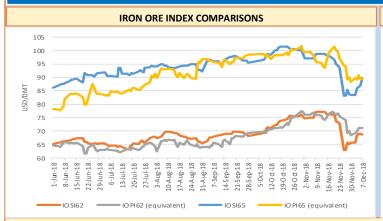
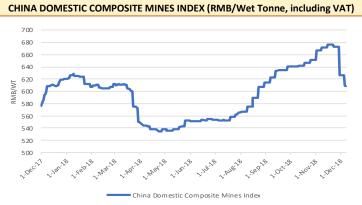


	Iron Ore	Inde	x Repo	ort								Decen	nber 07	7, 2018	3
						IRON ORE	PORT S	TOCK INDEX	(IOPI)						
ecember	07, 2018		FOT C	Qingdao (in	c. 16% VAT), F	RMB/wet to	onne			CFR Qingda	o Equival	ent (exc. 16%	VAT), USD/	dry tonne	1
ndex	Fe Content	Price	Change	Change %	MTD	YTD ²	Low ²	High ²	Price	Change	Change 5	% MTD	YTD²	Low ²	High ²
OPI62	62% Fe Fines	550	1	0.2%	546	506	443	603	71.24	0.07	0.1%	70.50	67.35	61.36	77.89
OPI58	58% Fe Fines	390	0	0.0%	390	358	304	419	49.40	-0.05	-0.1%	49.32	46.39	40.67	52.71
OPI65	65% Fe Fines	683	1	0.1%	686	658	541	784	89.39	0.06	0.1%	89.64	88.54	75.83	101.7
		IR	ON ORE SEA	ABORNE II	NDEX (IOSI)						MAR	кет сомме	NTARY		
ecember	r 07, 2018			CFR Qin	gdao, USD/dr	y tonne						orts decreased by			
ndex	Fe Content	Price	Change	Change %	MTD	YTD ³	Low ³	High ³				d. For the same w			
OSI62	62% Fe Fines	68.65	-0.45	-0.7%	68.19	68.81	62.95	86.20		-		.0,000 mt from the			
OSI65	65% Fe Fines	86.95	0.00	0.0%	85.94	93.85	83.20	101.50	-	ening in the 62%			e relatively stab	ic, alough cvii	acrice or
						IRON ORE		JMP INDEX	(IODLI)						
Veek Endi	ng December 7		FOT C	Qingdao (in	c. 16% VAT), I			JIVIF IIVDEX	(IOFLI)	CFR Qingda	o Equival	ent (exc. 16%	VAT), USD/	dry tonne	1
ndex	Fe Content	Price	W-o-W	Change %	MTD	YTD ³	Low ³	High ³	Price	W-oW	Change	% MTD	YTD ³	Low ³	High
OPLI62	62.5% Fe Lump	751	-18	-2.3%	751	649	565	789	94.55	-2.89	-3.0%	94.55	83.51	76.63	98.5
								RICE ASSESS							
Veek Fnd	ing November 3	0. 2018		TONE BO				ding tax) 4	J	TID COMM C	, STT E 1141	USD/tonne	(oveluding t	av) ⁴	
rovince	Region	Product		Basis	This week	Change 9		Low ²	High ²	This	week	Change %	Low		High ²
lebei	Hanxing		Concentrate		695	-2.5%	-	579	718		0.07	-2.7%	83.3		103.38
lebei	Qian'an	65% Fe	Concentrate	Dry	700	-13.0%		630	815	10	0.79	-13.2%	90.7	1	117.35
iaoning.	Anshan	65% Fe	Concentrate	Wet	555	0.0%		445	565	79	.91	-0.2%	64.0	17	81.35
handong	Zibo	65% Fe	Concentrate	Dry	740	-9.2%		620	815	10	5.55	-9.4%	89.2	7	117.35
Veek End	ing November 3	0, 2018			This week	Change 9	%	Low ⁵	High ⁵			RMB/USD = 6.8664			
China Mino	es Concentrate	Composite	Index RMB/	wT	626.41	-6.8%		534.50	676.26	4 Weekly	xchange rate	applied: RMB/USD (5.9208 ⁵ Last 12 n	nonths	
	IRON C	RE PORT	INDEX, FOT	T QINGDA	O (RMB/WT)			IRON O	RE SEABOF	NE INDE	X, CFR QING	DAO (USD	/DMT)	
850 — 750 —				_	~~~	~~		95 —		D		~~		\	
650 —				~~			h	85		700-					
550		~~~				~~~	_	75						~~	
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٧,%	see as a see as		X X	~ ~ ~ ~				,%	rs rs	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~					177
2.201.28	S. S'Way I'Way J'IM.	16 July 5 14 76	tein 37:10 Tevn	30 AUB LASER	19580 JAOO 29108	13404, 5840A		7:Jun:18	29:Jun: 18	.18 27-Jul-18	52 ANG 1	ser liser so	290di JW	24, CHOA, 3G	403
2.A91.7.A9	Jr. War, ywar, Jim,					13.40 138 HOUTS		7. In. 18	29.1111.18	77.141.28 AU				Jan 30	401.78
