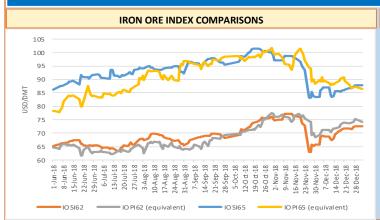
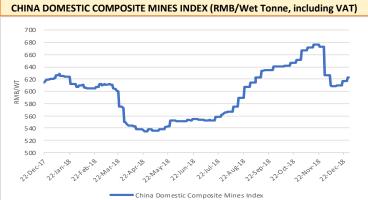


Daily	Iron Or	e Inde	x Repo	ort								Janua	ry 02, 2	2019	
IRON ORE PORT STOCK INDEX (IOPI)															
anuary 02, 2019 FOT Qingdao (inc. 16% VAT), RMB/wet tonne CFR Qingdao Equivalent (exc. 16% VAT), USD/dry tonne 1															
ndex	Fe Content	Price	Change	Change %	MTD	YTD	Low <sup>2</sup>	High <sup>2</sup>	Price	Change	Change	e % MTD	YTD	Low <sup>2</sup>	High <sup>2</sup>
OPI62	62% Fe Fines	570	-9	-1.6%	570	570	443	603	74.18	-1.05	-1.49	6 74.18	74.18	61.36	77.89
OPI58	58% Fe Fines	405	1	0.2%	405	405	304	419	51.60	0.26	0.5%	51.60	51.60	40.67	52.71
OPI65	65% Fe Fines	659	-8	-1.2%	659	659	541	784	86.36	-0.88	-1.0%	6 86.36	86.36	75.83	101.7
IRON ORE SEABORNE INDEX (IOSI)  MARKET COMMENTARY															
January 02, 2019  CFR Qingdao, USD/dry tonne  Sixty-nine vessels carrying 9.8 million mt of iron ore are expected to arrive at major Chinese ports in the week ended January 3, down 390,000 mt from the week ended December 27, SMM data showed. For															
ndex	Fe Content	Price	Change	Change %	MTD	YTD	Low <sup>3</sup>	High <sup>3</sup>	1			nt from the week er arting Australian po			
									to 15.33 mill	ion mt, while t	nose leaving	Brazilian ports are	likely to down by	y 170,000 mt to	o 7.9 million
OSI62	62% Fe Fines	72.50	0.00	0.0%	72.50	72.50	62.95	86.20	_			ited on the iron ore ially with current tr		arket participa	nts are unce
10SI65 65% Fe Fines 87.90 0.10 0.1% 87.90 87.90 83.20 101.50 tain on near-term price direction, especially with current trade tensions.															
IRON ORE PORT LUMP INDEX (IOPLI)  Week Ending December 28 FOT Qingdao (inc. 16% VAT), RMB/wet tonne CFR Qingdao Equivalent (exc. 16% VAT), USD/dry tonne 1															
	1										<u> </u>	<u> </u>			
ndex	Fe Content	Price	W-o-W	Change %	DEC	YTD <sup>3</sup>	Low <sup>3</sup>	High <sup>3</sup>	Price	W-oW	Change		YTD <sup>3</sup>	Low <sup>3</sup>	High
OPLI62	62.5% Fe Lump	752	2	0.3%	749	656	565	789	94.73	0.53	0.6%	94.22	84.35	76.63	98.5
			IRO	N ORE DO	MESTIC COI	NCENTRATE	SPOT P	RICE ASSES	SMENTS A	ND COME	OSITE IN	IDEX			
Veek End	ling December 2	8, 2018				RMB/ton	ne (exclu	ding tax) 4				USD/tonne	(excluding t	ax) <sup>4</sup>	
Province	Region	Product		Basis	This week	Change 9	%	Low <sup>2</sup>	High <sup>2</sup>	Thi	s week	Change %	Low	/ <sup>2</sup>	High <sup>2</sup>
lebei	Hanxing	66% Fe (	Concentrate	Dry	680	3.3%		579	718	9	8.75	3.37%	84.0	)8	104.27
lebei	Qian'an	65% Fe (	Concentrate	Dry	755	2.7%		630	815	1	09.64	2.75%	91.4	19	118.36
iaoning.	Anshan	65% Fe (	Concentrate	Wet	535	0.0%		445	565	- 7	7.69	0.03%	64.6	52	82.05
handong	Zibo	65% Fe (	Concentrate	Dry	740	0.0%		620	815	1	07.46	0.03%	90.0	)4	118.36
	ling December 2				This week	Change 9	%	Low <sup>5</sup>	High ⁵			ed: RMB/USD = 6.848			
China Mines Concentrate Composite Index RMB/WT 623.29 1.0% 534.50 676.26 Weekly exchange rate applied: RMB/USD 6.8860 \$Last 12 months															
	IRON (	RE PORT	INDEX, FO	r QINGDA	O (RMB/W)	Γ)			IRON C	RE SEABC	RNE IND	EX, CFR QING	GDAO (USD	/DMT)	
850 —								105							
750 —				0.00				95 —				~~~			
650 —			~~~	1		'ha	_	0.5						1.0	
030						<b>~</b>	_	83							
550 —			~~~	~~~~				75 —						7 ~	
450 🥌						~~		65	~	~~~				M-4	
350 —	~	~~~	~~~	~~~~				55 —							
250 —								45							
