

Daily Iron Ore Index Report October 30, 2018 **IRON ORE PORT STOCK INDEX (IOPI)** October 30 2018 FOT Qingdao (inc. 16% VAT), RMB/wet tonne CFR Qingdao Equivalent (exc. 16% VAT), USD/dry tonne ¹ Index **Fe Content** Change % MTD Price Change % MTD YTD² High ² **IOPI62** 62% Fe Fines 598 0.5% 562 494 443 598 76.77 0.19 0.2% 72.26 66.18 75.83 77.89 **IOPI58** 58% Fe Fines 416 9 2.2% 400 350 304 416 52.56 1.37 2.7% 50.39 45.59 40.67 52.56 **IOPI65** 65% Fe Fines 778 2 0.3% 759 645 778 101.01 -0.02 0.0% 98.89 87.38 96.35 101.03 **IRON ORE SEABORNE INDEX (IOSI) PLATFORM TRADES AND TENDERS**

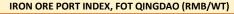
October 30 2018		CFR Qingdao, USD/dry tonne							
Index	Fe Content	Price	Change	Change %	MTD	YTD ³	Low ³	High ³	
IOSI62	62% Fe Fines	75.90	0.25	0.3%	72.14	67.98	63.25	86.20	
IOSI65	65% Fe Fines	100.15	0.00	0.0%	98.93	94.11	86.20	101.50	

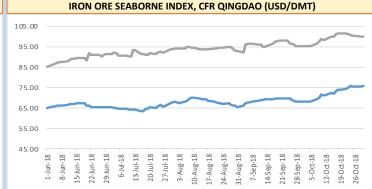
MARKET COMMENTARY

Physical iron ore port stock quotes were relatively stable today as the market searched for direction. Trader offers were stable whilst steel mills preferred to keep away as they viewed current price levels as too high, consuming their current inventories at the mill instead. According to SMM, recent mainstream MNP inventory at Tangshan ports keeps declining, and PB Fines inventory at Jingtang ports dropped by more than 200,000 mt over the last week, hence the price gap of PB Fines between Shandong and Tangshan may continue for the near future.

IRON ORE DOMESTIC CONCENTRATE SPOT PRICE ASSESSMENTS AND COMPOSITE INDEX

Week Ending October 26, 2018 Province Region Product Basis					RMB/tonne (e	xcluding tax) 4		USD/tonne (excluding tax) 4			
			Basis	This week	Change %	Low ²	High ²	This week	Change %	Low ²	High ²
Hebei	Hanxing	66% Fe Concentrate	Dry	695	2.2%	579	695	100.19	4.8%	83.47	100.19
Hebei	Qian'an	65% Fe Concentrate	Dry	780	0.0%	630	780	112.44	-0.5%	90.82	112.44
Liaoning	Anshan	65% Fe Concentrate	Wet	545	0.0%	445	550	78.56	-0.5%	64.15	79.28
Shandong	Zibo	65% Fe Concentrate	Dry	775	0.0%	620	775	111.72	2.2%	89.38	111.72
Week Ending October 26, 2018 China Mines Concentrate Composite Index RMB/WT				This week	Change %	Low 5	High ⁵	¹ Exchange rate applied: RMB/USD = 6.9574 ² Since March 1 ³ Since June 1 ⁴ Weekly exchange rate applied: RMB/USD 6.9208 ⁵ Last 12 months			
				650.94	0.6%	534.50	650.94				







IRON ORE PORT STOCK INDEX MONTHLY, QUARTERLY AND YEAR-TO-DATE AVERAGES

October 30	2018	FOT Qingdao (inc. 16% VAT), RMB/wet tonne							CFR Qingdao Equivalent (exc. 16% VAT), USD/dry tonne ¹						
Index	Fe Content	June	July	August	September	MTD	QTD	YTD ²	June	July	August	September	MTD	QTD	YTD ²
IOPI62	62% Fe Fines	471	482	505	513	562	562	494	65.87	64.29	63.41	65.25	72.26	72.26	66.18
IOPI58	58% Fe Fines	332	349	363	385	400	400	350	43.75	44.14	44.86	45.84	50.39	50.39	45.59
IOPI65	65% Fe Fines	594	638	701	732	759	759	645	79.76	82.19	85.29	92.13	98.89	98.89	87.38

