












# MMi Dashboard



## Iron Ore Price Indices

<b>Iron Ore Port Stock (FOT Qingdao)</b> IOPI62 62% Fe Fines RMB/t  <b>649</b> -14 -2.11% November 11th, 2019	<b>Iron Ore Port Stock (FOT Qingdao)</b> IOPI65 65% Fe Fines RMB/t  <b>698</b> -19 -2.65% November 11th, 2019	<b>Iron Port Stock (FOT Qingdao)</b> IOPI58 58% Fe Fines RMB/t  <b>541</b> -27 -4.75% November 11th, 2019
<b>Iron Ore Seaborne (CFR Qingdao)</b> IOSI62 62% Fe Fines USD/dmt  <b>80.40</b> -3.40 -4.06% November 11th, 2019	<b>Iron Ore Seaborne (CFR Qingdao)</b> IOSI65 65% Fe Fines USD/dmt  <b>91.20</b> -1.45 -1.57% November 11th, 2019	<b>Iron Ore Port Stock (FOT Qingdao)</b> IOPLI 62.5% Fe Lump RMB/t  <b>786</b> -12 -1.50% Week Ending November 8th, 2019


## Exchange Traded Contracts

<b>DCE Iron Ore 62% Fines</b> I2001 (Jan) RMB/t  <b>591.50</b> -8.50 -1.42% November 11th, 2019 (3pm close)	<b>SGX Iron Ore (CFR Qingdao) 62% Fe Fines</b> November'19 USD/dmt  <b>76.60</b> -0.95 -1.23% November 11th, 2019 (5.30 pm Print)	<b>SHFE Rebar</b> RB2001 (Jan) RMB/t  <b>3373</b> -39.00 -1.14% November 11th, 2019 (3pm close)
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## Freight Rates

<b>C3, Tubarao - Qingdao USD/t</b>  <b>18.01</b> -0.38 -2.07% November 8th, 2019	<b>C5, W. Australia - Qingdao USD/t</b>  <b>8.34</b> 0.00 0.00% November 8th, 2019
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## Steel Price

<b>Steel Rebar (China Domestic) RMB/t</b>  <b>3790</b> 50 1.34% Week Ending November 8th, 2019
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## Inventory Levels

<b>Iron Ore Inventory at Chinese Ports (35 million tonnes)</b>  <b>116.45</b> -0.34 -0.29% Week Ending November 8th, 2019	<b>Steel Inventory in China (million tonnes)</b>  <b>10.26</b> -0.93 -8.29% Week Ending November 8th, 2019
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## Steel Price

<b>Steel HRC (China Domestic) RMB/t</b>  <b>3530</b> 20 0.57% Week Ending November 8th, 2019
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## IRON ORE PORT STOCK INDEX (IOPI)

November 11th, 2019		FOT Qingdao (inc. 13% VAT), RMB/wet tonne							CFR Qingdao Equivalent (exc. 13% VAT), USD/dry tonne <sup>1</sup>						
Index	Fe Content	Price	Change	Change %	MTD	YTD	Low <sup>2</sup>	High <sup>2</sup>	Price	Change	Change %	MTD	YTD	Low <sup>2</sup>	High <sup>2</sup>
IOPI62	62% Fe Fines	649	-14	-2.1%	668	725	535	928	85.42	-1.91	-2.2%	87.68	96.82	68.50	126.12
IOPI58	58% Fe Fines	541	-27	-4.8%	579	637	375	823	71.34	-3.74	-5.0%	76.32	85.25	46.88	112.44
IOPI65	65% Fe Fines	698	-19	-2.6%	715	792	654	992	92.16	-2.59	-2.7%	94.14	106.07	85.47	135.34

## IRON ORE SEABORNE INDEX (IOSI)

November 11th, 2019		CFR Qingdao, USD/dry tonne							MARKET COMMENTARY							
Index	Fe Content	Price	Change	Change %	MTD	YTD	Low <sup>2</sup>	High <sup>2</sup>	Iron ore physical port stock prices continued to decline today. As prices fell, trader pessimism grew. There is no price spread for PB Fines between the Shandong and Tangshan markets as iron ore inventory in Tangshan has risen since September, and traders in Tangshan have been pressured to sell. Mill demand has not grown with dropping iron ore prices, as they face uncertainty due to potential production cuts for the winter season. Thus the majority mills hold relatively low inventory at the plants. On the other hand, they potentially still have to restock, especially as profit margins hover around 600yuan/mt.							
IOSI62	62% Fe Fines	80.40	-3.40	-4.06%	83.81	94.60	62.95	127.50								
IOSI65	65% Fe Fines	91.20	-1.45	-1.57%	93.35	106.00	83.20	137.95								