2.80°17.8°	3, The Hus, Fin.	IO DIE			95 ⁸⁸ , 100 ⁸ , 190 ⁸	23 Mon. J8 Mon.		7. Jun. 18. Jun.	28 Jun 28 July	27.101.28 AU	2A/AUS 1			JeHon 30	**************************************
2. ADT. JI.AS	5 Was Tines Tin.		52 — 10	PI58 —	■ IO PI 65			QUARTERLY		_	10 SI6	2 — IO SI		Janon, 30,	,40°
	7 2, Mar 1, 1 Mar 1, 1 M		52 — 10 IRC	ON ORE PO	■ IO PI 65	NDEX MON	NTHLY, C			-TO-DATE	IO SIG	2 — IO SI	65		
ecember	•	IO PI 6	52 — 10 IRC	ON ORE PO	DRT STOCK II c. 16% VAT), I	NDEX MON	NTHLY, C		AND YEAR	-TO-DATE	AVERAG	io si	65		1
December ndex OPI62	7 07, 2018 Fe Content 62% Fe Fines	August 505	IRC FOT C September 513	ON ORE PO Qingdao (in October 564	DRT STOCK II c. 16% VAT), I November 564	NDEX MON RMB/wet to MTD 546	NTHLY, Conne QTD 572	QUARTERLY	AND YEAR August 64.29	-TO-DATE CFR Qingda September 63.41	AVERAG ao Equival October 65.25	ES losides los losides los losides losides los losides los los los los los los los los los lo	VAT), USD/0 MTD 70.50	dry tonne QTD 73.52	1 YTD ² 67.33
December ndex OPI62 OPI58	Fe Content 62% Fe Fines 58% Fe Fines	August 505 363	IRC FOT (September 513 385	ON ORE PO Qingdao (in October 564 401	DRT STOCK II c. 16% VAT), I November 564 401	NDEX MON RMB/wet to MTD 546 390	NTHLY, Onne QTD 572 403	YTD ² 506 358	AND YEAR August 64.29 44.14	-TO-DATE CFR Qingda September 63.41 44.86	AVERAG no Equival October 65.25 45.84	ES ent (exc. 16% November 72.55 50.47	VAT), USD/0 MTD 70.50 49.32	dry tonne	1 YTD ² 67.3! 46.3!
December ndex OPI62 OPI58 OPI65	Fe Content 62% Fe Fines 58% Fe Fines 65% Fe Fines	August 505 363 701	IRC FOT (September 513 385 732	DN ORE PC Qingdao (in October 564 401 760	DRT STOCK II c. 16% VAT), I November 564 401 760	NDEX MON RMB/wet to MTD 546 390 686	NTHLY, Conne QTD 572 403 745	VTD ² 506 358 658	AND YEAR August 64.29	-TO-DATE CFR Qingda September 63.41	AVERAG AVERAG October 65.25 45.84 92.13	ES ent (exc. 16% November 72.55 50.47 99.05	VAT), USD/0 MTD 70.50 49.32 89.64	dry tonne QTD 73.52	1 YTD ² 67.3! 46.3!
DPI65 IROI	Fe Content 62% Fe Fines 58% Fe Fines 65% Fe Fines N ORE SEABOF	August 505 363 701	IRC FOT (September 513 385 732	ON ORE PO Qingdao (in October 564 401 760	DRT STOCK II c. 16% VAT), I November 564 401 760 ERLY AND YE	NDEX MON RMB/wet to MTD 546 390 686	NTHLY, Conne QTD 572 403 745	VTD ² 506 358 658	AND YEAR August 64.29 44.14 82.19	-TO-DATE CFR Qingda September 63.41 44.86 85.29	AVERAG AVERAG October 65.25 45.84 92.13	November 72.55 50.47 99.05 FREIGHT RAT	VAT), USD/0 MTD 70.50 49.32 89.64	73.52 50.70 96.77	1 67.3 46.3 88.5
DPI62 DPI68 DPI65 IROI	Fe Content 62% Fe Fines 58% Fe Fines 65% Fe Fines N ORE SEABOF	August 505 363 701 RNE INDEX	IRC FOT (September 513 385 732 X MONTHLY	DN ORE PO Qingdao (in October 564 401 760 7, QUARTE	DRT STOCK II c. 16% VAT), I November 564 401 760 ERLY AND YE	NDEX MON RMB/wet to MTD 546 390 686 EAR-TO-DA	NTHLY, Conne QTD 572 403 745 ATE AVER	YTD ² 506 358 658 RAGES	AND YEAR August 64.29 44.14 82.19 December 5.2	-TO-DATE CFR Qingdi September 63.41 44.86 85.29	AVERAG no Equival October 65.25 45.84 92.13	ES ent (exc. 16% November 72.55 50.47 99.05 FREIGHT RAT	MTD 70.50 49.32 89.64 TES	dry tonne	1 YTD 67.3 46.3 88.5