IRON ORE SEABORNE INDEX MONTHLY, QUARTERLY AND YEAR-TO-DATE AVERAGES

67.89

94.04

CFR Qingdao, USD/dr

68.79

96.48

August September

ry tonne			October 29, 2018		FREIGHT RATES - DRY BULK US\$/wet tonne					
MTD	QTD	YTD ³	Route	Designation		Change	Change %	Low ⁵	High ⁵	
72.14	72.14	67.98	W. Australia - Qingdao	C5	8.85	0.23	2.69%	5.109	10.002	
98.93	98.93	94.11	Tubarao - Qingdao	C3	21.53	0.11	0.51%	12.705	24.76	

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Fe Content

62% Fe Fines

65% Fe Fines

June

66.10

89.32

July

65.09

91.90

October 30 2018

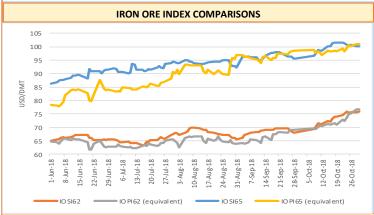
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IOSI62

IOSI65



October 30, 2018





IRON ORE BRAND SPOT PRICE ASSESMENTS

October 30 2018	PORT	STOCK INDEX (R	MB/WT)
	Price	Change	Diff to IOPI62
Roy Hill	575	3	-23
SIMEC Fines	523	3	-75
PB Fines	583	3	-15
Newman Fines	600	3	2
MAC Fines	565	3	-33
Jimblebar Blended Fines	530	3	-68
Carajas Fines	765	3	167
Brazilian SSF	601	3	3
Brazilian Blend Fines	613	3	15
RTX Fines	505	3	-93

October 30 2018	SEABC	DRNE INDEX (US	D/DMT)
	Price	Change	Diff to IOSI62
Roy Hill	68.82	0.25	-7.08
SIMEC Fines	61.12	0.25	-14.78
PB Fines	74.62	0.25	-1.28
Newman Fines	77.11	0.25	1.21
MAC Fines	70.42	0.25	-5.48
Jimblebar Blended Fines	75.03	0.25	-0.87
Carajas Fines	98.34	0.25	22.44
Brazilian SSF	77.46	0.25	1.56
Brazilian Blend Fines	80.21	0.25	4.31
RTX Fines	69.27	0.25	-6.63

505	3	-93
PORT S	STOCK INDEX (R	MB/WT)
Price	Change	Diff to IOPI58
369	9	-47
422	9	6
384	9	-32
398	9	-18
376	9	-40
469	9	53
	PORT : Price 369 422 384 398 376	PORT STOCK INDEX (R Price Change 369 9 422 9 384 9 398 9 376 9

IRON ORE INDEX NORMALISATION DIFFERENTIALS

Port	Stock Index Product Differentials (RMB/wet tonr	ne)	Seaborne Index Product Differentials (UDS/dry tonne)				
	Applicable range	Value	Change		Applicable range	Value	Change	
	High Grade Fe 60 - 63%	12.00	0.00		High Grade Fe 60 - 63%	2.50	0.00	
	High Grade Fe 63 - 64%	57.00	0.00		High Grade Fe 63 - 64%	3.00	0.00	
1% Fe	High Grade Fe 64 - 65%	57.00	0.00	1% Fe	High Grade Fe 64 - 65%	3.00	0.00	
	High Grade Fe 65 - 65.5%	57.00	0.00		High Grade Fe 65 - 65.5%	3.00	0.00	
	Low Grade Fe	20.00	0.00					
	High Fe Grade Al <2.25%	44.00	0.00		High Fe Grade Al <2.25%	9.75	0.00	
1% Alumina	High Fe Grade Al 2.25-4%	39.00	0.00	1% Alumina	High Fe Grade Al 2.25-4%	0.00	0.00	
170 Alullilla	Low Fe Grade Al <2.25%	85.00	0.00					
	Low Fe Grade Al 2.25-4%	13.00	0.00					
	High Fe Grade Si <4%	7.00	0.00		High Fe Grade Si <4%	2.75	0.00	
1% Silica	High Fe Grade Si 4-6.5%	26.00	0.00	1% Silica	High Fe Grade Si 4 - 6.5%	4.25	0.00	
	Low Fe Grade	6.00	0.00					
0.01%	High Fe Grade 0.09% <p<0.115%< td=""><td>4.00</td><td>0.00</td><td>0.01%</td><td>High Fe Grade 0.09%<p<0.115%< td=""><td>0.00</td><td>0.00</td></p<0.115%<></td></p<0.115%<>	4.00	0.00	0.01%	High Fe Grade 0.09% <p<0.115%< td=""><td>0.00</td><td>0.00</td></p<0.115%<>	0.00	0.00	
Phosphorus	High Fe Grade 0.115% <p<0.15%< td=""><td>14.00</td><td>0.00</td><td></td><td>High Fe Grade 0.115%<p<0.15%< td=""><td>1.00</td><td>0.00</td></p<0.15%<></td></p<0.15%<>	14.00	0.00		High Fe Grade 0.115% <p<0.15%< td=""><td>1.00</td><td>0.00</td></p<0.15%<>	1.00	0.00	
Filospilorus	Low Fe Grade 0.09 <p<0.1%< td=""><td>2.00</td><td>0.00</td><td>Phosphorus</td><td></td><td></td><td></td></p<0.1%<>	2.00	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	-30.00	0.00	Lianyungang	0.00	0.00	Rizhao	0.00	0.00
Caofeidian	-15.00	0.00	Jingtang	-15.00	0.00	Majishan	0.00	0.00	Shekou	0.00	0.00
Dalian	-20.00	0.00	Lanqiao	0.00	0.00	Nantong	-30.00	0.00	Tianjin	-30.00	0.00

