

MMi Dashboard

Iron Ore Price Indices

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



756

0.80%

September 10th 2019

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



790

7 0.89%

September 10th 2019

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



-0.30%

September 10th 2019

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



92.20

1.25 1.37%

September 10th 2019

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



97.85

1.00 1.03%

September 10th 2019

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



777

1.83% 14

Week Ending September 6th, 2019

Exchange Traded Contracts

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

655.50

0.00 0.00%

September 10th 2019

(3pm close)

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



90.88

-0.86 -0.94%

September 10th 2019

(6.00 pm Print)

SHFE Rebar RB2001 (Jan) RMB/t



-18.00 -0.51%

September 10th 2019

(3pm close)

Freight Rates

C3, Tubarao - Qingdao USD/t



27.55

-0.41 -1.47%

September 9th, 2019

C5, W. Australia - Qingdao USD/t



10.86

-0.36 -3.20%

September 9th, 2019

Steel Price

Steel Rebar (China Domestic) RMB/t



3670

70 1.94%

Week Ending September 6th, 2019

Inventory Levels

Iron Ore Inventory at Chinese Ports (35) million tonnes



110.30

-0.35 -0.32%

Week Ending September 6th, 2019

Steel Inventory in China million tonnes



13.94

-0.53 -3.66%

Week Ending September 6th, 2019

Steel Price

Steel HRC (China Domestic) RMB/t

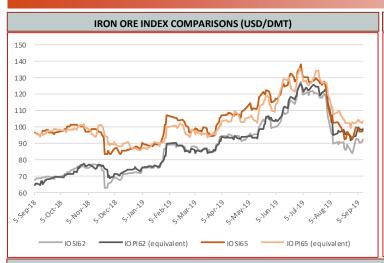


3650

20 0.55%

Week Ending September 6th, 2019

MMi D	aily Iro	on Or	e Inde	x Report												Septe	mber 1	0th 2019
	IRON ORE PORT STOCK INDEX (IOPI)																	
Septembe	er 10th 20	019		FOT (Qingdao	(inc. 13%	VAT), RMB	/wet to	nne		CFR Qingdao Equivalent (exc. 13% VAT), USD/dry tonne ¹							
Index	Fe Con	itent	Price	Change	Change	e % N	ITD Y	TD	Low ²	High ²	Pr	ice Cha	ange	Change %	MTD	YTD	Low ²	High ²
IOPI62	62% Fe	Fines	756	6	0.8%	6 7	49 7	25	497	928	98	.84 0.	.82	0.8%	97.81	97.24	64.11	126.12
IOPI58	58% Fe	Fines	672	-2	-0.39	% 6	55 6	36	374	823	88	.40 - <mark>0</mark>	.27	-0.3%	86.06	85.42	46.88	112.44
IOPI65	65% Fe	Fines	790	7	0.9%	6 7	89 7	97	654	992	103	3.46 0.	.96	0.9%	103.30	107.24	85.47	135.34
			IR	ON ORE SE	ABORN	E INDEX	(IOSI)							MARK	ET COMMI	ENTARY		
Septembe	r 10th 20	019			CFR (Qingdao,	USD/dry to	nne								offer gap increasing to continue restocki		
Index	Fe Con	itent	Price	Change	Change	e % N	ITD Y	ΓD	Low ²	High ²						t while PB lump, trad ump has held its bett		
IOSI62	62% Fe	Fines	92.20	1.25	1.37	% 91	91 95	.51	62.95	127.50	Mills' ra will imp		blast furn	ace mix has increa	sed from mid-Augu	ust. It is predicted th	e demand for lun	np in the future
IOSI65	65% Fe	Fines	97.85	1.00	1.03	% 98		3.10	83.20	137.95								
Week Ending September FOT Ginedos (inc. 150) VATT DARP (west tones)																		
6th, 2019							VAT), RMB							-		VAT), USD/	-	
Index	Fe Con		Price	W-o-W	Change		ITD Y		Low ²	High ²	Pr		∙oW	Change %	MTD	YTD	Low ²	High ²
IOPLI62	62.5% Fe	Lump	777	14	1.8%			96	691	1051	94		66	1.78%	94.90	114.16	87.28	133.81
	IRON ORE DOMESTIC CONCENTRATE SPOT PRICE ASSESSMENTS AND COMPOSITE INDEX																	