	7. Nat. 1. Nat. 7. 111. 16	Jun. 18. Jul. 18. Jul	32111/28 18/28	145 80 195 80 15	06.39 06.38 NOV.	BRON'S DEC'S DEC	78		28-Jun-18 Jul-1	27:111:20 AUB 25	, AUB 7:5EP	1581 50E 18	7.104.18 HOV. 3	onor hadecin	20,78
5. Pr. 77. P.	5. W. 1. W. 7.10 70	20 7.2. Vaz.	37. 12 VE VE 30 V	742,542,742,74	13. 13. 13. Val	R 45 35 05 3800		7:10. 75:10.	Jann. 13-10	27-10 20 AOL	xAU 156	27.56° 5.0° 29.0°	5'WO 16WO 3	one trop s	*De
		IO PI 6	52 — 10	PI 58	= 10 PI 65					-	IOSI	62 — 10 S			
			ID	ON ODE DO	DT CTOCK	INIDEV MACA	ITIIIV 6	NIADTERIV	AND VEA	TO DATE	- A\/FDA/	CEC			
anuary 02	2 2010					RMB/wet to		QUARTERLY	AND YEAR			alent (exc. 16%	/ \/AT\   SD/	drytonno	1
		Cantomba		• • •	•			VTD2	Fautamba				•		
opi62	Fe Content	-				January	QTD 570	YTD²	-			ber December		QTD	7/1 1
	62% Fe Fines	513 385	564 401	564 401	559 392	570 405	570 405	570 405	64.29	63.41	65.25 45.84		74.18 51.60	74.18	74.18
	50% Fo Einos		760	760	681	659	659	659	44.14 82.19	44.86 85.29	92.13		86.36	51.60 86.36	51.60 86.36
OPI58	58% Fe Fines	727	700						02.19	03.29	92.13			00.30	00.30
OPI58 OPI65	65% Fe Fines	732	/ NACNITUUS	/ OLLABET	ALT AND Y	EAK-TU-DA	IE AVE	NAUES	December 2	7 2019		FREIGHT RA	TES TES - DRY BU	I K I Jeé /····	tonno
OPI58 OPI65 IRO	65% Fe Fines		( MONTHL)			ru tones							ILES - DKI BU	LK US\$/Wet	tonne
OPI58 OPI65 IRO anuary 0	65% Fe Fines ON ORE SEABO	RNE INDEX		CFR Qin	gdao, USD/d								Character and	. 5	
OPI58 OPI65 IRO anuary 0	65% Fe Fines N ORE SEABO 2, 2019 Fe Content	RNE INDE) Septembe	r October	CFR Qin	gdao, USD/d December	January	QTD	YTD	Route	Des	ignation	Change	Change %	Low 5	
OPI58 OPI65 IRO lanuary 0: ndex OSI62	65% Fe Fines N ORE SEABOR 2, 2019 Fe Content 62% Fe Fines	Septembe 68.79	r <b>October</b> 72.31	CFR Qin November 72.91	gdao, USD/d December 69.96	January 72.50	72.50	72.50	Route W. Australia -	Des Qingdao	C5 <b>6</b>	Change 0.00	0.00%	5.109	10.002
OPI58 OPI65 IRO lanuary 0: ndex OSI62	65% Fe Fines N ORE SEABO 2, 2019 Fe Content	RNE INDE) Septembe	r October	CFR Qin	gdao, USD/d December	January			Route	Des Qingdao	C5 <b>6</b>	Change			10.002
OPI58 OPI65 IRO danuary 0: ndex OSI62	65% Fe Fines N ORE SEABOR 2, 2019 Fe Content 62% Fe Fines	Septembe 68.79	r October 72.31 98.97	CFR Qin November 72.91 94.05	gdao, USD/d December 69.96 85.85	January 72.50 87.90	72.50 87.90	72.50	Route  W. Australia -  Tubarao - Qin	Qingdao gdao	C5 6	Change 0.21 0.00 0.00 0.00	0.00%	5.109	10.002
IOPI58 IOPI65 IRO January 0: Index IOSI62	65% Fe Fines N ORE SEABOR 2, 2019 Fe Content 62% Fe Fines	Septembe 68.79	r October 72.31 98.97 IR	CFR Qin November 72.91 94.05 ON ORE PO	gdao, USD/d December 69.96 85.85 DRT LUMP I	January 72.50 87.90	72.50 87.90 NTHLY, C	72.50 87.90	Route  W. Australia -  Tubarao - Qin	Qingdao gdao	C5 6 C3 10	Change 0.21 0.00 0.00 0.00	0.00%	5.109 12.705	High <sup>5</sup> 10.002 24.76
IOPI58 IOPI65 IRO January 0: Index IOSI62	65% Fe Fines ON ORE SEABOR 2, 2019 Fe Content 62% Fe Fines 65% Fe Fines	Septembe 68.79 96.48	r October 72.31 98.97 IRC	CFR Qin November 72.91 94.05 ON ORE PO Qingdao (in	gdao, USD/d December 69.96 85.85 DRT LUMP I	January 72.50 87.90 NDEX MON RMB/wet to	72.50 87.90 NTHLY, C	72.50 87.90	Route  W. Australia - Tubarao - Qin	Qingdao gdao 2-TO-DATE CFR Qings	C5 6 C3 1 C3 AVERAC  dao Equiv	Change 0.21 0.00 0.00 0.00 GES	0.00% 0.00% % VAT), USD	5.109 12.705 /dry tonne	10.002 24.76