December ndex DPI62 DPI65 IROI December ndex	F 07, 2018 Fe Content 62% Fe Fines 58% Fe Fines 65% Fe Fines N ORE SEABOF r 07, 2018 Fe Content	August 505 363 701 RNE INDEX	IRC FOT C September 513 385 732 X MONTHLY September	ON ORE PO Qingdao (in October 564 401 760 V, QUARTI CFR Qin	DRT STOCK II c. 16% VAT), I November 564 401 760 ERLY AND YE gdao, USD/dr November	NDEX MON RMB/wet to MTD 546 390 686 EAR-TO-DA Ty tonne	NTHLY, Conne QTD 572 403 745 ATE AVER	VTD ² 506 358 658 RAGES	AND YEAR August 64.29 44.14 82.19 December 5 2	-TO-DATE CFR Qingda September 63.41 44.86 85.29 2018 Design	AVERAGO Equival October 65.25 45.84 92.13	November 72.55 50.47 99.05 REIGHT RAT FREIGHT RAT	VAT), USD/0 MTD 70.50 49.32 89.64 TES TES - DRY BUL Change %	73.52 50.70 96.77	1 YTD 67.3: 46.3: 88.5-4 tonne High
December operation of the control of	Fe Content 62% Fe Fines 58% Fe Fines 65% Fe Fines N ORE SEABOR T 07, 2018 Fe Content 62% Fe Fines	August 505 363 701 RNE INDEX August 67.89	IRC FOT (September 513 385 732 X MONTHLY September 68.79	ON ORE PC Qingdao (in October 564 401 760 7, QUARTI CFR Qin October 72.31	DRT STOCK II c. 16% VAT), I November 564 401 760 ERLY AND YE gdao, USD/dr November 72.91	NDEX MON RMB/wet to MTD 546 390 686 EAR-TO-DA ry tonne MTD 68.19	NTHLY, Conne QTD 572 403 745 ATE AVER QTD 72.14	VTD ² 506 358 658 RAGES YTD ³ 68.81	AND YEAR August 64.29 44.14 82.19 December 5.2 Route W. Australia - C	-TO-DATE CFR Qingda September 63.41 44.86 85.29 2018 Design	October 65.25 45.84 92.13	November 72.55 50.47 99.05 FREIGHT RAT FREIGHT RAT Change 6 0.00	VAT), USD/0 MTD 70.50 49.32 89.64 TES TES - DRY BUL Change % 0.00%	73.52 50.70 96.77 K US\$/wet Low 5	1 YTD 67.3. 46.3: 88.5: tonne High
December operation of the control of	F 07, 2018 Fe Content 62% Fe Fines 58% Fe Fines 65% Fe Fines N ORE SEABOF r 07, 2018 Fe Content	August 505 363 701 RNE INDEX	IRC FOT (September 513 385 732 X MONTHLY September 68.79 96.48	ON ORE PO Qingdao (in October 564 401 760 /, QUARTI CFR Qin October 72.31 98.97	DRT STOCK II c. 16% VAT), I November 564 401 760 ERLY AND YE gdao, USD/dr November 72.91 94.05	NDEX MON RMB/wet to MTD 546 390 686 EAR-TO-DA ry tonne MTD 68.19 85.94	NTHLY, Conne QTD 572 403 745 ATE AVER QTD 72.14 95.53	YTD ² 506 358 658 RAGES YTD ³ 68.81 93.85	AND YEAR August 64.29 44.14 82.19 December 5 2 Route W. Australia - C Tubarao - Qing	-TO-DATE CFR Qingda September 63.41 44.86 85.29 2018 Design	October 65.25 45.84 92.13	ES ent (exc. 16% November 72.55 50.47 99.05 FREIGHT RAT Change 6 0.00 15 0.00	VAT), USD/0 MTD 70.50 49.32 89.64 TES TES - DRY BUL Change %	73.52 50.70 96.77	1 YTD 67.3 46.3 88.5 tonne High
