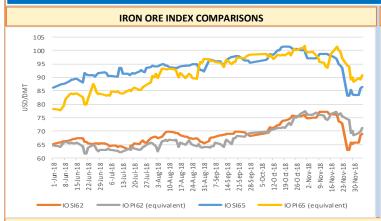
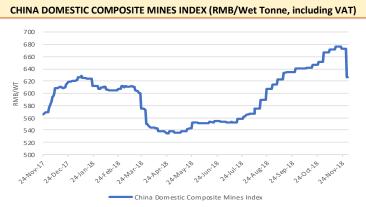


	II OII OI	e Inde	x Repo	ort								Decen	nber <u>05</u>	5, 2018	3
						IRON ORE	E PORT S	TOCK INDEX	(IOPI)						
ecember	05, 2018		FOT Q	ingdao (in	c. 16% VAT), i	RMB/wet t	onne			CFR Qingd	ao Equivale	ent (exc. 16%	VAT), USD/	dry tonne	1
dex	Fe Content	Price	Change	Change %	MTD	YTD²	Low <sup>2</sup>	High <sup>2</sup>	Price	Change	Change %	6 MTD	YTD²	Low <sup>2</sup>	High <sup>2</sup>
PI62	62% Fe Fines	548	7	1.3%	543	506	443	603	71.16	1.43	2.1%	70.04	67.31	61.36	77.89
PI58	58% Fe Fines	389	-2	-0.5%	390	358	304	419	49.40	0.06	0.1%	49.24	46.36	40.67	52.71
PI65	65% Fe Fines	691	7	1.0%	689	657	541	784	90.73	1.57	1.8%	89.83	88.53	75.83	101.71
		IRO	ON ORE SEA	ABORNE II	NDEX (IOSI)						MARK	СЕТ СОММЕ	NTARY		
ecember	05, 2018			CFR Qing	gdao, USD/dr	y tonne					•	day, inline with in			
dex	Fe Content	Price	Change	Change %	MTD	YTD <sup>3</sup>	Low <sup>3</sup>	High <sup>3</sup>				trading at index – low grade mater			
SI62	62% Fe Fines	69.05	0.65	1.0%	67.73	68.80	62.95	86.20	I			major ports drop ure given recent i			
SI65	65% Fe Fines	86.35	0.40	0.5%	85.27	94.01	83.20	101.50	1 '	uts in Tangshan					
						IRON ORF	PORT LI	JMP INDEX	(IOPLI)						
eek Endir	ng November 30		FOT C	ingdao (in	c. 16% VAT), I			JIVII IIVDEX	(IOI EI)	CFR Qingd	ao Equivale	ent (exc. 16%	VAT), USD/	dry tonne	1
dex	Fe Content	Price	W-o-W	Change %	MTD	YTD <sup>3</sup>	Low <sup>3</sup>	High <sup>3</sup>	Price	W-oW	Change %	6 MTD	YTD <sup>3</sup>	Low <sup>3</sup>	High <sup>3</sup>
PLI62	62.5% Fe Lump	769	-11	-1.4%	771	646	565	789	95.94	-1.50	-1.5%	96.21	83.19	76.63	98.50
			IROI	N ORF DO	MESTIC CON	ICFNTRAT	F SPOT P	PRICE ASSES	SMENTS A	ND COMP	OSITE IND	FX			
eek Endi	ng November 3	0. 2018						ding tax) 4				USD/tonne	(excluding t	ax) <sup>4</sup>	
ovince	Region	Product		Basis	This week	Change	<u> </u>	Low <sup>2</sup>	High <sup>2</sup>	This	week	Change %	Low		High <sup>2</sup>
ebei	Hanxing	66% Fe (	Concentrate	Dry	695	-2.5%		579	718		0.07	-2.7%	83.3		103.38
