

# November 30, 2018

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						IRON ORE	PORT S	TOCK INDEX	(IOPI)						
Vovember	er 30, 2018		FOT Q	ingdao (inc	. 16% VAT),	RMB/wet to	nne		C	FR Qingda	o Equi	valent (exc. 16%	6 VAT), USD/0	dry tonne	1
Index	Fe Content	Price C		• •	November		Low <sup>2</sup>	High <sup>2</sup>	Price	Change	· ·	e % Novembe		, Low <sup>2</sup>	High <sup>2</sup>
OPI62	62% Fe Fines	535	-11	-2.0%	583	505	443	603	68.50	-1.49	-2.1		67.26	61.36	77.89
OPI58	58% Fe Fines	376	1	0.3%	407	358	304	419	47.02	0.14	0.3		46.31	40.67	52.71
OPI65	65% Fe Fines	683	-11	-1.6%	742	657	541	784	88.49	-1.49	-1.7	<b>%</b> 96.52	88.51	75.83	101.71
	<u> </u>	IRON	ORE SEA		IDEX (IOSI)						M	ARKET COMM	ENTARY		
November	Iovember 30, 2018 CFR Qingdao, USD/dry tonne Limited arrivals lowered iron ore stocks across 35 Chinese ports by 2.88 million mt on a weekly basis 129.26 million mt as of November 30, SMM statistics showed. Arrivals across ports in east and north										ekly basis to				
ndex	Fe Content	Price C	Change		November	·	Low <sup>3</sup>	High <sup>3</sup>				SMM statistics show liveries from these p			
OSI62	62% Fe Fines		0.55	0.8%	72.91	68.83	62.95	86.20	2.54 million mt l	ast week as a	a slump ir	iron ore prices disc	ouraged buyers. S	ome steel mill	s in Tangsha
OSI62	65% Fe Fines		-0.35	-0.4%	94.05	94.15	83.20	101.50				also accounted for th of limited arrivals.	e decline. Port sto	ocks are unlike	ely to grow
03105	05% FE FILles	83.50	-0.55	-0.4%	94.05				(						
Neek Endi	IRON ORE PORT LUMP INDEX (IOPLI) Veek Ending November 30 FOT Qingdao (inc. 16% VAT), RMB/wet tonne CFR Qingdao Equivalent (exc. 16% VAT), USD/dry tonne 1														
	-											· · ·		-	
ndex	Fe Content		V-o-W	Change %	MTD	YTD <sup>3</sup>	Low <sup>3</sup>	High <sup>3</sup>	Price	W-oW	Chang		YTD <sup>3</sup>	Low <sup>3</sup>	High <sup>3</sup>
OPLI62	62.5% Fe Lump	769	-11	-1.4%	771	646	565	789	95.94	-1.50	-1.5		83.19	76.63	98.50
			IRON	ORE DO	MESTIC CO			PRICE ASSESS	SMENTS AN	D COMP(	DSITE I				
	ling November 2	-						iding tax) <sup>4</sup>					(excluding ta		
Province	Region	Product			This week	Change %	6	Low <sup>2</sup>	High <sup>2</sup>	-	week	Change %	Low		High <sup>2</sup>
lebei	Hanxing	66% Fe Cond		Dry	713	-0.4%		579	718	_	2.84	-0.2%	83.5		103.56
lebei	Qian'an	65% Fe Cond		Dry	805	-1.2%		630	815		6.10	-1.1%	90.8		117.55
iaoning	Anshan	65% Fe Cond		Wet	555	-1.8%		445	565	_	0.05	-1.6%	64.13		81.49
Shandong	Zibo	65% Fe Cond	centrate	Dry .	815 This week	0.0% Change %	/	620	815 High <sup>5</sup>		7.55	0.2%	89.4		117.55
	es Concentrate		ex RMB/		672.30	-0.6%	0	534.50	676.26			lied: RMB/USD = 6.935 rate applied: RMB/USE			
		RE PORT IND						55 1150		SEARO		DEX, CFR QIN			
			2,101	QINODA		•,			interiorition.	JEADOI		DEA, CITA QUA	3DAO (03D)	Dinit,	
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5 50		$\sim$					<b>٦</b>	75 —						~~~	5
450 🖊	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		~~~	~~~~	~			65	~	~		~			
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		IO PI 62		PI 58	IO PI 65					_	10	SI62 - IOS	165		301
	•	IO PI 62					ITHLY, C	QUARTERLY	AND YEAR-T	O-DATE			165		301
November	r 30, 2018	IO PI 62	IRO	N ORE PC	RT STOCK	INDEX MON RMB/wet to					AVERA			Iry tonne	
