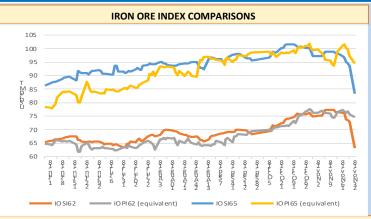
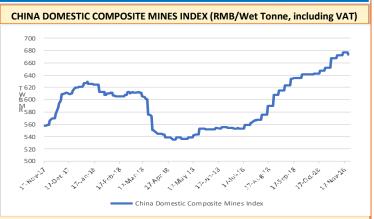


	Iron Or	e Inde	x Rep	ort								Noven	nber 26	2018	
						IRON ORE	PORT S	TOCK INDEX	(IOPI)						
lovembe	r 26 2018		FOT C	Qingdao (in	c. 16% VAT),	RMB/wet to	onne			CFR Qingd	ao Equiva	ent (exc. 16%	6 VAT), USD/	dry tonne	1
ndex	Fe Content	Price	Change	Change %	MTD	YTD²	Low <sup>2</sup>	High <sup>2</sup>	Price	Change	Change	% MTD	YTD²	Low <sup>2</sup>	High <sup>2</sup>
OPI62	62% Fe Fines	580	-7	-1.2%	591	504	443	603	74.47	-1.11	-1.5%	76.02	67.19	61.36	77.89
OPI58	58% Fe Fines	412	0	0.0%	412	357	304	419	51.81	-0.11	-0.2%	51.90	46.27	40.67	52.71
OPI65	65% Fe Fines	727	-20	-2.7%	752	656	541	784	94.31	-2.90	-3.0%	97.88	88.47	75.83	101.7
		IR	ON ORE SE	ABORNE II	NDEX (IOSI)						MAR	KET COMM	ENTARY		
Novembe	r 26 2018			CFR Qin	gdao, USD/d	ry tonne			1			by 20-30yuan/mt as			
ndex	Fe Content	Price	Change	Change %	MTD	YTD <sup>3</sup>	Low <sup>3</sup>	High <sup>3</sup>		-	-	i dropped by 190-2: ne market, as sentin			
OSI62	62% Fe Fines	63.00	-9.85	-13.5%	74.79	68.95	63.25	86.20	1			was happening toda act for Dec'18 dropp		orne iron ore ir	idices plunged
OSI65	65% Fe Fines	83.20	-10.35	-11.1%	96.41	96.41	83.20	101.50							
03103	05/01 € 1111€3	83.20	-10.55	-11.170	30.41				(10011)						
Neek Endi	ng November 23		FOT	Dingdao (in	c. 16% VAT),			UMP INDEX	(IOPLI)	CFR Oingd	ao Fauiva	lent (exc. 16%	«VΔT) LISD/	dry tonne	, 1
	Fe Content	Price	W-o-W		<u></u>	YTD 3	Low <sup>3</sup>	11:-L 3	Price		Change	•	YTD <sup>3</sup>	Low 3	High
Index IOPLI62	62.5% Fe Lump	780	-9	-1.1%	772	642	565	High <sup>3</sup>	97.44	-1.06	-1.1%		82.80	76.63	98.50
OPLIGZ	02.3% Fe Lump	780											82.80	70.03	30.30
			IKO	N ORE DO	MESTIC CO			PRICE ASSESS	SIVIEN IS A	ND COMP	OSITE IN			. 4	
	ing November 2	1		D	<del>-</del> 1. ( 1.			iding tax) 4	111-1-2				(excluding t		111-1-2
Province Hebei	Region	Product	Concentrate		This week 713	-0.4%	<b>%</b>	<b>Low <sup>2</sup></b> 579	High <sup>2</sup>		2.84	-0.2%	<b>Low</b> 83.5		High <sup>2</sup>
Hebei	Hanxing Qian'an	_	Concentrate	<del>  '  </del>	805	-1.2%		630	815		6.10	-1.1%	90.8		117.55
Liaoning	Anshan		Concentrate	<del>                                     </del>	555	-1.2%		445	565		0.05	-1.1%	64.1		81.49
Shandong			Concentrate	+	815	0.0%		620	815		7.55	0.2%	89.4		117.55
	ing November 2		concentrate		This week	Change 9	%	Low 5	High <sup>5</sup>			: RMB/USD = 6.945			
	es Concentrate		Index RMB/		672.30	-0.6%	-	534.50	676.26			applied: RMB/USD			
