

MMi Dashboard

Iron Ore Price Indices

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



681

0.44%

November 26th, 2019

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



750

9 1.21%

November 26th, 2019

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



576

3 0.52%

November 26th, 2019

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



90.24

-0.86 -0.94%

November 26th, 2019

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



103.30

-0.60 -0.58%

November 26th, 2019

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



792

0.89%

Week Ending November 22nd, 2019

Exchange Traded Contracts

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



654.50

-11.00 -1.65%

November 26th, 2019

(3pm close)

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



87.19

-1.81 -2.03%

November 26th, 2019

(5.30 pm Print)

SHFE Rebar RB2001 (Jan) RMB/t



3611

-86.00 -2.33%

November 26th, 2019

(3pm close)

Freight Rates

C3, Tubarao - Qingdao USD/t



20.48

1.45 7.59%

November 25th, 2019

C5, W. Australia - Qingdao USD/t



9.56

7.42% 0.66

November 25th, 2019

Steel Price

Steel Rebar (China Domestic) RMB/t



4140 180 4.55%

Week Ending November 22nd, 2019

Inventory Levels

Iron Ore Inventory at Chinese Ports (35) million tonnes



115.51

1.11 0.97%

Week Ending November 22nd, 2019

Steel Inventory in China



million tonnes

-0.73 -7.73%

Week Ending November 22nd, 2019

Steel Price

Steel HRC (China Domestic) RMB/t



3680

90 2.51%

Week Ending November 22nd, 2019

MMi D	aily Irc	on Or	e Inde	x Report											Nover	mber 26	5th, 2019
							IRON OR	RE PORT S	TOCK INDEX	((IOPI)							
November	r 26th, 20	019		FOT	Qingdao	(inc. 13% VA	Γ), RMB/wet	tonne			CFR Q	ingdao	Equivaler	nt (exc. 13%	VAT), USD,	dry tonne	1
Index	Fe Con	tent	Price	Change	Change	% MTD	YTD	Low ²	High ²	Price	Cha	nge C	hange %	MTD	YTD	Low ²	High ²
IOPI62	62% Fe	Fines	681	3	0.4%	664	722	535	928	89.29	0.4	7	0.5%	87.18	96.32	68.50	126.12
IOPI58	58% Fe	Fines	576	3	0.5%	565	633	375	823	75.76	0.4	7	0.6%	74.49	84.66	46.88	112.44
IOPI65	65% Fe	Fines	750	9	1.2%	718	788	654	992	98.73	1.3	1	1.3%	94.63	105.51	85.47	135.34
			IR	ON ORE SE	ABORN	E INDEX (IOS	SI)						MARKI	ET COMME	NTARY		
November	r 26th, 20	019			CFR C	Qingdao, USD,	dry tonne							rs took advantage s rebar futures plur			
Index	Fe Con	tent	Price	Change	Change	% MTD	YTD	Low ²	High ²	16. This mai	rked the second	straight we	ek of increase.	uring November 17 Meanwhile, iron o	ore deliveries leavin	ng Australian port	fell 1.98 million
IOSI62	62% Fe I		90.24	-0.86	-0.94		94.19	62.95	127.50	week to 6.9	2 million mt. Th	e combined	volumes of iro	at departed Brazilia n ore leaving Austra			
IOSI65	65% Fe I	Fines	103.30	-0.60	-0.58	% 95.86	105.59	83.20	137.95		mt, or 14.5% lo	wer than th	e same period	a year earlier.			
Week Endin	na Novem	her							JMP INDEX	(IOPLI)							
22nd, 2019	_					(inc. 16% VAT							-	it (exc. 16%		-	
Index	Fe Con		Price	W-o-W	Change		YTD	Low ²	High ²	Price			hange %	MTD	YTD	Low ²	High ²
IOPLI62	62.5% Fe	Lump	792	7	0.9%		877	743	1051	97.81			0.75%	97.47	110.88	93.24	133.81
