

## October 29, 2018

						IRON OR	E PORT ST	OCK INDE								
ctober 2	29 2019		FOT O	)ingdae (%	nc. 16% VAT), F						ao Faui	valor	t (exc. 16%		/dry tonro	1
		Duine				-		11.1.2								
Idex	Fe Content		Change	Change %		YTD <sup>2</sup>	Low <sup>2</sup>	High <sup>2</sup>	Price	Change		-	MTD	YTD <sup>2</sup>	Low 2	High
PI62	62% Fe Fines	595 407	11 0	1.9%	560 399	494	443	595	76.58	1.63	2.2		71.98	66.12	75.83	77.8
PI58	58% Fe Fines	-	-	0.0%		350	304	407	51.19	0.10	0.2		50.27	45.54	40.67	51.1
OPI65	65% Fe Fines	776	5	0.6%	758	644	541	776	101.03	0.87	0.9		98.76	87.30	96.35	101.0
		IRON	ORE SEA	ABORNE	NDEX (IOSI)						PLATFO	RM 1	FRADES AN	ID TENDE	RS	
october 2	29 2018			CFR Qir	ngdao, USD/dr	y tonne										
ndex	Fe Content	Price (	Change	Change %	6 MTD	YTD <sup>3</sup>	Low <sup>3</sup>	High <sup>3</sup>								
DSI62	62% Fe Fines	75.65	0.00	0.0%	71.96	67.90	63.25	86.20								
DSI65	65% Fe Fines	100.15	-0.40	-0.4%	98.87	94.06	86.20	101.50								
						MA	ARKET CO	MMENTAR	Y							
	ding October 26,		IROI		MESTIC CON	RMB/to	nne (exclu	ding tax) <sup>4</sup>				ι	JSD/tonne (			Uich 2
rovince lebei	Region Hanxing	66% Fe Con	contrate	Basis Dry	This week 695	Change		Low <sup>2</sup>	High <sup>2</sup> 695		s week		Change %	<b>Lov</b> 83.		High <sup>2</sup>
lebei	Hanxing Qian'an	65% Fe Con			780	0.0%		630	780		12.44		-0.5%	90.		100.19
iaoning	Anshan	65% Fe Con			545	0.0%		445	550		78.56		-0.5%	64.		79.28
handong		65% Fe Con			775	0.0%		620	775		11.72		2.2%	89.		111.72
	ding October 26,		icentiate	Dry	This week	Change		Low <sup>5</sup>	High <sup>5</sup>				1B/USD = 6.9377			
	nes Concentrate	-			650.94	0.6%		534.50	650.94							
			DEX, FUI		O (RMB/WT	)		1.05.00	IRON OF	RE SEABC	ORNE IN	DEX,	CFR QING	DAO (USI	D/DMT)	
750	· ····	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				) 		105.00 95.00 85.00 75.00 65.00								~~ ~~
650	Adria Institution	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	And the service of th	~~~	~~~~		,00°.1%	95.00		RE SEABC	20-Jul-18 - 27-Jul-18 -	DEX, 81-80P-6 SI62		7-5ep-18 14-5ep-18	~	12-001-18 19-04-18 26-04-18
650		,,	2.1 <sup>0</sup> (IRC		орг STOCK II	NDEX MO	ONTHLY, C	95.00	8-Jun-18 - 15-Jun-18 - 22-Jun-18 -	81-mr.42 . 81-mr.44 . 81-mr.44	27-Jul-18 - 27-Jul-28 - 27-Jul	81-30-Y-6 SIG 2 AGES	- 10-216 13-448-18 13-448-18 10 516	7-Sep-18 14-Sep-18	21-54p-18 28-54p-18 5-Oct-18 5-Oct-18	
650	29 2018	, Jan 19, Jan	J <sup>1,2</sup> (5) <sup>1,1</sup> (5) <sup>1</sup>	PI58 PI58 PI58 PI58 PI58 PI58 PI58 PI58	مربع مربه مرا مرا مرا مرا مرا مرا مرا مرا	NDEX MO	ONTHLY, O tonne	95.00	8-Jun-18 8-Jun-18 5-Jun-18 5-J	81-101-67 TO-DATI CFR Qing	0 521/11/18 502/11/178 502/11/178		or 50007 17-906-70 17-908-70 10 SIG 13-90-71 10 SIG	7-5ep-18 1-4-5ep-18	21:5ep-18 28:5ep-18 5-0ct-18 5-0ct-18 5-0ct-18 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	1