December ndex DPI62 DPI65 IROI December ndex DSI62	Fe Content 62% Fe Fines 58% Fe Fines 65% Fe Fines N ORE SEABOF TO7, 2018 Fe Content 62% Fe Fines 65% Fe Fines	August 505 363 701 RNE INDEX August 67.89	IRC FOT C September 513 385 732 X MONTHLY September 68.79 96.48 IRC	ON ORE PO Qingdao (in October 564 401 760 7, QUARTE CFR Qin October 72.31 98.97	November 564 401 760 ERLY AND YE gdao, USD/dr November 72.91 94.05 DRT LUMP II	MDEX MON RMB/wet to MTD 546 390 686 EAR-TO-DA ry tonne MTD 68.19 85.94 NDEX MON	NTHLY, Quence of the control of the	VTD ² 506 358 658 RAGES YTD ³ 68.81	AND YEAR August 64.29 44.14 82.19 December 5 2 Route W. Australia - C Tubarao - Qing	-TO-DATE CFR Qingda September 63.41 44.86 85.29 2018 Design Qingdao	October 65.25 45.84 92.13 anation 5 8.2 3 15.4	ES ent (exc. 16% November 72.55 50.47 99.05 FREIGHT RAT Change 6 0.00 15 0.00	MTD 70.50 49.32 89.64 TES TES - DRY BUL Change % 0.00%	dry tonne QTD 73.52 50.70 96.77 K US\$/wet Low 5 5.109 12.705	1 YTD 67.3 46.3 88.5 tonne High 10.00 24.76
December ndex OPI62 OPI65 IROI December ndex OSI62 OSI65	Fe Content 62% Fe Fines 58% Fe Fines 65% Fe Fines N ORE SEABOR T 07, 2018 Fe Content 62% Fe Fines	August 505 363 701 RNE INDEX August 67.89	IRC FOT C September 513 385 732 X MONTHLY September 68.79 96.48 IRC	ON ORE PO Qingdao (in October 564 401 760 7, QUARTE CFR Qin October 72.31 98.97	DRT STOCK II c. 16% VAT), I November 564 401 760 ERLY AND YE gdao, USD/dr November 72.91 94.05	MDEX MON RMB/wet to MTD 546 390 686 EAR-TO-DA ry tonne MTD 68.19 85.94 NDEX MON	NTHLY, Quence of the control of the	YTD ² 506 358 658 RAGES YTD ³ 68.81 93.85	AND YEAR August 64.29 44.14 82.19 December 5 2 Route W. Australia - C Tubarao - Qing	-TO-DATE CFR Qingda September 63.41 44.86 85.29 2018 Design Qingdao	October 65.25 45.84 92.13 anation 5 8.2 3 15.4	ES ent (exc. 16% November 72.55 50.47 99.05 FREIGHT RAT Change 6 0.00 15 0.00	MTD 70.50 49.32 89.64 TES TES - DRY BUL Change % 0.00%	dry tonne QTD 73.52 50.70 96.77 K US\$/wet Low 5 5.109 12.705	1 YTD 67.3 46.3 88.5 tonne High 10.002 24.76
December ndex OPI62 OPI65 IROI December ndex OSI62 OSI65	Fe Content 62% Fe Fines 58% Fe Fines 65% Fe Fines N ORE SEABOF TO7, 2018 Fe Content 62% Fe Fines 65% Fe Fines	August 505 363 701 RNE INDEX 67.89 94.04	IRC FOT (September 513 385 732 X MONTHLY September 68.79 96.48 IRC FOT (FOT (Column FOT (Col	ON ORE PO Qingdao (in October 564 401 760 7, QUARTI CFR Qin October 72.31 98.97 ON ORE Po Qingdao (in	November 564 401 760 ERLY AND YE gdao, USD/dr November 72.91 94.05 DRT LUMP II	MDEX MON RMB/wet to MTD 546 390 686 EAR-TO-DA ry tonne MTD 68.19 85.94 NDEX MON	NTHLY, Quence of the control of the	YTD ² 506 358 658 RAGES YTD ³ 68.81 93.85	AND YEAR August 64.29 44.14 82.19 December 5.2 Route W. Australia - C Tubarao - Qing	-TO-DATE A CFR Qingda September 63.41 44.86 85.29 2018 Design dao CFR Qingda	October 65.25 45.84 92.13 Institute 15.3 AVERAGINATION 16.3 16.3 AVERAGINATION 16.3 AVERAGINATION	ES ent (exc. 16% November 72.55 50.47 99.05 FREIGHT RAT Change 6 0.00 15 0.00	VAT), USD/0 MTD 70.50 49.32 89.64 TES TES - DRY BUL Change % 0.00%	dry tonne QTD 73.52 50.70 96.77 K US\$/wet Low 5 5.109 12.705	1 YTD ² 67.3! 46.3! 88.54 tonne High 10.002 24.76