IRON ORE DOMESTIC CONCENTRATE SPOT PRICE ASSESSMENTS AND COMPOSITE INDEX																	
Week Endi	ing Nover	mber 22	2nd, 2019)			RMB/to	nne (exclu	ding tax) 3					USD/tonne			
Province	Re	egion	Produc	t	Basis	This week	Change	e %	Low ²	High	1 ²	This we	eek	Change %	Low	/ ²	High ²
Hebei		anxing		Concentrate	'	766	-0.69		644	103		109.2		-0.82%	93.5		150.03
Hebei	'	ian'an		Concentrate	'	825	-1.29		690	960		117.6		-1.36%	100.		139.35
Liaoning		nshan		Concentrate		650	0.0%		535	745		92.6		-0.17%	77.3		104.66
Shandong Week Ending		bo bo		Concentrate		795	-1.99	Low ²	740	104		113.3		-2.02%	106.	55	151.33
				ex RMB/WT			ange % 1.5%	609.04	High ² 859.50			ed: RMB/USD = 7.0344 ² Last 12 months ate applied: RMB/USD 7.0142					
	IRON ORE PORT INDEX, FOT QINGDAO (RMB/WT) IRON ORE SEABORNE INDEX, FOT QINGDAO (RMB/WT) IRON ORE SEABORNE INDEX, CFR QINGDAO (USD/DMT)																
1050 —						•	<u> </u>		145						•	•	
950 —					N	44			135					~!	٦٨.		
850 —				A a l		- My	war.		125 —— 115 ——				لعر	المركم	m		
750 L	~~	~~/	~~~	المستمر	لممر	Pr		~~~	105 — 95 •		~~~	~~	~~~~	~~~	1	M	لہم کے
550		~~_	~~~					~	85	·~		~~			N		~~~
450	~~~~	لسسم							75 65	,,							
350 — 250 —									55 —— 45 ——	1							
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			IO P	162	IO PI 58 =	IO PI 65							- IO SI62	- IOSI	165		
				IR	ON ORE	PORT STOC	K INDEX MO	ONTHLY, C	QUARTERLY	AND YE	AR-TO-D	ATE A	/ERAGES	3			
November	r 26th, 20	019		FOT	Qingdao	(inc. 13% VA	T), RMB/wet	tonne		CFR Qingdao Equivalent (exc. 13% VAT), USD/dry tonne							
Index	Fe Con	ntent	July	August	Septem	ber October	MTD	QTD	YTD	July	Aug	ust Se	ptember	October	MTD	QTD	YTD
IOPI62	62% Fe		909	759	758	721	664	692	722	111.4			100.18	94.29	87.18	90.73	96.32
IOPI58	58% Fe 65% Fe		809 954	691 823	674 803	636 758	565 718	600 738	633 788	98.60			91.86 108.92	83.57 99.32	74.49 94.63	79.03 96.97	84.66 105.51
						RTERLY AND				121.9	17 123	.55				30.37	103.51
			INE IINDE	X IVION I HL				AIE AVEN	AGES			<u> </u>	FR	EIGHT RAT			
November			h.l.	٨		Qingdao, USD	•	070	VTD	Novembe Route	er 25th, 2019	Designati	ion		ATES - DRY BUI Change %	LK US\$/wet to	High ²
Index IOSI62	Fe Con		July 120.82	August 92.61	Septem 93.76	ber October 90.81	MTD 85.33	QTD 88.34	YTD 94.19		ia - Qingdao	C5	9.56	Change 0.66	7.42%	Low 4.39	High 11.42
IOSI65	65% Fe		120.82	101.34	99.42		95.86	96.74	105.59	Tubarao - C	_	СЗ	20.48	1.45	7.59%	11.61	29.10
		-				PORT LUMI					. •						
Week Endin	g Novemb	ber				(inc. 16% VA		-						nt (exc. 16%	(VAT). LISD	/dry tonne	1
22nd, 2019 Index	Fe Cor	ntent	July			ber Octobe		QTD	YTD	May			July	October	MTD	QTD	YTD
IOPLI62	62.5% Fe		July 1046	August 870	Septen 803		790	807	877	128.0			108.80	98.44	97.47	99.30	110.88
2. 2.02		T	2010	3,0		323								30.11	37.17	33.30	
November :	26th 201	9			рорт	TOCK INDEX (F			REMIUMS/DISCOUNTS November 26th, 2019 SEABORNE INDEX (USD/DMT)								
Index	2011, 201	Fe Con	ntent	Spread	l to IOPI6		% Spread to I	OPI62	Index	2011, 2015	Fe Conter	it	Sprea	ad to IOSI62	AE HADEX (OZ	% Spread to	o IOSI62
IOPI58		58% Fe		•	-105		-15.42%										
IOPI65		65% Fe	Fines		69		10.13%		IOSI65		65% Fe Fin	es		13.06		14.47	%

