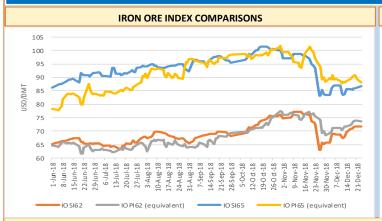
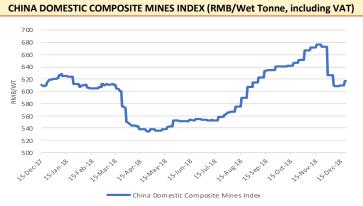


Dally	Iron Or	e Inde	x Rep	ort								Decen	nber 25	5, 2018	3
						IRON ORE	PORT S	TOCK INDEX	(IOPI)						
ecembei	r 25, 2018		FOT C	Qingdao (in	c. 16% VAT), i	RMB/wet to	onne			CFR Qingd	ao Equivale	ent (exc. 16%	VAT), USD/	dry tonne	1
ndex	Fe Content	Price	Change	Change %	MTD	YTD ²	Low ²	High ²	Price	Change	Change 9	6 MTD	YTD²	Low ²	High ²
OPI62	62% Fe Fines	570	-1	-0.2%	556	509	443	603	73.69	-0.24	-0.3%	71.91	67.64	61.36	77.89
OPI58	58% Fe Fines	402	3	0.8%	390	360	304	419	50.85	0.07	0.1%	49.26	46.56	40.67	52.72
OPI65	65% Fe Fines	675	-1	-0.1%	684	659	541	784	87.97	-1.61	-1.8%	89.20	88.57	75.83	101.7
		IR	ON ORE SEA	ABORNE I	NDEX (IOSI)						MARI	СЕТ СОММЕ	NTARY		
ecembe	r 25, 2018			CFR Qin	gdao, USD/dr	y tonne			No Seaborne	indices due to	Public Holiday	in Singapore			
ndex	Fe Content	Price	Change	Change %	MTD	YTD ³	Low ³	High ³	Iron ore port	stock quotes e	ased today as i	mills reduced thei	r buying deman	ds, with concl	uded transa
OSI62	62% Fe Fines	11100	Change	change /	69.41	68.89	62.95	86.20				M there is a new, n Dec 25 to 24 pm			
OSI65	65% Fe Fines				85.59	93.22	83.20	101.50		o Jingtang port					
33.03	03701 € 1111€3								(10011)						
Veek Endi	ng December 21		FOT C	Dingdao (in	c. 16% VAT), I			JMP INDEX	(IOPLI)	CFR Qingd	ao Fouivale	ent (exc. 16%	VAT), USD/	dry tonne	1
ndex	Fe Content	Price	W-o-W			YTD 3	Low ³	High ³	Drice				YTD ³	Low 3	High
OPLI62	62.5% Fe Lump	750	7	Change %	748	654	565	789	Price 94.20	0.81	Change 9	6 MTD 94.05	84.07	76.63	98.5
JFLI02	02.3% Fe Lump	730											64.07	70.03	30.3
			IRO	N ORE DO	MESTIC CON				SMEN IS A	ND COMP	OSITE IND			. 4	
	ling December 2	<u> </u>				<u> </u>	•	ding tax) 4	2			USD/tonne			2
rovince	Region	Product		Basis	This week	Change	%	Low ²	High ²		week	Change %	Low		High ²
lebei	Hanxing		Concentrate	+	658	1.1%		579	718		5.53	1.04%	84.0		104.24
lebei	Qian'an	_	Concentrate	+	735 535	0.0%		630 445	815 565		7.67	-0.03%	91.4		118.33
iaoning	Anshan		Concentrate		740	0.0%		620	815		7.67		64.6		82.03
handong Neek End	Zibo ling December 2		Concentrate		This week	Change	%	Low 5	High 5			-0.03% RMB/USD = 6.8919	90.0		118.33
	es Concentrate		Index RMB/		617.30	1.2%	70	534.50	676.26			pplied: RMB/USD 6.			
		-			O (RMB/WT					DE SEABO	DNE INDE	x, CFR QING	DAO (USD	/DMT)	
750 — 650 — 550 —		~~		~~		~	<u>^</u>	95 85 75		~~~					~
450 350 250 250 250	Linerin artistici	O PIE			- 10 P165	12 Months Ects	·	65 55 45 Lucil ³	28 Jun 18 Juli	27. ur. 20 aug.	3 ANB 18 SERT		och house	or 30 Mort 18	ec'39
			IRC	ON ORE P	ORT STOCK I	NDEX MO	NTHLY, C	QUARTERLY	AND YEAF	R-TO-DATE	AVERAGE	:S			
ecember	r 25, 2018		FOT	Qingdao (ir	ıc. 16% VAT), I	RMB/wet to	onne			CFR Qingo	lao Equivale	ent (exc. 16%	VAT), USD/	dry tonne	1
ndex	Fe Content	August	September	October	November	MTD	QTD	YTD²	August	Septembe	r October	November	MTD	QTD	YTD