	r 30, 2018 Fe Content		IRO FOT C	N ORE PC	RT STOCK	RMB/wet to		QUARTERLY		FR Qingd	AVER/ ao Equi	AGES	6 VAT), USD/c	lry tonne <sup>1</sup> QTD	
Index IOPI62	Fe Content           62% Fe Fines	July A 482	IRO FOT C August S 505	N ORE PC Qingdao (in Geptember 513	RT STOCK a. 16% VAT), October 564	RMB/wet to November 583	onne QTD 575	<b>YTD<sup>2</sup></b> 505	<b>July</b> 64.29	FR Qingd August 63.41	AVER/ ao Equi Septen 65.2	AGES valent (exc. 169 nber October 15 72.55	6 VAT), USD/c November 75.00	<b>QTD</b> 73.90	YTD <sup>2</sup> 67.26
Index IOPI62 IOPI58	Fe Content62% Fe Fines58% Fe Fines	July A 482 349	IRO FOT C August S 505 363	N ORE PC lingdao (in September 513 385	<b>RT STOCK</b> <b>. 16% VAT),</b> <b>October</b> 564 401	RMB/wet to November 583 407	<b>QTD</b> 575 404	<b>YTD<sup>2</sup></b> 505 358	<b>July</b> 64.29 44.14	<b>FR Qingd</b> August 63.41 44.86	AVERA ao Equi Septen 65.2 45.8	AGES valent (exc. 169 nber October 15 72.55 14 50.47	6 VAT), USD/c November 75.00 51.21	<b>QTD</b> 73.90 50.88	<b>YTD<sup>2</sup></b> 67.26 46.31
Index IOPI62 IOPI58 IOPI65	Fe Content62% Fe Fines58% Fe Fines65% Fe Fines	<b>July A</b> 482 349 638	IRO FOT C August S 505 363 701	in ORE PC lingdao (in september 513 385 732	RT STOCK . 16% VAT), October 564 401 760	RMB/wet to November 583 407 742	<b>QTD</b> 575 404 750	<b>YTD<sup>2</sup></b> 505 358 657	<b>July</b> 64.29	FR Qingd August 63.41	AVER/ ao Equi Septen 65.2	AGES valent (exc. 169 nber October 5 72.55 4 50.47 3 99.05	6 VAT), USD/o November 75.00 51.21 96.52	<b>QTD</b> 73.90	<b>YTD<sup>2</sup></b> 67.26 46.31
ndex OPI62 OPI58 OPI65 IROI	Fe Content62% Fe Fines58% Fe Fines65% Fe FinesORE SEABOR	<b>July A</b> 482 349 638	IRO FOT C August S 505 363 701	N ORE PC Lingdao (in September 513 385 732 , QUARTE	RT STOCK . 16% VAT), October 564 401 760 RLY AND Y	RMB/wet to November 583 407 742 EAR-TO-DA	<b>QTD</b> 575 404 750	<b>YTD<sup>2</sup></b> 505 358 657	C July 64.29 44.14 82.19	<b>FR Qingd</b> <b>August</b> 63.41 44.86 85.29	AVERA ao Equi Septen 65.2 45.8	AGES valent (exc. 169 nber October 5 72.55 4 50.47 3 99.05 FREIGHT RA	6 VAT), USD/c November 75.00 51.21 96.52 TES	<b>QTD</b> 73.90 50.88 97.66	<b>YTD<sup>2</sup></b> 67.26 46.31 88.51
ndex OPI62 OPI58 OPI65 IROI November	Fe Content           62% Fe Fines           58% Fe Fines           65% Fe Fines           NORE SEABOF           30, 2018	July A 482 349 638 RNE INDEX M	IRO FOT O August S 505 363 701 ONTHLY	N ORE PC lingdao (in september 513 385 732 , QUARTE CFR Qin	RT STOCK 2. 16% VAT), October 564 401 760 RLY AND Y gdao, USD/d	RMB/wet to November 583 407 742 EAR-TO-DA <sup>T</sup> Iry tonne	nne QTD 575 404 750 TE AVEI	YTD <sup>2</sup> 505 358 657 RAGES	July           64.29           44.14           82.19           November 29 2	August       63.41       44.86       85.29       018	AVERA ao Equi Septen 65.2 45.8 92.1	AGES valent (exc. 169 nber October 5 72.55 4 50.47 3 99.05 FREIGHT RA FREIGHT RA	6 VAT), USD/c November 75.00 51.21 96.52 TES TES	QTD 73.90 50.88 97.66	YTD <sup>2</sup> 67.26 46.31 88.51
