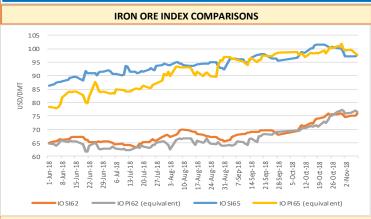
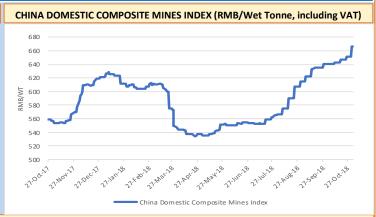


Daily	Iron Ore	e Inde	x Repo	ort								No	vembe	r 08, 2	2018
IRON ORE PORT STOCK INDEX (IOPI)															
Novembe	November 08 2018 FOT Qingdao (inc. 16% VAT), RMB/wet tonne CFR Qingdao Equivalent (exc. 16% VAT), USD/dry tonne 1														
Index	Fe Content	Price	Change	Change	% MTD	YTD²	Low ²	High ²	Price	Change	Change	% MTD	YTD²	Low ²	High ²
IOPI62	62% Fe Fines	592	-3	-0.5%	594	498	443	603	76.41	-0.52	-0.7%	76.62	66.61	75.83	77.89
IOPI58	58% Fe Fines	409	0	0.0%	414	353	304	419	51.62	-0.07	-0.1%	52.25	45.87	40.67	52.59
IOPI65	65% Fe Fines	749	-3	-0.4%	760	650	541	784	97.68	-0.55	-0.6%	99.07	87.86	96.35	101.71
		IRO	ON ORE SEA	ABORNE	INDEX (IOSI))					MAI	RKET COMM	ENTARY		
Novembe	r 08 2018			CFR C	ingdao, USD/d	ry tonne			Iron ore phy	sical port sto	ck quotes w	ere relatively stal	ble though the	re were some	signs of
Index	Fe Content	Price	Change	Change	% MTD	YTD ³	Low ³	High ³	-			y were less willing . Sources say that	-		
IOSI62	62% Fe Fines	75.80	0.80	1.1%	75.13	68.36	63.25	86.20				deliveries due to			
IOSI65	65% Fe Fines	97.70	0.50	0.5%	97.60	94.32	86.20	101.50	mean that a	bout 5 millior	mt of iron	ore supply could	be cut a week	until the issu	e is fixed.
	IRON ORE PORT LUMP INDEX (IOPLI)														
Week Endii	ng 2 November		FOT C	ingdao	inc. 16% VAT),	RMB/wet	tonne			CFR Qingd	ao Equiva	alent (exc. 16%	6 VAT), USD,	dry tonne	1
Index	Fe Content	Price	W-o-W	Change	% MTD	YTD ³	Low ³	High ³	Price	W-oW	Change	% MTD	YTD ³	Low ³	High ³
IOPLI62	62.5% Fe Lump	736	3	0.4%	736	628	565	736	94.82	0.41	0.4%	94.28	84.11	79.28	94.82
			IROI	N ORE D	OMESTIC CO	NCENTRA	TE SPOT I	PRICE ASSES	SMENTS A	ND COMP	OSITE IN	IDEX			
Week End	ing November 2	2, 2018				RMB/to	nne (exclu	uding tax) 4				USD/tonne	(excluding t	ax) ⁴	
Province	Region	Product		Basis	This week	Change	e %	Low ²	High ²	This	s week	Change %	Low	, ²	High ²
Hebei	Hanxing	66% Fe (Concentrate	Dry	718	3.3%	6	579	718	10	03.18	3.0%	83.2	21	103.18
Hebei	Qian'an	65% Fe (Concentrate	Dry	800	2.6%	6	630	800	11	14.96	2.2%	90.5	53	114.96
Liaoning	Anshan	65% Fe (Concentrate	Wet	555	1.8%	6	445	555	7	9.76	1.5%	63.9	95	79.76
Shandong	Zibo		Concentrate	Dry	795	2.6%	6	620	795	11	14.25	2.3%	89.1	10	114.25
	ing November 2				This week	Change		Low ⁵	High ⁵			d: RMB/USD = 6.916 te applied: RMB/USD			L
Cnina Iviine	es Concentrate				666.59	2.4%	6	534.50	666.59					<i>(</i> == \	
	IRON C	DRE PORT	INDEX, FOT	QINGL	AO (RMB/W	т)			IRON C	RE SEABO	RNE IND	EX, CFR QING	GDAO (USD	/DMT)	
850 —								105							
750 —							_	95 —		~~~			~~		
650 —			A	-	~			85							
550		~~	/				~	75 —							
450	·			~	~~~			65			مرر	~~~	_		
350							_								
350			~~					55							
250	\$ \$ \$	~9 ~9	√9 √9	√8 √8	, & , & ,	\$ \$ \$	9	45	, 9 , 9	,%	,	,9 ,8	, e ,	\$ \%	φ.
2. APr. 27. A	origans, Tavaria	Jun' Je Jun' 18	Lind 18 111 3 1-11	75 AUS 35	ANG 18 SEP 18 SEP	140t.18 190t.1		7.110.18 7.511	111.18 29.1111.18	23-Jul 28 27-Jul	10 AU8:18	24 AUBIR 15ERIR	17.5ep.18 5.0th	\$ 1900t.18	Morigo
		10 PI 6		PI 58 =	IO PI 65					_	IO SI				
					PORT STOCK			QUARTERLY	AND YEAR				· · · · · · · · · · · · · · · · · · ·		
November	1				(inc. 16% VAT),	<u> </u>		2				alent (exc. 16%			
Index	Fe Content	July			per October	MTD	QTD	YTD²	July		-	per October	MTD	QTD	YTD²
IOPIE2	62% Fe Fines	482	505	513	564	594	572	498	64.29	63.41	65.25		76.62	73.56	66.61
IOPI58 IOPI65	58% Fe Fines 65% Fe Fines	349 638	363 701	385 732	760	760	760	353 650	44.14 82.19	44.86 85.29	45.84 92.13		52.25 99.07	50.92 99.05	45.87 87.86
	N ORE SEABOR								32.13	33.23	52.13	FREIGHT RA		55.05	37.00
Novembe					Qingdao, USD/d		E AVE		November 0	7, 2018			TES - DRY BU	LK US\$/wet	tonne
Index	Fe Content	July	August		per October	MTD	QTD	YTD ³	Route		gnation	Change	Change %	Low 5	High ⁵
IOSI62	62% Fe Fines	65.09	67.89	68.79		75.13	72.81		W. Australia -		-	.42 -0.87	-10.51%	5.109	10.002
IOSI65	65% Fe Fines	91.90	94.04	96.48		97.60	98.73		Tubarao - Qin	gdao	C3 18	3.93 -1.06	-5.32%	12.705	24.76
	<u> </u>	•			PORT LUMP				AND YEAR	R-TO-DATE	AVERAG	GES			
Week Endi	ng 2 November				(inc. 16% VAT)			,				alent (exc. 16%	% VAT), USD	dry tonne	1
Index	Fe Content	July			ber October	MTD	QTD	YTD ³	July			ber October	MTD	QTD	YTD²
IOPLI62	62.5% Fe Lump	-	652	695		736	724	628	80.88	84.56	90.52		94.28	93.26	84.11
www	.mmipri	ces.co	om			Pag	ge 1/5	5				Nov	ember	08, 20	18