	IRON C	RF PORT	INDEX. FO	T OINGDA	O (RMB/W	Γ)			IRON O	RE SEABO	RNF INDI	X, CFR QING	SDAO (USD	/DMT)	
850 —		-	, -			,		105				, , , ,		<u>, , ,                                </u>	
						-		103					سر ہ	~	
750 —				~~\\	~~~		4	95		_^~	~~	~			
650 —		~/	لمرمسهما				_	85							
550	~~~	~~ <u>~</u>						75 —						سسر	7
450	~~~			V 1110				65	~		~				
350 —							_	55 —							
_															
250	No No No	St. 150	18 11 32 11 12	25° 25°	√e, √e, •	G. G. de		45							
						× × × × × × × × × × × × × × × × × × ×			Nº - Nº	, Sq.		اد الله الله	P 17 1	e se	55°
2.88 J. 85	The The Alexander	78 Jun E	Je my stylle	Print 3C War Ve	This engly	Security Want			79/hm/2	THE THING	AIR IE	7.5877 - 1.588.1	4.00 mg	# MONIE	-31.7°
J. 16. 1.18.	E. T. Way Vag Fra	JEHUN VIN			= IOPI65	230 Galanana			Tollaria 13	LILE THESE		2 — 10S		& Monday	24.7°5
5 46 1. V.	L. Tryan Was Frie		52 —— IC	) PI 58	= IO PI 65			L'Interior		-	IO SI6	2 —— IOS		" Moving	2412°
			IRO	ON ORE PO	ORT STOCK	INDEX MON				-TO-DATE	AVERAG	2 —— IOS	165		
November	r 26 2018	10 PI 6	IRC	ON ORE PO	DRT STOCK c. 16% VAT),	INDEX MON	onne	Liver P. Frith	AND YEAR	-TO-DATE	AVERAG	2 —— 10 S ES lent (exc. 16%	6 VAT), USD/	dry tonne	1
November Index	r 26 2018 Fe Content	July	IRC FOT (	ON ORE PO Qingdao (in September	ORT STOCK c. 16% VAT),	INDEX MON RMB/wet to MTD	onne QTD	QUARTERLY  YTD <sup>2</sup>	AND YEAR	CFR Qingo	AVERAG ao Equiva Septemb	ES lent (exc. 16% er October	6 VAT), USD/	dry tonne QTD	1 YTD²
November Index IOPI62	r 26 2018  Fe Content 62% Fe Fines	July 482	IRC FOT ( August 505	ON ORE PO Qingdao (in September 513	DRT STOCK c. 16% VAT), October 564	INDEX MON RMB/wet to MTD 591	QTD 577	QUARTERLY  YTD <sup>2</sup> 504	AND YEAR  July  64.29	CFR Qingo August 63.41	AVERAG lao Equiva Septemb	ES lent (exc. 16% er October 72.55	6 VAT), USD/ MTD 76.02	dry tonne QTD 74.28	1 YTD <sup>2</sup> 67.19
November Index IOPI62 IOPI58	r 26 2018  Fe Content 62% Fe Fines 58% Fe Fines	July 482 349	IR( FOT ( August 505 363	DN ORE PO Qingdao (in September 513 385	DRT STOCK c. 16% VAT), October 564 401	RMB/wet to MTD 591 412	Onne  QTD  577  407	QUARTERLY  YTD <sup>2</sup> 504  357	AND YEAR  July  64.29  44.14	CFR Qingo August 63.41 44.86	AVERAG lao Equiva Septemb 65.25 45.84	ES lent (exc. 16% er October 72.55 50.47	6 VAT), USD/ MTD 76.02 51.90	dry tonne QTD 74.28 51.19	1 YTD <sup>2</sup> 67.19 46.27