ndex OPI62 OPI58 OPI65 IROI November ndex	Fe Content           62% Fe Fines           58% Fe Fines           65% Fe Fines           NORE SEABOR           at 30, 2018           Fe Content	July A 482 349 638 RNE INDEX M July A	IRO FOT C August S 505 363 701 ONTHLY	N ORE PC lingdao (in september 513 385 732 7 QUARTE CFR Qin September	RT STOCK 2. 16% VAT), October 564 401 760 RLY AND Y gdao, USD/d October	RMB/wet to November 583 407 742 EAR-TO-DAT Iny tonne November	nne QTD 575 404 750 TE AVEI	YTD <sup>2</sup> 505 358 657 RAGES YTD <sup>3</sup>	July           64.29           44.14           82.19           November 29 2           Route	August       63.41       44.86       85.29       018       Desig	AVERA ao Equi Septen 65.2 45.8 92.1	AGES valent (exc. 169 nber October 5 72.55 4 50.47 3 99.05 FREIGHT RA FREIGHT RA FREIGHT RA	6 VAT), USD/c November 75.00 51.21 96.52 TES TES - DRY BULL Change %	QTD 73.90 50.88 97.66 K US\$/wet 1 Low <sup>5</sup>	• • • • • • • • • • • • • •
ndex OPI62 OPI58 OPI65 IROI November Index	Fe Content           62% Fe Fines           58% Fe Fines           65% Fe Fines           NORE SEABOF           30, 2018           Fe Content           62% Fe Fines	July A 482 349 638 RNE INDEX M July A 65.09	IRO FOT C August S 505 363 701 ONTHLY August S 67.89	N ORE PC lingdao (in september 513 385 732 , QUARTE CFR Qin September 68.79	RT STOCK 2. 16% VAT), October 564 401 760 RLY AND Y gdao, USD/d October 72.31	RMB/wet to November 583 407 742 EAR-TO-DA Iry tonne November 72.91	nne QTD 575 404 750 TE AVEI QTD 72.59	YTD <sup>2</sup> 505 358 657 RAGES YTD <sup>3</sup> 68.83	July           64.29           44.14           82.19           November 29 2           Route           W. Australia - Qin	FR Qingd:           August           63.41           44.8           85.29           018           gdaoo           gdaoo	AVERA ao Equi Septen 65.2 45.8 92.1 nation	AGES valent (exc. 169 nber October 5 72.55 4 50.47 3 99.05 FREIGHT RA FREIGHT RA Change 8.02 -0.61	6 VAT), USD/c November 75.00 51.21 96.52 TES TES - DRY BULI Change % -7.11%	QTD 73.90 50.88 97.66 K US\$/wet 1 Low <sup>5</sup> 5.109	• • YTD <sup>2</sup> • 67.26 • 46.31 • 88.51 • 88.51 • 88.51 • 0000 • 0000
ndex OPI62 OPI58 OPI65 IROI November Index	Fe Content           62% Fe Fines           58% Fe Fines           65% Fe Fines           NORE SEABOR           at 30, 2018           Fe Content	July A 482 349 638 RNE INDEX M July A 65.09	IRO FOT C August S 505 363 701 ONTHLY	N ORE PC lingdao (in september 513 385 732 7 QUARTE CFR Qin September	RT STOCK 2. 16% VAT), October 564 401 760 RLY AND Y gdao, USD/d October	RMB/wet to November 583 407 742 EAR-TO-DAT Iny tonne November	nne QTD 575 404 750 TE AVEI	YTD <sup>2</sup> 505 358 657 RAGES YTD <sup>3</sup> 68.83	July           64.29           44.14           82.19           November 29 2           Route	FR Qingd:           August           63.41           44.8           85.29           018           gdaoo           gdaoo	AVERA ao Equi Septen 65.2 45.8 92.1 nation	AGES valent (exc. 169 nber October 5 72.55 4 50.47 3 99.05 FREIGHT RA FREIGHT RA FREIGHT RA	6 VAT), USD/c November 75.00 51.21 96.52 TES TES - DRY BULL Change %	QTD 73.90 50.88 97.66 K US\$/wet 1 Low <sup>5</sup>	• • • • • • • • • • • • • •