December 07, 2018





IRON ORE BRAND SPOT PRICE ASSESMENTS

December 07, 2018	PORT STOCK INDEX (RMB/WT)						
	Price	Change	Diff to IOPI62				
Roy Hill	513	1	-37				
SIMEC Fines	443	1	-107				
PB Fines	531	1	-19				
Newman Fines	532	0	-18				
MAC Fines	516	-2	-34				
Jimblebar Blended Fines	465	1	-85				
Carajas Fines	676	1	126				
Brazilian SSF	508	1	-42				
Brazilian Blend Fines	552	-2	2				
RTX Fines	446	1	-104				

December 07, 2018	SEABO	DRNE INDEX (US	D/DMT)
	Price	Change	Diff to IOSI62
Roy Hill	61.60	-0.45	-7.05
SIMEC Fines	55.30	-0.45	-13.35
PB Fines	67.65	-0.45	-1.00
Newman Fines	70.90	-0.45	2.25
MAC Fines	62.50	-0.45	-6.15
Jimblebar Blended Fines	53.55	-0.45	-15.10
Carajas Fines	84.50	-0.45	15.85
Brazilian SSF	68.65	-0.45	0.00
Brazilian Blend Fines	71.77	-0.45	3.12
RTX Fines	57.22	-0.45	-11.43