## IRON ORE PORT LUMP INDEX (IOPLI)

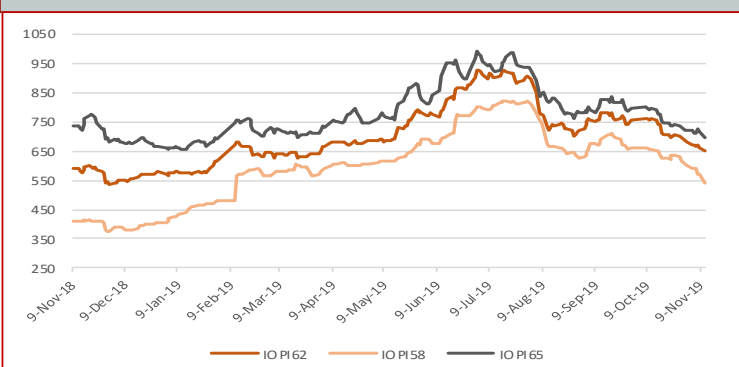
Week Ending November 8th, 2019		FOT Qingdao (inc. 16% VAT), RMB/wet tonne							CFR Qingdao Equivalent (exc. 16% VAT), USD/dry tonne <sup>3</sup>						
Index	Fe Content	Price	W-o-W	Change %	MTD	YTD	Low <sup>2</sup>	High <sup>2</sup>	Price	W-o-W	Change %	MTD	YTD	Low <sup>2</sup>	High <sup>2</sup>
IOPLI62	62.5% Fe Lump	786	-12	-1.5%	792	881	743	1051	97.02	-0.94	-0.96%	97.49	111.50	93.24	133.81

## IRON ORE DOMESTIC CONCENTRATE SPOT PRICE ASSESSMENTS AND COMPOSITE INDEX

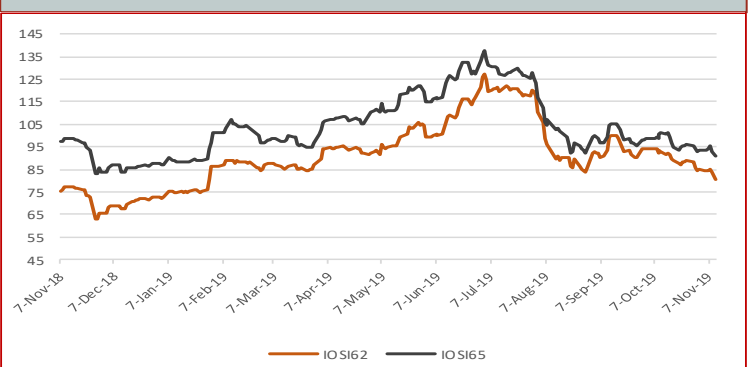
Week Ending November 8th, 2019				RMB/tonne (excluding tax) <sup>3</sup>				USD/tonne (excluding tax) <sup>3</sup>			
Province	Region	Product	Basis	This week	Change %	Low <sup>2</sup>	High <sup>2</sup>	This week	Change %	Low <sup>2</sup>	High <sup>2</sup>
Hebei	Hanxing	66% Fe Concentrate	Dry	806	0.0%	644	1032	114.88	0.61%	93.58	150.03
Hebei	Qian'an	65% Fe Concentrate	Dry	855	-2.8%	690	960	121.86	-2.25%	100.26	139.35
Liaoning	Anshan	65% Fe Concentrate	Wet	650	0.0%	535	745	92.65	0.61%	77.39	104.66
Shandong	Zibo	65% Fe Concentrate	Dry	835	-2.3%	740	1040	119.01	-1.75%	106.55	151.33
Week Ending November 8th, 2019				This week	Change %	Low <sup>2</sup>	High <sup>2</sup>	China Mines Concentrate Composite Index RMB/WT			
				732.71	-1.3%	609.04	859.50				

<sup>1</sup> Exchange rate applied: RMB/USD = 6.9933 <sup>2</sup> Last 12 months  
<sup>3</sup> Weekly exchange rate applied: RMB/USD 7.0160

## IRON ORE PORT INDEX, FOT QINGDAO (RMB/WT)



## IRON ORE SEABORNE INDEX, CFR QINGDAO (USD/DMT)



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

November 11th, 2019		FOT Qingdao (inc. 13% VAT), RMB/wet tonne							CFR Qingdao Equivalent (exc. 13% VAT), USD/dry tonne						
Index	Fe Content	July	August	September	October	MTD	QTD	YTD	July	August	September	October	MTD	QTD	YTD
IOPI62	62% Fe Fines	909	759	758	721	668	706	725	111.42	123.29	100.18	94.29	87.68	92.44	96.82
IOPI58	58% Fe Fines	809	691	674	636	579	620	637	98.60	110.47	91.86	83.57	76.32	81.54	85.25
IOPI65	65% Fe Fines	954	823	803	758	715	746	792	121.97	129.53	108.92	99.32	94.14	97.87	106.07

