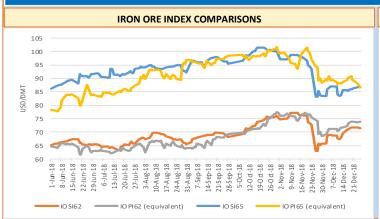
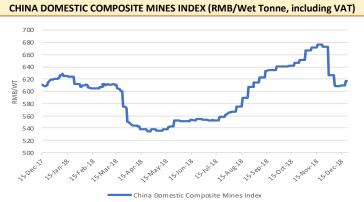


Daily	Iron Ore	e Inde	x Repo	ort								Decei	mber 26	5, 2018	8
						IRON ORE	PORT S	TOCK INDEX	(IOPI)						
ecember	26, 2018		FOT C	ingdao (in	c. 16% VAT), I	RMB/wet to	onne			CFR Qingo	ao Equiv	valent (exc. 169	6 VAT), USD/	dry tonne	1
ndex	Fe Content	Price	Change	Change %	MTD	YTD ²	Low ²	High ²	Price	Change	Chang	ge % MTD	YTD²	Low ²	High ²
OPI62	62% Fe Fines	570	0	0.0%	557	510	443	603	73.76	0.07	0.1	% 72.01	67.67	61.36	77.89
OPI58	58% Fe Fines	402	0	0.0%	391	361	304	419	50.90	0.05	0.1	% 49.35	46.58	40.67	52.71
OPI65	65% Fe Fines	665	-10	-1.5%	683	659	541	784	86.69	-1.28	-1.5	% 89.06	88.56	75.83	101.71
		IR	ON ORE SEA	ABORNE II	NDEX (IOSI)						MA	ARKET COMM	ENTARY		
December	· 26, 2018			CFR Qin	gdao, USD/dr	y tonne			I			llion mt of iron ore a			
ndex	Fe Content	Price	Change	Change %	MTD	YTD ³	Low ³	High ³	I			r 27, up 150,000 mt ng and Rizhao ports			
OSI62	62% Fe Fines	71.50	-0.30	-0.4%	69.53	68.91	62.95	86.20				are expected to decr razilian ports are lik			
OSI65	65% Fe Fines	86.65	-0.05	-0.1%	85.65	93.17	83.20	101.50			_	emain stable over t			
						IRON ORE	PORT LU	JMP INDEX	(IOPLI)						
Week Endii	ng December 21		FOT C	Qingdao (in	c. 16% VAT),					CFR Qingo	lao Equi	valent (exc. 169	% VAT), USD,	dry tonne	1
Index	Fe Content	Price	W-o-W	Change %	MTD	YTD ³	Low ³	High ³	Price	W-oW	Chang	ge % MTD	YTD ³	Low ³	High ⁵
OPLI62	62.5% Fe Lump	750	7	0.9%	748	654	565	789	94.20	0.81	0.9	% 94.05	84.07	76.63	98.50
			IRO	N ORE DO	MESTIC CON	NCENTRATE	SPOT P	RICE ASSESS	SMENTS A	ND COMP	OSITE I	NDEX			
Week End	ing December 2	1,2018				RMB/toni	ne (exclu	ding tax) 4				USD/tonne	e (excluding t	ax) ⁴	
Province	Region	Product		Basis	This week	Change 9	%	Low ²	High ²	Thi	s week	Change %	Low	, ²	High ²
Hebei	Hanxing	66% Fe	Concentrate	Dry	658	1.1%		579	718	g	5.53	1.04%	84.0	06	104.24
Hebei	Qian'an	65% Fe	Concentrate	Dry	735	4.3%		630	815	1	06.71	4.22%	91.4	17	118.33
Liaoning	Anshan	65% Fe	Concentrate	Wet	535	0.0%		445	565	7	7.67	-0.03%	64.6	51	82.03
Shandong	Zibo		Concentrate		740	0.0%		620	815	1	07.44	-0.03%	90.0)1	118.33
	ing December 2				This week	Change 9	%	Low 5	High ⁵	Weekly		ied: RMB/USD = 6.885 te applied: RMB/USD			
China Min	es Concentrate	-			617.30	1.2%		534.50	676.26				/	<i>(</i> == \	
	IRON C	RE PORT	INDEX, FOI	QINGDA	O (RMB/WT)			IRON O	RE SEABO	KNE IN	DEX, CFR QIN	GDAO (USD	/DMII)	
850 —								105					~		
750 —				~~		W		95		~~~		~~~	<i>-</i> -	\supset	