650	29 2018 Fe Content	ر المراجع المراجع المراجع المراجع المراجع المراجع المراجع	A A A A A A A A A A A A A A A A A A A	PIS8 DN ORE P Qingdao (in August	۲۰۰۰ ۲۹۵۰ ۲۹۵۰ ۲۹۵۰ ۲۹۵۰ ۲۹۵۰ ۲۹۵۰ ۲۹۵۰	NDEX MC RMB/wet 1 MTD	ONTHLY, C tonne QTD	95.00 - 85.00 - 65.00 - 45.00 - 45.00 - <u>95.00 -</u> <u>95.00 -</u> <u>95.00</u>	8-Jun-18 5-Jun-18 5-Jun-18 5-Jun-18 5-Jun-18	81-III1-67 TO-DATI CFR Qing July	20-14-18 50-14-18 50-14-18 50-14-18 50-50-50-50 50-50-50-50 50-50-50 50-500	81-3nv-c SIG2 AGES ivalen ust S	er.50v-or 81-50v-or 10 SI6 31-904-12 10 SI6 4t (exc. 16% ' ieptember	81-d35-7 81-d35-7 55 VAT), USD	21-240-18 28-261-18 28-261-18 28-261-18 28-261-18 28-261-18 28-261-18 29-261-18 20-261-18	1 YTD
650	29 2018 Fe Content 62% Fe Fines	اریک ان ۱۹۹۹ کوری میں کی میں ان کا اور کا	الله الله الله الله الله الله الله الله	PI58 DN ORE P Qingdao (ii August 505	مربع می مربع	NDEX MO RMB/wet 1 MTD 560	DNTHLY, Q tonne QTD 560	95.00		81-401677 81-401677 TO-DATI CFR Qing July 64.29	50-141-18 50-140-18 50-140-18 50-140-18 50-140-18 50-140-18 50-140-18 50-18 50-18 50-18 50-18 50-18 50-18 50-18 50-18 50-18 50-18 50-18	81-807-6 SIG 2 AGES sixalen sist S 11	et (exc. 16% 65.25	81-das-4 81-das-4 55 WAT), USD MTD 71.98	/dry tonne QTD 71.98	1 YTD 66.1
650	E E Content   62% Fe Fines 58% Fe Fines	June 471 332	م م م م م م م م م م م م م م م م م م م	PI58 DN ORE P Qingdao (ii August 505 363	المجلس المحالي المحالي محالي محالي المحالي المح محالي محالي المحالي المح محالي محالي المحالي محالي محالي محالي محالي المحالي المحالي المحالي المحالي المحالي المحالي مح محالي محالي مح محالي محالي محالي محالي محالي محالي مح	NDEX MO RMB/wet 1 MTD 560 399	DNTHLY, C tonne QTD 560 399	95.00 - 85.00 - 65.00 - 45.00	81-unr-8 81-unr-7 9 81-unr-7 9 8 8 1-unr-7 7 8 8 1-unr-7 7 8 8 1-unr-7 8 8 1-unr-7 8 8 1-unr-7 1-unr-7	81-101-67 81-101-67 STO-DATI CFR Qing July 64.29 44.14	0	SIG2 SIG2 AGES H1 36	er-favor 81-fav- 10 SIG 10 SIG	81-das-4 81-das-4 55 VAT), USD 71.98 50.27	/dry tonne QTD 71.98 50.27	1 YTD 66.1 45.5
650 550 450 250	E Content   62% Fe Fines 58% Fe Fines   55% Fe Fines 55% Fe Fines	اریک ان ۲۹۵۲ ان ۲۹۵۶ ان ۲۹۵۶ ان ۲۹۵۶ ان ۲۹۵۶ ان ۲۹۵۶ ان ۲۹۵۶ ان ۲۹۵۶ ان ۲۹۵۶ ان ۲۹۵۶ ان ۲۹۹۶ ان ۲۹۹۶ از ۲۹۹۶	31 <sup>39</sup> 100 100 100 100 100 100 100 100 100 100	PI58 DN ORE P Qingdao (ii August 505 363 701	المعنى المعنى المعنى المعنى المعن <b>ORT STOCK II</b> <b>September</b> 513 385 732	هو <sup>2,19</sup> برماند مراجع المراجع NDEX MO RMB/wet 1 MTD 560 399 758	DNTHLY, Q tonne QTD 560 399 758	95.00		81-401677 81-401677 TO-DATI CFR Qing July 64.29	50-141-18 50-140-18 50-140-18 50-140-18 50-140-18 50-140-18 50-140-18 50-18 50-18 50-18 50-18 50-18 50-18 50-18 50-18 50-18 50-18 50-18	81-80-90-55 SIG 2 AGES Vivalen ust S 11 36	et (exc. 16% beptember 65.25 45.84 92.13	VAT), USD MTD 71.98 50.27 98.76	/dry tonne QTD 71.98	1 YTD 66.1 45.5
