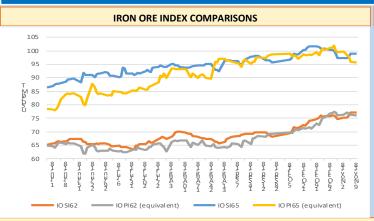
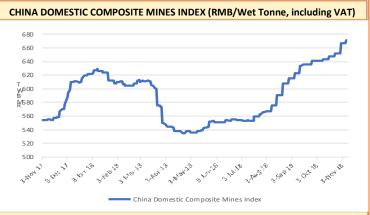


Daily	Iron Ore	e Inde	x Repo	ort								No	vembe	r 12, 2	2018
IRON ORE PORT STOCK INDEX (IOPI)															
November 12 2018 FOT Qingdao (inc. 16% VAT), RMB/wet tonne CFR Qingdao Equivalent (exc. 16% VAT), USD/dry tonne 1															
Index	Fe Content	Price	Change	Change	e % MTD	YTD ²	Low ²	High ²	Price	Change	Change	% MTD	YTD ²	Low ²	High ²
IOPI62	62% Fe Fines	591	0	0.0%	593	499	443	603	75.93	-0.16	-0.2%	76.47	66.71	75.83	77.89
IOPI58	58% Fe Fines	410	0	0.0%	413	354	304	419	51.52	-0.11	-0.2%	52.08	45.94	40.67	52.59
IOPI65	65% Fe Fines	736	0	0.0%	754	651	541	784	95.49	-0.20	-0.2%	98.20	87.95	96.35	101.71
		IRO	ON ORE SEA	ABORNI	E INDEX (IOSI)						MAR	KET COMM	ENTARY		
Novembe	r 12 2018			CFR C	Qingdao, USD/d	ry tonne			Seventy-one v	essels carrying 1	0.93 million m	t of iron ore are like	ly to arrive at maj	or Chinese port	s during Novem-
Index	Fe Content	Price	Change	Change	% MTD	YTD ³	Low ³	High ³			-	vember 2-8, SMM d imited. For the same			
IOSI62	62% Fe Fines	77.05	0.00	0.0%	75.68	68.51	63.25	86.20	1			due to maintenance		-	
IOSI65	65% Fe Fines	98.75	0.00	0.0%	97.93	94.39	86.20	101.50	-	is expected in th			,	, ,	
						IRON ORI	E PORT L	UMP INDEX	(IOPLI)						
Week Endir	ng 9 November		FOT C	lingdao	(inc. 16% VAT),					CFR Qingd	ao Equiva	lent (exc. 16%	6 VAT), USD,	dry tonne	1
Index	Fe Content	Price	W-o-W	Change	e % MTD	YTD ³	Low ³	High ³	Price	W-oW	Change	% MTD	YTD ³	Low ³	High ³
IOPLI62	62.5% Fe Lump	781	45	6.1%		633	565	781	97.53	5.88	6.4%	94.59	81.82	76.63	97.53
			IRO	N ORF I	OMESTIC CO	NCFNTRAT	TE SPOT I	PRICE ASSES	SMENTS A	ND COMP	OSITE IN	DFX			
Week Endi	ing November 9	9. 2018		TOTAL	JOINIESTIC CO			uding tax) 4	5101210157		00112		(excluding t	ax) ⁴	
Province	Region	Product		Basis	This week	Change	•	Low ²	High ²	This	week	Change %	Low	<u> </u>	High ²
Hebei	Hanxing	_	Concentrate	Dry	715	-0.4%		579	718		3.44	0.3%	83.7		103.87
Hebei	Qian'an		Concentrate	Dry	805	0.6%	5	630	805	11	16.46	1.3%	91.1	.4	116.46
Liaoning	Anshan	65% Fe (Concentrate	Wet	555	0.0%	5	445	555	8	0.29	0.7%	64.3	18	80.29
Shandong	Zibo	65% Fe (Concentrate	Dry	815	2.5%	S	620	815	11	17.91	3.2%	89.7	0	117.91
Week Endi	ing November 9	9, 2018			This week	Change	· %	Low ⁵	High ⁵			l: RMB/USD = 6.947			ı
China Mine	es Concentrate	Composite	Index RMB/	WT	670.77	0.6%		534.50	670.77	4 Weekly	exchange rate	e applied: RMB/USD	6.9208 ⁵ Last 12	months	