Week Endi	ing Septe	mber 6	th, 2019				RI	/IB/tonn	ne (exclud	ding tax) 3					USD/tonne	(excluding t	ax) ³	
Province		egion	Produc		Basis	This w		hange %	6	Low ²		igh ²		week	Change %	Low		High ²
Hebei		anxing		Concentrate	'	78		-2.2%		630		032		1.19	-2.34%	92.3		150.03
Hebei	'	ian'an		Concentrate	'	84		-1.2%		690		960		8.53	-1.29%	100.2		139.35
Liaoning		nshan		Concentrate		66 84		-4.3%		515		745		3.13	-4.46% -1.87%	75.4		104.66
Shandong Week Endin		bo ber 6th.		Concentrate	-	week	Change %	-1.8%	ow ²	725 High ²	_	040		8.53 USD = 7.0846 ² Li		106.2	23	151.33
China Mines				ex RMB/WT	_	1.70	-2.5%		9.04	859.50				ed: RMB/USD 7.0				
IRON ORE PORT INDEX, FOT QINGDAO (RMB/WT) IRON ORE SEABORNE INDEX, CFR QINGDAO (USD/DMT)									/DMT)									
1050 —										145								
950 —								5	_	135 ——							M	
850 —		1 1				1 N	V/~~	-//		125 ——— 115 ———						كهمي	Jun	
750 ~ 650 —		91	-	~~~~	~~~~	رمحسب	کہ	10	5	95	_~	~			~~~	لهمهم	•	W
550	مسسه	~~~	سمسرس	نہم حمد					_	85 ——— 75 ———		~~ h~	^		~~			
450 -			~~~							65	ممر	- ba	المسه					
350 — 250 —		,		,						55 ——— 45 ———	,			,			,	
702561.78	1004.18	ou'le lorder	ciso dolanis	Johan Johan	10461.18	Phohip	m.19 10111119	AUB 19 75	80.7°9	eisear eigh	18 6.NO	178 GDECTS	orlan-19	e. Febrio e Mari	by C'Warita	SALTO CHULTO	6.141.29 6.Aug	B CHEAT
\ \ \ \ \ \	è.	40						70										
			IO P	162 —— 1	O PI 58 •	IO F	165							IO SI62	IOS	5165		
										UARTERLY	AND							
Septembe		-				•	6 VAT), RMB				-			-		% VAT), USD/	-	
Index IOPI62	Fe Cor		May 729	June 825	July 909	Au g 7:	,	ITD 49	QTD	YTD 725		•	ine 1.42	July 123.29	August	MTD 97.81	QTD 110.08	YTD 97.24
IOPI62	58% Fe		637	726	809			49 55	824 738	636			3.60	110.47	100.18 91.86	86.06	99.31	97.24 85.42
IOPI65	65% Fe		812	901	954	82		89	876	797			1.97	129.53	108.92	103.30	117.28	107.24
IROI	N ORE S	EABOR	NE INDE	X MONTHL	Y, QUA	RTERLY	AND YEAR-	TO-DAT	TE AVER	AGES				FF	REIGHT RA	TES		
Septembe	r 10th 20	019			CFR	Qingdao,	USD/dry to	nne			Septe	mber 9th, 201	9		FREIGHT R	ATES - DRY BUL	K US\$/wet to	onne
Index	Fe Cor	ntent	May	June	July	Au	gust M	ITD	QTD	YTD	Route	!	Desig	nation	Change	Change %	Low ²	High ²
IOSI62	62% Fe	Fines	98.68	108.57	120.8	2 92	.61 91	.91	105.49	95.51	W. Aus	tralia - Qingdao		10.86	-0.36	-3.20%	4.39	11.42
IOSI65	65% Fe	Fines	115.53	124.49	129.5	3 101	34 98	.41	113.90	108.10	Tubara	o - Qingdao	-	27.55	-0.41	-1.47%	11.61	29.10
				IR	ON ORE	PORT L	UMP INDE	x MON	THLY, Q	UARTERLY	AND Y	/EAR-TO-D	ATE A	AVERAGES				
Week Endin 6th, 2019	ng Septem	ber		FOT	Qingdao	(inc. 169	6 VAT), RME	/wet to	onne			CFR (Qingd	ao Equivale	nt (exc. 16%	% VAT), USD,	dry tonne	1
Index	Fe Cor	ntent	May	June	July	y Au	igust N	1TD	QTD	YTD	N	lay Ju	ıne	July	August	MTD	QTD	YTD
IOPLI62	62.5% Fe	e Lump	919	1009	104	6 8	370 7	77	931	896	11	7.12 12	8.00	132.99	108.80	94.90	119.15	114.16
							IRON	ORE INI	DEX PRE	MIUMS/DI	scou	NTS						
September	10th 201						EX (RMB/W	-		September :	10th 2					NE INDEX (US		
Index IOPI58		Fe Con 58% Fe		•	to IOPI6 -84	2	•	ad to IOP	162	Index	Fe Content			Spre	ad to IOSI62		% Spread to	IOSI62
IOPIS8		65% Fe			-84 34	-11.11% 4.50%				IOSI65	65% Fe Fines		5.65 6.13%		%			
								-										