650	29 2018 Fe Content 62% Fe Fines 58% Fe Fines 65% Fe Fines	اریک ان ۲۹۵۲ ان ۲۹۵۶ ان ۲۹۵۶ ان ۲۹۵۶ ان ۲۹۵۶ ان ۲۹۵۶ ان ۲۹۵۶ ان ۲۹۵۶ ان ۲۹۵۶ ان ۲۹۵۶ ان ۲۹۹۶ ان ۲۹۹۶ از ۲۹۹۶	31 <sup>39</sup> 100 100 100 100 100 100 100 100 100 100	۲.۱۰۰ <sup>۲۹</sup> ۲.۱۰ <sup>۲۹</sup> ۲.۱۰۹ <sup>۲۹</sup> ۲.۱۰۹ ۲.۱۰۹ ۲.۱۰۹ ۲.۱۹۹ ۲.۹۹ ۲.	۲۰۰۰ ۲۰۰۰ ۲۰۰۰ ۲۰۰۰ ۲۰۰۰ ۲۰۰۰ ۲۰۰۰ ۲۰۰	مرابع مرابع مرابع NDEX MC RMB/wet 1 MTD 560 399 758 AR-TO-D/	DNTHLY, Q tonne QTD 560 399 758	95.00	AND YEAR. 5.87 43.75 79.76	81-101(£7 817-101(£7 70-DATI CFR Qing July 64.29 44.14 82.19	0	SIG2 AGES Vivalen Ist S 29 FR	er-Snuor 81-Sny-/E it (exc. 16% september 65.25 45.84 92.13 EIGHT RAT	81-ds2+1 81-ds2+1 5 VAT), USD MTD 71.98 50.27 98.76 ES	/dry tonne QTD 71.98 50.27 98.76	1 966.1 45.5 87.3
650	29 2018 Fe Content 62% Fe Fines 58% Fe Fines 65% Fe Fines	اریک ان ۲۹۵۲ ان ۲۹۵۶ ان ۲۹۵۶ ان ۲۹۵۶ ان ۲۹۵۶ ان ۲۹۵۶ ان ۲۹۵۶ ان ۲۹۵۶ ان ۲۹۵۶ ان ۲۹۵۶ ان ۲۹۹۶ ان ۲۹۹۶ از ۲۹۹۶	31 <sup>39</sup> 100 100 100 100 100 100 100 100 100 100	۲.۱۰۰ <sup>۲۹</sup> ۲.۱۰ <sup>۲۹</sup> ۲.۱۰۹ <sup>۲۹</sup> ۲.۱۰۹ ۲.۱۰۹ ۲.۱۰۹ ۲.۱۹۹ ۲.۹۹ ۲.	المعنى المعنى المعنى المعنى المعن <b>ORT STOCK II</b> <b>September</b> 513 385 732	مرابع مرابع مرابع NDEX MC RMB/wet 1 MTD 560 399 758 AR-TO-D/	DNTHLY, Q tonne QTD 560 399 758	95.00	AND YEAR 43.75 79.76 October 26,	81-407-67 81-407-67	5.28 3014-18 50141-18 5.29 5.29 5.20 5.20 5.20 5.20 5.20 5.20 5.20 5.20	SIG2 AGES Vivalen Ist S 29 FR	et (exc. 16% Bi-Bny-Li iO Sid beptember 65.25 45.84 92.13 EIGHT RAT FREIGHT RAT	81-des 4 81-des 4 15 WAT), USD MTD 71.98 50.27 98.76 ES ES - DRY BL	/dry tonne QTD 71.98 50.27 98.76	1 66.1 45.5 87.3
650	29 2018 Fe Content 62% Fe Fines 58% Fe Fines 65% Fe Fines	اریک ان ۲۹۵۲ ان ۲۹۵۶ ان ۲۹۵۶ ان ۲۹۵۶ ان ۲۹۵۶ ان ۲۹۵۶ ان ۲۹۵۶ ان ۲۹۵۶ ان ۲۹۵۶ ان ۲۹۵۶ ان ۲۹۹۶ ان ۲۹۹۶ از ۲۹۹۶	31 <sup>39</sup> 100 100 100 100 100 100 100 100 100 100	PIS8 DN ORE P Qingdao (ii August 505 363 701 7, QUART CFR Qi	۲۰۰۰ ۲۰۰۰ ۲۰۰۰ ۲۰۰۰ ۲۰۰۰ ۲۰۰۰ ۲۰۰۰ ۲۰۰	مرابع مرابع مرابع NDEX MC RMB/wet 1 MTD 560 399 758 AR-TO-D/	DNTHLY, Q tonne QTD 560 399 758	95.00	AND YEAR. 5.87 43.75 79.76	81-407-67 81-407-67	0	SIG2 AGES Vivalen Ist S 29 FR	et (exc. 16% beptember 65.25 45.84 92.13 EIGHT RAT FREIGHT RAT	81-ds2+1 81-ds2+1 5 VAT), USD MTD 71.98 50.27 98.76 ES	/dry tonne QTD 71.98 50.27 98.76	1 66.1 45.5 87.3
650	29 2018 Fe Content 62% Fe Fines 58% Fe Fines 65% Fe Fines ON ORE SEABOR 29 2018	June 471 332 594	الله الله الله الله الله الله الله الله	PIS8 DN ORE P Qingdao (ii August 505 363 701 7, QUART CFR Qi	0RT STOCK II nc. 16% VAT), f September 513 385 732 ERLY AND YE ngdao, USD/dr	NDEX MO RMB/wet to MTD 560 399 758 EAR-TO-DJ	ONTHLY, Q tonne QTD 560 399 758 ATE AVER	95.00	AND YEAR 43.75 79.76 October 26,	81-101/67 81-101/61   TO-DATI CFR Qing   July 64.29   44.14 82.19   2018 Des	5.28 3014-18 50141-18 5.29 5.29 5.20 5.20 5.20 5.20 5.20 5.20 5.20 5.20	SIG2 AGES Vivalen Ist S 29 FR	et (exc. 16% Bi-Bny-Li iO Sid beptember 65.25 45.84 92.13 EIGHT RAT FREIGHT RAT	81-des 4 81-des 4 15 WAT), USD MTD 71.98 50.27 98.76 ES ES - DRY BL	/dry tonne QTD 71.98 50.27 98.76	1 966.1 45.5 87.3