	62% Fe Fines	505	513	564	564	556	569	509	64.29	63.41	65.25	72.55	71.91	73.30	67.6
JPI62		363	385	401	401	390	400	360	44.14	44.86	45.84	50.47	49.26	50.39	46.5
	58% Fe Fines	303			760	684	730	659	82.19	85.29	92.13	99.05	89.20	95.13	88.5
)PI58	58% Fe Fines 65% Fe Fines	701	732	760							-	REIGHT RAT	ES		
OPI58 OPI65		701			ERLY AND YE	AR-TO-DA	TE AVEF	RAGES							
PI58 PI65 IRO	65% Fe Fines	701		, QUART	ERLY AND YE		ATE AVER	RAGES	December 2	4 2018			ES - DRY BUL	.K US\$/wet	tonne
OPI58 OPI65 IRO ecember	65% Fe Fines	701		CFR Qir	ngdao, USD/dr		QTD	YTD ³	December 2		gnation	FREIGHT RAT	ES - DRY BUL Change %	K US\$/wet	
OPI58 OPI65 IRO ecember	65% Fe Fines N ORE SEABO r 25, 2018	701	X MONTHLY	CFR Qir	ngdao, USD/dr	y tonne				Desi		FREIGHT RAT			High
OPI58 OPI65 IRO December	65% Fe Fines N ORE SEABO r 25, 2018 Fe Content	701 RNE INDEX August	X MONTHLY September	CFR Qir October	ngdao, USD/dr November	y tonne MTD	QTD	YTD ³	Route	Desi	gnation	Change	Change %	Low 5	High 10.00
OPI58 OPI65 IRO Decemberates andex OSI62	65% Fe Fines N ORE SEABO r 25, 2018 Fe Content 62% Fe Fines	701 RNE INDEX August 67.89	September 68.79 96.48	CFR Qir October 72.31 98.97	ngdao, USD/dr November 72.91 94.05	MTD 69.41 85.59	QTD 71.74 93.68	YTD ³ 68.89 93.22	Route W. Australia - Tubarao - Qin	Desi Qingdao gdao	gnation C5 6.21	Change 0.19 9 -0.02	Change % 3.18%	Low ⁵ 5.109	High 10.00
DPI58 DPI65 IRO December ndex DSI62 DSI65	65% Fe Fines N ORE SEABO r 25, 2018 Fe Content 62% Fe Fines 65% Fe Fines	701 RNE INDEX August 67.89	September 68.79 96.48	CFR Qir October 72.31 98.97 ON ORE P	November 72.91 94.05	MTD 69.41 85.59 NDEX MOI	QTD 71.74 93.68 NTHLY, C	YTD ³ 68.89 93.22	Route W. Australia - Tubarao - Qin	Qingdao gdao	gnation C5 6.21 C3 16.0	Change 0.19 9 -0.02	Change % 3.18% -0.11%	Low ⁵ 5.109 12.705	High 10.000 24.76
December ndex OSI62 OSI65 Week Endir	65% Fe Fines N ORE SEABO r 25, 2018 Fe Content 62% Fe Fines 65% Fe Fines	701 RNE INDEX August 67.89 94.04	September 68.79 96.48 IRC	CFR Qir CFR Qir October 72.31 98.97 ON ORE P	November 72.91 94.05 ORT LUMP II	y tonne MTD 69.41 85.59 NDEX MOI	QTD 71.74 93.68 NTHLY, C	YTD ³ 68.89 93.22 QUARTERLY	Route W. Australia - Tubarao - Qin	Qingdao gdao 2-TO-DATE CFR Qingd	gnation CS 6.21 C3 16.0 AVERAGE	Change 0.19 9 -0.02 S ent (exc. 16%	Change % 3.18% -0.11% VAT), USD/	Low ⁵ 5.109 12.705	High 10.002 24.76
OPI58 OPI65 IRO December ndex OSI62 OSI65	65% Fe Fines N ORE SEABO r 25, 2018 Fe Content 62% Fe Fines 65% Fe Fines	701 RNE INDEX August 67.89 94.04 August	September 68.79 96.48 IRC	CFR Qir CFR Qir October 72.31 98.97 ON ORE P	November 72.91 94.05	MTD 69.41 85.59 NDEX MOI	QTD 71.74 93.68 NTHLY, C	YTD ³ 68.89 93.22	Route W. Australia - Tubarao - Qin	Qingdao gdao 2-TO-DATE CFR Qingd	gnation CS 6.21 C3 16.0 AVERAGE	Change 0.19 9 -0.02	Change % 3.18% -0.11% VAT), USD/	Low ⁵ 5.109 12.705	High 10.000 24.76



