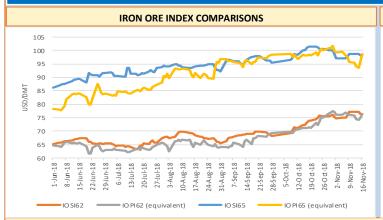
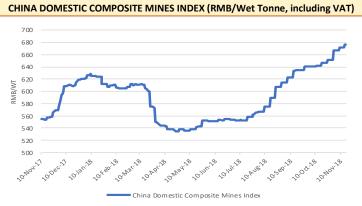


Daily	Iron Ore	Index	Rep	ort								No	vembe	er 16, 2	2018
IRON ORE PORT STOCK INDEX (IOPI)															
November	November 16 2018 FOT Qingdao (inc. 16% VAT), RMB/wet tonne CFR Qingdao Equivalent (exc. 16% VAT), USD/dry tonne														
ndex	Fe Content	Price	Change	Change %	MTD	YTD ²	Low ²	High ²	Price	Change	Chan	ge % MTD	YTD²	Low ²	High ²
OPI62	62% Fe Fines	594	10	1.7%	590	501	443	603	76.45	1.37	1.8	<u> </u>	66.90	75.83	77.89
OPI58	58% Fe Fines	412	-4	-1.0%	413	355	304	419	51.86	-0.53	-1.0	0% 51.97	46.07	40.67	52.59
OPI65	65% Fe Fines	760	21	2.8%	748	652	541	784	98.87	2.86	3.0	97.35	88.12	96.35	101.71
		IRO	N ORE SE	ABORNE IN	IDEX (IOSI)						М	ARKET COMIV	IENTARY		
lovember 16 2018 CFR Qingdao, USD/dry tonne Iron ore stocks across 35 major Chinese ports inched up 440,000 mt from a week ago to stand at 132.06 million mt															
ndex	Fe Content	Price	Change	Change %	MTD	YTD ³	Low ³	High ³	as of Friday No	ovember 16, SM	M data sho	owed. For the same we	ek, average daily o	deliveries of iron	ore leaving the
OSI62	62% Fe Fines	76.35	0.00	0.0%	76.05	68.78	63.25	86.20	northern cities	s this week. This	raised the	potential for deepenin	g winter productio	on curbs at some	regions and
OSI65	65% Fe Fines	98.10	0.00	0.0%	98.11	94.52	86.20	101.50	4	re port stocks in		making purchases. In a un.	udition, illilited se	aborne arrivais a	re likely to lilli
						IRON ORF	PORT II	JMP INDEX	(IOPLI)						
Veek Endin	ng 16 November		FOT	Dingdao (inc	. 16% VAT),			JIVIF IIVDEX	(IOF LI)	CFR Oingo	lao Fqui	ivalent (exc. 16	% VAT). USD	/dry tonne	, 1
	Fe Content	Price	W-o-W		MTD	YTD 3	Low ³	High ³	Duice			•	YTD ³	Low 3	High ³
ndex OPLI62	62.5% Fe Lump	789	8	Change %	769	638	565	789	Price 98.50	0.97	Chan	<u> </u>	82.34	76.63	98.50
JPLI02	02.3% Fe Lump	763											62.34	70.03	98.30
A/ - F 1		2040	IRO	N ORE DO	VIESTIC COI			RICE ASSES	SIVIEN IS A	IND COMP	OSITE			. 1	
	ing November 9			B	el. (l.			ding tax) 4	111-b 2				e (excluding		111-1-2
Province Hebei	Region	Product	oncentrate		This week 715	-0.4%	%	Low ² 579	High ²		s week 03.44	Change %	83.		High ² 103.87
Hebei	Hanxing Qian'an		oncentrate		805	0.6%		630	805		16.46	1.3%	91.		116.46
Liaoning	Anshan		oncentrate		555	0.0%		445	555		30.29	0.7%	64.		80.29
Shandong	Zibo		oncentrate		815	2.5%		620	815		17.91	3.2%	89.		117.91
	ing November 9		one en a te		This week	Change 5	%	Low ⁵	High ⁵			plied: RMB/USD = 6.93			