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#### **IRON ORE BRAND SPOT PRICE ASSESMENTS**

October 29 2018	PORT	STOCK INDEX (R	MB/WT)	October 29 2018	SEABO	ORNE INDEX (US	D/DMT)
	Price	Change	Diff to IOPI62		Price	Change	Diff to IOSI62
Roy Hill	572	14	-23	Roy Hill	68.57	-0.88	-7.08
SIMEC Fines	520	17	-75	SIMEC Fines	60.87	-1.58	-14.78
PB Fines	580	10	-15	PB Fines	74.37	-0.08	-1.28
Newman Fines	597	9	2	Newman Fines	76.86	0.31	1.21
MAC Fines	562	14	-33	MAC Fines	70.17	-0.68	-5.48
Jimblebar Blended Fines	527	8	-68	Jimblebar Blended Fines	74.78	-0.13	-0.87
Carajas Fines	762	5	167	Carajas Fines	98.09	-1.31	22.44
Brazilian SSF	598	8	3	Brazilian SSF	77.21	-0.94	1.56
Brazilian Blend Fines	610	9	15	Brazilian Blend Fines	79.96	-0.19	4.31
RTX Fines	502	16	-93	RTX Fines	69.02	-0.63	-6.63
October 29 2018	PORT STOCK INDEX (RMB/WT)						
	Price	Change	Diff to IOPI58				
SSF	360	0	-47				
FMG Blended Fines	413	0	6				
Robe River	375	0	-32				
Western Fines	389	0	-18				
Atlas Fines	367	0	-40				
raustines		0	53				