December 25, 2018





IRON ORE BRAND SPOT PRICE ASSESMENTS

December 25, 2018	PORT STOCK INDEX (RMB/WT)				
	Price	Change	Diff to IOPI62		
Roy Hill	536	-1	-34		
SIMEC Fines	456	-1	-114		
PB Fines	551	-1	-19		
Newman Fines	550	-1	-20		
MAC Fines	527	-1	-43		
Jimblebar Blended Fines	499	-1	-71		
Carajas Fines	671	-1	101		
Brazilian SSF	503	-1	-67		
Brazilian Blend Fines	557	-1	-13		
RTX Fines	482	-1	-88		

December 23, 2010	JEADO	MINE HADEX (03)	רואוון (וואווים קט
	Price	Change	Diff to IOSI62
Roy Hill	67.31	0.00	-4.49
SIMEC Fines	63.99	0.00	-7.81
PB Fines	71.41	0.00	-0.39
Newman Fines	73.92	0.00	2.12
MAC Fines	67.74	0.00	-4.06
Jimblebar Blended Fines	62.86	0.00	-8.94
Carajas Fines	85.57	0.00	13.77
Brazilian SSF	74.92	0.00	3.12
Brazilian Blend Fines	75.55	0.00	3.75
RTX Fines	64.21	0.00	-7.59

IVIX I IIIE3	402	-1	-00			
December 25, 2018	PORT S	TOCK INDEX (RMB/WT)				
	Price	Change	Diff to IOPI58			
SSF	359	3	-43			
FMG Blended Fines	404	3	2			
Robe River	403	3	1			
Western Fines	377	2	-25			
Atlas Fines	363	3	-39			
Yandi	453	3	51			

IRON ORE INDEX NORMALISATION DIFFERENTIALS

Port	Stock Index Product Differentials (RMB/wet tonr	ie)	Seal	oorne Index Product Differentials	(UDS/dry tonn	e)
	Applicable range	Value	Change		Applicable range	Value	Change
	High Grade Fe 60 - 63%	10.00	0.00		High Grade Fe 60 - 63%	2.75	0.00
	High Grade Fe 63 - 64%	34.00	0.00		High Grade Fe 63 - 64%	2.00	0.00
1% Fe	High Grade Fe 64 - 65%	Parage	2.00	0.00			
	High Grade Fe 65 - 65.5%	34.00	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%	26.00	0.00		High Fe Grade Al <2.25%	4.50	0.00
1% Alumina	High Fe Grade Al 2.25-4%	50.00	0.00	10/ Alumina	High Fe Grade Al 2.25-4%	0.25	0.00
1% Alullilla	Low Fe Grade Al <2.25%	81.00	0.00	1% Alumina		Value 2.75 2.00 2.00 2.00 4.50	
	Low Fe Grade Al 2.25-4%	17.00	0.00				
	High Fe Grade Si <4%	2.00	0.00		High Fe Grade Si <4%	2.00 2.00 4.50 0.25 1.50 1.00	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	9.00	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
Phosphorus	High Fe Grade 0.115% <p<0.15%< td=""><td>2.00</td><td>0.00</td><td></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		High Fe Grade 0.115% <p<0.15%< td=""><td>1.75</td><td>0.00</td></p<0.15%<>	1.75	0.00
Filospilorus	Low Fe Grade 0.09 <p<0.1%< td=""><td>2.00</td><td>0.00</td><td>riiospiiorus</td><td></td><td></td><td></td></p<0.1%<>	2.00	0.00	riiospiiorus			