ebei	Qian'an	65% Fe (	Concentrate	Dry	700	-13.0%	<del></del>	630	815	10	0.79	-13.2%	90.7	'1	117.35
aoning	Anshan	65% Fe (	Concentrate	Wet	555	0.0%		445	565	7	9.91	-0.2%	64.0	17	81.35
nandong	Zibo	65% Fe (	Concentrate	Dry	740	-9.2%		620	815	10	6.55	-9.4%	89.2	!7	117.35
eek Endi	ng November 3	0, 2018			This week	Change	%	Low <sup>5</sup>	High <sup>5</sup>			RMB/USD = 6.8476			
ina Mine	es Concentrate	Composite	Index RMB/	wt	626.41	-6.8%		534.50	676.26	<sup>4</sup> Weekly	exchange rate a	applied: RMB/USD (	5.9208 SLast 12 r	nonths	
	IRON C	RE PORT	INDEX, FOT	QINGDA	O (RMB/WT	)			IRON O	RE SEABO	RNE INDE	x, CFR QING	DAO (USD	/DMT)	
750 — 650 — 550 <b>—</b> 450 <b>—</b> 350 <b>—</b>	<u></u>			~~ ~~	~~~	<b>,</b>	\ \ \ \	95 — 85 — 65 — 55 — 65			~		ممر	~	\ \ \
	•	IO PIG	irc	ON ORE PO	ORT STOCK I	NDEX MO				R-TO-DATE	IO SI62	IO SI			
ecember	05, 2018		FOT	Qingdao (in	c. 16% VAT), I	RMB/wet t	onne			CFR Qingo	ao Equivale	ent (exc. 16%	VAT), USD/	dry tonne	'
dex	Fe Content		September			MTD	QTD	YTD²	-	<u> </u>		November	MTD	QTD	YTD <sup>2</sup>
PI62	62% Fe Fines	505	513	564	564	543	572	506	64.29	63.41	65.25	72.55	70.04	73.69	67.31
PI58	58% Fe Fines	363	385	401	401	390	403	358	44.14	44.86	45.84	50.47	49.24	50.76	46.36
PI65	65% Fe Fines	701	732	760	760	689	746	657	82.19	85.29	92.13	99.05	89.83	97.11	88.53
	N ORE SEABOR	(NE INDE)	MONTHLY				ALE AVER	KAGES	D	2010	F	REIGHT RAT		K LICA (	
ecember	05, 2018				igdao, USD/dr	-			December 4				res - DRY BUL		
	Fe Content	-	September			MTD	QTD	YTD <sup>3</sup>	Route		gnation	Change	Change %	Low 5	High <sup>5</sup>
		67.89	68.79	72.31	72.91	67.73	72.28	68.80	W. Australia -	-	C5 <b>8.04</b>		6.96%	5.109	10.002
SI62	62% Fe Fines	_		98.97	94.05	85.27	95.90	94.01	Tubarao - Qing	gdao	C3 <b>15.1</b> !		1.56%	12.705	24.76
SI62	62% Fe Fines 65% Fe Fines	94.04	96.48												
SI62	+	94.04			ORT LUMP II	NDEX MO	NTHLY, C	QUARTERLY	AND YEAR						
odex OSI62 OSI65 Veek Endin	+	94.04	IRO	ON ORE P	ORT LUMP II oc. 16% VAT),			QUARTERLY	AND YEAR			S ent (exc. 16%	VAT), USD/	dry tonne	1
)SI62 )SI65	65% Fe Fines		IR (	ON ORE Po				QUARTERLY .		CFR Qingd	ao Equivale			dry tonne	1 YTD²