Port	Stock Index Pro	duct Differentia	als (RMB/we	et tonne)		Seaborne Index Product Differentials (UDS/dry tonne)						
	Applica	able range	Valu	e Cł	nange		A	pplicable rar	ige	Value	Change	
	High Grade Fe	60 - 63%	12.0	0 -	3.00		High Grade Fe 60 - 63%		%	2.50	0.50	
	High Grade Fe	63 - 64%	57.0	0 -	3.00		High Grade Fe 63 - 64%			3.00	-0.50	
1% Fe	High Grade Fe	64 - 65%	57.0	57.00 -3.0		1% Fe	High Grad	de Fe 64 - 65	%	3.00	-0.50	
	High Grade Fe	65 - 65.5%	57.0	0 -	3.00		High Grade Fe 65 - 65.5%			3.00	-0.50	
	Low Grade Fe		20.0	0 (	0.00							
	High Fe Grade	Al <2.25%	44.0	0 -	3.00		High Fe G	irade Al <2.2	5%	9.75	-0.25	
1% Alumina	High Fe Grade	Al 2.25-4%	39.0	0 (	0.00	10/ 11	High Fe G	High Fe Grade Al 2.25-4%		0.00	0.00	
1% Alumina	Low Fe Grade	Al <2.25%	85.0	0 (	0.00	1% Alumina						
	Low Fe Grade	Al 2.25-4%	13.0	0 (	0.00							
	High Fe Grade	Si <4%	7.00	D 2	2.00		High Fe Grade Si <4%			2.75	-0.25	
1% Silica	High Fe Grade	Si 4-6.5%	26.0	0 (	0.00	1% Silica	High Fe Grade Si 4 - 6.5%			4.25	0.25	
	Low Fe Grade		6.00	D (	0.00							
0.01%	High Fe Grade	0.09% <p<0.115< td=""><td>% 4.00</td><td>D</td><td>2.00</td><td colspan="3">High Fe Grade 0.09%</td><td>P&lt;0.115%</td><th>0.00</th><td>0.00</td><td></td></p<0.115<>	% 4.00	D	2.00	High Fe Grade 0.09%			P<0.115%	0.00	0.00	
Phosphorus	High Fe Grade	0.115% <p<0.15< td=""><td>% 14.0</td><td>0 -</td><td>-3.00</td><td>0.01%</td><td>High Fe G</td><td colspan="2">High Fe Grade 0.115%<p<0.15%< td=""><th>1.00</th><td>0.00</td><td></td></p<0.15%<></td></p<0.15<>	% 14.0	0 -	-3.00	0.01%	High Fe G	High Fe Grade 0.115% <p<0.15%< td=""><th>1.00</th><td>0.00</td><td></td></p<0.15%<>		1.00	0.00	
Phosphorus	Low Fe Grade (	0.09 <p<0.1%< td=""><td>2.00</td><td>D -</td><td>2.00</td><td>Phosphorus</td><td></td><td colspan="3"></td><td></td><td></td></p<0.1%<>	2.00	D -	2.00	Phosphorus						
			Po	rt Stock Differ	entials to Qi	ingdao Port (RMB/w	et tonne)					
Port	Value	Change	Port	Value	Change	e Port	Value	Change	Port	Value	Change	
Bayuquan	-40.00	<b>0.00</b> F	angcheng	-5.00	0.00	Lanshan	0.00	0.00	Qingdao	0.00	0.00	
Beilun	5.00	<b>0.00</b> J	iangyin	-30.00	0.00	Lianyungang	0.00	0.00	Rizhao	0.00	0.00	
Caofeidian	-15.00	<b>0.00</b> J	ingtang	-15.00	0.00	Majishan	0.00	0.00	Shekou	0.00	0.00	