	IRON C	ORE PORT	INDEX, FO	QING	DAO (RMB/W	T)			IRON C	RE SEABO	RNE IND	EX, CFR QING	GDAO (USD	/DMT)	
850 —								105							
750 —							<u></u>	95 —					<u> </u>		~
										~~		7			
650			<u></u>				~	85							
550				~~	~~~~			75 —							
450							_	65	_	~~~					
350				~~	~~~~			55 —							
250								45 —							
2 88 71 A	Strange Tribaria	intras turcis	14.18.101.18.11.1	15 Auc. 18	August August Company	1,0e, 130e, 13		Mary's	To strike	Will's Trial	Layne, si	Wasty 1:35513	Series Booking	Andra 2.No	N. S
5. V.	Ja Tim J.	, Pa, A	, 18, 37.	22 3C	y 2002 2002 4	V 200		1. 20.	้ารูรั้	St. W.	lay_i	'y 1,2, 5	35° 85°	1000 July	
		10 PI 6	5210	PI 58 =	IO PI 65					-	10 SI6	52 —— IOS	165		
			IRC	N ORF	PORT STOCK	INDEX MO	NTHIV	OLIARTERIY	ΔΝΟ ΥΕΔΕ	R-TO-DATE	ΔVFRΔG	iFS			
November	r 12 2018				(inc. 16% VAT),			QUANTENET	AND ILAI			lent (exc. 16%	6 VAT). USD/	dry tonne	1
Index	Fe Content	July			ber October	MTD	QTD	YTD²	July			er October	MTD	QTD	YTD²
IOPI62	62% Fe Fines	482	505	513	564	593	573	499	64.29	63.41	65.25	72.55	76.47	73.75	66.71
IOPI58	58% Fe Fines	349	363	385	401	413	405	354	44.14	44.86	45.84	50.47	52.08	50.97	45.94
IOPI65	65% Fe Fines	638	701	732	760	754	758	651	82.19	85.29	92.13	99.05	98.20	98.79	87.95
	N ORE SEABOR	RNE INDEX	K MONTHLY	. OUAF	RTERLY AND Y	EAR-TO-D	ATE AVE	RAGES				FREIGHT RA	TFS		
November					Qingdao, USD/d				November 0	09, 2018			TES - DRY BU	LK US\$/wet	tonne
Index	Fe Content	July	August		ber October	MTD	QTD	YTD ³	Route		gnation	Change	Change %	Low 5	High ⁵
IOSI62	62% Fe Fines	65.09	67.89	68.79		75.68	73.09		W. Australia -		C5 6. :		-3.87%	5.109	10.002
IOSI65	65% Fe Fines	91.90	94.04	96.48		97.93	98.73		Tubarao - Qin		C3 15		-11.08%	12.705	24.76
									1						
IRON ORE PORT LUMP INDEX MONTHLY, QUARTERLY AND YEAR-TO-DATE AVERAGES Week Ending 9 November FOT Qingdao (inc. 16% VAT), RMB/wet tonne CFR Qingdao Equivalent (exc. 16% VAT), USD/dry tonne 1															
	1	le de c						YTD ³	lub.					-	YTD²
Index IOPLI62	Fe Content 62.5% Fe Lump	July 613	August 652	Septen 695	hber October	MTD 759	QTD 736	633	July 78.18	81.74	Septem 87.49	ber October 89.65	MTD 94.59	QTD 91.62	81.82
.5. LIVE	OZ.S/STC EURIP	013	032	093	, ,20	7.53	, 30	033	70.10	01./4	07.43	65.05	54.55	J1.U2	01.02
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IRON ORE BRAND SPOT PRICE ASSESMENTS