650 —		A	· ~	~		~		85						- ₩	~
550				_		~~	-	75 —					سر	$\overline{}$	
450			~~~	~~~				65	~		~			_/~	
250				_		<u> </u>									
350 —		~~~/						55							
250	Lynatigation Line	, \$,\$	A A A	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	~ ~ ~ ~	~ ~ ~ ~		45 ,	& & ^	&	9 ,9	,	, b , b	, 9 , 9	₹9
2.881.7.88	2.4124.18 12.18 1.18 1.18	Jun 18 14 18 1	11.78 111.78 118.78 31.111.75 AUB.78	XUE 18 29 5 85	100 180 13 NO	138 NOV138 DEC 18		7.1m.78	28 Jun 18 July	27-Jul 10 AUE	2 AAU8:18	eris eris	Od.18 Nov.18	30,404,74,06	,c
		10 PI 6			■ 10 PI 65							5162 — 10 5			
		IOFIC	12 10	F136	107103						10.	3102 103	1103		
								QUARTERLY	AND YEAR						
December	26, 2018		FOT	Qingdao (in	c. 16% VAT),	RMB/wet to	nne			CFR Qing	dao Equi	valent (exc. 169	6 VAT), USD/	dry tonne	
Index	Fe Content	-	September			MTD	QTD	YTD²	-	•		er November		QTD	YTD ²
OPI62	62% Fe Fines	505	513	564	564	557	569	510	64.29	63.41	65.2		72.01	73.31	67.67
IOPI58	58% Fe Fines 65% Fe Fines	363 701	385 732	760	760	391 683	400 729	361 659	44.14 82.19	44.86 85.29	45.8 92.1		49.35 89.06	50.40 94.99	46.58 88.56
	1								02.19	65.29	92.1			94.99	88.30
IRON ORE SEABORNE INDEX MONTHLY, QUARTERLY AND YEAR-TO-DATE AVERAGES FREIGHT RATES									December 2	4 2018			TES - DRY BUI	LK US\$/wet	tonne
December	20, 2010	August	Contoral		gdao, USD/di	•	OTD	ver 3	Route		gnation	Change	Change %	Low 5	High ⁵
	Fo Comband		September	October	wovember	MTD	QTD 71.74	YTD ³ 68.91	W. Australia -		C5	6.21 0.19	3.18%	5.109	10.002
Index	Fe Content	-	60.70	72 24	72.04	60 52	/ 1 / 4		······				2.2070	3.203	10.002
Index IOSI62	62% Fe Fines	67.89	68.79 96.48	72.31 98.97	72.91	69.53 85.65			Tubarao - Oine	zdao	СЗ	16.09 -0.02	-0.11%	12,705	24.76
ndex OSI62		-	96.48	98.97	94.05	85.65	93.57	93.17	Tubarao - Qing			16.09 -0.02	-0.11%	12.705	24.76
Index IOSI62 IOSI65	62% Fe Fines 65% Fe Fines	67.89	96.48 IRC	98.97 ON ORE P	94.05 ORT LUMP I	85.65 NDEX MON	93.57 ITHLY, C			R-TO-DATE	AVERA	GES			
Index IOSI62 IOSI65 Week Endii	62% Fe Fines 65% Fe Fines	67.89 94.04	96.48 IRC FOT 0	98.97 ON ORE Po Qingdao (in	94.05 ORT LUMP II ic. 16% VAT),	85.65 NDEX MON	93.57 ITHLY, Conne	93.17 QUARTERLY	AND YEAR	CFR Qingo	AVERA	GES valent (exc. 16	% VAT), USD,	dry tonne	, 1
Index IOSI62 IOSI65	62% Fe Fines 65% Fe Fines	67.89 94.04	96.48 IRC	98.97 ON ORE Po Qingdao (in	94.05 ORT LUMP II ic. 16% VAT),	85.65 NDEX MON	93.57 ITHLY, C	93.17	AND YEAR	CFR Qingo	AVERA	GES valent (exc. 16 ber Novembe	% VAT), USD,		