			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	-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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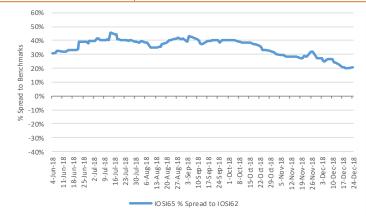
December 25, 2018

IRON ORE INDEX PREMIUMS/DISCOUNTS

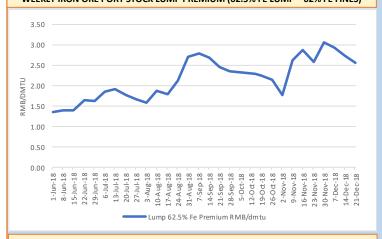
December 25, 2018	PORT STOCK IN	NDEX (RMB/WT)
Fe Content	Spread to IOPI62	% Spread to IOPI62
58% Fe Fines	-168	-29.47%
65% Fe Fines	105	18.42%



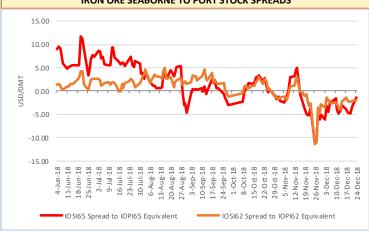
December 25, 2018 SEABORNE INDEX (USD/DMT) Fe Content Spread to IOSI62 % Spread to IOSI62 65% Fe Fines



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



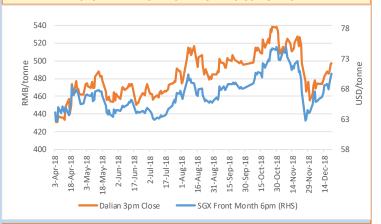
IRON ORE SEABORNE TO PORT STOCK SPREADS



TOTAL IRON ORE INVENTORIES AT CHINA PORTS



FUTURE TRADING—FRONT MONTH CLOSING PRICE



	Week Ending Dece	mber 21, 2018 (million	tonnes)	
Province	This week	Change %	Low ⁴	
Jingtang	14.40	3.60%	13.29	:
Qingdao	16.80	1.82%	16.09	:

Jingtang	14.40	3.60%	13.29	19.00
Qingdao	16.80	1.82%	16.09	19.97
Caofeidian	18.10	-1.90%	16.70	25.30
Tianjin	9.40	-3.09%	8.50	11.00
Rizhao	14.30	-4.35%	14.30	19.00
Total (35 Ports)	128.38	0.12%	127.72	150.04

IRON ORE PORT INVENTORIES

		DCE			SGX	
Closing Date	2	5 Dec 3pm clo	ose		25 Dec 6 pm	
Contract	11905	Change	Change %	Jan'18	Change	Change %
Closing Price	486.0	-10.5	-2.11%	70.56		
Vol traded ('000 lots)	93.71	-30.9	-24.79%	18.77		
Open positions ('000 lots)	70.39	-1.5	-2.13%	101.36		
Day Low	480.5	-4.5	-0.93%	70.31		

-5.0

492.0

-1.01%

IRON ORE FUTURES CONTRACTS

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Day High

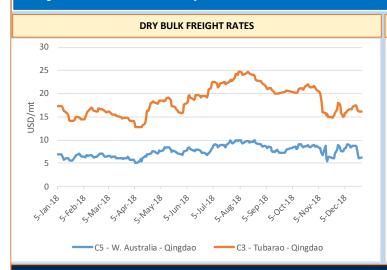
High⁴

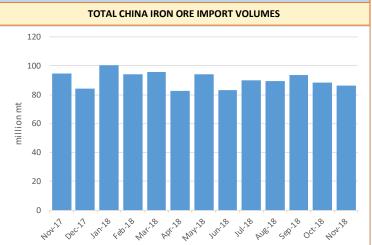
December 25, 2018

70.76



December 25, 2018





Steel Spot Market Prices - China

Steel Spot Market RMB/tonne			
Product	21/12/2018	Change	Change %
ReBar HRB400 ¢18mm	3,975.0	35	0.89%
Wirerod Q300 ¢6.5mm	4,070.0	30	0.74%
HRC Q235/SS400 5.5mm*1500*C	3,834.0	16	0.42%
CRC SPCC/ST12 1.0mm*1250*2500	4,266.0	13	0.31%
Medium & Heavy Plate Q235B 20mm	3,860.0	24	0.63%
GI ST02Z 1.0mm*1000*C	4,620.0	0	0.00%
Billet Q235 150*150mm	3,440.0	90	2.69%