KIA FIIIes	440	1	-104				
December 07, 2018	PORT STOCK INDEX (RMB/WT)						
	Price	Change	Diff to IOPI58				
SSF	352	0	-38				
FMG Blended Fines	393	0	3				
Robe River	366	0	-24				
Western Fines	379	0	-11				
Atlas Fines	363	0	-27				
Yandi	447	0	57				

IRON ORE INDEX NORMALISATION DIFFERENTIALS

Port	Stock Index Product Differentials (ie)	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%	43.00	0.00		High Grade Fe 63 - 64%	2.00	0.00
1% Fe	High Grade Fe 64 - 65%	43.00	0.00	1% Fe	High Grade Fe 64 - 65%	2.00	0.00
	High Grade Fe 65 - 65.5%	43.00	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%	34.00	0.00	1% Alumina	High Fe Grade Al <2.25%	5.50	0.00
1% Alumina	High Fe Grade Al 2.25-4%	65.00	0.00		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%	17.00	0.00				
	High Fe Grade Si <4%	2.00	0.00		High Fe Grade Si <4%	1.75	0.00
1% Silica	High Fe Grade Si 4-6.5%	38.00	0.00	1% Silica	High Fe Grade Si 4 - 6.5%	2.75	0.00
	Low Fe Grade	2.00	0.00				
0.01%	High Fe Grade 0.09% <p<0.115%< td=""><td>2.00</td><td>0.00</td><td>0.01%</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	0.01%	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>7.00</td><td>0.00</td><td></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%<>	7.00	0.00		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			

	Port Stock Differentials to Qingdao Port (RMB/wet 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	0.00	15.00

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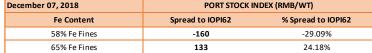
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December 07, 2018



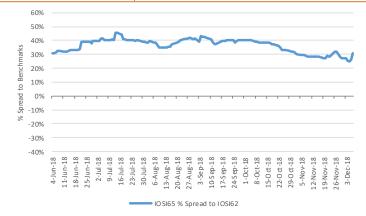
December 07, 2018

IRON ORE INDEX PREMIUMS/DISCOUNTS

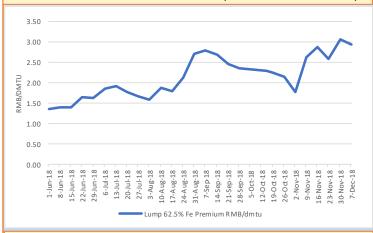




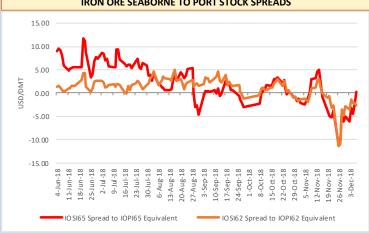
December 07, 2018 SEABORNE INDEX (USD/DMT) Fe Content Spread to IOSI62 % Spread to IOSI62 65% Fe Fines 18.30 26.66%



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



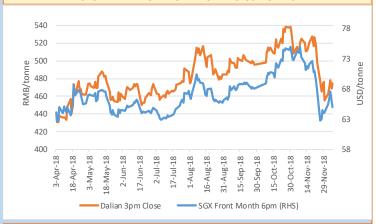
IRON ORE SEABORNE TO PORT STOCK SPREADS



TOTAL IRON ORE INVENTORIES AT CHINA PORTS



FUTURE TRADING—FRONT MONTH CLOSING PRICE



IRON ORE PORT INVENTORIES

	Week Ending Dece	mber 07, 2018 (millior	tonnes)	
Province	This week	Change %	Low ⁴	High ⁴
Jingtang	13.70	3.09%	13.29	19.00
Qingdao	16.09	-4.79%	16.09	19.97
Caofeidian	18.60	-3.33%	16.70	25.30
Tianjin	9.80	-1.01%	8.50	11.00
Rizhao	14.75	-0.47%	14.75	19.00
Total (35 Ports)	127.72	-1.19%	127.72	150.04