December 26, 2018





IRON ORE BRAND SPOT PRICE ASSESMENTS

December 26, 2018	PORT	PORT STOCK INDEX (RMB/WT)					
	Price	Change	Diff to IOPI62				
Roy Hill	539	3	-31				
SIMEC Fines	460	4	-110				
PB Fines	552	1	-18				
Newman Fines	551	1	-19				
MAC Fines	529	2	-41				
Jimblebar Blended Fines	502	3	-68				
Carajas Fines	661	-10	91				
Brazilian SSF	499	-4	-71				
Brazilian Blend Fines	553	-4	-17				
RTX Fines	488	6	-82				

December 26, 2018	SEABORNE INDEX (USD/DMT)				
	Price	Change	Diff to IOSI62		
Roy Hill	66.36	-0.95	-5.14		
SIMEC Fines	62.69	-1.30	-8.81		
PB Fines	71.11	-0.30	-0.39		
Newman Fines	74.02	0.10	2.52		
MAC Fines	66.94	-0.80	-4.56		
Jimblebar Blended Fines	62.06	-0.80	-9.44		
Carajas Fines	86.30	0.73	14.80		
Brazilian SSF	74.62	-0.30	3.12		
Brazilian Blend Fines	75.50	-0.05	4.00		
RTX Fines	63.41	-0.80	-8.09		

NTX TITLES	400	U	-02			
December 26, 2018	PORT STOCK INDEX (RMB/WT)					
	Price Change Diff to IOPI					
SSF	354	-5	-48			
FMG Blended Fines	402	-2	0			
Robe River	412	9	10			
Western Fines	369	-8	-33			
Atlas Fines	357	-6	-45			
Yandi	450	-3	48			

IRON ORE INDEX NORMALISATION DIFFERENTIALS

Port Stock Index Product Differentials (RMB/wet tonne)				Seaborne Index Product Differentials (UDS/dry tonne)			
	Applicable range	Value	Change		Applicable range	Value	Change
1% Fe	High Grade Fe 60 - 63%	8.00	-2.00		High Grade Fe 60 - 63%	3.25	0.50
	High Grade Fe 63 - 64%	31.00	-3.00		High Grade Fe 63 - 64%	2.25	0.25
	High Grade Fe 64 - 65%	31.00	-3.00	1% Fe	High Grade Fe 64 - 65%	2.25	0.25
	High Grade Fe 65 - 65.5%	31.00	-3.00		High Grade Fe 65 - 65.5%	2.25	0.25
	Low Grade Fe	15.00	0.00				
	High Fe Grade Al <2.25%	23.00	-3.00	10/ 11	High Fe Grade Al <2.25%	4.50	0.00
1% Alumina	High Fe Grade Al 2.25-4%	45.00	-5.00		High Fe Grade Al 2.25-4%	0.25	0.00
1% Alullilla	Low Fe Grade Al <2.25%	81.00	0.00	1% Alumina			
	Low Fe Grade Al 2.25-4%	20.00	3.00				
	High Fe Grade Si <4%	2.00	0.00		High Fe Grade Si <4%	1.50	0.00
1% Silica	High Fe Grade Si 4-6.5%	44.00	0.00	1% Silica	High Fe Grade Si 4 - 6.5%	1.00	0.00
	Low Fe Grade	12.00	3.00				
0.01%	High Fe Grade 0.09% <p<0.115%< td=""><td>5.00</td><td>0.00</td><td>0.010/</td><td>High Fe Grade 0.09%<p<0.115%< td=""><td>0.25</td><td>0.00</td></p<0.115%<></td></p<0.115%<>	5.00	0.00	0.010/	High Fe Grade 0.09% <p<0.115%< td=""><td>0.25</td><td>0.00</td></p<0.115%<>	0.25	0.00
	High Fe Grade 0.115% <p<0.15%< td=""><td>2.00</td><td>0.00</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%<>	2.00	0.00	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>3.00</td><td>1.00</td><td>Phosphorus</td><td></td><td></td><td></td></p<0.1%<>	3.00	1.00	Phosphorus			

	Port Stock Differentials to Qingdao Port (RMB/wet tonne)												
Port	Value	Change	Port	Value	Change	Port	Value	Change	Port	Value	Change		
Bayuquan	-45.00	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	-10.00	0.00	Jingtang	-10.00	0.00	Majishan	0.00	0.00	Shekou	0.00	0.00		
Dalian	-30.00	0.00	Langiao	0.00	0.00	Nantong	-10.00	0.00	Tianjin	0.00	0.00		