November 12 2018	PORT	STOCK INDEX (R	MB/WT)
	Price	Change	Diff to IOPI62
Roy Hill	565	0	-26
SIMEC Fines	502	0	-89
PB Fines	573	0	-18
Newman Fines	589	-1	-2
MAC Fines	556	0	-35
Jimblebar Blended Fines	521	-2	-70
Carajas Fines	727	0	136
Brazilian SSF	571	0	-20
Brazilian Blend Fines	598	0	7
RTX Fines	502	2	-89

November 12 2018	SEABO	ORNE INDEX (US	D/DMT)
	Price	Change	Diff to IOSI62
Roy Hill	70.85	0.00	-6.20
SIMEC Fines	64.55	0.00	-12.50
PB Fines	75.90	0.00	-1.15
Newman Fines	78.56	0.00	1.51
MAC Fines	71.05	0.00	-6.00
Jimblebar Blended Fines	63.42	0.00	-13.63
Carajas Fines	97.29	0.00	20.24
Brazilian SSF	81.11	0.00	4.06
Brazilian Blend Fines	82.36	0.00	5.31
RTX Fines	67.75	0.00	-9.30

KTXTTHES	302					
November 12 2018	PORT STOCK INDEX (RMB/WT)					
	Price Change Diff to IOPI5					
SSF	344	-2	-66			
FMG Blended Fines	406	-1	-4			
Robe River	420	11	10			
Western Fines	373	-4	-37			
Atlas Fines	350	-5	-60			
Yandi	450	-2	40			

IRON ORE INDEX NORMALISATION DIFFERENTIALS

Port	Stock Index Product Differentials	(RMB/wet toni	ne)	Seaborne Index Product Differentials (UDS/dry tonne)			
	Applicable range	Value	Change		Applicable range	Value	Change
	High Grade Fe 60 - 63%	12.00	0.00		High Grade Fe 60 - 63%	2.50	0.00
	High Grade Fe 63 - 64%	48.00	0.00	1% Fe	High Grade Fe 63 - 64%	2.50	0.00
1% Fe	High Grade Fe 64 - 65%	48.00	0.00		High Grade Fe 64 - 65%	2.50	0.00
	High Grade Fe 65 - 65.5% 48.		0.00		High Grade Fe 65 - 65.5%	2.50	0.00
	Low Grade Fe	21.00	0.00				
	High Fe Grade Al <2.25%	38.00	38.00 0.00		High Fe Grade Al <2.25%	9.75	0.00
1% Alumina	High Fe Grade Al 2.25-4%	50.00	5.00	1% Alumina	High Fe Grade Al 2.25-4%	0.50	0.00
1% Alullilla	Low Fe Grade Al <2.25%	82.00	0.00				
	Low Fe Grade Al 2.25-4%	25.00	0.00				
	High Fe Grade Si <4%	2.00	0.00		High Fe Grade Si <4%	2.25	0.00
1% Silica	High Fe Grade Si 4-6.5%	32.00	0.00	1% Silica	High Fe Grade Si 4 - 6.5%	3.25	0.00
	Low Fe Grade	15.00	3.00				
0.01%	High Fe Grade 0.09% <p<0.115%< td=""><td>3.00</td><td>0.00</td><td>0.010/</td><td>High Fe Grade 0.09%<p<0.115%< td=""><td>0.50</td><td>0.00</td></p<0.115%<></td></p<0.115%<>	3.00	0.00	0.010/	High Fe Grade 0.09% <p<0.115%< td=""><td>0.50</td><td>0.00</td></p<0.115%<>	0.50	0.00
	High Fe Grade 0.115% <p<0.15%< td=""><td>7.00</td><td>-3.00</td><td>0.01%</td><td>High Fe Grade 0.115%<p<0.15%< td=""><td>1.75</td><td>0.00</td></p<0.15%<></td></p<0.15%<>	7.00	-3.00	0.01%	High Fe Grade 0.115% <p<0.15%< td=""><td>1.75</td><td>0.00</td></p<0.15%<>	1.75	0.00
Phosphorus	Low Fe Grade 0.09 <p<0.1%< td=""><td>5.00</td><td>0.00</td><td>Phosphorus</td><td></td><td></td><td></td></p<0.1%<>	5.00	0.00	Phosphorus			