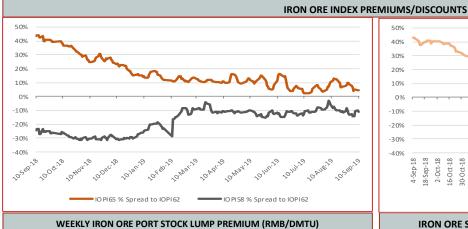
IRON ORE BRAND SPOT PRICE ASSESMENTS										
September 10th 2019	eptember 10th 2019 PORT STOCK INDEX (RMB/WT)				SEABORNE INDEX (USD/DMT)					
	Price	Change	Diff to IOPI62		Price	Change	Diff to IOSI62			
Roy Hill	719	6	-37	Roy Hill	90.32	1.47	-1.88			
SIMEC Fines	677	9	-79	SIMEC Fines	88.22	1.82	-3.98			
PB Fines	736	3	-20	PB Fines	91.12	1.32	-1.08			
Newman Fines	756	7	0	Newman Fines	92.25	1.33	0.05			
MAC Fines	731	5	-25	MAC Fines	89.92	1.42	-2.28			
Jimblebar Blended Fines	677	-4	-79	Jimblebar Blended Fines	82.80	1.70	-9.40			
Carajas Fines	793	8	37	Carajas Fines	97.90	1.25	5.70			
Brazilian SSF	686	14	-70	Brazilian SSF	89.70	1.88	-2.50			
Brazilian Blend Fines	738	9	-18	Brazilian Blend Fines	91.57	1.50	-0.63			
RTX Fines	693	1	-63	RTX Fines	86.37	1.37	-5.83			
West Pilbara Fines	714	5	-42	West Pilbara Fines	90.27	1.42	-1.93			

September 10th 2019	PORT STOCK INDEX (RMB/WT)						
	Price	Change	Diff to IOPI58				
SSF	612	-11	-60				
FMG Blended Fines	675	-4	3				
Robe River	619	-8	-53				
Western Fines	620	-12	-52				
Atlas Fines	608	-10	-64				
Yandi	654	-7	-18				