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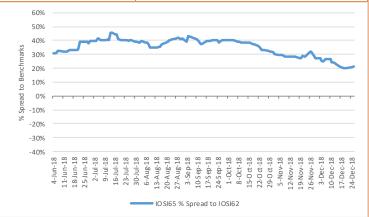
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IRON ORE INDEX PREMIUMS/DISCOUNTS

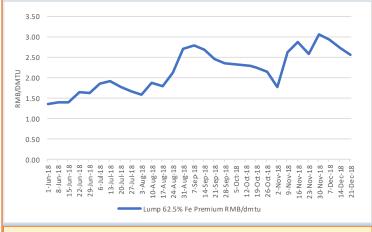
December 26, 2018	PORT STOCK II	NDEX (RMB/WT)
Fe Content	Spread to IOPI62	% Spread to IOPI62
58% Fe Fines	-168	-29.47%
65% Fe Fines	95	16.67%

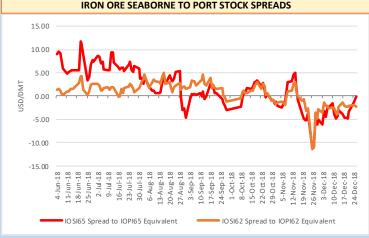


December 26, 2018 SEABORNE INDEX (USD/DMT) % Spread to IOSI62 Fe Content Spread to IOSI62 65% Fe Fines 15.15 21.19%



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

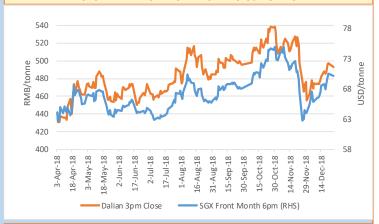




TOTAL IRON ORE INVENTORIES AT CHINA PORTS



FUTURE TRADING—FRONT MONTH CLOSING PRICE



IRON ORE PORT INVENTORIES

Week Ending December 21, 2018 (million tonnes)										
Province	This week	Change %	Low ⁴	High ⁴						
Jingtang	14.40	3.60%	13.29	19.00						
Qingdao	16.80	1.82%	16.09	19.97						
Caofeidian	18.10	-1.90%	16.70	25.30						
Tianjin	9.40	-3.09%	8.50	11.00						
Rizhao	14.30	-4.35%	14.30	19.00						
Total (35 Ports)	128.38	0.12%	127.72	150.04						

IRON ORE FUTURES CONTRACTS

	DCE				SGX	
Closing Date	26 Dec 3pm close				26 Dec 6 pm	
Contract	11905	Change	Change %	Jan'18	Change	Change %
Closing Price	493.0	7.0	1.44%	70.20	-0.36	-0.51%
Vol traded ('000 lots)	93.15	-0.6	-0.60%	7.36	-11.41	-60.78%
Open positions ('000 lots)	76.31	5.9	8.42%	112.52	11.17	11.02%
Day Low	484.5	4.0	0.83%	69.60	-0.71	-1.01%
Day High	494.0	2.0	0.41%	70.20	-0.56	-0.79%

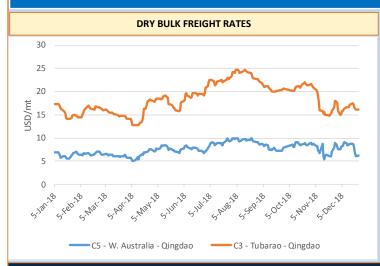
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Steel Spot Market Prices - China

Steel Spot Market RMB/tonne			
Product	21/12/2018	Change	Change %
ReBar HRB400	3,975.0	35	0.89%
Wirerod Q300 ¢6.5mm	4,070.0	30	0.74%
HRC Q235/SS400 5.5mm*1500*C	3,834.0	16	0.42%
CRC SPCC/ST12 1.0mm*1250*2500	4,266.0	13	0.31%
Medium & Heavy Plate Q235B 20mm	3,860.0	24	0.63%
GI ST02Z 1.0mm*1000*C	4,620.0	0	0.00%
Billet Q235 150*150mm	3,440.0	90	2.69%