	Port Stock Differentials to Qingdao Port (RMB/wet tonne)											
Port	Value	Change	Port	Value	Change	Port	Value	Change	Port	Value	Change	
Bayuquan	-25.00	0.00	Fangcheng	-5.00	0.00	Lanshan	0.00	0.00	Qingdao	0.00	0.00	
Beilun	5.00	0.00	Jiangyin	-10.00	0.00	Lianyungang	0.00	0.00	Rizhao	0.00	0.00	
Caofeidian	-5.00	5.00	Jingtang	-5.00	5.00	Majishan	0.00	0.00	Shekou	0.00	0.00	
Dalian	-15.00	0.00	Lanqiao	0.00	0.00	Nantong	-10.00	0.00	Tianjin	-15.00	0.00	

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IRON ORE INDEX PREMIUMS/DISCOUNTS

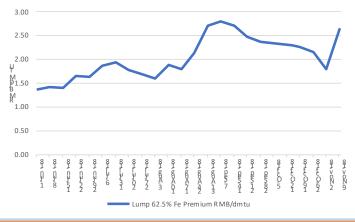
November 12 2018	PORT STOCK INDEX (RMB/WT)				
Fe Content	Spread to IOPI62	% Spread to IOPI62			
58% Fe Fines	-181	-30.63%			
65% Fe Fines	145	24.53%			

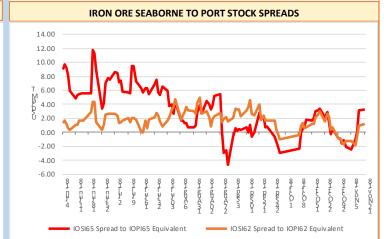


November 12 2018 SEABORNE INDEX (USD/DMT) Fe Content Spread to IOSI62 65% Fe Fines 21.70 28.16%



WEEKLY IRON ORE PORT STOCK LUMP PREMIUM (62.5% FE LUMP—62% FE FINES)





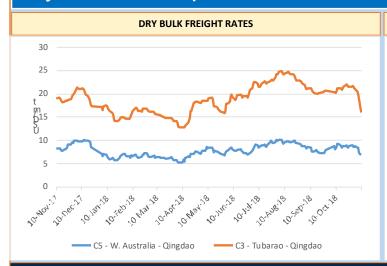
FUTURE TRADING—FRONT MONTH CLOSING PRICE		
540	78	
520	70	
6500 6480	73	enn P
8480 R460	68	
440	63	
400	58	
Tradity out is not trace if the solution in the integral is the solution of the integral of the solution is a solution in the solution in the integral of the solution is a solution in the integral of the the in		
Dalian 3pm Close SGX Front Month 6pm (RHS)		

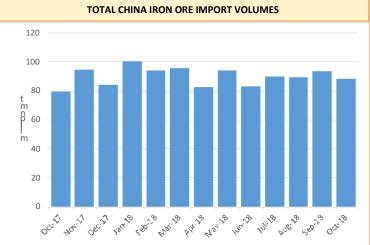
IRON ORE PORT INVENTORIES									
Week Ending November 09, 2018 (million tonnes)									
Province This week Change % Low ⁴ High ⁴									
Jingtang	13.48	-9.53%	13.47	19.00					
Qingdao	17.70	0.57%	15.60	19.97					
Caofeidian	18.60	-1.06%	16.70	25.30					
Tianjin	9.80	4.26%	8.50	11.00					
Rizhao	15.50	-3.13%	13.49	19.00					
Total (35 Ports)	131.62	-1.28%	128.70	150.04					

IRON ORE FUTURES CONTRACTS										
		DCE		SGX						
Closing Date	1	2 Nov 3pm clo	ose		12 Nov 6 pm					
Contract	11901	Change	Change %	Dec'18	Change	Change %				
Closing Price	520.0	-5.0	-0.95%	72.24	-1.06	-1.45%				
Vol traded ('000 lots)	125.16	-6.3	-4.81%	14.18	-0.58	-3.92%				
Open positions ('000 lots)	70.70	-4.0	-5.31%	131.36	7.72	6.25%				
Day Low	517.0	-3.5	-0.67%	72.05	-0.70	-0.96%				
Day High	521.5	-8.5	-1.60%	72.93	-0.70	-0.95%				