# December 05, 2018





# IRON ORE BRAND SPOT PRICE ASSESMENTS

December 05, 2018	PORT	STOCK INDEX (R	MB/WT)
	Price	Change	Diff to IOPI62
Roy Hill	510	6	-38
SIMEC Fines	441	8	-107
PB Fines	529	7	-19
Newman Fines	530	3	-18
MAC Fines	523	20	-25
Jimblebar Blended Fines	460	-5	-88
Carajas Fines	683	6	135
Brazilian SSF	506	7	-42
Brazilian Blend Fines	554	7	6
RTX Fines	438	7	-110

RTX Fines	438	7	-110
December 05, 2018	PORT S	STOCK INDEX (R	MB/WT)
	Price	Change	Diff to IOPI58
SSF	348	3	-41
FMG Blended Fines	391	1	2
Robe River	363	-6	-26
Western Fines	376	5	-13
Atlas Fines	361	3	-28
Yandi	446	-1	57

I	December 05, 2018	SEABORNE INDEX (USD/DMT)					
		Price	Change	Diff to IOSI62			
	Roy Hill	61.77	0.65	-7.28			
	SIMEC Fines	55.12	0.65	-13.93			
	PB Fines	67.97	0.65	-1.08			
	Newman Fines	71.25	0.65	2.20			
	MAC Fines	62.72	0.65	-6.33			
	Jimblebar Blended Fines	53.50	0.65	-15.55			
	Carajas Fines	86.37	0.65	17.32			
	Brazilian SSF	69.05	0.65	0.00			
	Brazilian Blend Fines	72.30	0.65	3.25			
	RTX Fines	57.50	0.65	-11.55			

# IRON ORE INDEX NORMALISATION DIFFERENTIALS

Port	Stock Index Product Differentials (	RMB/wet tonr	ne)	Seaborne Index Product Differentials (UDS/dry tonne)				
	Applicable range	Value	Change		Applicable range	Value	Change	
	High Grade Fe 60 - 63%	13.00	0.00		High Grade Fe 60 - 63%	3.50	0.00	
	High Grade Fe 63 - 64%	48.00	0.00		High Grade Fe 63 - 64%	2.25	0.00	
1% Fe	High Grade Fe 64 - 65%	48.00	0.00	1% Fe	High Grade Fe 64 - 65%	2.25	0.00	
	High Grade Fe 65 - 65.5%	48.00	0.00		High Grade Fe 65 - 65.5%	2.25	0.00	
	Low Grade Fe	15.00	0.00					
	High Fe Grade Al <2.25%	34.00	0.00		High Fe Grade Al <2.25%	6.00	0.00	
1% Alumina	High Fe Grade Al 2.25-4%	68.00	0.00	40/ 41	High Fe Grade Al 2.25-4%	0.50	0.00	
1% Alullilla	Low Fe Grade Al <2.25%	80.00	0.00	1% Alumina				
	Low Fe Grade Al 2.25-4%	20.00	-5.00					
	High Fe Grade Si <4%	2.00	0.00		High Fe Grade Si <4%	2.00	0.00	
1% Silica	High Fe Grade Si 4-6.5%	38.00	0.00	1% Silica	High Fe Grade Si 4 - 6.5%	3.00	0.00	
	Low Fe Grade	2.00	-2.00					
0.01%	High Fe Grade 0.09% <p<0.115%< td=""><td>2.00</td><td>0.00</td><td>0.019/</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%<>	2.00	0.00	0.019/	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>9.00</td><td>0.00</td><td>0.01%</td><td>High Fe Grade 0.115%<p<0.15%< td=""><td>2.75</td><td>0.00</td></p<0.15%<></td></p<0.15%<>	9.00	0.00	0.01%	High Fe Grade 0.115% <p<0.15%< td=""><td>2.75</td><td>0.00</td></p<0.15%<>	2.75	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				

			Po	ort Stock Differe	entials to Qingo	lao Port (RMB/w	et tonne)				
Port	Value	Change	Port	Value	Change	Port	Value	Change	Port	Value	Change
Bayuquan	-40.00	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	0.00	0.00	Jingtang	-5.00	0.00	Majishan	0.00	0.00	Shekou	0.00	0.00
Dalian	-40.00	0.00	Lanqiao	0.00	0.00	Nantong	-20.00	0.00	Tianjin	-15.00	0.00

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# December 05, 2018

### **IRON ORE INDEX PREMIUMS/DISCOUNTS**

December 05, 2018		PORT STOCK INDEX (RMB/WT)				
	Fe Content	Spread to IOPI62	% Spread to IOPI62			
	58% Fe Fines	-159	-29.01%			
	65% Fe Fines	143	26.09%			



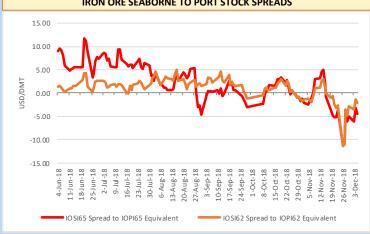
#### December 05, 2018 SEABORNE INDEX (USD/DMT) % Spread to IOSI62 Fe Content Spread to IOSI62 65% Fe Fines 17.30 25.05%