-20.00

0.00

Lanqiao

Dalian

Nantong

-30.00

0.00

0.00

### October 29, 2018

-30.00

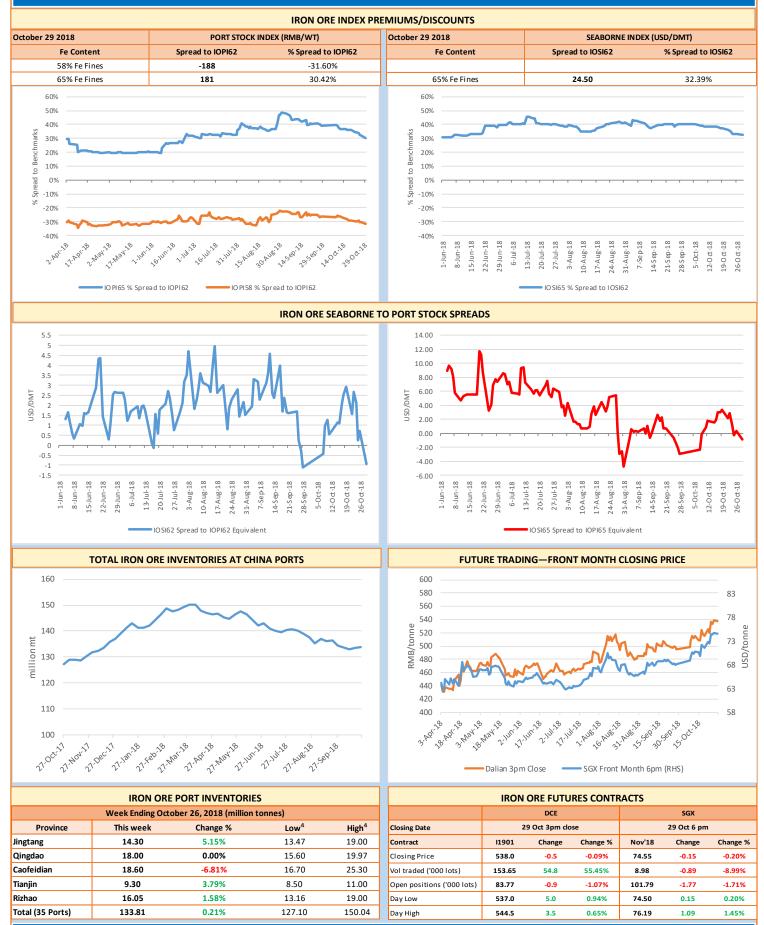
Tianjin

0.00

0.00



October 29, 2018

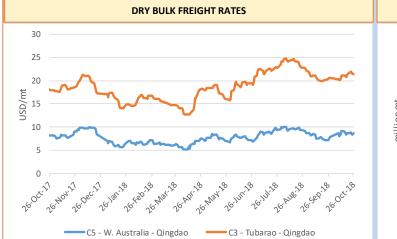


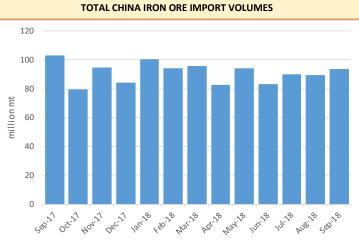
www.mmiprices.com

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Steel Spot Market Prices - China