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

November 11th, 2019		CFR Qingdao, USD/dry tonne							FREIGHT RATES - DRY BULK US\$/wet tonne						
Index	Fe Content	July	August	September	October	MTD	QTD	YTD	Route	Designation	Change	Change %	Low <sup>2</sup>	High <sup>2</sup>	
IOSI62	62% Fe Fines	120.82	92.61	93.76	90.81	83.81	89.12	94.60	W. Australia - Qingdao	C5	8.34	0.00	0.00%	4.39	11.42
IOSI65	65% Fe Fines	129.53	101.34	99.42	97.45	93.35	96.46	106.00	Tubarao - Qingdao	C3	18.01	-0.38	-2.07%	11.61	29.10

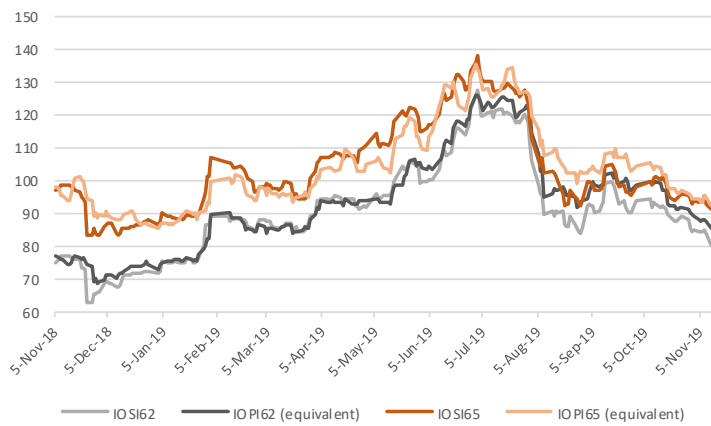
## IRON ORE PORT LUMP INDEX MONTHLY, QUARTERLY AND YEAR-TO-DATE AVERAGES

Week Ending November 8th, 2019		FOT Qingdao (inc. 16% VAT), RMB/wet tonne							CFR Qingdao Equivalent (exc. 16% VAT), USD/dry tonne <sup>1</sup>						
Index	Fe Content	July	August	September	October	MTD	QTD	YTD	May	June	July	October	MTD	QTD	YTD
IOPLI62	62.5% Fe Lump	1046	870	803	829	792	814	881	128.00	132.99	108.80	98.44	97.49	100.04	111.50

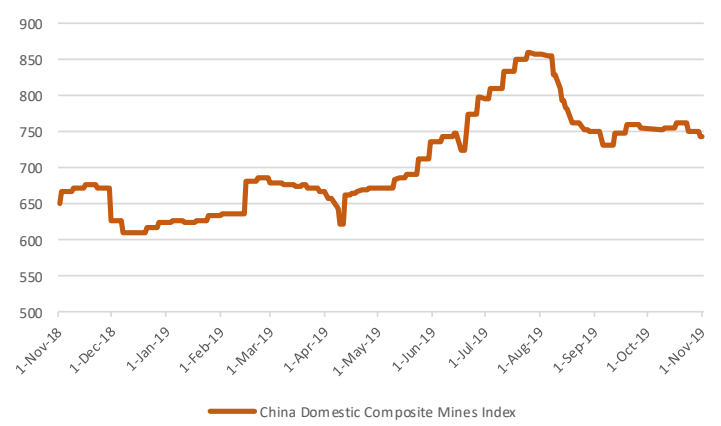
## IRON ORE INDEX PREMIUMS/DISCOUNTS

November 11th, 2019				PORT STOCK INDEX (RMB/WT)				November 11th, 2019				SEABORNE INDEX (USD/DMT)			
Index	Fe Content	Spread to IOPI62		% Spread to IOPI62		Index	Fe Content	Spread to IOSI62		% Spread to IOSI62					
IOPI58	58% Fe Fines	-108		-16.64%		IOSI65	65% Fe Fines	10.80		13.43%					
IOPI65	65% Fe Fines	49		7.55%											

## IRON ORE INDEX COMPARISONS (USD/DMT)



## CHINA DOMESTIC COMPOSITE MINES INDEX (RMB/Wet Tonne, including VAT)



## IRON ORE BRAND SPOT PRICE ASSESSMENTS

November 11th, 2019				November 11th, 2019			
PORT STOCK INDEX (RMB/WT)				SEABORNE INDEX (USD/DMT)			
	Price	Change	Diff to IOPI62		Price	Change	Diff to IOSI62
Roy Hill	604	-18	-45	Roy Hill	77.39	-3.37	-3.01
SIMEC Fines	563	-29	-86	SIMEC Fines	74.24	-3.37	-6.16
PB Fines	627	-15	-22	PB Fines	78.91	-3.23	-1.49
Newman Fines	656	-16	7	Newman Fines	80.76	-3.39	0.36
MAC Fines	613	-18	-36	MAC Fines	75.44	-2.67	-4.96
Jimblebar Blended Fines	557	-22	-92	Jimblebar Blended Fines	65.89	-2.05	-14.51
Carajas Fines	700	-20	51	Carajas Fines	90.94	-3.21	10.54
Brazilian SSF	613	-32	-36	Brazilian SSF	78.21	-3.09	-2.19
Brazilian Blend Fines	656	-19	7	Brazilian Blend Fines	80.46	-3.21	0.06
RTX Fines	583	-23	-66	RTX Fines	71.31	-2.35	-9.09
West Pilbara Fines	593	-17	-56	West Pilbara Fines	77.14	-3.37	-3.26