China Mine	es Concentrate	Composite I	ndex RMB/	/wT	670.77	0.6%		534.50	676.26	4 Weekl		rate applied: RMB/US			
	IRON O	RE PORT II	NDEX, FO	T QINGDA	O (RMB/WT	Γ)			IRON O	RE SEABO	RNE IN	IDEX, CFR QIN	GDAO (USI	D/DMT)	
850 —						•		105					•		
												_			
750 —				~~~	~~~		4	95		~~					
650		~^	-			_		85							
550								75 —						***	
450							_	65	~						
350 —				~~~				55							
250															
250	7.Warla 17.Warla	1.78 Jul. 18 7.19	18 Jul 2 37 Jul	15 AUE 30 AUE 1	p 25 25 20 1 2 4	04.18 04.18 NO	₁ .78	45	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	×2° ×2	, , , ,	, 2° 2°	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	×2° ×2°	\$ 1,50
2.AR 17.A	5 5'Wes "1'Wes 5'11	x 1810. Jug	1810 37:10	15 Aug 30 Aug 1	p	04.18 04.18 NO		2:111 75:110	y 29 July 1	3.10 27.10	JO-Aute	24 AUG 18 7.58 P. 27	5er 5.0° 3	30° 5'MO.	Je Mo.
		IO PI 62	IC	PI 58	= 10 PI 65					-	10	SI62 —— IO	SI65		
			154	2N 2DE D	DT STOCK	INDEX MO	NT1111/ 6	NIA DTERIV	AND VEAD		. 41/50	1050			
November	16 2019				c. 16% VAT),			QUARTERLY	AND YEAR			ivalent (exc. 16	V VAT\ LISD	/dry tonno	1
		th.						VTD2	t. de			<u> </u>		•	
ndex	Fe Content	July		September		MTD	QTD	YTD²	July		•	mber October	MTD	QTD	YTD²
OPI62 OPI58	62% Fe Fines 58% Fe Fines	482 349	505 363	513 385	564 401	590 413	575 406	501 355	64.29 44.14	63.41 44.86	65.2 45.8		75.98 51.97	73.92 51.07	66.90 46.07
OPI65	65% Fe Fines	638	701	732	760	748	755	652	82.19	85.29	92.3		97.35	98.37	88.12
	N ORE SEABOR											FREIGHT RA			
November					gdao, USD/d			-	November 1	5, 2018			ATES - DRY BU	JLK US\$/wet	tonne
Index	Fe Content	July	August	September		MTD	QTD	YTD ³	Route		ignation	Change	Change %	Low ⁵	High ⁵
···acx	62% Fe Fines	65.09	67.89	68.79	72.31	76.05	73.52	68.78	W. Australia -		C5	6.09 0.69	12.70%	5.109	10.002
OSI62	OZ /OTE FITTES		94.04	96.48	98.97	98.11	98.69	94.52			С3	14.90 -0.70	-4.49%	12.705	24.76
	65% Fe Fines														
	65% Fe Fines	31.30	ID	ON ORE DA	IRON ORE PORT LUMP INDEX MONTHLY, QUARTERLY AND YEAR-TO-DATE AVERAGES										
OSI65	1	31.30								CER Cim	lac F		0/ \/AT\ . LICO	/dry to	.1
	ng 16 November		FOT	Qingdao (in	c. 16% VAT),	, RMB/wet t	onne					ivalent (exc. 16			
IOSI65 Week Endin	ng 16 November Fe Content	July	FOT August	Qingdao (in Septembe	c. 16% VAT), r October	, RMB/wet t	onne QTD	YTD ³	July	August	Septe	ivalent (exc. 16	MTD	QTD	YTD²
OSI65 Veek Endin	ng 16 November		FOT	Qingdao (in	c. 16% VAT),	, RMB/wet t	onne					ivalent (exc. 16			