# January 02, 2019





### IRON ORE BRAND SPOT PRICE ASSESMENTS

PORT STOCK INDEX (RMB/WT)					
Price Change Diff to I					
539	-9	-31			
461	-9	-109			
552	-9	-18			
552	-9	-18			
530	-9	-40			
504	-9	-66			
655	-9	85			
499	-10	-71			
551	-10	-19			
490	-9	-80			
	Price 539 461 552 552 530 504 655 499 551	Price         Change           539         -9           461         -9           552         -9           552         -9           530         -9           504         -9           655         -9           499         -10           551         -10			

l	January 02, 2019	SEABORNE INDEX (USD/DMT)					
		Price	Change	Diff to IOSI62			
	Roy Hill	67.34	0.00	-5.16			
l	SIMEC Fines	63.66	0.00	-8.84			
	PB Fines	71.94	0.00	-0.56			
l	Newman Fines	75.00	0.00	2.50			
1	MAC Fines	67.71	0.00	-4.79			
l	Jimblebar Blended Fines	62.54	0.00	-9.96			
l	Carajas Fines	86.92	0.00	14.42			
l	Brazilian SSF	75.00	0.00	2.50			
1	Brazilian Blend Fines	76.12	0.00	3.62			
	RTX Fines	63.99	0.00	-8.51			

KIA FILLES	490	-9	-80				
January 02, 2019	PORT STOCK INDEX (RMB/WT)						
	Price	Change	Diff to IOPI58				
SSF	350	1	-55				
FMG Blended Fines	402	1	-3				
Robe River	430	1	25				
Western Fines	359	1	-46				
Atlas Fines	351	1	-54				
Yandi	448	-1	43				