November ndex OPI62 OPI58 OPI65	r 26 2018  Fe Content 62% Fe Fines 58% Fe Fines 65% Fe Fines	July 482 349 638	IRC FOT ( August 505 363 701	DN ORE PC Qingdao (in September 513 385 732	DRT STOCK c. 16% VAT), October 564 401 760	RMB/wet to MTD 591 412 752	<b>QTD</b> 577 407 756	VTD <sup>2</sup> 504 357 656	AND YEAR  July  64.29	CFR Qingo August 63.41	AVERAG ao Equiva Septemb 65.25 45.84 92.13	ES lent (exc. 16% er October 72.55 50.47 99.05	6 VAT), USD/ MTD 76.02 51.90 97.88	dry tonne QTD 74.28	1 YTD <sup>2</sup> 67.19 46.27
November ndex OPI62 OPI58 OPI65	r 26 2018  Fe Content 62% Fe Fines 58% Fe Fines 65% Fe Fines N ORE SEABOR	July 482 349 638	IRC FOT ( August 505 363 701	ON ORE PO Qingdao (in September 513 385 732 Y, QUARTI	DRT STOCK c. 16% VAT), Cottober 564 401 760 ERLY AND Y	MTD 591 412 752 EAR-TO-DA	<b>QTD</b> 577 407 756	VTD <sup>2</sup> 504 357 656	July 64.29 44.14 82.19	CFR Qingo August 63.41 44.86 85.29	AVERAG ao Equiva Septemb 65.25 45.84 92.13	ES lent (exc. 16% er October 72.55 50.47 99.05 FREIGHT RA	6 VAT), USD/ MTD 76.02 51.90 97.88	74.28 51.19 98.46	1 YTD <sup>2</sup> 67.19 46.27 88.47
November ndex OPI62 OPI58 OPI65 IROI	Fe Content 62% Fe Fines 58% Fe Fines 65% Fe Fines N ORE SEABOR	July 482 349 638	IRC FOT ( August 505 363 701 X MONTHL	DN ORE PO Qingdao (in September 513 385 732 Y, QUARTI	DRT STOCK c. 16% VAT), October 564 401 760 ERLY AND Y	MTD 591 412 752 EAR-TO-DA	90000000000000000000000000000000000000	VTD <sup>2</sup> 504 357 656 RAGES	July 64.29 44.14 82.19	CFR Qingo August 63.41 44.86 85.29	AVERAG ao Equiva Septemb 65.25 45.84 92.13	ES lent (exc. 16% er October 72.55 50.47 99.05 FREIGHT RA	MTD 76.02 51.90 97.88 TES	74.28 51.19 98.46	1 YTD <sup>2</sup> 67.19 46.27 88.47
November ndex OPI62 OPI58 OPI65 IROI November	r 26 2018  Fe Content 62% Fe Fines 58% Fe Fines 65% Fe Fines N ORE SEABOI r 26 2018  Fe Content	July 482 349 638 RNE INDEX	IRC FOT 0  August 505 363 701  X MONTHLY  August	ON ORE PO Qingdao (in September 513 385 732 Y, QUARTI CFR Qir Septembe	DRT STOCK c. 16% VAT), October 564 401 760 ERLY AND Y gdao, USD/d	RMB/wet to MTD 591 412 752 EAR-TO-DA ry tonne	970 QTD 577 407 756 ATE AVER	PAGES  PAGE  PAGE	July 64.29 44.14 82.19  November 2	CFR Qingo August 63.41 44.86 85.29  3 2018 Design	AVERAG ao Equiva Septemb 65.25 45.84 92.13	ES lent (exc. 16% er October 72.55 50.47 99.05 FREIGHT RA FREIGHT RA Change	6 VAT), USD/ MTD 76.02 51.90 97.88 TES TES - DRY BUL Change %	98.46  LK US\$/wet  Low 5	1 YTD <sup>2</sup> 67.19 46.27 88.47 tonne High <sup>5</sup>