November 11th, 2019			
PORT STOCK INDEX (RMB/WT)			
	Price	Change	Diff to IOPI58
SSF	522	-25	-19
FMG Blended Fines	550	-27	9
Robe River	517	-27	-24
Western Fines	532	-23	-9
Atlas Fines	514	-24	-27
Yandi	534	-25	-7

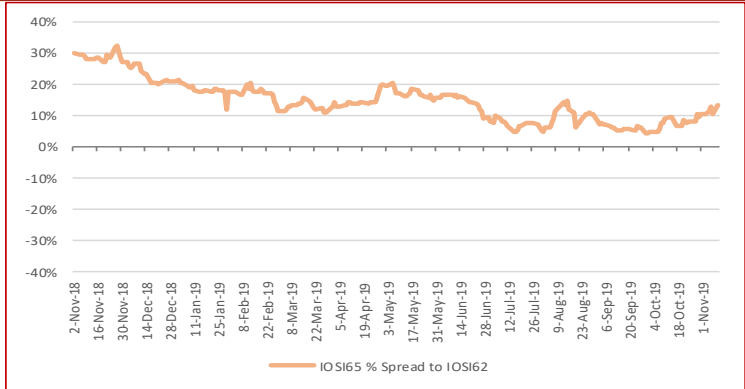
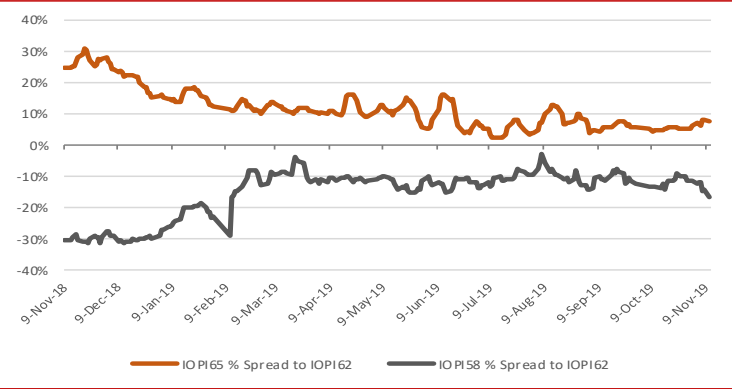
## IRON ORE INDEX NORMALISATION DIFFERENTIALS

Port Stock Index Product Differentials (RMB/wet tonne)				Seaborne Index Product Differentials (USD/dry tonne)			
	Applicable range	Value	Change		Applicable range	Value	Change
1% Fe	High Grade Fe 60 - 63%	17.00	-1.00	1% Fe	High Grade Fe 60 - 63%	1.00	0.00
	High Grade Fe 63 - 64%	2.00	-1.00		High Grade Fe 63 - 64%	2.00	0.00
	High Grade Fe 64 - 65%	2.00	-1.00		High Grade Fe 64 - 65%	2.00	0.00
	High Grade Fe 65 - 65.5%	2.00	-1.00		High Grade Fe 65 - 65.5%	2.00	0.00
1% Alumina	Low Grade Fe	12.00	0.00	1% Alumina	High Fe Grade Al <2.25%	1.75	0.25
	High Fe Grade Al <2.25%	15.00	0.00		High Fe Grade Al 2.25-4%	2.75	-0.50
	High Fe Grade Al 2.25-4%	30.00	7.00				
	Low Fe Grade Al <2.25%	15.00	2.00				
1% Silica	Low Fe Grade Al 2.25-4%	1.00	0.00	1% Silica	High Fe Grade Si <4%	1.75	0.00
	High Fe Grade Si <4%	6.00	-1.00		High Fe Grade Si 4 - 6.5%	1.75	0.00
0.01% Phosphorus	High Fe Grade Si 4-6.5%	27.00	7.00	0.01% Phosphorus	High Fe Grade 0.09%<P<0.115%	0.75	-0.25
	Low Fe Grade	8.00	-2.00		High Fe Grade 0.115%<P<0.15%	1.50	0.00
	High Fe Grade 0.09%<P<0.115%	2.00	0.00				
	High Fe Grade 0.115%<P<0.15%	4.00	0.00				
	Low Fe Grade 0.09<P<0.1%	2.00	1.00				