### 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%	8.00	0.00		High Grade Fe 60 - 63%	3.25	0.00	
	High Grade Fe 63 - 64%	28.00	0.00		High Grade Fe 63 - 64%	2.25	0.00	
1% Fe	High Grade Fe 64 - 65%	28.00	0.00	1% Fe	High Grade Fe 64 - 65%	2.25	0.00	
	High Grade Fe 65 - 65.5%	28.00	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%	23.00	0.00		High Fe Grade Al <2.25%	4.00	0.00	
1% Alumina	High Fe Grade Al 2.25-4%	42.00	0.00	40/ 41	High Fe Grade Al 2.25-4%	0.75	0.00	
1% Alumina	Low Fe Grade Al <2.25%	81.00	0.00	1% Alumina				
	Low Fe Grade Al 2.25-4%	25.00	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	0.00	1% Silica	High Fe Grade Si 4 - 6.5%	1.00	0.00	
	Low Fe Grade	17.00	0.00					
0.01%	High Fe Grade 0.09% <p<0.115%< td=""><td>5.00</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%<>	5.00	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>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>6.00</td><td>0.00</td><td>Phosphorus</td><td></td><td></td><td></td></p<0.1%<>	6.00	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	-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	Lanqiao	0.00	0.00	Nantong	-10.00	0.00	Tianjin	0.00	0.00

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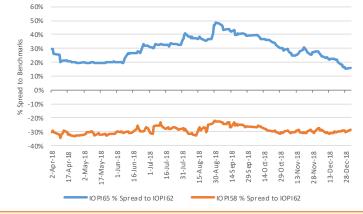
January 02, 2019



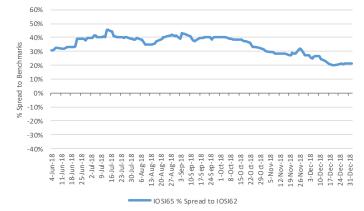
### January 02, 2019

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

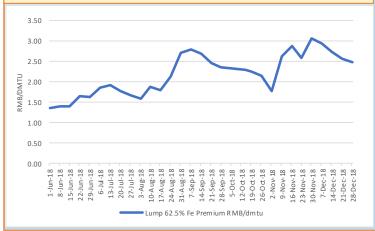
January 02, 2019	PORT STOCK INDEX (RMB/WT)				
Fe Content	Spread to IOPI62	% Spread to IOPI62			
58% Fe Fines	-165	-28.95%			
65% Fe Fines	89	15.61%			

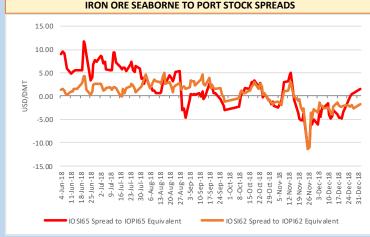


#### January 02, 2019 SEABORNE INDEX (USD/DMT) Fe Content Spread to IOSI62 % Spread to IOSI62 65% Fe Fines 15.40 21.24%



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

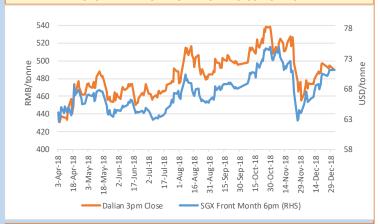




### **TOTAL IRON ORE INVENTORIES AT CHINA PORTS**



### FUTURE TRADING—FRONT MONTH CLOSING PRICE



IRON ORE PORT INVENTORIES										
	Week Ending December 28, 2018 (million tonnes)									
Province	This week	Change %	Low <sup>4</sup>							

Province	This week	Change %	Low <sup>4</sup>	High⁴
Jingtang	13.60	-2.16%	13.29	19.00
Qingdao	17.00	3.03%	16.09	19.97
Caofeidian	19.30	4.61%	16.70	25.30
Tianjin	9.60	-1.03%	8.50	11.00
Rizhao	14.00	-6.35%	14.00	19.00
Total (35 Ports)	130.48	1.76%	127.72	150.04

IRON ORE FUTURES CONTRACTS							
DCE							

	DCE				SGX	
Closing Date	02 Jan 3pm close				02 Jan 6 pm	
Contract	11905	Change	Change %	Jan'18	Change	Change %
Closing Price	490.0	-5.0	-1.01%	71.14	0.54	0.76%
Vol traded ('000 lots)	44.28	-30.4	-40.72%	6.38	5.03	372.59%
Open positions ('000 lots)	72.85	-1.4	-1.87%	119.69	0.78	0.66%
Day Low	488.0	-1.0	-0.20%	68.66	-1.34	-1.91%
Day High	497.0	5.0	1.02%	71.40	0.20	0.28%

