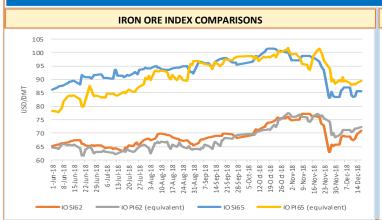
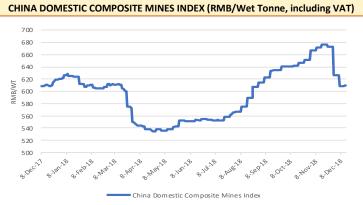


Daily	Iron Ore	Inde	x Repo	ort								Dece	mber 1	7, 201	8
						IRON ORI	E PORT S	TOCK INDEX	(IOPI)						
ecember	17, 2018		FOT C	(ingdao (in	c. 16% VAT), I	RMB/wet t	onne			CFR Qingd	ao Equiv	valent (exc. 16	% VAT), USD	dry tonne	1
ndex	Fe Content	Price	Change	Change %	MTD	YTD ²	Low ²	High ²	Price	Change	Chang	ge % MTD	YTD²	Low ²	High ²
OPI62	62% Fe Fines	560	6	1.1%	549	508	443	603	72.34	0.65	0.9	% 70.96	67.47	61.36	77.89
OPI58	58% Fe Fines	387	5	1.3%	385	359	304	419	48.82	0.57	1.2	% 48.65	46.44	40.67	52.71
OPI65	65% Fe Fines	686	8	1.2%	682	658	541	784	89.48	0.89	1.0	% 89.00	88.54	75.83	101.71
		IR	ON ORE SEA	ABORNE II	NDEX (IOSI)						MA	ARKET COMIV	IENTARY		
ecember	17, 2018			CFR Qin	gdao, USD/dr	y tonne			I			mt of iron ore are e			
ndex	Fe Content	Price	Change	Change %	MTD	YTD ³	Low ³	High ³	While some s	small ports alor	ng the Yang	gtze River will receiv	e greater arrival	s, cargoes arriv	ing at all majo
OSI62	62% Fe Fines	71.55	2.15	3.1%	68.45	68.80	62.95	86.20	1			orne spot sales have e material and to re		_	_
OSI65	65% Fe Fines	85.55	-0.05	-0.1%	85.37	93.47	83.20	101.50	higher dema	nd in Q1'2019.					
						IRON ORE	PORT L	JMP INDEX	(IOPLI)						
Veek Endin	ng December 14		FOT C	Qingdao (in	c. 16% VAT),					CFR Qingo	lao Equi	valent (exc. 16	% VAT), USD	/dry tonne	1
ndex	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 ³
OPLI62	62.5% Fe Lump	743	-8	-1.1%	747	651	565	789	93.39	-1.16	-1.2	% 93.97	83.79	76.63	98.50
			IROI	N ORE DO	MESTIC CON	CENTRAT	E SPOT P	RICE ASSES	SMENTS A	ND COMP	OSITE I	NDEX			
Week Endi	ng December 1	4, 2018				RMB/tor	nne (exclu	ding tax) 4				USD/tonn	e (excluding	tax) ⁴	
Province	Region	Product	:	Basis	This week	Change	<u> </u>	Low ²	High ²	Thi	s week	Change %			High ²
lebei	Hanxing	66% Fe	Concentrate	Dry	651	1.1%		579	718	g	4.55	1.04%	84.	09	104.28
lebei	Qian'an	65% Fe	Concentrate	Dry	705	2.2%		630	815	10	02.39	2.12%	91.	50	118.37
iaoning	Anshan	65% Fe	Concentrate	Wet	535	0.0%		445	565	7	7.70	-0.05%	64.	63	82.06
Shandong	Zibo	65% Fe	Concentrate	Dry	740	0.0%		620	815	10	07.47	-0.05%	90.	05	118.37
Week Endi	ng December 1	4, 2018			This week	Change	%	Low ⁵	High ⁵			lied: RMB/USD = 6.89 ite applied: RMB/USD			
China Mine	es Concentrate	Composite	Index RMB/	WT	610.24	0.2%		534.50	676.26	Weekly	excitatige to	пс арриса. пічть/ 030	0.5200 East 1211	ionais	