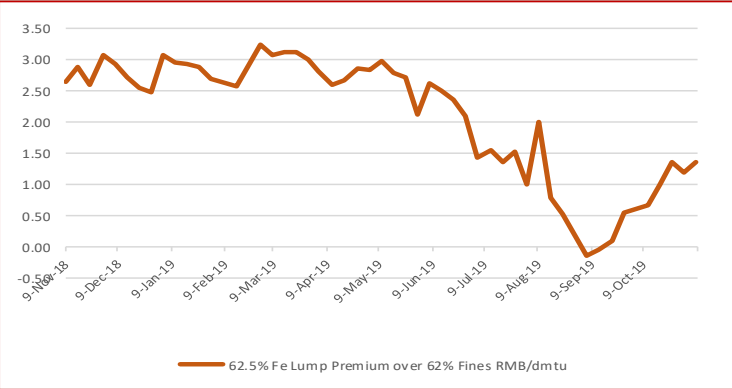
## Port Stock Price Differentials to Qingdao Port for PB Fines (RMB/wet tonne)

Port	Value	Change	Port	Value	Change	Port	Value	Change	Port	Value	Change
Bayuquan	-55.00	0.00	Fangcheng	-5.00	0.00	Lanshan	0.00	0.00	Qingdao	0.00	0.00
Beilun	5.00	0.00	Jiangyin	-25.00	0.00	Lianyungang	0.00	0.00	Rizhao	0.00	0.00
Caofeidian	0.00	0.00	Jingtang	0.00	0.00	Majishan	0.00	0.00	Shekou	0.00	0.00
Dalian	-55.00	0.00	Lanqiao	0.00	0.00	Nantong	-10.00	0.00	Tianjin	0.00	0.00

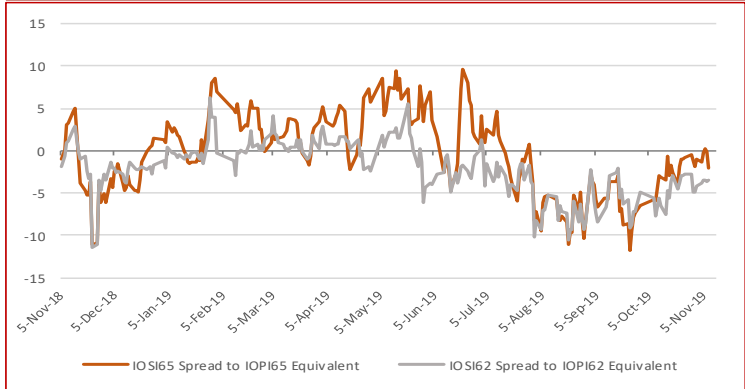
IRON ORE INDEX PREMIUMS/DISCOUNTS



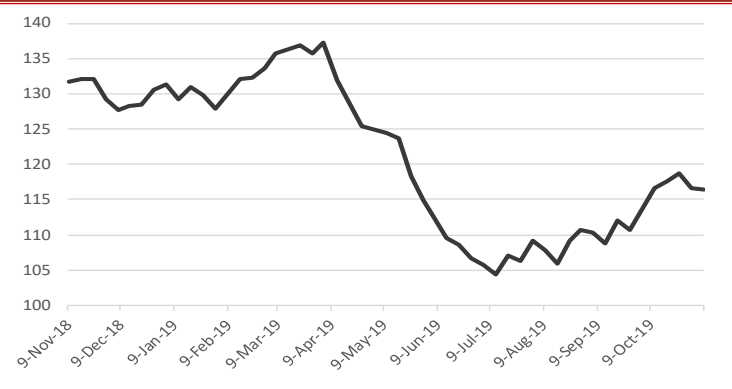
WEEKLY IRON ORE PORT STOCK LUMP PREMIUM (RMB/DMTU)



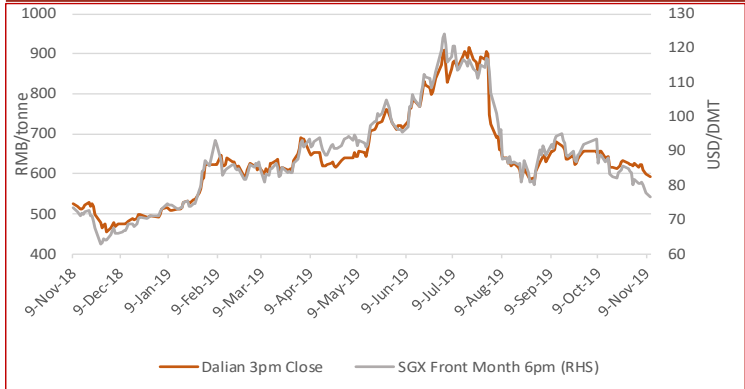
IRON ORE SEABORNE TO PORT STOCK PRICE SPREADS (USD/DMT)



TOTAL IRON ORE INVENTORIES AT CHINA PORTS (MILLION TONNES)