	CHINESE STEEL EXPORT PRICES											
China Export Prices USD/tonne												
Product	Specification	Export tax (+)/Vate rebate (-)		Change								
			21/12/2018									
Rebar	BS4449 460B 12-25mm, + chrome	-13%	495	5								
Wire Rod	SAE1008 6.5-10mm +chrome	-9%	505	5								
Hot-rolled coil	SS400/Q235 4.0-10.mm	-9%	500	10								
Cold-rolled coil	SPCC 1.0mm	-13%	545	5								
Medium & Heavy plate	A-level Shipe plate 12-25mm	0%	520	0								
Galvanised	ST02Z/SGCC 1.0mm	-13%	560	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*1*tb/(15-0.01); Calculation formula for converting export prices of wire rod and hot-rolled steel into prices in hina's spot market = FOB* exchange rate *1*tb/(15-0.09); 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))	
Product	21/12/2018	14/12/2018	Change	Change %
Rebar	3,009	2,974	35	1.18%
Wirerod	1,023	1,005	18	1.79%
Hot-rolled Coil	1,887	1,944	-57	-2.93%
Medium & Thick Plate	951	995	-44	-4.42%
Cold-rolled Coil	1,075	1,081	-6	-0.56%
Total	7,945	7,999	-54	-0.68%

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 31 major 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	73.81	2.14	Mmi CFR Equivalent index for 12th October		
Coke	2,160	0	2nd grade met coke, Tangshan, incl. tax		
Steel Scrap	2,200	70	steel scrap (6mm) in Zhangjiagang, exl. tax		
Billet Cost	2,046	-862	Q234, incl. tax		
Rebar cost - Blast furnace	3,208	33	calculated based on theoretical w eight, incl. tax		
Rebar profit - Blast furnace	542	-23	based on Shanghai prices, incl. tax		
Hot-rolled coil cost - Blast furnace	3,271	38	based on actual w eight, incl. tax		
Hot-rolled coil proft - Blast furnace	549	-38	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

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IRON ORE INDEX SPECIFICATIONS, COMPILATION RATIONALE AND DATA EXCLUSIONS

·								
	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			
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 these companies. This data is normalised to the appropriate specifications and			
Alumina %	1.40	2.25	2.25	1.50				specifications and
Silica%	1.50	4.00	5.50	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 For more details on MMi's iron ore methodology please dow		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				
Sizing		Size below 6.3mm max 15%	Data Exclusions*					
			0 ,			62%	58%	65%
		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)	Loading within 4 weeks, Delivery within 8 weeks		Delivery within 2 weeks * Number of price submissions for iron ore indices					
Payment Terms	I/C at sight		I/C at sight or CAD index calculations today as they were anomalous and could not be ve				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.

AVERAGE IRON ORE SPECIFICATIONS APPLIED FOR BRAND PRICE ASSESSMENTS

PORT STOCK BRANDS			SEABORNE BRANDS								
December 26, 2018 SPECIFICATIONS APPLIED FOR 62% BRAND ASSESSMENTS				SPECIFICATIONS APPLIED FOR 62% BRAND ASSESSMENTS				SESSMENTS			
	Fe	Alumina	Silica	Phos	Moisture		Fe	Alumina	Silica	Phos	Moisture
Roy Hill	60.76%	2.35%	4.31%	0.060%	8.58%	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	61.59%	2.33%	3.61%	0.100%	9.33%	PB Fines 62%	62.00%	2.60%	4.30%	0.090%	10.00%
Newman Fines	62.21%	2.49%	4.22%	0.090%	7.97%	Newman Fines	62.80%	2.20%	4.30%	0.080%	6.40%
MAC Fines	60.81%	2.30%	4.73%	0.090%	7.43%	MAC Fines	61.00%	2.70%	4.70%	0.110%	9.30%
Jimblebar Blended Fines	61.33%	2.88%	4.23%	0.110%	6.85%	Jimblebar Blended Fines	61.79%	2.67%	4.08%	0.115%	7.16%
Carajas Fines	64.86%	1.29%	2.07%	0.060%	8.10%	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	62.75%	1.51%	4.85%	0.070%	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%
December 26, 2018 SPECIFICATIONS APPLIED FOR 58% BRAND ASSESSMENTS											

December 26, 2018	SPECIFICATIONS APPLIED FOR 58% BRAND ASSESSMENTS				
	Fe	Alumina	Silica	Phos	Moisture
SSF	56.53%	3.08%	6.19%	0.050%	9.20%
FMG Blended Fines	58.26%	2.69%	5.65%	0.060%	7.43%
Robe River	56.63%	2.88%	1.85%	0.040%	9.09%
Western Fines	57.78%	2.92%	7.37%	0.060%	7.46%
Atlas Fines	56.59%	2.55%	7.14%	0.080%	8.46%
Yandi	57.22%	1.38%	6.40%	0.040%	9.02%

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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