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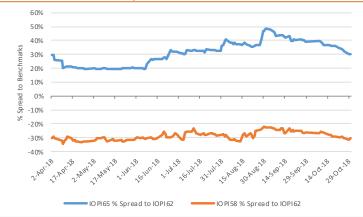
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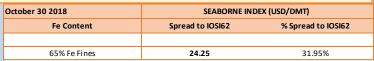


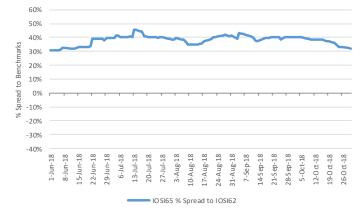
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IRON ORE INDEX PREMIUMS/DISCOUNTS

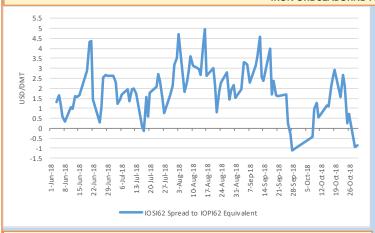
October 30 2018		PORT STOCK INDEX (RMB/WT)					
Fe Content		Spread to IOPI62	% Spread to IOPI62				
	58% Fe Fines	-182	-30.43%				
	65% Fe Fines	180	30.10%				





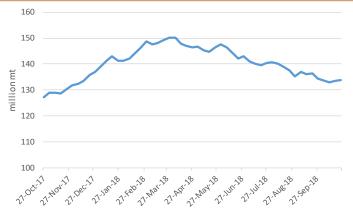


IRON ORE SEABORNE TO PORT STOCK SPREADS





TOTAL IRON ORE INVENTORIES AT CHINA PORTS 160



	FUTURE TRADING—FRONT MONTH CLOSING PRICE		
600			
580		83	
560			
540		78	
RMB/tonne 005 200 200	M M	23 (8) USD/tonne	
¥ 500) D/to	
≥ 480	Man M M M M	68 IS	
460	· M		
440	Mark Control of the C	63	
420			
400		58	
3. Agr.	the party programment of the last of the l		
	—— Dalian 3pm Close —— SGX Front Month 6pm (RHS)		

ELITIBE TRADING EPONT MONTH CLOSING DRICE

IRON ORE PORT INVENTORIES										
Week Ending October 26, 2018 (million tonnes)										
Province	This week	Change %	Low ⁴	High ⁴						
Jingtang	14.30	5.15%	13.47	19.00						
Qingdao	18.00	0.00%	15.60	19.97						
Caofeidian	18.60	-6.81%	16.70	25.30						
Tianjin	9.30	3.79%	8.50	11.00						
Rizhao	16.05	1.58%	13.16	19.00						
Total (35 Ports)	133.81	0.21%	127.10	150.04						