FUTURE TRADING—FRONT MONTH CLOSING PRICE



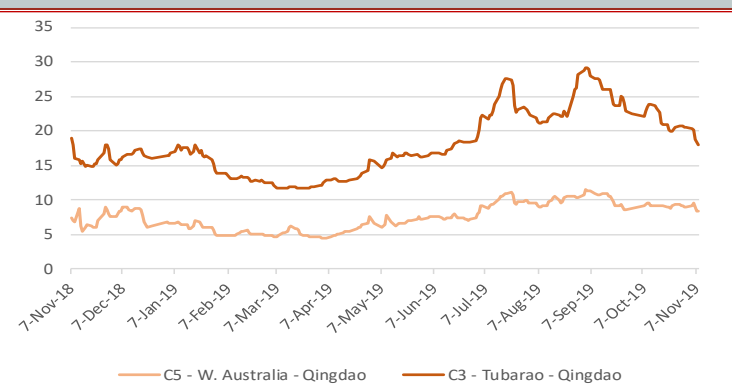
IRON ORE PORT INVENTORIES (MILLION TONNES)

Province	This week	Change %	Low <sup>2</sup>	High <sup>2</sup>
Jingtang	15.75	-1.07%	10.80	17.00
Qingdao	13.75	-0.07%	12.38	19.01
Caofeidian	15.93	-0.25%	14.32	19.40
Tianjin	7.58	3.55%	6.37	10.05
Rizhao	13.58	-2.37%	11.41	17.10
<b>Total (35 Ports)</b>	<b>116.45</b>	<b>-0.29%</b>	<b>104.40</b>	<b>137.30</b>

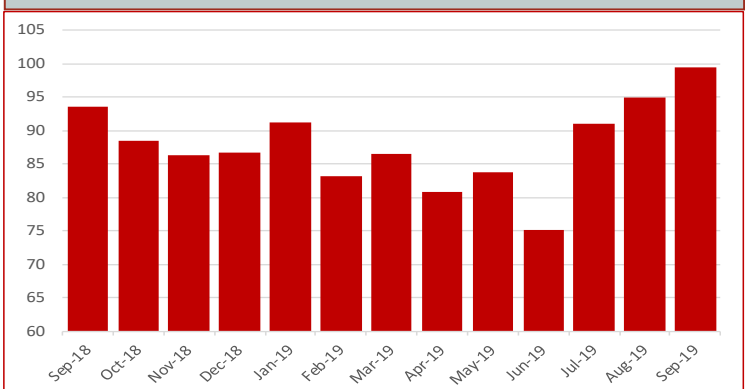
IRON ORE FUTURES CONTRACTS

Closing Date	DCE (RMB/WMT)			SGX (USD/DMT)		
	Nov 11th 3pm close			Nov 11th 5.30 pm		
Contract	I2001	Change	Change %	Dec'19	Change	Change %
Closing Price	591.50	-8.5	-1.42%	76.60	-0.95	-1.23%
Vol traded ('000 lots)	174.47	22.7	14.93%	12.80	-3.81	-22.95%
Open positions ('000 lots)	160.59	8.2	5.37%	157.16	8.52	5.73%
Day Low	587.0	-12.5	-2.09%	76.50	-0.74	-0.96%
Day High	598.0	-15.5	-2.53%	77.75	-2.20	-2.75%

DRY BULK FREIGHT RATES (USD/MT)



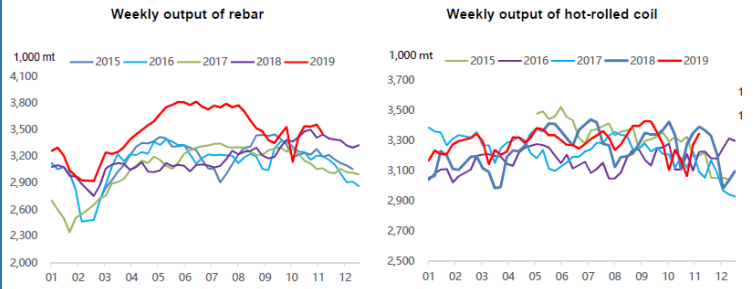
TOTAL CHINA IRON ORE IMPORT VOLUMES (MILLION TONNES)



STEEL SPOT MARKET PRICES—CHINA

Steel Spot Market RMB/tonne

Product	8/11/2019	Change	Change %
ReBar HRB400 φ18mm	3,790.0	50	1.34%
Wirerod Q300 φ6.5mm	4,180.0	50	1.21%
HRC Q235/SS400 5.5mm*1500*C	3,530.0	20	0.57%
CRC SPPC/ST12 1.0mm*1250*2500	4,210.0	0	0.00%
Medium & Heavy Plate Q235B 20mm	3,680.0	0	0.00%
GI ST02Z 1.0mm*1000*C	4,350.0	0	0.00%
Colour Coated Plate	6,800.0	-100	-1.45%