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IRON ORE BRAND SPOT PRICE ASSESMENTS

November 08 2018	PORT STOCK INDEX (RMB/WT)		
	Price	Change	Diff to IOPI62
Roy Hill	562	-3	-30
SIMEC Fines	490	-3	-102
PB Fines	574	-2	-18
Newman Fines	592	-3	0
MAC Fines	551	-3	-41
Jimblebar Blended Fines	524	-2	-68
Carajas Fines	739	-3	147
Brazilian SSF	568	-3	-24
Brazilian Blend Fines	600	-3	8
RTX Fines	493	3	-99

November 08 2018	SEABO	SEABORNE INDEX (USD/DMT)					
	Price	Change	Diff to IOSI62				
Roy Hill	69.15	0.80	-6.65				
SIMEC Fines	62.15	0.80	-13.65				
PB Fines	74.50	0.80	-1.30				
Newman Fines	77.16	0.80	1.36				
MAC Fines	69.45	0.80	-6.35				
Jimblebar Blended Fines	61.77	0.80	-14.03				
Carajas Fines	96.56	0.80	20.76				
Brazilian SSF	78.61	0.80	2.81				
Brazilian Blend Fines	80.61	0.80	4.81				
RTX Fines	66.75	0.80	-9.05				

RIX Fines	493	3	-99					
November 08 2018	PORT:	PORT STOCK INDEX (RMB/WT)						
	Price	Change	Diff to IOPI58					
SSF	348	-8	-61					
FMG Blended Fines	408	-5	-1					
Robe River	397	11	-12					
Western Fines	380	-8	-29					
Atlas Fines	359	-9	-50					
Yandi	454	-3	45					