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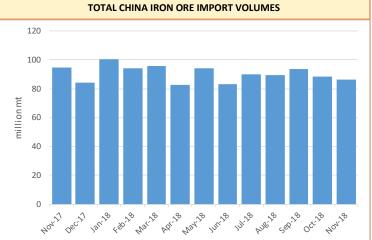
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### **Steel Spot Market Prices - China**

Steel Spot Market RMB/tonne			
Product	28/12/2018	Change	Change %
ReBar HRB400	3,912.0	-63	-1.58%
Wirerod Q300 ¢6.5mm	4,040.0	-30	-0.74%
HRC Q235/SS400 5.5mm*1500*C	3,746.0	-88	-2.30%
CRC SPCC/ST12 1.0mm*1250*2500	4,220.0	-46	-1.08%
Medium & Heavy Plate Q235B 20mm	3,840.0	-20	-0.52%
GI ST02Z 1.0mm*1000*C	4,570.0	-50	-1.08%
Billet Q235 150*150mm	3,300.0	-140	-4.07%



CHINESE STEEL EXPORT PRICES								
China Export Prices USD/tonne								
Product	Specification	Export tax (+)/Vate rebate (-)		Change				
			28/12/2018					
Rebar	BS4449 460B 12-25mm, + chrome	-13%	475	-20				
Wire Rod	SAE1008 6.5-10mm +chrome	-9%	495	-10				
Hot-rolled coil	SS400/Q235 4.0-10.mm	-9%	490	-10				
Cold-rolled coil	SPCC 1.0mm	-13%	535	-10				
Medium & Heavy plate	A-level Shipe plate 12-25mm	0%	510	-10				
Galvanised	ST02Z/SGCC 1.0mm	-13%	550	-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\*15/(16-0.9); Calculation formula for converting export prices of wire rod and hot-rolled steel into prices in hina's spot market = FOB\* exchange rate \*15/(16-0.9); Calculation formula for converting export prices of medium-thick plate into prices in China's spot market = FOB\* exchange rate

#### Steel Inventories<sup>3</sup> (unit: 1000 tonnes) 28/12/2018 21/12/2018 **Product** Change Change % Rebar 3,009 3,141 132 4.39% Wirerod 1,065 42 4.11% 1,023 Hot-rolled Coil 1,762 1,887 -6.62% -125 Medium & Thick Plate 925 951 -26 -2.73% Cold-rolled Coil 1,071 1,075 -0.37% -4 Total 7,965 7,945 0.25%

**CHINESE STEEL INVENTORIES** 

<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.

### 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	74.13	0.32	Mmi CFR Equivalent index for 12th October		
Coke	2,070	-90	2nd grade met coke, Tangshan, incl. tax		
Steel Scrap	2,150	-50	steel scrap (6mm) in Zhangjiagang, exl. tax		
Billet Cost	2,892	-54	Q234, incl. tax		
Rebar cost - Blast furnace	3,152	-56	calculated based on theoretical w eight, incl. tax		
Rebar profit - Blast furnace	578	36	based on Shanghai prices, incl. tax		
Hot-rolled coil cost - Blast furnace	3,217	-54	based on actual weight, incl. tax		
Hot-rolled coil proft - Blast furnace	463	-86	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

Iron Ore Index Specifications (Port and Seaborne)						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 by 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	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 download the guide		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					
	C		-+ 000/ -f	Si bl 6 2 450/		Data Exc	:lusions*		
Sizing	Granular size be	ow 10mm for at least 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 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	L/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						
January 02, 2019	, 2019 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	61.58%	2.33%	3.61%	0.100%	9.32%	PB Fines 62%	62.00%	2.60%	4.30%	0.090%	10.00%
Newman Fines	62.19%	2.48%	4.21%	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	64.85%	1.27%	2.13%	0.070%	8.13%	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	62.69%	1.54%	4.86%	0.070%	8.46%	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%
January 02, 2019 SPECIFICATIONS APPLIED FOR 58% BRAND ASSESSMENTS											
	Fe	Δlumina	Silica	Phos	Moisture						

January 02, 2019	SPECIFICATIONS APPLIED FOR 58% BRAND ASSESSMENT					
	Fe	Alumina	Silica	Phos	Moisture	
SSF	56.53%	3.10%	6.18%	0.050%	9.18%	
FMG Blended Fines	58.25%	2.68%	5.64%	0.060%	7.44%	
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	57.29%	1.40%	6.38%	0.040%	9.05%	

### 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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