Steel Spot Market RMB/tonne			
Product	26/10/2018	Change	Change %
ReBar HRB400	4,707.0	83	1.79%
Wirerod Q300 ¢6.5mm	4,930.0	59	1.21%
HRC Q235/SS400 5.5mm*1500*C	4,205.0	2	0.05%
CRC SPCC/ST12 1.0mm*1250*2500	4,800.0	-26	-0.54%
Medium & Heavy Plate Q235B 20mm	4,356.0	-34	-0.77%
GI ST02Z 1.0mm*1000*C	5,150.0	-10	-0.19%
Billet Q235 150*150mm	4,000.0	80	2.04%

#### **Rebar and HRC spot prices**



#### CHINESE STEEL INVENTORIES

China Export Prices US	D/tonne				
Product	Specification	Export tax (+)/Vate rebate (-)		Change	Pr
			26/10/2018		-
Rebar	BS4449 460B 12-25mm, + chrome	-13%	560	-10	Re
Wire Rod	SAE1008 6.5-10mm +chrome	-9%	580	0	W
Hot-rolled coil	SS400/Q235 4.0-10.mm	-9%	560	-5	Н
Cold-rolled coil	SPCC 1.0mm	-13%	600	-5	M
Medium & Heavy plate	A-level Shipe plate 12-25mm	0%	610	0	C
Galvanised	ST02Z/SGCC 1.0mm	-13%	665	-5	т.

CHINESE STEEL EXPORT PRICES

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 fb/(1f6-0.1g); Calculation formula for converting export prices of wire rod and hot-rolled steel into prices in hina's spot market =  $FOB^*$  exchange rate '1 fb/(1f6-0.0g); Calculation formula for converting export prices of medium-thick plate into prices in hina's spot market =  $FOB^*$  exchange rate '1 fb/(1f6-0.0g); Calculation formula for converting export prices of medium-thick plate into prices in China's spot market =  $FOB^*$  exchange rate

	Steer inventories (unit.	TOOD LOTTINES,	)	
Product	26/10/2018	19/10/2018	Change	Change %
Rebar	3,789	4,124	-335	-8.12%
Wirerod	1,216	1,355	-139	-10.26%
Hot-rolled Coil	2,454	2,445	9	0.37%
Medium & Thick Plate	1,152	1,161	-9	-0.78%
Cold-rolled Coil	1,220	1,230	-10	-0.81%
Total	9,831	10,315	-484	-4.69%
	Rebar Wirerod Hot-rolled Coil Medium & Thick Plate Cold-rolled Coil	Product 26/10/2018   Rebar 3,789   Wirerod 1,216   Hot-rolled Coil 2,454   Medium & Thick Plate 1,152   Cold-rolled Coil 1,220	Product 26/10/2018 19/10/2018   Rebar 3,789 4,124   Wirerod 1,216 1,355   Hot-rolled Coil 2,454 2,445   Medium & Thick Plate 1,152 1,161   Cold-rolled Coil 1,220 1,230	Rebar 3,789 4,124 -335   Wirerod 1,216 1,355 -139   Hot-rolled Coil 2,454 2,445 9   Medium & Thick Plate 1,152 1,161 -9   Cold-rolled Coil 1,220 1,230 -10