IRON ORE INDEX NORMALISATION DIFFERENTIALS												
Por	t Stock Index	Product Differ	entials (RMB/wet to	nne)	Seaborne Index Product Differentials (USD/dry tonne)						
	App	olicable range		Value	Change		A	pplicable rang	ge	Value	Change	
	High Grade	Fe 60 - 63%		7.00	2.00		High Grad	High Grade Fe 60 - 63%		0.50	0.00	
	High Grade	Fe 63 - 64%		10.00	10.00 0.00		High Grad	High Grade Fe 63 - 64%		1.75	0.00	
1% Fe	High Grade	Fe 64 - 65%		10.00	0.00	1% Fe	High Grad	de Fe 64 - 65%	6	1.75	0.00	
	High Grade	Fe 65 - 65.5%		10.00	0.00		High Grad	High Grade Fe 65 - 65.5%		1.75	0.00	
	Low Grade	Low Grade Fe			1.00							
	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	5.00	40/ 41	High Fe G	rade Al 2.25-	4%	2.00	0.00	
	Low Fe Gra	de Al <2.25%		15.00	-3.00	1% Alumina						
	Low Fe Gra	de Al 2.25-4%		30.00	6.00							
	High Fe Gra	ide Si <4%		3.00	0.00		High Fe G	rade Si <4%		0.50	0.00	
1% Silica	High Fe Gra	de Si 4-6.5%		34.00	-3.00	1% Silica	High Fe G	rade Si 4 - 6.	5%	1.25	-0.25	
	Low Fe Gra	Low Fe Grade			3.00							
	High Fe Gra	nde 0.09% <p<0< td=""><td>.115%</td><td>3.00</td><td>3.00</td><td>0.01%</td><td>High Fe G</td><td>rade 0.09%<f< td=""><td><0.115%</td><td>0.00</td><td>0.00</td></f<></td></p<0<>	.115%	3.00	3.00	0.01%	High Fe G	rade 0.09% <f< td=""><td><0.115%</td><td>0.00</td><td>0.00</td></f<>	<0.115%	0.00	0.00	
0.01%	High Fe Gra	nde 0.115% <p<< td=""><td>0.15%</td><td>5.00</td><td>-2.00</td><td>Phosphorus</td><td>High Fe G</td><td colspan="2" rowspan="2">High Fe Grade 0.115%<p<0.15%< td=""><td>1.50</td><td>0.00</td></p<0.15%<></td></p<<>	0.15%	5.00	-2.00	Phosphorus	High Fe G	High Fe Grade 0.115% <p<0.15%< td=""><td>1.50</td><td>0.00</td></p<0.15%<>		1.50	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></p<0.19<>	%	0.00	0.00	'						
			Port	Stock Price Dif	ferentials to Qingo	dao Port for PB Fine	s (RMB/wet t	onne)				
Port	Value	Change	Po	rt Val	ue Change	Port	Value	Change	Port	Value	Change	
Bayuquan	-35.00	0.00	Fangche	eng -5.0	0.00	Lanshan	0.00	0.00	Qingdao	0.00	0.00	
Beilun	5.00	0.00	Jiangyir	- 20.	0.00	Lianyungang	0.00	0.00	Rizhao	0.00	0.00	
Caofeidian	-20.00	0.00	Jingtang	- 20 .	0.00	Majishan	0.00	0.00	Shekou	0.00	0.00	
Dalian	-35.00	0.00	Lanqiao	0.0	0.00	Nantong	-20.00	0.00	Tianjin	-10.00	0.00	

3.50

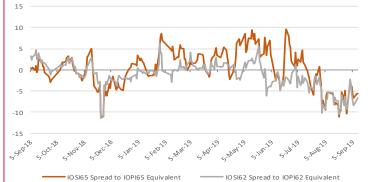
2.50 2.00 1.50



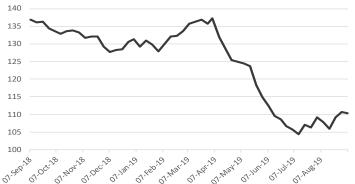




IRON ORE SEABORNE TO PORT STOCK PRICE SPREADS (USD/DMT)





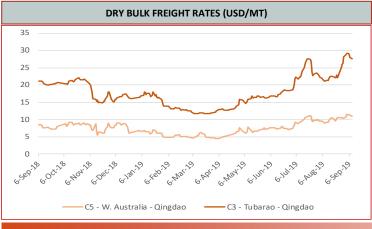




IRON ORE PORT INVENTORIES (MILLION TONNES)											
Week Ending September 6th, 2019											
Province	This week	Change %	Low ²	High ²							
Jingtang	12.85	-0.70%	10.80	16.37							
Qingdao	13.17	-0.75%	12.38	19.01							
Caofeidian	14.75	-3.53%	14.32	20.10							
Tianjin	7.09	-1.39%	6.39	10.05							
Rizhao	12.13	1.42%	11.65	17.10							
Total (35 Ports)	110.30	-0.32%	104.40	137.30							

	D	CE (RMB/WN	IT)	SGX (USD/DMT)				
Closing Date	Sep	ot 10th 3pm c	lose	Sep 10th 5.30 pm				
Contract	12001	1 Change Change %		Sep'19	Change	Change %		
Closing Price	655.50	0.0	0.00%	90.88	-0.86	-0.94%		
Vol traded ('000 lots)	238.41	-102.6	-30.10%	6.22	-0.46	-6.82%		
Open positions ('000 lots)	146.55	-10.0	-6.37%	157.69	1.76	1.13%		
Day Low	643.0	22.0	3.54%	90.88	1.55	1.74%		
Day High	660.0	4.0	0.61%	92.05	0.31	0.34%		

