI58			
SSF	648	-2	-20			
FMG Blended Fines	678	-6	10			
Robe River	647	-1	-21			
Western Fines	654	-5	-14			
Atlas Fines	642	-3	-26			
Yandi	668	-8	0			

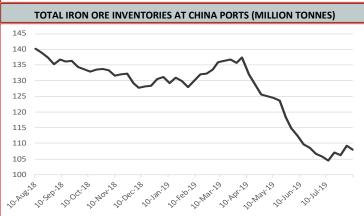
				IRON ORE IN	IDEX NORMA	LISATION DIFFER	ENTIALS				
Por	t Stock Index	Product Differ	entials (R	MB/wet tonne		Sea	aborne Inde	x Product Di	fferentials (USD/dry tonne	e)
	Ар	plicable range		Value	Change		А	pplicable ran	ge	Value	Change
	High Grade	e Fe 60 - 63%		6.00	2.00		High Grad	de Fe 60 - 63	%	3.00	0.00
	High Grade	High Grade Fe 63 - 64%		20.00	0.00		High Grad	de Fe 63 - 64	%	2.50	0.25
1% Fe	High Grade	High Grade Fe 64 - 65%			0.00	1% Fe	High Grad	de Fe 64 - 65	%	2.50	0.25
	High Grade	High Grade Fe 65 - 65.5%			0.00		High Grad	de Fe 65 - 65	.5%	2.50	0.25
	Low Grade	Low Grade Fe			-2.00						
	High Fe Gra	h Fe Grade Al <2.25%		25.00	3.00		High Fe G	rade Al <2.2	5%	2.75	1.00
1% Alumina	High Fe Gra	High Fe Grade Al 2.25-4%		21.00	0.00	40/ 41	High Fe G	rade Al 2.25	-4%	4.00	0.00
	Low Fe Gra	Low Fe Grade Al <2.25%		17.00	-3.00	1% Alumina					
	Low Fe Gra	de Al 2.25-4%		7.00	-3.00						
	High Fe Gra	ade Si <4%		8.00	0.00		High Fe G	rade Si <4%		1.25	0.00
1% Silica	High Fe Gra	ade Si 4-6.5%		36.00	0.00	1% Silica	High Fe G	h Fe Grade Si 4 - 6.5%		1.00	-1.00
	Low Fe Gra	v Fe Grade		10.00	0.00						
0.040/	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%<</td><td>P<0.115%</td><td>0.75</td><td>0.00</td></p<0<>	.115%	0.00	0.00	0.01%	High Fe G	rade 0.09%<	P<0.115%	0.75	0.00
0.01%	High Fe Gra	ade 0.115% <p<< td=""><td>0.15%</td><td>6.00</td><td>0.00</td><td>Phosphorus</td><td>High Fe G</td><td>rade 0.115%</td><td><p<0.15%< td=""><td>1.00</td><td>0.25</td></p<0.15%<></td></p<<>	0.15%	6.00	0.00	Phosphorus	High Fe G	rade 0.115%	<p<0.15%< td=""><td>1.00</td><td>0.25</td></p<0.15%<>	1.00	0.25
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 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	-25.00	0.00	Fangchen	g -5.00	0.00	Lanshan	0.00	0.00	Qingdao	0.00	0.00
Beilun	5.00	0.00	Jiangyin	-40.00	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	-40.00	0.00	Lanqiao	0.00	0.00	Nantong	-40.00	0.00	Tianjin	-35.00	0.00









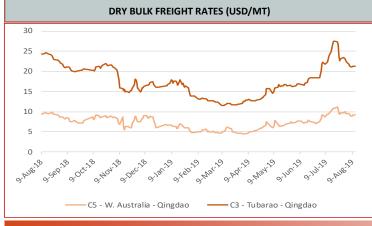




II	IRON ORE PORT INVENTORIES (MILLION TONNES)										
Week Ending August 9th, 2019											
Province	This week	Change %	Low ²	High ²							
Jingtang	12.30	-2.92%	10.80	16.70							
Qingdao	13.07	3.16%	12.38	19.01							
Caofeidian	14.61	-4.01%	14.48	20.10							
Tianjin	7.04	2.92%	6.39	10.40							
Rizhao	11.81	-4.91%	11.65	17.39							
Total (35 Ports)	107.84	-1.19%	104.40	140.16							

	D	CE (RMB/WN	IT)	SGX (USD/DMT)			
Closing Date	Au	g 13th 3pm c	lose	Aug 13th 5.30 pm			
Contract	12001	Change	Change %	Sep'19 Change Ch			
Closing Price	627.50	-11.0	-1.72%	86.22	-1.80	-2.04%	
Vol traded ('000 lots)	290.46	-15.2	-4.96%	21.08	9.37	79.98%	
Open positions ('000 lots)	140.52	4.1	2.97%	165.05	6.18	3.89%	
Day Low	616.0	6.5	1.07%	85.33	1.75	2.09%	
Day High	643.0	-0.5	-0.08%	88.04	-0.39	-0.44%	