	IRON C	RE PORT	INDEX, FOT	QINGDA	O (RMB/WT)			IRON O	RE SEABO	RNE IN	DEX, CFR QIN	GDAO (USE	D/DMT)	
850 —								105							
750 —				~	~~~~~	W		95 —		N		~~~			
650 —				W		٠ L	~	85		100-				\	
550		√ ~				~~~		75							
				~~				, ,		~	~		ممر	_ 1	~~
450						~~~		65						V	
350		~~~						55							
250		5 95 95	95 95	9 9 9	9 9 9	9 9	.95	45	0. 0.	a a	0. 0.	Q Q			a. a.
2.APT. 77.APT	'y wat 12 wat 12 mi	8 Jun 18 11 18	Jul 3 Jul 18 AUS 3	3 AUB 18 295	260 780 4.78 4.78	MOV128 MOV128	ecryo	7.Jun. 18 Jun.	29/11/12/11/12	27.111.128 AUF	24 AUE 18	Sep. 2. Sep. 2. Oc.	790 E.78 7.101.75	6 Mon 30 Mon 3	3 Janlecins
ν	, ,,							, ,	,	. ~				λ.	~
	•	IO PI 6	52	PI 58	— 10 PI 65						10:	SI62 —— IO	SI65		
			IRC	ON ORE PO	ORT STOCK I	NDEX MO	NTHLY, C	QUARTERLY	AND YEAR	R-TO-DATE	AVERA	AGES			
December	17, 2018		FOT	Qingdao (in	ic. 16% VAT),	RMB/wet t	onne			CFR Qingo	dao Equi	valent (exc. 16	% VAT), USD,	dry tonne	1
ndex	Fe Content	August	September	October	November	MTD	QTD	YTD²	August	Septembe	r Octob	er Novembe	r MTD	QTD	YTD²
OPI62	62% Fe Fines	505	513	564	564	549	569	508	64.29	63.41	65.2	5 72.55	70.96	73.26	67.47
OPI58	58% Fe Fines	363	385	401	401	385	400	359	44.14	44.86	45.8	50.47	48.65	50.40	46.44
OPI65	65% Fe Fines	701	732	760	760	682	736	658	82.19	85.29	92.1	.3 99.05	89.00	95.79	88.54
	N ORE SEABOR	NE INDE	X MONTHLY				ATE AVE	RAGES				FREIGHT RA			
December	17, 2018			CFR Qin	igdao, USD/di	ry tonne			December 1				ATES - DRY BU		
ndex	Fe Content	August	September	October	November	MTD	QTD	YTD ³	Route		gnation	Change	Change %	Low 5	High ⁵
OSI62	62% Fe Fines	67.89	68.79	72.31	72.91	68.45	71.76	68.80	W. Australia -	-		8.77 0.25	2.99%	5.109	10.002
OSI65	65% Fe Fines	94.04	96.48	98.97	94.05	85.37	94.37	93.47	Tubarao - Qing			17.20 0.49	2.91%	12.705	24.76
IRON ORE PORT LUMP INDEX MONTHLY, QUARTERLY AND YEAR-TO-DATE AVERAGES															
	- D		FOT (Qingdao (in	nc. 16% VAT),	RMB/wet	tonne			CFR Qingo	lao Equi	valent (exc. 16	% VAT), USD	dry tonne	, ¹
Week Endin	ng December 14														
Week Endin	Fe Content	August	Septembe	r October	November	MTD	QTD	YTD ³	August	Septemb	er Octo	ber Novemb	er MTD	QTD	YTD²
	-	August 652	Septembe 695	720	November 771	MTD 747	QTD 751	YTD ³ 651	August 81.74	September 87.49	er Octo 89.		er MTD 93.97	QTD 93.79	YTD ² 83.79