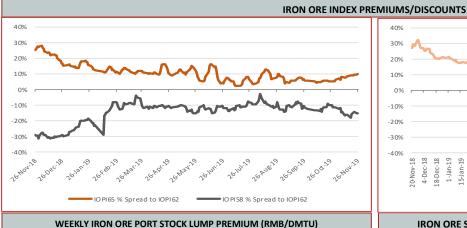




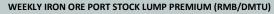
IRON ORE BRAND SPOT PRICE ASSESMENTS												
November 26th, 2019	er 26th, 2019 PORT STOCK INDEX (RMB/WT)			November 26th, 2019	SEABO	SEABORNE INDEX (USD/DMT)						
	Price Change Diff to IOPI62			Price	Change	Diff to IOSI62						
Roy Hill	636	5	-45	Roy Hill	87.14	-0.85	-3.10					
SIMEC Fines	599	8	-82	SIMEC Fines	83.46	-0.85	-6.78					
PB Fines	660	4	-21	PB Fines	88.79	-0.85	-1.45					
Newman Fines	685	3	4	Newman Fines	90.29	-0.86	0.05					
MAC Fines	646	5	-35	MAC Fines	84.41	-0.85	-5.83					
Jimblebar Blended Fines	586	4	-95	Jimblebar Blended Fines	75.94	-0.85	-14.30					
Carajas Fines	757	8	76	Carajas Fines	102.11	-1.56	11.87					
Brazilian SSF	643	12	-38	Brazilian SSF	87.44	-1.16	-2.80					
Brazilian Blend Fines	690	7	9	Brazilian Blend Fines	90.06	-1.04	-0.18					
RTX Fines	616	6	-65	RTX Fines	81.34	-0.85	-8.90					
West Pilbara Fines	633	4	-48	West Pilbara Fines	87.14	-0.85	-3.10					

November 26th, 2019	PORT	PORT STOCK INDEX (RMB/WT)						
	Price	Change	Diff to IOPI58					
SSF	542	1	-34					
FMG Blended Fines	582	3	6					
Robe River	542	1	-34					
Western Fines	548	-1	-28					
Atlas Fines	533	0	-43					
Yandi	556	0	-20					

				IRON ORE II	NDEX 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	2)
	Ар	plicable range		Value	Change		А	pplicable ran	ge	Value	Change
	High Grade	e Fe 60 - 63%		11.00	0.00		High Grad	de Fe 60 - 63	%	0.75	0.00
	High Grade	e Fe 63 - 64%		10.00	0.00		High Grad	de Fe 63 - 64	%	1.75	-0.25
l% Fe	High Grade	e Fe 64 - 65%		10.00	0.00	1% Fe	High Grad	de Fe 64 - 65	%	1.75	-0.25
	High Grade	e Fe 65 - 65.5%		10.00	0.00		High Grad	de Fe 65 - 65	.5%	1.75	-0.25
	Low Grade	Fe		13.00	0.00						
	High Fe Gra	ade Al <2.25%		21.00	3.00		High Fe G	rade Al <2.2	5%	2.25	-0.25
10/ 11	High Fe Gra	ade Al 2.25-4%		37.00	0.00	10/ 11	High Fe G	rade Al 2.25	-4%	2.25	0.00
L% Alumina	Low Fe Gra	de Al <2.25%		9.00	-1.00	1% Alumina					
	Low Fe Gra	de Al 2.25-4%		10.00	0.00						
	High Fe Gra	ade Si <4%		8.00	1.00		High Fe G	rade Si <4%		2.50	0.00
1% Silica	High Fe Gra	ade Si 4-6.5%		31.00	-2.00	1% Silica	High Fe G	rade Si 4 - 6	5%	2.25	0.00
	Low Fe Gra	de		15.00	2.00						
0.01%	High Fe Gra	ade 0.09% <p<0< td=""><td>.115%</td><td>4.00</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></td><td>-1.25</td></p<0<>	.115%	4.00	0.00	0.01%	High Fe G	rade 0.09%<	P<0.115%		-1.25
	High Fe Gra	ade 0.115% <p<< td=""><td>0.15%</td><td>0.00</td><td>-1.00</td><td>Phosphorus</td><td>High Fe G</td><td>rade 0.115%</td><td><p<0.15%< td=""><td>1.25</td><td>0.25</td></p<0.15%<></td></p<<>	0.15%	0.00	-1.00	Phosphorus	High Fe G	rade 0.115%	<p<0.15%< td=""><td>1.25</td><td>0.25</td></p<0.15%<>	1.25	0.25
Phosphorus	Low Fe Gra	de 0.09 <p<0.19< td=""><td>%</td><td>1.00</td><td>0.00</td><td></td><td></td><td></td><td></td><td>1.00</td><td></td></p<0.19<>	%	1.00	0.00					1.00	
	'		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	-50.00	0.00	Fangchen	g -5.00	0.00	Lanshan	0.00	0.00	Qingdao	0.00	0.00
Beilun	5.00	0.00	Jiangyin	-15.00	0.00	Lianyungang	0.00	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	-50.00	0.00	Lanqiao	0.00	0.00	Nantong	-15.00	0.00	Tianjin	0.00	0.00