November 16, 2018





IRON ORE BRAND SPOT PRICE ASSESMENTS

November 16 2018	PORT STOCK INDEX (RMB/WT)							
	Price	Price Change						
Roy Hill	561	9	-33					
SIMEC Fines	523	8	-71					
PB Fines	574	10	-20					
Newman Fines	588	7	-6					
MAC Fines	563	8	-31					
Jimblebar Blended Fines	517	9	-77					
Carajas Fines	750	22	156					
Brazilian SSF	604	14	10					
Brazilian Blend Fines	615	14	21					
RTX Fines	488	7	-106					

November 16 2018	SEABORNE INDEX (USD/DMT)				
	Price	Change	Diff to IOSI62		
Roy Hill	69.82	0.00	-6.53		
SIMEC Fines	63.35	0.00	-13.00		
PB Fines	75.20	0.00	-1.15		
Newman Fines	78.06	0.00	1.71		
MAC Fines	70.10	0.00	-6.25		
Jimblebar Blended Fines	61.47	0.00	-14.88		
Carajas Fines	96.31	0.00	19.96		
Brazilian SSF	80.41	0.00	4.06		
Brazilian Blend Fines	81.79	0.00	5.44		
RTX Fines	65.80	0.00	-10.55		

KIA FIIIes	400	/	-106				
November 16 2018	PORT STOCK INDEX (RMB/WT)						
	Price	Change Diff to IOPI					
SSF	359	-4	-53				
FMG Blended Fines	412	-3	0				
Robe River	446	-4	34				
Western Fines	380	-4	-32				
Atlas Fines	358	-4	-54				
Yandi	461	-4	49				

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%	13.00	1.00		High Grade Fe 60 - 63%	2.75	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	16.00	0.00					
	High Fe Grade Al <2.25%	44.00	3.00		High Fe Grade Al <2.25%	9.75	0.00	
1% Alumina	High Fe Grade Al 2.25-4%	68.00	3.00	1% Alumina	High Fe Grade Al 2.25-4%	0.50	0.00	
170 Alullilla	Low Fe Grade Al <2.25%	90.00	0.00					
	Low Fe Grade Al 2.25-4%	15.00	0.00					
	High Fe Grade Si <4%	8.00	3.00		High Fe Grade Si <4%	2.25	0.00	
1% Silica	High Fe Grade Si 4-6.5%	23.00	0.00	1% Silica	High Fe Grade Si 4 - 6.5%	3.25	0.00	
	Low Fe Grade	18.00	0.00					
0.01%	High Fe Grade 0.09% <p<0.115%< td=""><td>5.00</td><td>0.00</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%<>	5.00	0.00	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	
	High Fe Grade 0.115% <p<0.15%< td=""><td>7.00</td><td>0.00</td><td></td><td>High Fe Grade 0.115%<p<0.15%< td=""><td>2.25</td><td>0.00</td></p<0.15%<></td></p<0.15%<>	7.00	0.00		High Fe Grade 0.115% <p<0.15%< td=""><td>2.25</td><td>0.00</td></p<0.15%<>	2.25	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	0.00	Jingtang	-5.00	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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Page 2/5

November 16, 2018



November 16, 2018

IRON ORE INDEX PREMIUMS/DISCOUNTS

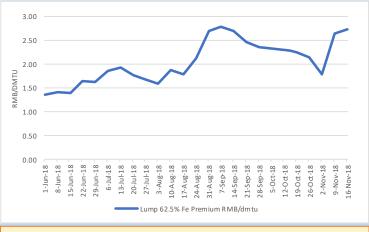
November 16 2018	PORT STOCK INDEX (RMB/WT)			
Fe Content	Spread to IOPI62	% Spread to IOPI62		
58% Fe Fines	-182	-30.64%		
65% Fe Fines	166	27.95%		

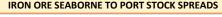


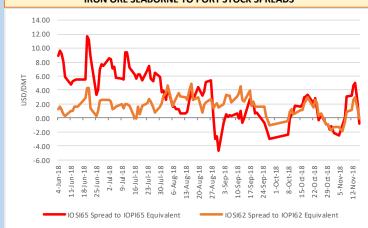
SEABORNE INDEX (USD/DMT) **November 16 2018** Spread to IOSI62 % Spread to IOSI62 Fe Content 65% Fe Fines 21.75 28.49%

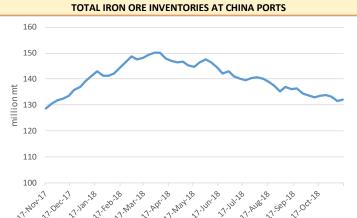


WEEKLY IRON ORE PORT STOCK LUMP PREMIUM (62.5% FE LUMP-62% FE FINES)









FUTURE TRADING—FRONT MONTH CLOSING PRICE 540 520 500 RMB/tonne 480 460 440 63 420 1-Jun-18 1-Jul-18 30-Aug-18 2-Apr-18 17-Apr-18 2-May-18 17-May-18 16-Jun-18 16-Jul-18 31-Jul-18 14-Sep-18 29-Sep-18 14-0ct-18 29-Oct-18 13-Nov-18 Dalian 3pm Close

IRON ORE PORT INVENTORIES										
	Week Ending November 16, 2018 (million tonnes)									
Province This week Change % Low ⁴ High ⁴										
Jingtang	14.00	3.86%	13.47	19.00						
Qingdao	17.50	-1.13%	15.60	19.97						
Caofeidian	19.40	4.30%	16.70	25.30						
Tianjin	9.90	1.02%	8.50	11.00						
Rizhao	15.50	0.00%	14.04	19.00						
Total (35 Ports) 132.06 0.33% 128.70 150.0										