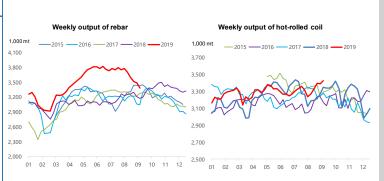
IRON ORE FUTURES CONTRACTS





STEEL SPOT MARKET PRICES—CHINA

Steel Spot Market RMB/tonne								
Product	6/9/2019	Change	Change %					
ReBar HRB400 ф18mm	3,670.0	70	1.94%					
Wirerod Q300 ¢6.5mm	3,970.0	90	2.32%					
HRC Q235/SS400 5.5mm*1500*C	3,650.0	20	0.55%					
CRC SPCC/ST12 1.0mm*1250*2500	4,250.0	30	0.71%					
Medium & Heavy Plate Q235B 20mm	3,760.0	10	0.27%					
GI ST02Z 1.0mm*1000*C	4,490.0	0	0.00%					
Colour Coated Plate	6,950.0	-50	-0.71%					



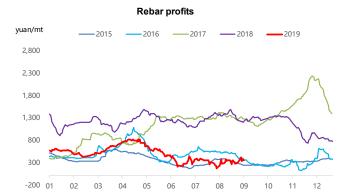
CHINESE STEEL MILL PROFITABILITY										
SMM Tracking of Steel Mill P&L - Rebar and Hot-rolled Coil (RMB/tonne)										
Category	Price	Change (WoW)	Note							
MMi (Fe 62%), USD/mt exluding tax	92.30	8.55	Mmi CFR Equivalent index for 1st Feb							
Coke	1,910	-100	2nd grade met coke, Tangshan, incl. tax							
Steel Scrap	2,270	50	steel scrap (6mm) in Zhangjiagang, exl. tax							
Billet Cost	3,062	56	Q234, incl. tax							
Rebar cost - Blast furnace	3,306	51	calculated based on theoretical weight, incl. tax							
Rebar profit - Blast furnace	344	29	based on Shanghai prices, incl. tax							
Hot-rolled coil cost - Blast furnace	3,378	55	based on actual weight, incl. tax							
Hot-rolled coil proft - Blast furnace	302	-5	based on Shanghai prices, incl. tax							

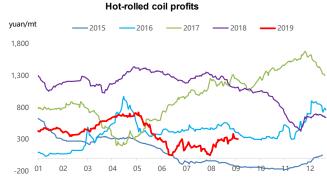
Note: 1 Costs in the table are caluclated based on todays market prices and facout our management, sales, financial and depreciations fees.

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

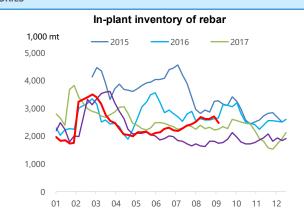


CHINESE STEEL MILL PROFITABILITY





Total Social Steel Inventory CHINESE STEEL INVENTORIES 18 16 14 12 18 16 14 2 0 Total Social Steel Inventory Total Steel Inventory at Steel Mills



Payment Terms

index calculations today as they were anomalous and could not be verified

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)

IRON ORE DOMESTIC CONCENTRATE INDEX CALCULATION METHODOLOGY

L/C at sight or CAD

L/C at sight

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	RAGE IRON	ORE SPECIF	ICATIONS A	PPLIED FOR BRAND PRICE A	SSESSMEN	TS				
	PORT	STOCK BRAN	IDS			SEABORNE BRANDS						
September 10th 2019	Specific	cations appli	ed for 62%	brand asses	sments		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	61.51%	2.37%	3.76%	0.097%	9.45%	PB Fines 62%	62.00%	2.60%	4.30%	0.090%	10.00%	
Newman Fines	62.52%	2.16%	4.15%	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%	7.59%	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%	1.35%	0.075%	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 10th 2019	Specifi	cations appli	ed for 58%	brand asses	sments							
	Fe	Alumina	Silica	Phos	Moisture							
SSF	56.58%	3.08%	6.33%	0.057%	8.05%							
FMG Blended Fines	58.20%	2.60%	5.44%	0.059%	7.77%							
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%							

	BLOOMBERG TICKERS										
	PORT STO	CK INDICES		SEABORNE INDICES							
	FOT Qingdao (RMB/wet tonne)	FOT Qingdao (RMB/wet tonne) CFR Qingdao Equivalent (USD/dry tonne)		CFR Qingdao (USD/DMT)							
IOPI62	IRCNQ001	IRCNQ004	IOSI62	IRCN0034							
IOPI58	IRCNQ002	IRCNQ005	10S165	IRCN0035							
IOPI65	IRCNQ003	IRCNQ006									
IOPLI62	IRCN0036	IRCN0037									

CONTACT US

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.cn
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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