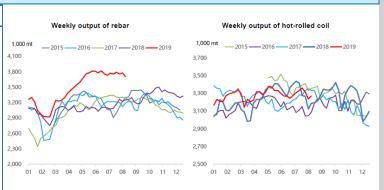
IRON ORE FUTURES CONTRACTS





STEEL SPOT MARKET PRICES—CHINA

Steel Spot Market RMB/tonne								
Product	9/8/2019	Change	Change %					
ReBar HRB400 ф18mm	3,700.0	-160	-4.15%					
Wirerod Q300 ¢6.5mm	3,960.0	-160	-3.88%					
HRC Q235/SS400 5.5mm*1500*C	3,650.0	-120	-3.18%					
CRC SPCC/ST12 1.0mm*1250*2500	4,220.0	-20	-0.47%					
Medium & Heavy Plate Q235B 20mm	3,820.0	-50	-1.29%					
GI ST02Z 1.0mm*1000*C	4,520.0	-30	-0.66%					
Colour Coated Plate	7,100.0	50	0.71%					



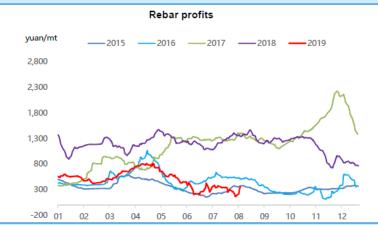
CHINESE STEEL MILL PROFITABILITY										
SMM Tracking of Steel Mill P&L - Rebar and Hot-rolled Coil (RMB/tonne)										
Category	Price	Change (WoW)	Note							
MMi (Fe 62%), USD/mt exluding tax	95.80	-21.95	Mmi CFR Equivalent index for 1st Feb							
Coke	2,010	0	2nd grade met coke, Tangshan, incl. tax							
Steel Scrap	2,360	-60	steel scrap (6mm) in Zhangjiagang, exl. tax							
Billet Cost	3,160	-420	Q234, incl. tax							
Rebar cost - Blast furnace	3,411	-222	calculated based on theoretical weight, incl. tax							
Rebar profit - Blast furnace	259	92	based on Shanghai prices, incl. tax							
Hot-rolled coil cost - Blast furnace	3,477	-252	based on actual weight, incl. tax							
Hot-rolled coil proft - Blast furnace	173	132	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



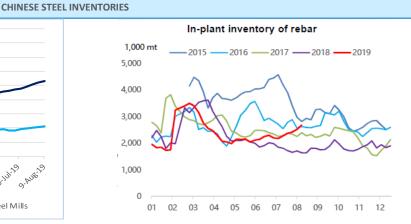
CHINESE STEEL MILL PROFITABILITY





Hot-rolled coil profits

Total Social Steel Inventory Total Steel Inventory at Steel Mills



IDON ODE INDEX COECIEICATIONS	COMPILATION RATIONALE AND DATA EXCLUSIONS
INDIVIONE INDEX SPECIFICATIONS.	CONTRICATION RATIONALE AND DATA EXCLUSIONS

	IKON 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 by								
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.								
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	ist 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 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								

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	PPLIED FOR BRAND PRICE A	SSESSMEN	TS			
	PORT	STOCK BRAN	IDS			SEABORNE BRANDS					
August 13th 2019	Specifi	cations applie	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	61.49%	2.36%	3.83%	0.100%	9.38%	PB Fines 62%	62.00%	2.60%	4.30%	0.090%	10.00%
Newman Fines	62.54%	2.26%	4.00%	0.081%	7.87%	Newman Fines	62.80%	2.20%	4.30%	0.080%	6.40%
MAC Fines	60.86%	2.24%	4.64%	0.080%	7.59%	MAC Fines	61.00%	2.70%	4.70%	0.110%	9.30%
Jimblebar Blended Fines	60.83%	2.99%	4.45%	0.114%	7.34%	Jimblebar Blended Fines	59.50%	3.70%	5.80%	0.135%	8.30%
Carajas Fines	65.57%	1.24%	1.39%	0.068%	8.37%	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%
August 13th 2019	Specifi	cations appli	ed for 58%	brand asses	sments						
	Fe	Alumina	Silica	Phos	Moisture						
SSF	56.67%	3.08%	6.33%	0.059%	8.27%						
FMG Blended Fines	58.22%	2.58%	5.47%	0.061%	7.64%						
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	57.32%	1.50%	6.32%	0.041%	8.83%						

		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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