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%	15.00	0.00		High Grade Fe 60 - 63%	2.50	0.00	
	High Grade Fe 63 - 64%	51.00	0.00		High Grade Fe 63 - 64%	2.75	0.00	
1% Fe	High Grade Fe 64 - 65%	51.00	0.00		High Grade Fe 64 - 65%	2.75	0.00	
	High Grade Fe 65 - 65.5%	51.00	0.00		High Grade Fe 65 - 65.5%	2.75	0.00	
	Low Grade Fe	21.00	0.00					
	High Fe Grade Al <2.25%	41.00	0.00		High Fe Grade Al <2.25%	9.75	0.00	
1% Alumina	High Fe Grade Al 2.25-4%	42.00	3.00		High Fe Grade Al 2.25-4%	0.50	0.00	
170 Alullilla	Low Fe Grade Al <2.25%	82.00	0.00	1% Alumina				
	Low Fe Grade Al 2.25-4%	25.00	6.00					
	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%	35.00	0.00	1% Silica	High Fe Grade Si 4 - 6.5%	3.75	0.00	
	Low Fe Grade	9.00	4.00					
0.01%	High Fe Grade 0.09% <p<0.115%< td=""><td>3.00</td><td>-1.00</td><td>0.01%</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	-1.00	0.01%	High Fe Grade 0.09% <p<0.115%< td=""><td>0.50</td><td>0.00</td></p<0.115%<>	0.50	0.00	
Phosphorus	High Fe Grade 0.115% <p<0.15%< td=""><td>13.00</td><td>-3.00</td><td></td><td>High Fe Grade 0.115%<p<0.15%< td=""><td>1.50</td><td>0.00</td></p<0.15%<></td></p<0.15%<>	13.00	-3.00		High Fe Grade 0.115% <p<0.15%< td=""><td>1.50</td><td>0.00</td></p<0.15%<>	1.50	0.00	
Filospilorus	Low Fe Grade 0.09 <p<0.1%< td=""><td>3.00</td><td>0.00</td><td>Phosphorus</td><td></td><td></td><td></td></p<0.1%<>	3.00	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	-20.00	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	-15.00	0.00	Lanqiao	0.00	0.00	Nantong	-10.00	0.00	Tianjin	-15.00	0.00

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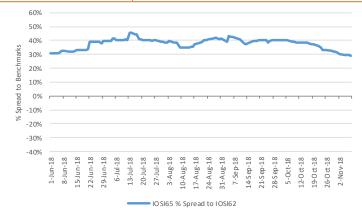
November 08, 2018

IRON ORE INDEX PREMIUMS/DISCOUNTS

November 08 2018	PORT STOCK IN	IDEX (RMB/WT)
Fe Content	Spread to IOPI62	% Spread to IOPI62
58% Fe Fines	-183	-30.91%
65% Fe Fines	157	26.52%

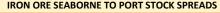


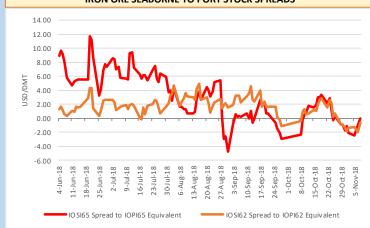
November 08 2018 SEABORNE INDEX (USD/DMT) Fe Content Spread to IOSI62 % Spread to IOSI62 65% Fe Fines 21.90 28.89%



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









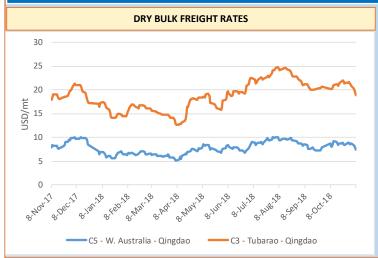
FUTURE TRADING—FRONT MONTH CLOSING PRICE	
540	78
520	
g 500	73 e
§ 480	% JSD/tonne
480 460 MW 480	% USD,
440	63
420	
400	58
Lead to we to the to the top the top the top the top the top to th	
— Dalian 3pm Close — SGX Front Month 6pm (RHS)	

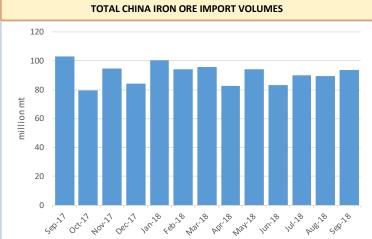
IRON ORE PORT INVENTORIES										
Week Ending November 02, 2018 (million tonnes)										
Province	This week	Change %	Low ⁴	High ⁴						
Jingtang	14.90	4.20%	13.47	19.00						
Qingdao	17.60	-2.22%	15.60	19.97						
Caofeidian	18.80	1.08%	16.70	25.30						
Tianjin	9.40	1.08%	8.50	11.00						
Rizhao	16.00	-0.31%	13.16	19.00						
Total (35 Ports)	133.32	-0.37%	128.70	150.04						