ndex OPI62 OPI58 OPI65 IROI November ndex OSI62	Fe Content           62% Fe Fines           58% Fe Fines           65% Fe Fines           NORE SEABOF           30, 2018           Fe Content           62% Fe Fines	July A 482 349 638 RNE INDEX M July A 65.09	IRO FOT C August S 505 363 701 ONTHLY August S 67.89 94.04	N ORE PC lingdao (in september 513 385 732 732 732 732 732 732 732 732 732 732	RT STOCK . 16% VAT), October 564 401 760 RLY AND Y gdao, USD/d October 72.31 98.97	RMB/wet to November 583 407 742 EAR-TO-DA <sup>T</sup> Iry tonne November 72.91 94.05	nne QTD 575 404 750 TE AVEI QTD 72.59 96.62	YTD <sup>2</sup> 505 358 657 RAGES YTD <sup>3</sup> 68.83	July 64.29 44.14 82.19 November 29 2 Route W. Australia - Qin Tubarao - Qingda	FR Qire       August       63.41       44.8       85.2       018       gdao       000       gdao       0       0	AVER/ ao Equi Septen 65.2 45.8 92.1 nation 55.2	AGES valent (exc. 169 ber October 5 72.55 4 50.47 3 99.05 FREIGHT RA FREIGHT RA Change 8.02 -0.61 17.45 -0.42	6 VAT), USD/c November 75.00 51.21 96.52 TES TES - DRY BULI Change % -7.11%	QTD 73.90 50.88 97.66 K US\$/wet 1 Low <sup>5</sup> 5.109	• • YTD <sup>2</sup> • 67.26 • 46.31 • 88.51 • 88.51 • 88.51 • 0000 • 0000
ndex OPI62 OPI58 OPI65 IROI November ndex OSI62 OSI65	Fe Content           62% Fe Fines           58% Fe Fines           65% Fe Fines           NORE SEABOF           30, 2018           Fe Content           62% Fe Fines	July A 482 349 638 RNE INDEX M July A 65.09	IRO FOT C August S 505 363 701 ONTHLY August S 67.89 94.04	N ORE PC lingdao (in september 513 385 732 , QUARTE CFR Qin September 68.79 96.48	RT STOCK 2. 16% VAT), October 564 401 760 RLY AND Y gdao, USD/d October 72.31 98.97 DRT LUMP P	RMB/wet to November 583 407 742 EAR-TO-DA <sup>T</sup> Iry tonne November 72.91 94.05	nne QTD 575 404 750 TE AVEI 72.59 96.62	YTD <sup>2</sup> 505 358 657 RAGES YTD <sup>3</sup> 68.83 94.15	July 64.29 44.14 82.19 November 29 2 Route W. Australia - Qin Tubarao - Qingda	FR Qingdi       August       63.41       44.86       85.29       018       gdao       0.0       0.0	AVERA ao Equi Septen 65.2 45.8 92.1 anation 55 3	AGES valent (exc. 169 ber October 5 72.55 4 50.47 3 99.05 FREIGHT RA FREIGHT RA Change 8.02 -0.61 17.45 -0.42	6 VAT), USD/c November 75.00 51.21 96.52 TES TES - DRY BULL Change % -7.11% -2.35%	QTD 73.90 50.88 97.66 K US\$/wet f Low <sup>5</sup> 5.109 12.705	• • • • • • • • • • • • • •
Index IOPI62 IOPI58 IOPI65 IROI November Index IOSI62 IOSI65	Fe Content         62% Fe Fines         58% Fe Fines         65% Fe Fines         NORE SEABOR         at 200 arrow         at 200 arrow         bt 200 arrow         <	July A 482 349 638 RNE INDEX M July A 65.09 91.90	IRO FOT C 309 363 701 0NTHLY 67.89 94.04 IRC FOT C	N ORE PC lingdao (in september 513 385 732 , QUARTE CFR Qin September 68.79 96.48 DN ORE PC	RT STOCK 2. 16% VAT), October 564 401 760 RLY AND Y gdao, USD/d October 72.31 98.97 DRT LUMP I c. 16% VAT),	RMB/wet to November 583 407 742 EAR-TO-DAT ry tonne November 72.91 94.05	nne QTD 575 404 750 TE AVEI 72.59 96.62	YTD <sup>2</sup> 505 358 657 RAGES YTD <sup>3</sup> 68.83 94.15	July 64.29 44.14 82.19 November 29 2 Route W. Australia - Qin Tubarao - Qingda	FR Qingu       August       63.41       44.86       85.29       018       gdao       0.000       0.000       0.000       Goldant       0.000       FR Qinguto	AVERA ao Equi 5Septer 45.8 92.1 55.3 33 0 AVERA	AGES valent (exc. 169 nber October 5 72.55 4 50.47 3 99.05 FREIGHT RA FREIGHT RA 6.02 Change 8.02 -0.61 17.45 -0.42	6 VAT), USD/c November 75.00 51.21 96.52 TES TES - DRY BUL Change % -7.11% -2.35%	QTD 73.90 50.88 97.66 K US\$/wet f Low <sup>5</sup> 5.109 12.705	• • • • • • • • • • • • • •