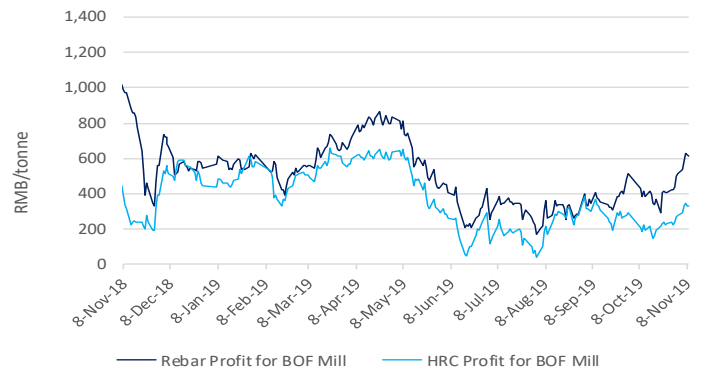
CHINESE STEEL MILL PROFITABILITY

SMM Tracking of Steel Mill P&L - Rebar and Hot-rolled Coil (RMB/tonne)

Category	Price	Change (WoW)	Note
MMi (Fe 62%), USD/mt excluding tax	84.75	0.25	Mmi CFR Equivalent index for 1st Feb
Coke	1,810	-50	2nd grade met coke, Tangshan, incl. tax
Steel Scrap	2,340	60	steel scrap (6mm) in Zhangjiagang, excl. tax
Billet Cost	2,893	-31	Q234, incl. tax
Rebar cost - Blast furnace	3,119	-36	calculated based on theoretical weight, incl. tax
Rebar profit - Blast furnace	611	96	based on Shanghai prices, incl. tax
Hot-rolled coil cost - Blast furnace	3,209	-31	based on actual weight, incl. tax
Hot-rolled coil profit - Blast furnace	331	51	based on Shanghai prices, incl. tax

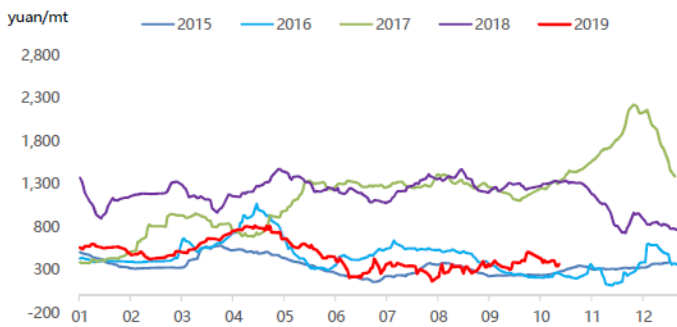
Note: 1. Costs in the table are calculated based on today's market prices and fact of our management, sales, financial and depreciations fees.  
2. The cost refers to average cost in the industry based on SMM's survey of small, medium and large mills in China