IRON ORE FUTURES CONTRACTS										
		DCE		SGX						
Closing Date	8	8 Nov 3pm close			8 Nov 6 pm					
Contract	11901	Change	Change %	Nov'18	Change	Change %				
Closing Price	520.0	9.0	1.76%	75.06	1.01	1.36%				
Vol traded ('000 lots)	133.48	53.5	66.98%	4.73	0.63	15.38%				
Open positions ('000 lots)	74.26	2.1	2.93%	115.27	-0.69	-0.59%				
Day Low	510.0	4.0	0.79%	74.23	0.53	0.72%				
Day High	520.5	9.0	1.76%	75.06	1.01	1.36%				



November 08, 2018





Steel Spot Market Prices - China

Steel Spot Market RMB/tonne			
Product	2/11/2018	Change	Change %
ReBar HRB400 ф18mm	4,707.0	0	0.00%
Wirerod Q300 ¢6.5mm	4,905.0	-25	-0.51%
HRC Q235/SS400 5.5mm*1500*C	4,073.0	-132	-3.14%
CRC SPCC/ST12 1.0mm*1250*2500	4,736.0	-64	-1.33%
Medium & Heavy Plate Q235B 20mm	4,326.0	-30	-0.69%
GI ST02Z 1.0mm*1000*C	5,070.0	-80	-1.55%
Billet Q235 150*150mm	3,900.0	-100	-2.50%



CHINESE STEEL EXPORT PRICES											
China Export Prices USD/tonne											
Product	Specification	Export tax (+)/Vate rebate (-)		Change							
			2/11/2018								
Rebar	BS4449 460B 12-25mm, + chrome	-13%	555	-5							
Wire Rod	SAE1008 6.5-10mm +chrome	-9%	580	0							
Hot-rolled coil	SS400/Q235 4.0-10.mm	-9%	550	-10							
Cold-rolled coil	SPCC 1.0mm	-13%	595	-5							
Medium & Heavy plate	A-level Shipe plate 12-25mm	0%	580	-30							
Galvanised	ST02Z/SGCC 1.0mm	-13%	655	-10							

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

St	eel Inventories³ (unit	: 1000 tonnes))	
Product	2/11/2018	26/10/2018	Change	Change %
Rebar	3,581	3,789	-208	-5.49%
Wirerod	1,096	1,216	-120	-9.87%
Hot-rolled Coil	2,439	2,454	-15	-0.61%
Medium & Thick Plate	1,130	1,152	-22	-1.91%
Cold-rolled Coil	1,206	1,220	-14	-1.15%
Total	9,452	9,831	-379	-3.86%

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	76.32	1.37	Mmi CFR Equivalent index for 12th October			
Coke	2,510	0	2nd grade met coke, Tangshan, incl. tax			
Steel Scrap	2,480	50	steel scrap (6mm) in Zhangjiagang, exl. tax			
Billet Cost	3,210	18	Q234, incl. tax			
Rebar cost - Blast furnace	3,480	20	calculated based on theoretical w eight, incl. tax			
Rebar profit - Blast furnace	1,060	-30	based on Shanghai prices, incl. tax			
Hot-rolled coil cost - Blast furnace	3,535	18	based on actual w eight, incl. tax			
Hot-rolled coil proft - Blast furnace	505	-158	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 \ 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

mon one index of confidence in a choice, coming that it is in a choice of the confidence in a choice of the choice								
	Iron Ore	Iron Ore Index Compilation Rational and Data Exclusions						
	65% Fe Fines	62% Fe Fines	58% Fe Fines	62.5% Fe Lump	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 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. 60.08 For more details on MMi's iron ore methodology please download the guide published on our website at: www.mmiprices.com			mpanies that are
Fe %	65.00	62.00	58.00	62.50				
Alumina %	1.40	2.25	2.25	1.50				specifications and
Silica%	1.50	4.00	5.50	3.50				
Phosphorus %	0.06	0.09	0.05	0.08				
Sulphur %	0.01	0.02	0.02	0.02				modu trie guide
Moisture %	8.00	8.00	9.00	4.00				
Granular size below 10mm for at least 90% of cargo; Size below 6.3mm max 1		6: 1 1 62 450/	Data Exclusions*					
Sizing	Granular size be	elow 10mm for at lea	ast 90% of 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 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	index calculations today as they were anomalous and could not be verified				
Payment Terms	L/C at sight		L/C at sight or CAD					

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 08 2018	ovember 08 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	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%	2.31%	3.54%	0.100%	9.34%	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	60.77%	2.21%	4.72%	0.090%	7.90%	MAC Fines	61.00%	2.70%	4.70%	0.110%	9.30%
Jimblebar Blended Fines	61.33%	2.83%	4.37%	0.110%	6.77%	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 08 2018 SPECIFICATIONS APPLIED FOR 58% BRAND ASSESSMENTS											

November 08 2018	SPECIFICATIONS APPLIED FOR 58% BRAND ASSESSMENTS					
	Fe	Alumina	Silica	Phos	Moisture	
SSF	56.43%	2.99%	6.35%	0.050%	9.49%	
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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