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

November 30, 2018	PORT	STOCK INDEX (F	RMB/WT)	November 30, 2018	SEABC	BORNE INDEX (USD/DMT)	
	Price	Change	Diff to IOPI62		Price	Change	Diff to IOSI62
Roy Hill	497	-11	-38	Roy Hill	58.47	0.55	-7.28
SIMEC Fines	427	-11	-108	SIMEC Fines	51.82	0.55	-13.93
PB Fines	515	-10	-20	PB Fines	64.67	0.55	-1.08
Newman Fines	520	-11	-15	Newman Fines	67.95	0.55	2.20
MAC Fines	497	-11	-38	MAC Fines	59.42	0.55	-6.33
Jimblebar Blended Fines	454	-11	-81	Jimblebar Blended Fines	50.20	0.55	-15.55
Carajas Fines	667	-11	132	Carajas Fines	83.07	0.55	17.32
Brazilian SSF	489	-11	-46	Brazilian SSF	65.75	0.55	0.00
Brazilian Blend Fines	536	-11	1	Brazilian Blend Fines	69.00	0.55	3.25
RTX Fines	414	-11	-121	RTX Fines	54.20	0.55	-11.55
November 30, 2018	PORT STOCK INDEX (RMB/WT)				·		
	Price	Change	Diff to IOPI58				
SSF	319	2	-57				
FMG Blended Fines	372	0	-4				
Robe River	357	1	-19				
Western Fines	346	1	-30				
Atlas Fines	332	1	-44				
Yandi	420	-2	44				
		IRON	ORE INDEX NORM	LISATION DIFFERENTIALS			