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IRON ORE BRAND SPOT PRICE ASSESMENTS

December 17, 2018	PORT STOCK INDEX (RMB/WT)					
	Price	Change	Diff to IOPI62			
Roy Hill	523	7	-37			
SIMEC Fines	442	14	-118			
PB Fines	542	6	-18			
Newman Fines	543	3	-17			
MAC Fines	517	6	-43			
Jimblebar Blended Fines	481	6	-79			
Carajas Fines	680	9	120			
Brazilian SSF	503	17	-57			
Brazilian Blend Fines	557	11	-3			
RTX Fines	470	8	-90			

December 17, 2018	SEABORNE INDEX (USD/DMT)				
	Price	Change	Diff to IOSI62		
Roy Hill	66.06	2.05	-5.49		
SIMEC Fines	62.04	2.75	-9.51		
PB Fines	70.46	1.75	-1.09		
Newman Fines	72.99	1.75	1.44		
MAC Fines	66.59	1.95	-4.96		
Jimblebar Blended Fines	60.16	3.50	-11.39		
Carajas Fines	84.96	1.60	13.41		
Brazilian SSF	73.19	2.85	1.64		
Brazilian Blend Fines	74.44	2.10	2.89		
RTX Fines	62.16	2.85	-9.39		

KIA FILLES	470	•	-90			
December 17, 2018	PORT STOCK INDEX (RMB/WT)					
	Price	Change	Diff to IOPI58			
SSF	344	5	-43			
FMG Blended Fines	390	5	3			
Robe River	405	5	18			
Western Fines	357	5	-30			
Atlas Fines	342	5	-45			
Yandi	438	5	51			

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
	High Grade Fe 60 - 63%	12.00	0.00		High Grade Fe 60 - 63%	2.75	0.00
	High Grade Fe 63 - 64%	40.00	0.00		High Grade Fe 63 - 64%	2.00	0.00
1% Fe	High Grade Fe 64 - 65%	40.00	0.00	1% Fe	High Grade Fe 64 - 65%	2.00	0.00
	High Grade Fe 65 - 65.5%	40.00	0.00		High Grade Fe 65 - 65.5%	2.00	0.00
	Low Grade Fe	15.00	0.00				
	High Fe Grade Al <2.25%	34.00	3.00		High Fe Grade Al <2.25%	4.75	0.00
1% Alumina	High Fe Grade Al 2.25-4%	53.00	0.00	1% Alumina	High Fe Grade Al 2.25-4%	0.25	0.00
170 Alullilla	Low Fe Grade Al <2.25%	83.00	0.00				
	Low Fe Grade Al 2.25-4%	14.00	0.00				
	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	-3.00	1% Silica	High Fe Grade Si 4 - 6.5%	1.50	-0.50
	Low Fe Grade	13.00	0.00				
0.010/	High Fe Grade 0.09% <p<0.115%< td=""><td>3.00</td><td>0.00</td><td>0.01%</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%<>	3.00	0.00	0.01%	High Fe Grade 0.09% <p<0.115%< td=""><td>0.25</td><td>0.00</td></p<0.115%<>	0.25	0.00
0.01%	High Fe Grade 0.115% <p<0.15%< td=""><td>5.00</td><td>0.00</td><td></td><td>High Fe Grade 0.115%<p<0.15%< td=""><td>2.25</td><td>-0.50</td></p<0.15%<></td></p<0.15%<>	5.00	0.00		High Fe Grade 0.115% <p<0.15%< td=""><td>2.25</td><td>-0.50</td></p<0.15%<>	2.25	-0.50
Phosphorus	Low Fe Grade 0.09 <p<0.1%< td=""><td>2.00</td><td>0.00</td><td>Phosphorus</td><td></td><td></td><td></td></p<0.1%<>	2.00	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	-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	-20.00	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	-45.00	0.00	Lanqiao	0.00	0.00	Nantong	-20.00	0.00	Tianjin	5.00	0.00

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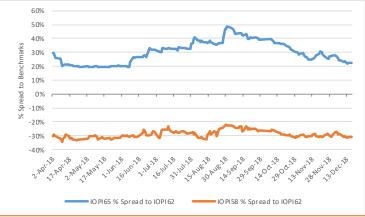
December 17, 2018



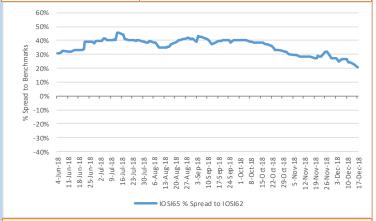
December 17, 2018

IRON ORE INDEX PREMIUMS/DISCOUNTS

December 17, 2018		PORT STOCK INDEX (RMB/WT)				
	Fe Content	Spread to IOPI62	% Spread to IOPI62			
	58% Fe Fines	-173	-30.89%			
	65% Fe Fines	126	22.50%			