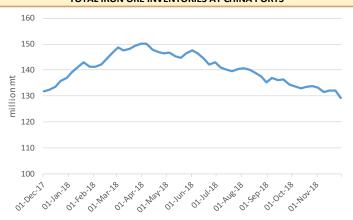
### WEEKLY IRON ORE PORT STOCK LUMP PREMIUM (62.5% FE LUMP-62% FE FINES)



### IRON ORE SEABORNE TO PORT STOCK SPREADS



# **TOTAL IRON ORE INVENTORIES AT CHINA PORTS**



# FUTURE TRADING—FRONT MONTH CLOSING PRICE



	Week Ending Nove	mber 30, 2018 (millior	tonnes)	
Province	This week	Change %	Low <sup>4</sup>	High <sup>4</sup>
Jingtang	13.29	-3.90%	13.29	19.00
Qingdao	16.90	-2.31%	16.20	19.97
Caofeidian	19.24	0.21%	16.70	25.30

**IRON ORE PORT INVENTORIES** 

Province	This week	Change %	Low <sup>4</sup>	High <sup>4</sup>
Jingtang	13.29	-3.90%	13.29	19.00
Qingdao	16.90	-2.31%	16.20	19.97
Caofeidian	19.24	0.21%	16.70	25.30
Tianjin	9.90	-1.49%	8.50	11.00
Rizhao	14.82	-3.77%	14.73	19.00
Total (35 Ports)	129.26	-2.18%	129.26	150.04

l			DCE			SGX	
l	Closing Date	0	5 Dec 3pm clo	ose		05 Dec 6 pm	
l	Contract	11905	Change	Change %	Dec'18	Change	Change %
l	Closing Price	478.0	6.0	1.27%	67.65	0.93	1.39%
l	Vol traded ('000 lots)	97.82	12.4	14.53%	8.13	-1.92	-19.12%
l	Open positions ('000 lots)	51.94	0.3	0.59%	99.65	-4.11	-3.96%
	Day Low	467.5	5.5	1.19%	67.00	-1.80	-2.62%
	Day High	480.0	8.0	1.69%	67.65	0.84	1.26%

**IRON ORE FUTURES CONTRACTS** 

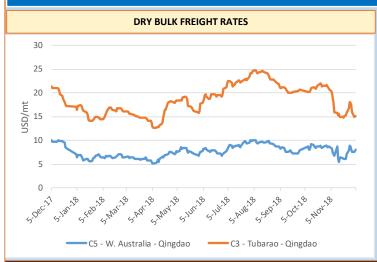
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# December 05, 2018





# **Steel Spot Market Prices - China**

Steel Spot Market RMB/tonne			
Product	30/11/2018	Change	Change %
ReBar HRB400 ф18mm	3,914.0	-198	-4.82%
Wirerod Q300 ¢6.5mm	3,979.0	-206	-4.92%
HRC Q235/SS400 5.5mm*1500*C	3,756.0	7	0.19%
CRC SPCC/ST12 1.0mm*1250*2500	4,176.0	-174	-4.00%
Medium & Heavy Plate Q235B 20mm	3,750.0	-200	-5.06%
GI ST02Z 1.0mm*1000*C	4,585.0	-105	-2.24%
Billet Q235 150*150mm	3,080.0	-250	-7.51%



	CHINESE STEEL EXPORT PRICES									
China Export Prices USD/tonne										
Product	Specification	Export tax (+)/Vate rebate (-)		Change						
			30/11/2018							
Rebar	BS4449 460B 12-25mm, + chrome	-13%	505	-5						
Wire Rod	SAE1008 6.5-10mm +chrome	-9%	520	-10						
Hot-rolled coil	SS400/Q235 4.0-10.mm	-9%	495	-5						
Cold-rolled coil	SPCC 1.0mm	-13%	540	-10						
Medium & Heavy plate	A-level Shipe plate 12-25mm	0%	540	-10						
Galvanised	ST02Z/SGCC 1.0mm	-13%	570	-20						