IRON ORE FUTURES CONTRACTS

	DCE				SGX	
Closing Date	07 Dec 3pm close				07 Dec 6 pm	
Contract	11905	Change	Change %	Dec'18	Change	Change %
Closing Price	475.0	6.0	1.28%	64.95	1.31	2.06%
Vol traded ('000 lots)	84.41	14.2	20.19%	10.24	-3.45	-25.22%
Open positions ('000 lots)	53.44	1.8	3.39%	101.54	-3.92	-3.71%
Day Low	463.5	-3.5	-0.75%	63.95	0.39	0.61%
Day High	477.0	-4.0	-0.83%	65.25	-0.29	-0.44%

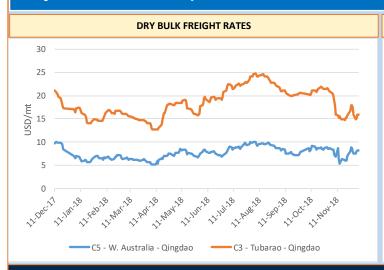
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Steel Spot Market Prices - China

Steel Spot Market RMB/tonne			
Product	30/11/2018	Change	Change %
ReBar HRB400	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*15/(16-0.18); Calculation formula for converting export prices of wire rod and hot-rolled steel into prices in hina's spot market = FOB* exchange rate *15/(1-6.09); Calculation formula for converting export prices of medium-thick plate into prices in China's spot market = FOB* exchange rate

Stee	el 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

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 o	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 weight, 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				

Note: 1 Costs in the table are caluclated based on todays market prices and facout our management, sales, financial and depreciations fees.

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

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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 62.5% Fe Lump			MMi iron ore indices are compiled from data provided by companies that are					
Fe %	65.00	62.00	58.00	6/50			involved in spot market transactions. The transaction-level data submitted to MMi by		
Alumina %	1.40	2.25	2.25	1.50	these companies. This data is normalised to the appropriate specifications and				
Silica%	ica% 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.						
Phosphorus %	0.06	0.09	0.05	0.08	For more details on MMi's iron ore methodology please download the g		nload the guide		
Sulphur %	hur % 0.01 0.02 0.02 0.0		0.02	published on our website at: www.mmiprices.com					
Moisture %	8.00	8.00	9.00	4.00					
	Cranylan size helev 10 mm for at least 00% of saves.				Data Exclusions*				
Sizing	Granular size below 10mm for at least 90% of cargo; maximum of 40% below 150 micron		Size below 6.3mm max 15%		62%	58%	65%		
Sizing			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 from						
Payment Terms L/C at sight		L/C at sight or CAD index calculations today as they were anomalous and could not be veri			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 07, 2018	SPECIFICATIONS APPLIED FOR 62% BRAND ASSESSMENTS			SPECIFICATIONS APPLIED FOR 62% BRAND A				BRAND ASS	SSESSMENTS		
	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	61.56%	2.32%	3.57%	0.100%	9.43%	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	60.94%	2.26%	4.62%	0.090%	7.33%	MAC Fines	61.00%	2.70%	4.70%	0.110%	9.30%
Jimblebar Blended Fines	61.30%	2.93%	4.18%	0.120%	7.02%	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	62.87%	1.47%	4.88%	0.060%	8.38%	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 07, 2018 SPECIFICATIONS APPLIED FOR 58% BRAND ASSESSMENTS											

December 07, 2018	SPECIFICATIONS APPLIED FOR 58% BRAND ASSESSMENTS						
	Fe	Alumina	Silica	Phos	Moisture		
SSF	56.52%	3.03%	6.20%	0.050%	9.39%		
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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December 07, 2018

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