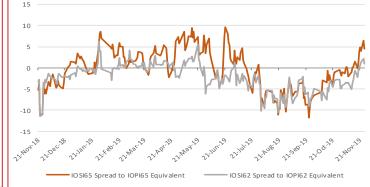




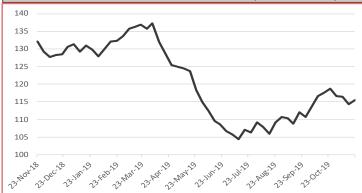








TOTAL IRON ORE INVENTORIES AT CHINA PORTS (MILLION TONNES)



		FUTURE TRADING—FRONT MONTH CLOSING PRICE		
٦	1000		130	
	900	MAA	120	
l	av800	. N V - 1	110	
	800 RMB/tonne 900 800	<i></i>	100	USD/DMT
	/B/	A. MACH	90	SD/
	€600	Janks M. M. A. A.	80	\supset
	500	y some	70	
l	400		60	
	26,404	Bereig the second to the second secon		
		—— Dalian 3pm Close —— SGX Front Month 6pm (RHS)		

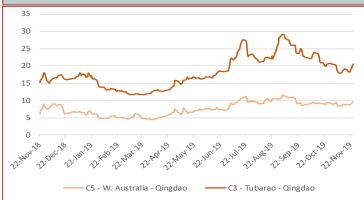
IRON ORE PORT INVENTORIES (MILLION TONNES)

Week Ending Nove	ember 22nd, 2019			
Province	This week	Change %	Low ²	High ²
Jingtang	15.33	-1.03%	10.80	17.00
Qingdao	13.50	-3.57%	12.38	19.01
Caofeidian	14.00	-6.35%	14.00	19.30
Tianjin	7.16	-1.38%	6.37	10.05
Rizhao	13.86	3.43%	11.41	17.10
Total (35 Ports)	115.51	0.97%	104.40	137.30

	D	CE (RMB/WN	IT)	SGX (USD/DMT)				
Closing Date	Nov	v 26th, 3pm c	lose	Nov 26th, 5.30 pm				
Contract	12001	Change	Change %	Dec'19	Change	Change %		
Closing Price	654.50	-11.0	-1.65%	87.19	-1.81	-2.03%		
Vol traded ('000 lots)	200.10	30.4	17.93%	12.24	-1.33	-9.82%		
Open positions ('000 lots)	139.15	-3.8	-2.65%	146.25	-2.97	-1.99%		
Day Low	645.5	-2.5	-0.39%	86.66	-0.16	-0.18%		
Day High	666.0	-4.0	-0.60%	88.55	-0.75	-0.84%		

IRON ORE FUTURES CONTRACTS

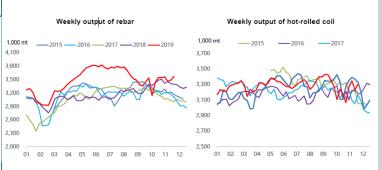
DRY BULK FREIGHT RATES (USD/MT)





STEEL SPOT MARKET PRICES—CHINA

Steel Spot Market RMB/tonne			
Product	22/11/2019	Change	Change %
ReBar HRB400 ф18mm	4,140.0	180	4.55%
Wirerod Q300 ¢6.5mm	4,510.0	160	3.68%
HRC Q235/SS400 5.5mm*1500*C	3,680.0	90	2.51%
CRC SPCC/ST12 1.0mm*1250*2500	4,280.0	40	0.94%
Medium & Heavy Plate Q235B 20mm	3,710.0	40	1.09%
GI ST02Z 1.0mm*1000*C	4,400.0	40	0.92%
Colour Coated Plate	6,850.0	50	0.74%



CHINESE STEEL WILL PROFITABILITY										
SMM Tracking of Steel Mill P&L - Rebar and Hot-rolled Coil (RVB/tonne)										
Category Price Change (WoW)										
87.80	4.80	Mmi CFR Equivalent index for 1st Feb								
1,810	0	2nd grade met coke, Tangshan, incl. tax								
2,350	70	steel scrap (6mm) in Zhangjiagang, exl. tax								
2,927	66	Q234, incl. tax								
3,153	69	calculated based on theoretical weight, incl. tax								
937	111	based on Shanghai prices, incl. tax								
3,244	67	based on actual weight, incl. tax								
456	33	based on Shanghai prices, incl. tax								
	Steel Mill P8 Price 87.80 1,810 2,350 2,927 3,153 937 3,244	Steel Mill P&L - Rebar and Ho Price Change (WoW) 87.80 4.80 1,810 0 2,350 70 2,927 66 3,153 69 937 111 3,244 67								