Port	Stock Index Pro	duct Differenti	als (RMB/we	et tonne)		Seal	borne Inde	x Product D	ifferentials (	(UDS/dry tonr	ne)
	Applica	able range	Valu	ie (	Change		A	pplicable rai	nge	Value	Change
	High Grade Fe	60 - 63%	13.0	00	0.00		High Gra	de Fe 60 - 63	%	3.50	0.00
	High Grade Fe	63 - 64%	48.0	00	0.00		High Gra	High Grade Fe 63 - 64%		2.25	0.00
1% Fe	High Grade Fe	64 - 65%	48.0	00	0.00	1% Fe	High Gra	de Fe 64 - 65	%	2.25	0.00
	High Grade Fe	65 - 65.5%	48.0	00	0.00		High Gra	de Fe 65 - 65	.5%	2.25	0.00
	Low Grade Fe		18.0	00	0.00						
	High Fe Grade	Al <2.25%	31.0	00	0.00		High Fe G	irade Al <2.2	5%	6.00	0.00
1% Alumina	High Fe Grade	Al 2.25-4%	74.0	00	0.00	1% Alumina	High Fe G	irade Al 2.25	-4%	Value         O           3.50	0.00
1% Alumina	Low Fe Grade	Al <2.25%	77.0	00	0.00	1% Alumina					
	Low Fe Grade	Al 2.25-4%	31.0	00	0.00						
	High Fe Grade	Si <4%	5.0	0	0.00		High Fe Grade Si <4%		2.00	0.00	
1% Silica	High Fe Grade	Si 4-6.5%	38.0	00	0.00	1% Silica	High Fe G	irade Si 4 - 6	.5%	3.50	0.00
	Low Fe Grade		7.0	0	0.00						
0.01%	High Fe Grade	0.09% <p<0.115< td=""><td>% 4.0</td><td>0</td><td>0.00</td><td>0.01%</td><td colspan="2">High Fe Grade 0.09%<p<0.115%< td=""><td><p<0.115%< td=""><td>0.25</td><td>0.00</td></p<0.115%<></td></p<0.115%<></td></p<0.115<>	% 4.0	0	0.00	0.01%	High Fe Grade 0.09% <p<0.115%< td=""><td><p<0.115%< td=""><td>0.25</td><td>0.00</td></p<0.115%<></td></p<0.115%<>		<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>% 9.0</td><td>0</td><td>0.00</td><td></td><td>High Fe G</td><td>irade 0.115%</td><td>6<p<0.15%< td=""><td>6.00 0.50 2.00 3.00 0.25</td><td>0.00</td></p<0.15%<></td></p<0.15<>	% 9.0	0	0.00		High Fe G	irade 0.115%	6 <p<0.15%< td=""><td>6.00 0.50 2.00 3.00 0.25</td><td>0.00</td></p<0.15%<>	6.00 0.50 2.00 3.00 0.25	0.00
Filospiloius	Low Fe Grade (	0.09 <p<0.1%< td=""><td>4.0</td><td>0</td><td>0.00</td><td>Phosphorus</td><td></td><td></td><td></td><td></td><td></td></p<0.1%<>	4.0	0	0.00	Phosphorus					
			Pc	ort Stock Diffe	erentials to	Qingdao Port (RMB/w	et tonne)				
Port	Value	Change	Port	Value	Chang	ge Port	Value	Change	Port	Value	Change
Bayuquan	-40.00	0.00	angcheng	-5.00	0.00	Lanshan	0.00	0.00	Qingdao	0.00	0.00
Beilun	5.00	<b>0.00</b>	iangyin	-15.00	0.00	Lianyungang	0.00	0.00	Rizhao	0.00	0.00
Caofeidian	-5.00	<b>0.00</b>	ingtang	-5.00	0.00	Majishan	0.00	0.00	Shekou	0.00	0.00
Dalian	-40.00	<b>0.00</b> I	anqiao	0.00	0.00	Nantong	-15.00	0.00	Tianjin	-15.00	0.00

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#### **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	<b>-9.84%</b>
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%

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



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#### **CHINESE STEEL INVENTORIES**

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

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\*116/(116-0.13); Calculation formula for converting export prices of wire rod and hot-rolled steel into prices in hina's spot market = FOB\* exchange rate \*1/b/(1/6-0.09); Calculation formula for converting export prices of medium-thick plate into prices in China's spot market = FOB\* exchange rate