November 12, 2018





Steel Spot Market Prices - China

Steel Spot Market RMB/tonne			
Product	9/11/2018	Change	Change %
ReBar HRB400 ф18mm	4,602.0	-105	-2.23%
Wirerod Q300 ¢6.5mm	4,772.0	-133	-2.71%
HRC Q235/SS400 5.5mm*1500*C	3,954.0	-119	-2.92%
CRC SPCC/ST12 1.0mm*1250*2500	4,633.0	-103	-2.17%
Medium & Heavy Plate Q235B 20mm	4,260.0	-66	-1.53%
GI ST02Z 1.0mm*1000*C	4,980.0	-90	-1.78%
Billet Q235 150*150mm	3,800.0	-100	-2.56%



CHINESE STEEL EXPORT PRICES											
China Export Prices USD/tonne											
Product	Specification	Export tax (+)/Vate rebate (-)		Change							
			9/11/2018								
Rebar	BS4449 460B 12-25mm, + chrome	-13%	550	-5							
Wire Rod	SAE1008 6.5-10mm +chrome	-9%	575	-5							
Hot-rolled coil	SS400/Q235 4.0-10.mm	-9%	545	-5							
Cold-rolled coil	SPCC 1.0mm	-13%	595	0							
Medium & Heavy plate	A-level Shipe plate 12-25mm	0%	580	0							
Galvanised	ST02Z/SGCC 1.0mm	-13%	650	-5							

Note: Calculation formula for converting export prices of rebar, cold-rolled steel and galvanizing into prices in China's spot market = FOB* exchange rate*15/(150.13); Calculation formula for converting export prices of wire rod and hot-rolled steel into prices in hina's spot market = FOB* exchange rate *15/(150.09); Calculation formula for converting export prices of medium-thick plate into prices in China's spot market = FOB* exchange rate

Steel Inventories³ (unit: 1000 tonnes) 9/11/2018 2/11/2018 **Product** Change Change % Rebar 3,390 3,581 -191 -5.33% Wirerod 1,028 1,096 -68 -6.20% Hot-rolled Coil 2,309 2,439 -5.33% -130 Medium & Thick Plate 1,124 1,130 -6 -0.53% Cold-rolled Coil 1,206 1,168 -38 -3.15% Total 9,018 9,452 -4.59%

CHINESE STEEL INVENTORIES

³ SMM statistics cover inventories of major steel products in China's major markets: hot-rolled steel inventories in 33 major cities; rebar and wire inventories in 35 major cities; cold-rolled steel and medium-thick plate inventories in 31major cities.

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	76.19	-0.13	Mmi CFR Equivalent index for 12th October			
Coke	2,610	100	2nd grade met coke, Tangshan, incl. tax			
Steel Scrap	2,410	-70	steel scrap (6mm) in Zhangjiagang, exl. tax			
Billet Cost	3,259	49	Q234, incl. tax			
Rebar cost - Blast furnace	3,528	48	calculated based on theoretical weight, incl. tax			
Rebar profit - Blast furnace	972	-88	based on Shanghai prices, incl. tax			
Hot-rolled coil cost - Blast furnace	3,584	49	based on actual w eight, incl. tax			
Hot-rolled coil proft - Blast furnace	316	-189	based on Shanghai prices, incl. tax			
Note 4.Contain the Arbba and a challenged and a challenge and for a challenge and for a challenge of the Arbba and a challenge of th						

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 \ or \ SMM's \ survey \ of \ small, medium \ and \ large \ mills \ in \ China \ or \ small, medium \ and \ large \ mills \ in \ China \ or \ small, medium \ and \ large \ mills \ in \ China \ or \ small, medium \ and \ large \ mills \ in \ China \ or \ small, medium \ and \ large \ mills \ in \ China \ or \ small, medium \ and \ large \ mills \ in \ China \ or \ small, medium \ and \ large \ mills \ in \ China \ or \ small, medium \ and \ large \ mills \ in \ China \ or \ small, medium \ and \ large \ mills \ in \ China \ or \ small, medium \ and \ large \ mills \ in \ China \ or \ small, medium \ and \ large \ mills \ in \ China \ or \ small, medium \ and \ large \ mills \ in \ China \ or \ small, medium \ and \ large \ mills \ in \ china \ or \ small, medium \ and \ large \ mills \ in \ china \ or \ small, medium \ and \ large \ mills \ or \ small, medium \ and \ large \ mills \ or \ small, medium \ and \ large \ or \ small, medium \ and \ large \ or \ small, medium \ or \$