CHINIESE STEEL MILL DECEITABILITY

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

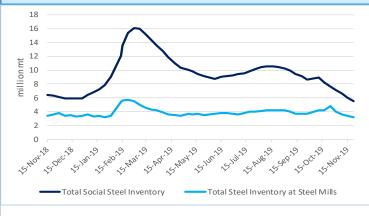
Rebar profits

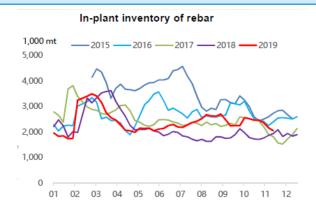


Hot-rolled coil profits



CHINESE STEEL INVENTORIES





	IRON ORE INDEX SPECIFICATIONS, COMPILATION RATIONALE AND DATA EXCLUSIONS												
	Iron Ore	Iron Ore Ind	ex Compilation I	Rationale and Da	ata Exclusions								
	65% Fe Fines	62% Fe Fines	58% Fe Fines	62.5% Fe Lump	MMi iron ore indic	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 indices are calculated using detailed transaction-level data submitted to MMI is							
Fe %	65.00	62.00	58.00	62.50	1								
Alumina %	1.40	2.25	2.25	1.50	these companies. This data is normalised to the appropriate specifications and screened to remove outliers before volume-weighted average prices are calculated from the remaining core set of data.			specifications and					
Silica%	1.50	4.00	5.50	3.50									
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	est 90% of cargo.	Size below 6.3mm max 15%		Data Ex	clusions*	65%					
Sizing		um of 40% below 150	•	Size above 31.15mm max 25%	Port Index	0	0	0					
	maximo	3111 01 40/0 DCIOW 130	, micron	512C 050VC 51.1511111 1110X 2570	Seaborne index 0 0			0					
Pricing Point	Qingdao F	Port (FOT and CFR re	spectively)	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			ot 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			
	SEABORNE BRANDS										
November 26th, 2019	Specifi	cations appli	ed for 62%	brand asses	sments		Specifi	cations appli	ed for 62%	brand asses	sments
	Fe	Alumina	Silica	Phos	Moisture		Fe	Alumina	Silica	Phos	Moisture
Roy Hill	60.70%	2.25%	4.70%	0.054%	9.34%	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	61.58%	2.37%	3.70%	0.099%	9.52%	PB Fines 62%	62.00%	2.60%	4.30%	0.090%	10.00%
Newman Fines	62.49%	2.20%	4.07%	0.092%	7.88%	Newman Fines	62.80%	2.20%	4.30%	0.080%	6.40%
MAC Fines	60.82%	2.29%	4.72%	0.081%	7.81%	MAC Fines	61.00%	2.70%	4.70%	0.110%	9.30%
Jimblebar Blended Fines	60.48%	3.05%	4.61%	0.116%	7.96%	Jimblebar Blended Fines	59.50%	3.70%	5.80%	0.135%	8.30%
Carajas Fines	65.41%	1.27%	1.41%	0.081%	8.02%	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	63.03%	1.44%	4.68%	0.074%	7.77%	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%
November 26th, 2019	Specifi	cations appli	ed for 58%	brand asses	sments						
	Fe	Alumina	Silica	Phos	Moisture						
SSF	56.72%	3.04%	6.14%	0.052%	8.94%						
FMG Blended Fines	58.25%	2.75%	5.65%	0.063%	7.46%						
Robe River	56.31%	3.17%	5.64%	0.041%	9.10%						
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%	1.62%	6.40%	0.041%	9.04%						

	BLOOMBERG TICKERS										
	PORT STO	CK INDICES		SEABORNE INDICES							
	FOT Qingdao (RMB/wet tonne)	CFR Qingdao Equivalent (USD/dry tonne)		CFR Qingdao (USD/DMT)							
IOPI62	IRCNQ001	IRCNQ004	IOSI62	IRCN0034							
IOPI58	IRCNQ002	IRCNQ005	IOS165	IRCN0035							
IOPI65	IRCNQ003	IRCNQ006									
IOPLI62	IRCN0036	IRCN0037									

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