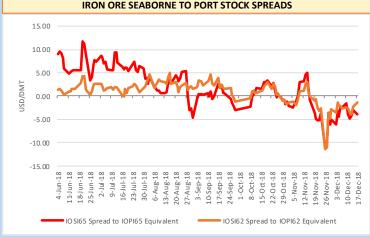


December 17, 2018 SEABORNE INDEX (USD/DMT) % Spread to IOSI62 Fe Content Spread to IOSI62 65% Fe Fines 14.00 19.57%



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

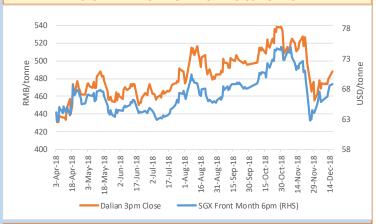




TOTAL IRON ORE INVENTORIES AT CHINA PORTS



FUTURE TRADING—FRONT MONTH CLOSING PRICE



IRON ORE PORT INVENTORIES

	Week Ending Dece	mber 14, 2018 (millior	tonnes)	
Province	This week	Change %	Low ⁴	High ⁴
Jingtang	13.90	1.46%	13.29	19.00
Qingdao	16.50	2.55%	16.09	19.97
Caofeidian	18.45	-0.81%	16.70	25.30
Tianjin	9.70	-1.02%	8.50	11.00
Rizhao	14.95	1.36%	14.75	19.00
Total (35 Ports)	128.22	0.39%	127.72	150.04

IRON ORE FUTURES CONTRACTS

		DCE			SGX	
Closing Date	1	17 Dec 3pm close			17 Dec 6 pm	1
Contract	11905	Change	Change %	Dec'18	Change	Change %
Closing Price	488.5	6.5	1.35%	68.88	0.28	0.41%
Vol traded ('000 lots)	104.65	19.4	22.73%	5.86	2.40	69.30%
Open positions ('000 lots)	58.82	-1.3	-2.21%	96.34	-1.79	-1.82%
Day Low	482.5	5.0	1.05%	68.85	1.02	1.50%
David Bah	402.0	7.0	1 440/	CO 00	0.20	0.449/

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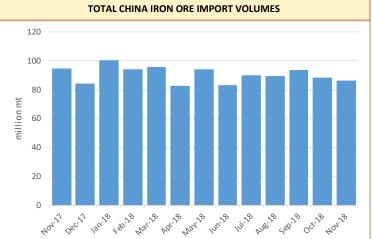
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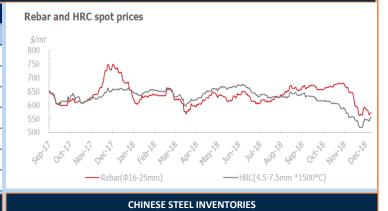
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Steel Spot Market Prices - China

Steel Spot Market RMB/tonne			
Product	14/12/2018	Change	Change %
ReBar HRB400 ф18mm	3,940.0	-59	-1.48%
Wirerod Q300 ¢6.5mm	4,040.0	-63	-1.54%
HRC Q235/SS400 5.5mm*1500*C	3,818.0	68	1.81%
CRC SPCC/ST12 1.0mm*1250*2500	4,253.0	-20	-0.47%
Medium & Heavy Plate Q235B 20mm	3,836.0	-20	-0.52%
GI ST02Z 1.0mm*1000*C	4,620.0	-5	-0.11%
Billet Q235 150*150mm	3,350.0	40	1.21%



CHINESE STEEL EXPORT PRICES											
China Export Prices USD	/tonne										
Product	Specification	Export tax (+)/Vate rebate (-)		Change							
			14/12/2018								
Rebar	BS4449 460B 12-25mm, + chrome	-13%	490	-15							
Wire Rod	SAE1008 6.5-10mm +chrome	-9%	500	-20							
Hot-rolled coil	SS400/Q235 4.0-10.mm	-9%	490	-5							
Cold-rolled coil	SPCC 1.0mm	-13%	540	0							
Medium & Heavy plate	A-level Shipe plate 12-25mm	0%	520	-20							
Galvanised	ST02Z/SGCC 1.0mm	-13%	555	-15							