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IRON ORE INDEX SPECIFICATIONS. COMPILATION RATIONALE AND DATA EXCLUSIONS

INON ORE INDEX 37 ECITION IONS, CONTRICTION NATIONALE AND DATA EXCEDSIONS									
	Iron Ore	Iron Ore Index Compilation Rational 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 indices are calculated using detailed transaction-level data submitted to MMI by				
Fe %	65.00	62.00	58.00	62.50					
Alumina %	1.40	2.25	2.25	1.50	these companies. This data is normalised to the appropriate specificat		specifications and		
Silica%	1.50	4.00	5.50	3.50 screened to remove outliers before volume-weighted average prices calculated from the remaining core set of data.				e prices are	
Phosphorus %	0.06	0.09	0.05	0.08	0.08 For more details on MMi's iron ore methodology please download		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					
	Cranylandia halay 10 mm farat laat 00% of assay. Sica halay 20 m		Si hl C 2 450/		Data Exclusions*				
Sizing	Granular size below 10mm for at least 90% of cargo; Size below 6.3mm max		Size below 6.3mm max 15%		62%	58%	65%		
Sizing	maximum of 40% below 150 micron			Size above 31.15mm max 25%	Port Index	0	0	0	
					Seaborne index	0		0	
Pricing Point	Qingdao Port (FOT and CFR respectively)		FOT Qingdao Port	Lump Index 62.5	0				
Timing (Seaborne)	e) 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	ent Terms I/C at sight		I/C at sight or CAD	I/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.

AVERAGE IRON ORE SPECIFICATIONS APPLIED FOR BRAND PRICE ASSESSMENTS

PORT STOCK BRANDS				SEABORNE BRANDS							
November 12 2018	SPECIFICATIONS APPLIED FOR 62% BRAND ASSESSMENTS			SPECIFICATIONS APPLIED FOR 62% BRAND ASSESSME					SESSMENTS		
	Fe	Alumina	Silica	Phos	Moisture		Fe	Alumina	Silica	Phos	Moisture
Roy Hill	61.00%	2.20%	4.50%	0.055%	8.00%	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	61.68%	2.32%	3.55%	0.100%	9.35%	PB Fines 62%	62.00%	2.60%	4.30%	0.090%	10.00%
Newman Fines	62.47%	2.34%	4.15%	0.080%	7.72%	Newman Fines	62.80%	2.20%	4.30%	0.080%	6.40%
MAC Fines	60.74%	2.24%	4.66%	0.090%	7.79%	MAC Fines	61.00%	2.70%	4.70%	0.110%	9.30%
Jimblebar Blended Fines	61.36%	2.83%	4.34%	0.100%	6.76%	Jimblebar Blended Fines	61.79%	2.67%	4.08%	0.115%	7.16%
Carajas Fines	64.79%	1.30%	2.00%	0.080%	8.29%	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	62.68%	1.54%	4.81%	0.060%	8.42%	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%
November 12 2018 SPECIFICATIONS APPLIED FOR 58% BRAND ASSESSMENTS											
		_									

November 12 2018	SPECIFICATIONS APPLIED FOR 58% BRAND ASSESSMENTS						
	Fe	Alumina	Silica	Phos	Moisture		
SSF	56.42%	3.00%	6.35%	0.050%	9.50%		
FMG Blended Fines	58.36%	2.79%	5.90%	0.070%	7.13%		
Robe River	56.63%	2.88%	1.85%	0.040%	9.09%		
Western Fines	57.57%	2.86%	6.73%	0.060%	7.58%		
Atlas Fines	56.59%	2.55%	7.14%	0.080%	8.46%		
Yandi	57.13%	1.38%	6.34%	0.030%	9.21%		

BLOOMBERG 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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