<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

v			t-rolled Coil (RMB/tonne)
Category	Price	Change (WoW)	Note
MMi (Fe 62%), USD/mt exluding tax	74.95	-0.25	Mmi CFR Equivalent index for 12th October
Coke	2,510	0	2nd grade met coke, Tangshan, incl. tax
Steel Scrap	2,430	20	steel scrap (6mm) in Zhangjiagang, exl. tax
Billet Cost	3,192	5	Q234, incl. tax
Rebar cost - Blast furnace	3,460	5	calculated based on theoretical weight, incl. tax
Rebar profit - Blast furnace	1,090	5	based on Shanghai prices, incl. tax
Hot-rolled coil cost - Blast furnace	3,517	5	based on actual w eight, incl. tax
Hot-rolled coil proft - Blast furnace	663	-5	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 Index Specificat	ions (Port and Seabo	orne)	Iron Ore Index Compilation Rationale and Data Exclusions								
	65% Fe Fines	62% Fe Fines	58% Fe Fines	MMi iron ore indices are compiled from data provided by companies that are part of the iron ore supply chain								
Fe %	65.00	62.00	58.00	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									
Silica%	1.50	4.00	5.50									
Phosphorus %	0.06	0.09	0.05	For more details on MMi's iron ore methodology please download the guide published on our website at: www.mmiprices.com								
Sulphur %	0.01	0.02	0.02	* Number of price submissi	ons for iron ore indices that w	vere excluded from index cal	culations today as they					
Moisture %	8.00	8.00	9.00	were anomalous and could			,,					
Sizing		elow 10mm for at lea um of 40% below 150		Data Exclusions*								
				-	62%	58%	65%					
Pricing Point	Qingdao P	ort (FOT and CFR res	spectively)	Port Index	1	0	0					
Timing (Seaborne)	Loading withi	n 4 weeks, Delivery v	vithin 8 weeks	FOILINGER	1	U	U					
Payment Terms		L/C at sight		Seaborne index	0	0	0					
	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.

		AVE	RAGE IRON	ORE SPECIF	PPLIED FOR BRAND PRICE	SSESSMEN	тs					
	PORT	STOCK BRA	NDS			SEABORNE BRANDS						
October 29 2018	SPECIFICA	TIONS APPL	IED FOR 62%	BRAND AS	SESSMENTS		SPECIFICA	SPECIFICATIONS APPLIED FOR 62% BRAND ASSESSI				
	Fe	Alumina	Silica	Phos	Moisture		Fe	Alumina	Silica	Phos	Moisture	
Roy Hill	61.00%	2.20%	4.50%	0.055%	8.00%	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	61.73%	2.29%	3.52%	0.100%	9.41%	PB Fines 62%	62.00%	2.60%	4.30%	0.090%	10.00%	
Newman Fines	62.53%	2.30%	4.17%	0.070%	7.64%	Newman Fines	62.80%	2.20%	4.30%	0.080%	6.40%	
MAC Fines	61.00%	2.21%	4.87%	0.090%	7.99%	MAC Fines	61.00%	2.70%	4.70%	0.110%	9.30%	
Jimblebar Blended Fines	61.32%	2.80%	4.43%	0.110%	6.83%	Jimblebar Blended Fines	61.79%	2.67%	4.08%	0.115%	7.16%	
Carajas Fines	64.79%	1.34%	1.87%	0.070%	8.32%	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	62.57%	1.58%	4.76%	0.060%	8.47%	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%	
October 29 2018	SPECIFICA	TIONS APPL	IED FOR 58%	BRAND AS	SESSMENTS							
	Fe	Alumina	Silica	Phos	Moisture							
SSF	56.47%	3.03%	6.33%	0.050%	9.29%							
FMG Blended Fines	58.36%	2.79%	5.90%	0.070%	7.13%							
Robe River	56.74%	3.14%	5.05%	0.030%	8.58%							
Western Fines	57.72%	2.86%	7.37%	0.060%	7.41%							
Atlas Fines	56.59%	2.55%	7.14%	0.080%	8.46%							
Yandi	57.12%	1.35%	6.33%	0.040%	9.11%							
					BLOOMBE	RG TICKERS						
	POI	RT STOCK INDICE	S									
	(RMB/wet tonn	e)	CFR Qingdao	Equivalent (USD/	/dry tonne)							
	CNQ001			IRCNQ004								
IOPI58 IRC	IRCNQ002 IRCNQ005											

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