November ndex OPI62 OPI65 IROI November ndex	r 26 2018  Fe Content 62% Fe Fines 58% Fe Fines 65% Fe Fines N ORE SEABOI r 26 2018  Fe Content 62% Fe Fines	July 482 349 638 RNE INDEX	IRC FOT 0 August 505 363 701 X MONTHLY August 67.89	ON ORE PO Qingdao (in September 513 385 732 Y, QUARTI CFR Qir September 68.79	DRT STOCK c. 16% VAT), Cottober 564 401 760 ERLY AND Y gdao, USD/d Cottober 72.31	MTD 591 412 752 EAR-TO-DA ry tonne MTD 74.79	90000000000000000000000000000000000000	YTD <sup>2</sup> 504 357 656 RAGES  YTD <sup>3</sup> 68.95	July 64.29 44.14 82.19  November 2 Route W. Australia	C-TO-DATE CFR Qingo August 63.41 44.86 85.29 3 2018 Desi	AVERAG ao Equiva Septemb 65.25 45.84 92.13	ES lent (exc. 16% er October 72.55 50.47 99.05 FREIGHT RA FREIGHT RA Change 100 0.93	6 VAT), USD/ MTD 76.02 51.90 97.88 TES TES - DRY BUI Change %	dry tonne QTD 74.28 51.19 98.46  LK US\$/wet Low 5 5.109	1 YTD <sup>2</sup> 67.19 46.27 88.47 tonne High <sup>5</sup>
November ndex OPI62 OPI65 IROI November index	r 26 2018  Fe Content 62% Fe Fines 58% Fe Fines 65% Fe Fines N ORE SEABOI r 26 2018  Fe Content	July 482 349 638 RNE INDEX	IRC FOT ( August 505 363 701 X MONTHLY August 67.89 94.04	DN ORE PO Qingdao (in September 513 385 732 Y, QUARTI CFR Qir September 68.79 96.48	DRT STOCK c. 16% VAT), Coctober 564 401 760 ERLY AND Y gdao, USD/d r October 72.31 98.97	MTD 591 412 752 EAR-TO-DA ry tonne MTD 74.79 96.41	97.89	YTD <sup>3</sup> 68.95 96.41	July 64.29 44.14 82.19  November 2 Route W. Australia - Tubarao - Qing	CFR Qingo August 63.41 44.86 85.29  3 2018 Desi	AVERAG ao Equiva Septemb 65.25 45.84 92.13 gnation CCS 7.4 C3 15	ES lent (exc. 16% er October 72.55 50.47 99.05 FREIGHT RA Change 00 0.93 76 0.52	6 VAT), USD/ MTD 76.02 51.90 97.88 TES TES - DRY BUL Change %	98.46  LK US\$/wet  Low 5	1 YTD <sup>2</sup> 67.19 46.27 88.41 tonne High tonne
November ndex OPI62 OPI65 IROI November index OSI62	r 26 2018  Fe Content 62% Fe Fines 58% Fe Fines 65% Fe Fines N ORE SEABOI r 26 2018  Fe Content 62% Fe Fines 65% Fe Fines	July 482 349 638 RNE INDEX	IRC FOT 0 August 505 363 701 X MONTHL August 67.89 94.04 IRC	ON ORE PO Qingdao (in September 513 385 732 Y, QUARTI CFR Qir September 68.79 96.48 ON ORE Po	DRT STOCK c. 16% VAT), Cottober 564 401 760 ERLY AND Y gdao, USD/d COttober 72.31 98.97 DRT LUMP	MTD 591 412 752 EAR-TO-DA ry tonne MTD 74.79 96.41	QTD 577 407 756 ATE AVER QTD 73.36 97.89	YTD <sup>2</sup> 504 357 656 RAGES  YTD <sup>3</sup> 68.95	July 64.29 44.14 82.19  November 2 Route W. Australia - Tubarao - Qing	CFR Qingo August 63.41 44.86 85.29  3 2018 Desi	AVERAG  AVERAG  AVERAG  AVERAG  AVERAG  AVERAG  AVERAG	ES lent (exc. 16% er October 72.55 50.47 99.05 FREIGHT RA Change 100 0.93 76 0.52 ES	6 VAT), USD/ MTD 76.02 51.90 97.88 TES TES - DRY BUL Change % 15.36% 3.40%	98.46  LK US\$/wet  Low 5  5.109  12.705	1 YTD <sup>2</sup> 67.14 46.27 88.44 tonne High 10.002 24.76
November index OPI62 OPI65 IROI November Index IOSI62	r 26 2018  Fe Content 62% Fe Fines 58% Fe Fines 65% Fe Fines N ORE SEABOI r 26 2018  Fe Content 62% Fe Fines	July 482 349 638 RNE INDEX	IRC FOT 0 August 505 363 701 X MONTHL August 67.89 94.04 IRC	ON ORE PO Qingdao (in September 513 385 732 Y, QUARTI CFR Qir September 68.79 96.48 ON ORE Po	DRT STOCK c. 16% VAT), Coctober 564 401 760 ERLY AND Y gdao, USD/d r October 72.31 98.97	MTD 591 412 752 EAR-TO-DA ry tonne MTD 74.79 96.41	QTD 577 407 756 ATE AVER QTD 73.36 97.89	YTD <sup>3</sup> 68.95 96.41	July 64.29 44.14 82.19  November 2 Route W. Australia - Tubarao - Qing	CFR Qingo August 63.41 44.86 85.29  3 2018 Desi	AVERAG  AVERAG  AVERAG  AVERAG  AVERAG  AVERAG  AVERAG	ES lent (exc. 16% er October 72.55 50.47 99.05 FREIGHT RA Change 00 0.93 76 0.52	6 VAT), USD/ MTD 76.02 51.90 97.88 TES TES - DRY BUL Change % 15.36% 3.40%	98.46  LK US\$/wet  Low 5  5.109  12.705	1 YTD <sup>2</sup> 67.19 46.27 88.47 tonne High <sup>5</sup> 10.002 24.76
November Index IOPI62 IOPI65 IROI November Index IOSI62 IOSI65	r 26 2018  Fe Content 62% Fe Fines 58% Fe Fines 65% Fe Fines N ORE SEABOI r 26 2018  Fe Content 62% Fe Fines 65% Fe Fines	July 482 349 638 RNE INDEX	IRC FOT ( August 505 363 701 X MONTHLY  August 67.89 94.04 IRC	ON ORE PO Qingdao (in September 513 385 732 Y, QUARTI CFR Qir September 68.79 96.48 ON ORE Po Qingdao (in	DRT STOCK c. 16% VAT), Cottober 564 401 760 ERLY AND Y gdao, USD/d COttober 72.31 98.97 DRT LUMP	MTD 591 412 752 EAR-TO-DA ry tonne MTD 74.79 96.41	QTD 577 407 756 ATE AVER QTD 73.36 97.89	YTD <sup>3</sup> 68.95 96.41	July 64.29 44.14 82.19  November 2 Route W. Australia - Tubarao - Qing	August 63.41 44.86 85.29  3 2018  Designingdao dao  -TO-DATE CFR Qingd	AVERAGE 45.84 92.13 93.13 15. AVERAGE 46.84 47.63 15. AVERAGE 46.84 47.63 47.6	ES lent (exc. 16% er October 72.55 50.47 99.05 FREIGHT RA Change 100 0.93 76 0.52 ES	6 VAT), USD/ MTD 76.02 51.90 97.88 TES TES - DRY BUL Change % 15.36% 3.40%	98.46  LK US\$/wet  Low 5  5.109  12.705	1 YTD <sup>2</sup> 67.19 46.27 88.47 tonne High <sup>5</sup> 10.002 24.76