IRON ORE FUTURES CONTRACTS							
		DCE			SGX		
Closing Date	3	0 Oct 3pm clo	se		30 Oct 6 pm		
Contract	11901	Change	Change %	Nov'18	Change	Change %	
Closing Price	539.0	1.0	0.19%	75.04	0.49	0.66%	
Vol traded ('000 lots)	82.06	-71.6	-46.60%	8.99	0.01	0.11%	
Open positions ('000 lots)	80.68	-3.1	-3.69%	102.18	0.39	0.38%	
Day Low	534.5	-2.5	-0.47%	74.04	-0.46	-0.62%	
Day High	542.5	-2.0	-0.37%	75.11	-1.08	-1.42%	

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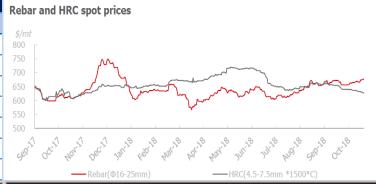
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Steel Spot Market Prices - China

Steel Spot Market RMB/tonne			
Product	26/10/2018	Change	Change %
ReBar HRB400 ф18mm	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%



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

Note: Calculation formula for converting export prices of rebar, cold-rolled steel and galvanizing into prices in China's spot market = FOB* exchange rate*16/(16-0.0); Calculation formula for converting export prices of wire rod and hot-rolled steel into prices in hina's spot market = FOB* exchange rate *16/(16-0.09); Calculation formula for converting export prices of medium-thick plate into prices in China's spot market = FOB* exchange rate

S	teel Inventories³ (unit:	1000 tonnes)	
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%

CHINESE STEEL INVENTORIES

³ SMM statistics cover inventories of major steel products in China's major markets: hot-rolled steel inventories in 33 major cities; rebar and wire inventories in 35 major cities; cold-rolled steel and medium-thick plate inventories in 31 major cities.

CHINESE STEEL MILL PROFITABILITY

SMM Tracking of Steel Mill P&L - Rebar and Hot-rolled Coil (RMB/tonne)						
Category	Price	Change (WoW)	Note			
MMi (Fe 62%), USD/mt exluding tax	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 w eight, 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 SPECIFICATIONS, COMPILATION RATIONALE AND DATA EXCLUSIONS									
Iron	Ore Index Specificat	ions (Port and Seabo	orne)	Iron Ore Ir	ndex Compilation F	Rationale and Data	Exclusions		
	65% Fe Fines	62% Fe Fines	58% Fe Fines	MMi iron ore indices are co	mpiled from data provided b	y 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 submissions for iron ore indices that were excluded from index calculations today as they					
Moisture %	8.00	8.00	9.00	were anomalous and could not be verified					
Cizina	Granular size below 10mm for at least 90% of cargo;				Data Exc	lusions*			
Sizing	maximum of 40% below 150 micron			62%	58%	65%			
Pricing Point	Qingdao F	gdao Port (FOT and CFR respectively)		Port Index	0	0	0		
Timing (Seaborne)	Loading within 4 weeks, Delivery within 8 weeks		Seaborne index	0	0	0			
Payment Terms	erms L/C at sight			Lump 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.

AVERAGE IRON ORE SPECIFICATIONS APPLIED FOR BRAND PRICE ASSESSMENTS

PORT STOCK BRANDS						SEAB	ORNE BRAN	DS			
October 30 2018	October 30 2018 SPECIFICATIONS APPLIED FOR 62% BRAND ASSESSMENTS			SPECIFICATIONS APPLIED FOR 62% BRAND ASSESSM							
	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	61.69%	2.31%	3.54%	0.100%	9.36%	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	61.37%	2.80%	4.36%	0.110%	6.80%	Jimblebar Blended Fines	61.79%	2.67%	4.08%	0.115%	7.16%
Carajas Fines	64.79%	1.32%	1.95%	0.070%	8.30%	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	62.61%	1.57%	4.78%	0.060%	8.36%	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 30 2018 SPECIFICATIONS APPLIED FOR 58% BRAND ASSESSMENTS											

October 30 2018	SPECIFICATIONS APPLIED FOR 58% BRAND ASSESSMENTS							
	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%			

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: jarek@mmiprices.com
SMM Singapore Office Details: Level 28, Manulife Tower, 8 Cross Street Singapore. Tel: + 65 6850 7630 E: service.en@smm.cn
SMM Shanghai Office Details: 9th F1 Building 9 Luijazui Software Park, No 20 Lane 91 Building 9 Shanghai Tel: +86 021 5155 030

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

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