CHINESE STEEL EXPORT PRICES									
China Export Prices USD/tonne									
Product	Specification	Export tax (+)/Vate rebate (-)		Change					
			21/12/2018						
Rebar	BS4449 460B 12-25mm, + chrome	-13%	495	5					
Wire Rod	SAE1008 6.5-10mm +chrome	-9%	505	5					
Hot-rolled coil	SS400/Q235 4.0-10.mm	-9%	500	10					
Cold-rolled coil	SPCC 1.0mm	-13%	545	5					
Medium & Heavy plate	A-level Shipe plate 12-25mm	0%	520	0					
Galvanised	ST02Z/SGCC 1.0mm	-13%	560	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*15/(115-0.13); Calculation formula for converting export prices of wire rod and hot-rolled steel into prices in hina's spot market = FOB* exchange rate*15/(115-0.09); 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) 21/12/2018 14/12/2018 **Product** Change Change % Rebar 3,009 2,974 35 1.18% Wirerod 1,023 1,005 1.79% 18 Hot-rolled Coil 1,887 1,944 -57 -2.93% Medium & Thick Plate 951 995 -4.42% Cold-rolled Coil 1,075 1,081 -6 -0.56% Total 7,945 7,999 -0.68%

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	73.81	2.14	Mmi CFR Equivalent index for 12th October		
Coke	2,160	0	2nd grade met coke, Tangshan, incl. tax		
Steel Scrap	2,200	70	steel scrap (6mm) in Zhangjiagang, exl. tax		
Billet Cost	2,046	-862	Q234, incl. tax		
Rebar cost - Blast furnace	3,208	33	calculated based on theoretical w eight, incl. tax		
Rebar profit - Blast furnace	542	-23	based on Shanghai prices, incl. tax		
Hot-rolled coil cost - Blast furnace	3,271	38	based on actual w eight, incl. tax		
Hot-rolled coil proft - Blast furnace	549	-38	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	Iron Ore Index Compilation Rational and Data Exclusions								
	65% Fe Fines	62% Fe Fines	58% 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 MM these companies. This data is normalised to the appropriate specifications are					
Alumina %	1.40	2.25	2.25	1.50				specifications and		
Silica%	1.50	4.00	5.50	screened to remove outliers before volume-weighted average prices ar calculated from the remaining core set of data.				e prices are		
Phosphorus %	0.06	0.09	0.05	0.08	0.08 For more details on MMi's iron ore methodology please downlo		nload the guide			
Sulphur %	0.01	0.02	0.02	0.02		d on our website at: www.mmiprices.com				
Moisture %	8.00	8.00	9.00	4.00						
	Caranda a sina ha	.l 40 f + l	-+ 000/ -f	Si bl C 2 450/	Data Exclusions*					
Sizing	Granular size below 10mm for at least 90% of cargo;		Size below 6.3mm max 15%		62%	58%	65%			
Sizilig	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	l la companya di managantan di managantan di managantan di managantan di managantan di managantan di managanta					
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						
December 25, 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	61.58%	2.33%	3.61%	0.100%	9.32%	PB Fines 62%	62.00%	2.60%	4.30%	0.090%	10.00%
Newman Fines	62.21%	2.49%	4.22%	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	61.35%	2.88%	4.21%	0.110%	6.85%	Jimblebar Blended Fines	61.79%	2.67%	4.08%	0.115%	7.16%
Carajas Fines	64.86%	1.29%	2.07%	0.060%	8.10%	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	62.78%	1.50%	4.87%	0.070%	8.40%	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 25, 2018 SPECIFICATIONS APPLIED FOR 58% BRAND ASSESSMENTS											

December 25, 2018	SPECIFICATIONS APPLIED FOR 58% BRAND ASSESSMENTS						
	Fe	Alumina	Silica	Phos	Moisture		
SSF	56.53%	3.08%	6.19%	0.050%	9.20%		
FMG Blended Fines	58.26%	2.69%	5.65%	0.060%	7.43%		
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	57.22%	1.38%	6.40%	0.040%	9.02%		

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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