CHINESE STEEL MILL PROFITABILITY

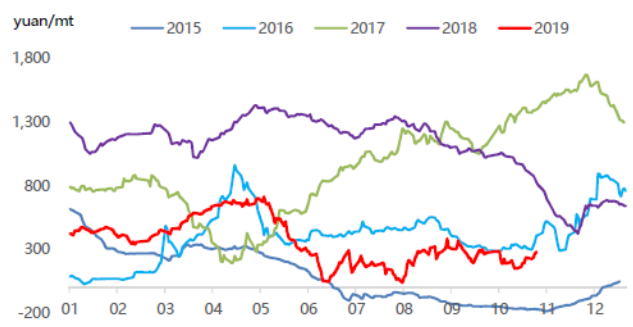


CHINESE STEEL MILL PROFITABILITY

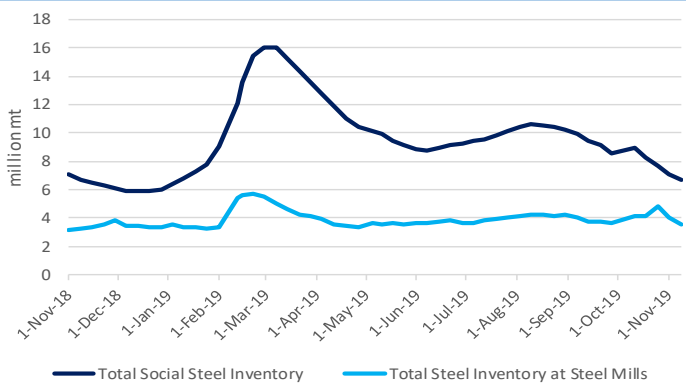
Rebar profits



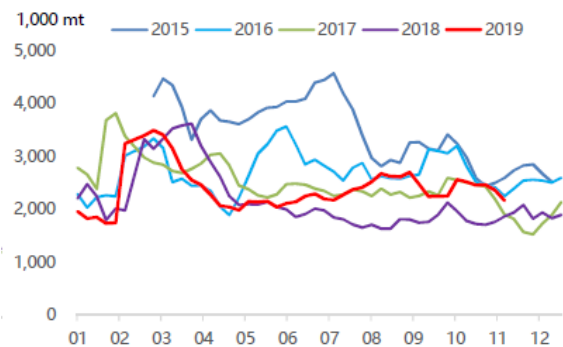
Hot-rolled coil profits



CHINESE STEEL INVENTORIES



In-plant inventory of rebar



## IRON ORE INDEX SPECIFICATIONS, COMPILATION RATIONALE AND DATA EXCLUSIONS

Iron Ore Index Specifications (Port and Seaborne)					Iron Ore Index Compilation Rationale and Data Exclusions
	<b>65% Fe Fines</b>	<b>62% Fe Fines</b>	<b>58% Fe Fines</b>	<b>62.5% Fe Lump</b>	MMi iron ore indices are compiled from data provided by companies that are 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.  For more details on MMi's iron ore methodology please download the guide published on our website at: <a href="http://www.mmiprices.com">www.mmiprices.com</a>
Fe %	65.00	62.00	58.00	62.50	
Alumina %	1.40	2.25	2.25	1.50	
Silica%	1.50	4.00	5.50	3.50	
Phosphorus %	0.06	0.09	0.05	0.08	
Sulphur %	0.01	0.02	0.02	0.02	
Moisture %	8.00	8.00	9.00	4.00	
Sizing	Granular size below 10mm for at least 90% of cargo; maximum of 40% below 150 micron			Size below 6.3mm max 15% Size above 31.15mm max 25%	
Pricing Point	Qingdao Port (FOT and CFR respectively)			FOT Qingdao Port	
Timing (Seaborne)	Loading within 4 weeks, Delivery within 8 weeks			Delivery within 2 weeks	
Payment Terms	L/C at sight			L/C at sight or CAD	
<b>Data Exclusions*</b>					
	<b>62%</b>	<b>58%</b>	<b>65%</b>		
Port Index	0	0	0		
Seaborne Index	0		0		
Lump Index 62.5	0				
* Number of price submissions for iron ore indices that were excluded from index calculations today as they were anomalous and could not 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 11th, 2019	Specifications applied for 62% brand assessments					Specifications applied for 62% brand assessments					
	Fe	Alumina	Silica	Phos	Moisture		Fe	Alumina	Silica	Phos	Moisture
Roy Hill	61.01%	2.25%	4.70%	0.054%	9.34%	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%	2.38%	3.70%	0.098%	9.56%	PB Fines 62%	62.00%	2.60%	4.30%	0.090%	10.00%
Newman Fines	62.50%	2.19%	4.13%	0.092%	7.74%	Newman Fines	62.80%	2.20%	4.30%	0.080%	6.40%
MAC Fines	60.83%	2.27%	4.65%	0.081%	7.73%	MAC Fines	61.00%	2.70%	4.70%	0.110%	9.30%
Jimblebar Blended Fines	60.44%	3.06%	4.62%	0.118%	7.73%	Jimblebar Blended Fines	59.50%	3.70%	5.80%	0.135%	8.30%
Carajas Fines	65.43%	1.28%	1.36%	0.079%	8.17%	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	62.92%	1.54%	4.60%	0.069%	8.39%	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%
West Pilbara Fines	60.10%	2.30%	4.70%	0.075%	8.50%	West Pilbara Fines	60.10%	2.30%	4.70%	0.075%	8.50%
November 11th, 2019	Specifications applied for 58% brand assessments										
	Fe	Alumina	Silica	Phos	Moisture						
SSF	56.60%	3.05%	6.23%	0.051%	8.30%						
FMG Blended Fines	58.19%	2.67%	5.49%	0.058%	7.79%						
Robe River	56.28%	2.91%	5.58%	0.035%	9.29%						
Western Fines	57.88%	2.87%	7.50%	0.062%	7.45%						
Atlas Fines	56.59%	2.55%	7.14%	0.080%	8.46%						
Yandi	57.20%	1.57%	6.40%	0.041%	9.00%						

## BLOOMBERG TICKERS

PORT STOCK INDICES				SEABORNE INDICES	
FOT Qingdao (RMB/wet tonne)		CFR Qingdao Equivalent (USD/dry tonne)		CFR Qingdao (USD/DMT)	
IOPI62	IRCNO001		IRCNO004	IOSI62	IRCNO034
IOPI58	IRCNO002		IRCNO005	IOSI65	IRCNO035
IOPI65	IRCNO003		IRCNO006		
IOPLI62	IRCNO036		IRCNO037		

## CONTACT US

**MMi Singapore Office Details:** Level 28, Manulife Tower, 8 Cross Street Singapore. Tel: + 65 6850 7629 E: [jarek@mmiprices.com](mailto:jarek@mmiprices.com)  
**SMM Singapore Office Details:** Level 28, Manulife Tower, 8 Cross Street Singapore. Tel: + 65 6850 7630 E: [service.en@smm.cn](mailto:service.en@smm.cn)  
**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](mailto:service.en@smm.cn)

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