## November 26 2018





## IRON ORE BRAND SPOT PRICE ASSESMENTS

November 26 2018	PORT	PORT STOCK INDEX (RMB/WT)					
	Price	Change	Diff to IOPI62				
Roy Hill	541	-5	-39				
SIMEC Fines	473	-3	-107				
PB Fines	560	-6	-20				
Newman Fines	569	-8	-11				
MAC Fines	541	-5	-39				
Jimblebar Blended Fines	496	-2	-84				
Carajas Fines	717	-18	137				
Brazilian SSF	535	-11	-45				
Brazilian Blend Fines	580	-10	0				
RTX Fines	457	0	-123				

November 26 2018	SEABORNE INDEX (USD/DMT)				
	Price	Change	Diff to IOSI62		
Roy Hill	55.72	-9.85	-7.28		
SIMEC Fines	49.07	-9.85	-13.93		
PB Fines	61.92	-9.85	-1.08		
Newman Fines	65.29	-9.85	2.29		
MAC Fines	56.67	-9.85	-6.33		
Jimblebar Blended Fines	47.45	-9.85	-15.55		
Carajas Fines	82.21	-9.85	19.21		
Brazilian SSF	65.19	-9.85	2.19		
Brazilian Blend Fines	67.56	-9.85	4.56		
RTX Fines	51.45	-9.85	-11.55		

RTX FINES	457	U	-123				
November 26 2018	PORT STOCK INDEX (RMB/WT)						
	Price	Change	Diff to IOPI58				
SSF	353	-2	-59				
FMG Blended Fines	408	-1	-4				
Robe River	393	-2	-19				
Western Fines	383	-2	-29				
Atlas Fines	368	-1	-44				
Yandi	459	-5	47				

## 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	
1% Fe	High Grade Fe 60 - 63%	13.00	-2.00		High Grade Fe 60 - 63%	3.50	0.00	
	High Grade Fe 63 - 64%	48.00	0.00		High Grade Fe 63 - 64%	2.25	0.00	
	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	18.00	0.00					
	High Fe Grade Al <2.25%	31.00	-3.00		High Fe Grade Al <2.25%	7.75	0.00	
1% Alumina	High Fe Grade Al 2.25-4%	77.00	-3.00	1% Alumina	High Fe Grade Al 2.25-4%	0.50	0.00	
170 Alullilla	Low Fe Grade Al <2.25%	80.00	-5.00	1% Alumina				
	Low Fe Grade Al 2.25-4%	31.00	3.00					
	High Fe Grade Si <4%	5.00	-3.00		High Fe Grade Si <4%	2.25	0.00	
1% Silica	High Fe Grade Si 4-6.5%	38.00	0.00	1% Silica	High Fe Grade Si 4 - 6.5%	3.00	0.00	
	Low Fe Grade	7.00	0.00					
0.01%	High Fe Grade 0.09% <p<0.115%< td=""><td>4.00</td><td>-1.00</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%<>	4.00	-1.00	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>9.00</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%<>	9.00	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>4.00</td><td>0.00</td><td>Phosphorus</td><td></td><td></td><td></td></p<0.1%<>	4.00	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	-15.00	Fangcheng	-5.00	0.00	Lanshan	0.00	0.00	Qingdao	0.00	0.00
Beilun	5.00	0.00	Jiangyin	-15.00	-5.00	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	-40.00	-25.00	Lanqiao	0.00	0.00	Nantong	-15.00	-5.00	Tianjin	-15.00	0.00

www.mmiprices.com

Page 2/5

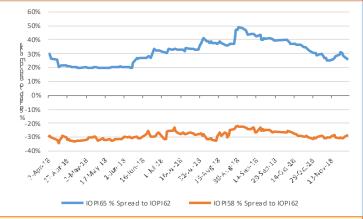
November 26 2018



## November 26 2018

#### IRON ORE INDEX PREMIUMS/DISCOUNTS

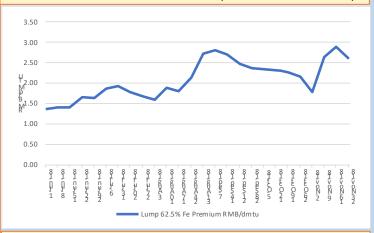
November 26 2018	PORT STOCK IN	IDEX (RMB/WT)
Fe Content	Spread to IOPI62	% Spread to IOPI62
58% Fe Fines	-168	-28.97%
65% Fe Fines	147	25.34%

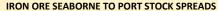


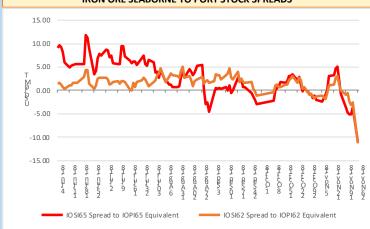
# November 26 2018 Fe Content Spread to IOSI62 65% Fe Fines SEABORNE INDEX (USD/DMT) Spread to IOSI62 32.06%