Steel Inventories<sup>3</sup> (unit: 1000 tonnes) 23/11/2018 16/11/2018 Product Change Change % Rebar 3,108 3,207 -99 -3.09% Wirerod 1,031 -27 -2.55% 1,058 Hot-rolled Coil 2,156 2,208 -52 -2.36% Medium & Thick Plate 1,096 1,111 -15 -1.35% Cold-rolled Coil -2 1,148 1,150 -0.17% Total 8,539 8,734 -195 -2.23%

<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

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

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# November 30, 2018

		IRON ORE INDEX S	PECIFICATIONS, CON	IPILATION RATIONALE AND DAT		S				
	Iron Ore	Index Specifications	(Port and Seaborne	)	Iron Ore Ind	ex Compilation	Rational and Da	ta 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 a					
Fe %	65.00	62.00	58.00	62.50	-		olved in spot market saction-level data su			
Alumina %	1.40	2.25	2.25	1.50	indices are calculated using detailed transaction-level data submitted to MMi b 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.					
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 published on our website at: www.mmiprices.com					
Sulphur %	0.01	0.02	0.02	0.02						
Moisture %	8.00	8.00	9.00	4.00						
	Granular size be	elow 10mm for at lea	st 90% of cargo:	Size below 6.3mm max 15%		Data Exe 62%	clusions*	65%		
Sizing		im of 40% below 150		Size above 31.15mm max 25%	Port Index	0	0	0		
Pricing Point	Oingdao P	Port (FOT and CFR res	spectively)	FOT Qingdao Port	Seaborne index	0		0		
Timing (Seaborne)	5	n 4 weeks, Delivery v	,	Delivery within 2 weeks	Lump Index 62.5	0	pre indices that were	oveluded from		
		, ,					iomalous and could r			
Payment Terms		L/C at sight		L/C at sight or CAD						
		IRON ORE DO	MESTIC CONCENTRA	ATE INDEX CALCULATION METHO	DOLOGY					

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	ICATIONS AI	PPLIED FOR BRAND PRICE A	SSESSMEN	TS				
PORT STOCK BRANDS						SEABORNE BRANDS						
November 30, 2018	SPECIFICA	TIONS APPL	IED FOR 62%	BRAND AS	SESSMENTS		SPECIFICA	CIFICATIONS APPLIED FOR 62% BRAND ASSESS				
	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	61.60%	2.33%	3.56%	0.100%	9.36%	PB Fines 62%	62.00%	2.60%	4.30%	0.090%	10.00%	
Newman Fines	62.29%	2.46%	4.09%	0.090%	7.98%	Newman Fines	62.80%	2.20%	4.30%	0.080%	6.40%	
MAC Fines	60.70%	2.28%	4.56%	0.090%	7.49%	MAC Fines	61.00%	2.70%	4.70%	0.110%	9.30%	
Jimblebar Blended Fine	s 61.40%	2.88%	4.16%	0.110%	6.79%	Jimblebar Blended Fines	61.79%	2.67%	4.08%	0.115%	7.16%	
Carajas Fines	64.80%	1.21%	2.32%	0.110%	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	62.96%	1.44%	4.88%	0.050%	8.56%	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 30, 2018	SPECIFICA	TIONS APPL	IED FOR 58%	BRAND AS	SESSMENTS							
	Fe	Alumina	Silica	Phos	Moisture							
SSF	56.52%	3.03%	6.17%	0.050%	9.44%							
FMG Blended Fines	58.27%	2.71%	5.61%	0.060%	7.35%							
Robe River	56.63%	2.88%	1.85%	0.040%	9.09%							
Western Fines	57.57%	2.82%	6.96%	0.060%	7.45%							
Atlas Fines	56.59%	2.55%	7.14%	0.080%	8.46%							
Yandi	57.09%	1.38%	6.34%	0.030%	9.21%							
					BLOOMBE	RG TICKERS						
	PO	RT STOCK INDICE	ES									
IOPI62	<mark>dao (RMB/wet tonr</mark> IRCNQ001	ie)	CFR Qingdao I	Equivalent (USD/ IRCNQ004	dry tonne)							
IOP162 IOP158	IRCNQ001			IRCNQ004								
IOPI65	IRCNQ003			IRCNQ006								
					CONT	ACT US						
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