IRON ORE FUTURES CONTRACTS									
		DCE							
Closing Date	10	6 Nov 3pm clo	ose		ı				
Contract	11901	Change	Change %	Dec'18	Change	Change %			
Closing Price	521.0	7.0	1.36%	72.11	0.68	0.95%			
Vol traded ('000 lots)	119.21	56.0	88.64%	11.70	5.23	80.76%			
Open positions ('000 lots)	63.57	1.9	3.07%	128.69	0.03	0.02%			
Day Low	512.0	4.0	0.79%	71.79	0.62	0.87%			
Day High	525.0	10.0	1.94%	72.45	0.90	1.26%			



November 16, 2018





Steel Spot Market Prices - China

Steel Spot Market RMB/tonne			
Product	9/11/2018	Change	Change %
ReBar HRB400	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 "16/(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 "16/(150.09); Calculation formula for converting export prices of medium-thick plate into prices in China's spot market = FOB exchange rate

Steel Inv	entories³ (unit:	1000 tonnes)	
Product	9/11/2018	2/11/2018	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	-130	-5.33%
Medium & Thick Plate	1,124	1,130	-6	-0.53%
Cold-rolled Coil	1,168	1,206	-38	-3.15%
Total	9,018	9,452	-434	-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 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	76.19	-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: 1 Costs in the table are caluclated based on todays market prices and facout our management, sales, financial and depreciations fees.

 $2. The cost \ refers \ to \ average \ cost \ in \ the \ industry \ based \ on \ SMM's \ survey \ of \ small, medium \ and \ large \ mills \ in \ China \ and \ large \ mills \ in \ China \ and \ large \ mills \ in \ China \ and \ large \ mills \ in \ China \ and \ large \ mills \ in \ China \ and \ large \ mills \ in \ China \ and \ large \ mills \ in \ China \ and \ large \ mills \ in \ China \ and \ large \ mills \ in \ China \ and \ large \ mills \ in \ China \ and \ large \ mills \ in \ China \ and \ large \ mills \ in \ China \ and \ large \ mills \ in \ China \ and \ large \ mills \ in \ China \ and \ large \ mills \ in \ China \ and \ large \ mills \ in \ China \ and \ large \ mills \ in \ China \ and \ large \ mills \ in \ China \ and \ large \ mills \ mi$

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Page 4/5

November 16, 2018



November 16, 2018

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	62.50 part of the iron ore supply chain and involved in spot market transacti indices are calculated using detailed transaction-level data submitted to					
Alumina %	1.40	2.25	2.25	1.50	these companies. This data is normalised to the appropriate specifications an			specifications and		
Silica%	1.50	4.00	5.50	3.50 screened to remove outliers before volume-weighted average prices are 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 down		nload the guide				
Sulphur %	0.01	0.02	0.02	0.02		ished on our website at: www.mmiprices.com				
Moisture %	8.00	8.00	9.00	4.00						
Cranylar size below 10 mm for at least 00% of acres. Size below 5 2 mm m				clusions*						
Sizing	Granular size below 10mm for at least 90% of cargo;		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)	Loading within 4 weeks, Delivery within 8 weeks			Delivery within 2 weeks * Number of price submissions for iron ore indices that were excluded						
Payment Terms	L/C at sight			L/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 16 2018	SPECIFICATIONS APPLIED FOR 62% BRAND ASSESSMENTS					SPECIFICATIONS APPLIED FOR 62% BRAND ASSESSMENTS					
	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	61.66%	2.32%	3.57%	0.100%	9.32%	PB Fines 62%	62.00%	2.60%	4.30%	0.090%	10.00%
Newman Fines	62.33%	2.39%	4.07%	0.090%	7.82%	Newman Fines	62.80%	2.20%	4.30%	0.080%	6.40%
MAC Fines	60.75%	2.26%	4.64%	0.090%	7.72%	MAC Fines	61.00%	2.70%	4.70%	0.110%	9.30%
Jimblebar Blended Fines	61.40%	2.82%	4.28%	0.100%	6.73%	Jimblebar Blended Fines	61.79%	2.67%	4.08%	0.115%	7.16%
Carajas Fines	64.78%	1.21%	2.32%	0.080%	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	62.74%	1.52%	4.80%	0.060%	8.35%	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 16 2018 SPECIFICATIONS APPLIED FOR 58% BRAND ASSESSMENTS											

November 16 2018	SPECIFICATIONS APPLIED FOR 58% BRAND ASSESSMENTS						
	Fe	Alumina	Silica	Phos	Moisture		
SSF	56.44%	2.99%	6.32%	0.050%	9.55%		
FMG Blended Fines	58.35%	2.78%	5.84%	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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www.mmiprices.com Page 5/5 November 16, 2018