Note: Calculation formula for converting export prices of rebar, cold-rolled steel and galvanizing into prices in China's spot market = FOB* exchange rate*16/(16-0.8); Calculation formula for converting export prices of wire rod and hot-rolled steel into prices in hina's spot market = FOB* exchange rate *16/(16-0.09); 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	14/12/2018	7/12/2018	Change	Change %		
Rebar	2,974	2,931	43	1.47%		
Wirerod	1,005	978	27	2.76%		
Hot-rolled Coil	1,944	2,026	-82	-4.05%		
Medium & Thick Plate	995	1,021	-26	-2.55%		
Cold-rolled Coil	1,081	1,102	-21	-1.91%		
Total	7,999	8,058	-59	-0.73%		

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	71.67	0.50	Mmi CFR Equivalent index for 12th October			
Coke	2,160	0	2nd grade met coke, Tangshan, incl. tax			
Steel Scrap	2,130	80	steel scrap (6mm) in Zhangjiagang, exl. tax			
Billet Cost	2,908	14	Q234, incl. tax			
Rebar cost - Blast furnace	3,175	12	calculated based on theoretical w eight, incl. tax			
Rebar profit - Blast furnace	565	-102	based on Shanghai prices, incl. tax			
Hot-rolled coil cost - Blast furnace	3,233	14	based on actual w eight, incl. tax			
Hot-rolled coil proft - Blast furnace	587	76	based on Shanghai prices, incl. tax			
		. 16 .				

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

	Iron Ore	Iron Ore Index Compilation Rational and Data Exclusions						
	65% Fe Fines	62% Fe Fines	58% Fe Fines	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. indices are calculated using detailed transaction-level data submitted to N			
Alumina %	1.40	2.25	2.25	1.50	these companies. This data is normalised to the appropriate specifications ar			pecifications and
Silica%	1.50	4.00	5.50	screened to remove outliers before volume-weighted aver 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 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 below 10mm for at least 90% of cargo; Size below		Sina halaw C 2mm may 150/	Data Exclusions*					
Sizing	Granular Size be	erow forming for at rea	ist 90% or cargo;	Size below 6.3mm max 15%		62%	58%	65%
Sizing	maximu	ım of 40% below 150) micron	Size above 31.15mm max 25%	Port Index	0	0	0
					Seaborne index	0		0
Pricing Point	Qingdao F	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	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.

AVERAGE IRON ORE SPECIFICATIONS APPLIED FOR BRAND PRICE ASSESSMENTS

PORT STOCK BRANDS			SEABORNE BRANDS								
December 17, 2018 SPECIFICATIONS APPLIED FOR 62% BRAND ASSESSMENTS				SPECIFICATIONS APPLIED FOR 62% BRAND ASSESSMENTS				ESSMENTS			
	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	61.57%	2.33%	3.60%	0.100%	9.34%	PB Fines 62%	62.00%	2.60%	4.30%	0.090%	10.00%
Newman Fines	62.31%	2.47%	4.13%	0.090%	8.01%	Newman Fines	62.80%	2.20%	4.30%	0.080%	6.40%
MAC Fines	60.83%	2.28%	4.64%	0.090%	7.44%	MAC Fines	61.00%	2.70%	4.70%	0.110%	9.30%
Jimblebar Blended Fines	61.39%	2.88%	4.18%	0.110%	6.83%	Jimblebar Blended Fines	61.79%	2.67%	4.08%	0.115%	7.16%
Carajas Fines	64.77%	1.21%	2.32%	0.060%	8.20%	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	62.85%	1.46%	4.87%	0.070%	8.36%	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 17, 2018 SPECIFICATIONS APPLIED FOR 58% BRAND ASSESSMENTS											

December 17, 2018	SPECIFICATIONS APPLIED FOR 58% BRAND ASSESSMENTS					
	Fe	Alumina	Silica	Phos	Moisture	
SSF	56.53%	3.04%	6.18%	0.050%	9.34%	
FMG Blended Fines	58.26%	2.67%	5.62%	0.060%	7.48%	
Robe River	56.63%	2.88%	1.85%	0.040%	9.09%	
Western Fines	57.73%	2.88%	7.25%	0.060%	7.45%	
Atlas Fines	56.59%	2.55%	7.14%	0.080%	8.46%	
Yandi	57.30%	1.37%	6.31%	0.040%	9.15%	

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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