# Note: Calculation formula for converting export prices of rebar, cold-rolled steel and galvanizing into prices in China's spot market = FOB\* exchange rate\*1fb(116-0.13); Calculation formula for converting export prices of wire rod and hot-rolled steel into prices in hina's spot market = FOB\* exchange rate \*1fb(116-0.09); 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	30/11/2018	23/11/2018	Change	Change %		
Rebar	2,980	3,108	-128	-4.12%		
Wirerod	1,002	1,031	-29	-2.81%		
Hot-rolled Coil	2,124	2,156	-32	-1.48%		
Medium & Thick Plate	1,079	1,096	-17	-1.55%		
Cold-rolled Coil	1,155	1,148	7	0.61%		
Total	8,340	8,539	-199	-2.33%		

**CHINESE STEEL INVENTORIES** 

# 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	69.99	-5.59	Mmi CFR Equivalent index for 12th October		
Coke	2,160	-350	2nd grade met coke, Tangshan, incl. tax		
Steel Scrap	1,970	-230	steel scrap (6mm) in Zhangjiagang, exl. tax		
Billet Cost	2,871	-293	Q234, incl. tax		
Rebar cost - Blast furnace	3,140	-294	calculated based on theoretical w eight, incl. tax		
Rebar profit - Blast furnace	560	134	based on Shanghai prices, incl. tax		
Hot-rolled coil cost - Blast furnace	3,196	-293	based on actual w eight, incl. tax		
Hot-rolled coil proft - Blast furnace	394	153	based on Shanghai prices, incl. tax		
Nata 4 Casta in the table and advalated based					

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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<sup>&</sup>lt;sup>3</sup> 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.



# December 05, 2018

#### IRON ORE INDEX SPECIFICATIONS, COMPILATION RATIONALE AND DATA EXCLUSIONS

Iron Ore Index Specifications (Port and Seaborne)						Iron Ore Index Compilation Rational and Data Exclusions			
	65% Fe Fines	62% Fe Fines	s 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 I 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	3.50		move outliers before volume-weighted average prices are n the remaining core set of data.			
Phosphorus %	0.06	0.09	0.05	0.08  For more details on MMi's iron ore methodology please down		nload the guide			
Sulphur %	0.01	0.02	0.02	0.02		ublished on our website at: www.mmiprices.com			
Moisture %	8.00	8.00	9.00	4.00					
	Cua mula naisa ha	10mm famatiaa	at 000/ af an ana.	Size below 6.3mm max 15%		Data Exc	clusions*		
Sizing		low 10mm for at least 90% of cargo;		312e below 6.311111 111ax 15%		62%	58%	65%	
3121116	maximu	m of 40% below 150	) micron	Size above 31.15mm max 25%	Port Index	0	0	0	
					Seaborne index	1		0	
Pricing Point	Qingdao P	ort (FOT and CFR res	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.

### AVERAGE IRON ORE SPECIFICATIONS APPLIED FOR BRAND PRICE ASSESSMENTS

PORT STOCK BRANDS				SEABORNE BRANDS							
December 05, 2018	December 05, 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	61.57%	2.32%	3.57%	0.100%	9.47%	PB Fines 62%	62.00%	2.60%	4.30%	0.090%	10.00%
Newman Fines	62.29%	2.48%	4.17%	0.090%	7.99%	Newman Fines	62.80%	2.20%	4.30%	0.080%	6.40%
MAC Fines	60.93%	2.26%	4.38%	0.090%	7.15%	MAC Fines	61.00%	2.70%	4.70%	0.110%	9.30%
Jimblebar Blended Fines	61.32%	2.94%	4.17%	0.120%	7.01%	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	62.98%	1.42%	4.87%	0.060%	8.37%	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 05, 2018 SPECIFICATIONS APPLIED FOR 58% BRAND ASSESSMENTS											

December 05, 2018	SPECIFICATIONS APPLIED FOR 58% BRAND ASSESSMENTS					
	Fe	Alumina	Silica	Phos	Moisture	
SSF	56.52%	3.03%	6.19%	0.050%	9.41%	
FMG Blended Fines	58.27%	2.70%	5.60%	0.060%	7.40%	
Robe River	56.63%	2.88%	1.85%	0.040%	9.09%	
Western Fines	57.67%	2.81%	7.06%	0.060%	7.43%	
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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