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



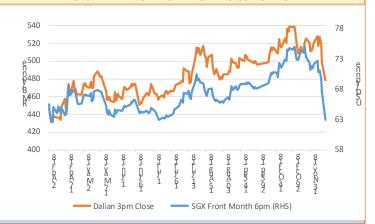




## TOTAL IRON ORE INVENTORIES AT CHINA PORTS



## FUTURE TRADING—FRONT MONTH CLOSING PRICE



IRON ORE PORT INVENTORIES										
Week Ending November 23, 2018 (million tonnes)										
Province	This week	Change %	Low <sup>4</sup>	High <sup>4</sup>						
Jingtang	13.83	-1.21%	13.47	19.00						
Qingdao	17.30	-1.14%	15.60	19.97						
Caofeidian	19.20	-1.03%	16.70	25.30						
Tianjin	<b>Tianjin 10.05 1.52</b> % 8.50 11.00									
Rizhao	15.40	-0.65%	14.04	19.00						

0.06%

128.70

IRON ORE FUTURES CONTRACTS								
		DCE		SGX				
Closing Date	26 Nov 3pm close				26 Nov 6 pm			
Contract	11901	Change	Change %	Dec'18	Change	Change %		
Closing Price	477.5	-19.5	-3.92%	62.79	-4.65	-6.90%		
Vol traded ('000 lots)	99.32	-62.0	-38.45%	25.99	5.59	27.38%		
Open positions ('000 lots)	56.86	-1.8	-3.00%	127.41	1.20	0.95%		
Day Low	477.5	-18.5	-3.73%	62.54	-4.21	-6.31%		
Day High	494.0	-23.0	-4.45%	67.02	-2.42	-3.49%		

www.mmiprices.com

132.14

Total (35 Ports)

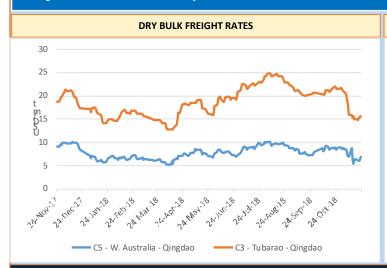
Page 3/5

150.04

**November 26 2018** 



## November 26 2018





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

Steel Spot Market RMB/tonne			
Product	23/11/2018	Change	Change %
ReBar HRB400	4,112.0	-361	-8.07%
Wirerod Q300 ¢6.5mm	4,185.0	-457	-9.84%
HRC Q235/SS400 5.5mm*1500*C	3,749.0	-117	-3.03%
CRC SPCC/ST12 1.0mm*1250*2500	4,350.0	-153	-3.40%
Medium & Heavy Plate Q235B 20mm	3,950.0	-213	-5.12%
GI ST02Z 1.0mm*1000*C	4,690.0	-120	-2.49%
Billet Q235 150*150mm	3,330.0	-310	-8.52%



CHINESE STEEL EXPORT PRICES							
China Export Prices USD/	tonne						
Product	Specification	Export tax (+)/Vate rebate (-)		Change			
			23/11/2018				
Rebar	BS4449 460B 12-25mm, + chrome	-13%	510	-30			
Wire Rod	SAE1008 6.5-10mm +chrome	-9%	530	-35			
Hot-rolled coil	SS400/Q235 4.0-10.mm	-9%	500	-25			
Cold-rolled coil	SPCC 1.0mm	-13%	550	-25			
Medium & Heavy plate	A-level Shipe plate 12-25mm	0%	550	-15			
Galvanised	ST02Z/SGCC 1.0mm	-13%	590	-35			

Note: Calculation formula for converting export prices of rebar, cold-rolled steel and galvanizing into prices in China's spot market = FOB\* exchange rate\*1't6/(15-0.5); Calculation formula for converting export prices of wire rod and hot-rolled steel into prices in hina's spot market = FOB\* exchange rate \*15f(15-0.09); 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	)	
Product	23/11/2018	16/11/2018	Change	Change %
Rebar	3,108	3,207	-99	-3.09%
Wirerod	1,031	1,058	-27	-2.55%
Hot-rolled Coil	2,156	2,208	-52	-2.36%
Medium & Thick Plate	1,096	1,111	-15	-1.35%
Cold-rolled Coil	1,148	1,150	-2	-0.17%
Total	8,539	8,734	-195	-2.23%

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	75.58	-0.87	Mmi CFR Equivalent index for 12th October	
Coke	2,510	-101	2nd grade met coke, Tangshan, incl. tax	
Steel Scrap	2,200	-140	steel scrap (6mm) in Zhangjiagang, exl. tax	
Billet Cost	3,164	-66	Q234, incl. tax	
Rebar cost - Blast furnace	3,434	-65	calculated based on theoretical weight, incl. tax	
Rebar profit - Blast furnace	426	-375	based on Shanghai prices, incl. tax	
Hot-rolled coil cost - Blast furnace	3,489	-66	based on actual w eight, incl. tax	
Hot-rolled coil proft - Blast furnace	241	-24	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 \$ 

www.mmiprices.com

**Page 4/5** 

November 26 2018



## November 26 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	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.				
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	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		8			
Moisture %	8.00	8.00	9.00	4.00					
	C	.l 40 f + l	Sinc halance 000% of course.		Data Exclusions*				
Sizing	Granular size below 10mm for at least 90% of cargo; Size below 6.3mm max 15		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	
Dui ai a a Dai at	0:	) / CCD   CCD		FOT O'mede a Deat	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 verified			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						
November 26 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	61.63%	2.32%	3.56%	0.100%	9.35%	PB Fines 62%	62.00%	2.60%	4.30%	0.090%	10.00%
Newman Fines	62.32%	2.41%	4.09%	0.090%	7.85%	Newman Fines	62.80%	2.20%	4.30%	0.080%	6.40%
MAC Fines	60.76%	2.26%	4.62%	0.090%	7.59%	MAC Fines	61.00%	2.70%	4.70%	0.110%	9.30%
Jimblebar Blended Fines	61.37%	2.85%	4.24%	0.110%	6.82%	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	62.76%	1.52%	4.81%	0.060%	8.37%	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 26 2018 SPECIFICATIONS APPLIED FOR 58% BRAND ASSESSMENTS											
	Fe	Alumina	Silica	Phos	Moisture						

November 26 2018	SPECIFICATIONS APPLIED FOR 58% BRAND ASSESSMENTS						
	Fe	Alumina	Silica	Phos	Moisture		
SSF	56.45%	3.00%	6.30%	0.050%	9.50%		
FMG Blended Fines	58.32%	2.77%	5.81%	0.070%	7.16%		
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			

#### CONTACT US

MMI Singapore Office Details: Level 28, Manulife Tower, 8 Cross Street Singapore. Tel: + 65 6850 7629 E: <a href="mailto:jarek@mmiprices.com">jarek@mmiprices.com</a> SMM Singapore Office Details: Level 28, Manulife Tower, 8 Cross Street Singapore. Tel: + 65 6850 7630 E: <a href="mailto:service.en@smm.cn">service.en@smm.cn</a>

Visit <u>www.mmiprices.com</u> for full index price histories and archive of daily reports

SMM Shanghai Office Details: 9th FL, Building 9, Lujiazui Software Park, No.20, Lane 91, Pudong, Shanghai Tel: +86 021 5155 0306 E: service.en@smm.cn

This information has been prepared by Metals Market Index ("MMi"). Use of the information presented here is at your sole risk, and any content, material and/or data presented or otherwise obtained through your use of the information in this document is at your own discretion and risk and you will be solely responsible for any damage to you personally or your company or organisation or business associates whatsoever which in anyway results from the use, reliance or application of such content material and/or information. Certain data has been obtained from various sources and any copyright existing in such data shall remain the property of the source. Except for the foregoing, MMi retains all copyright within this document. The copying or redistribution of any part of this document without the express written authority of MMi is forbidden.

www.mmiprices.com Page 5/5 November 26 2018