












# MMi Dashboard



## Iron Ore Price Indices

<b>Iron Ore Port Stock (FOT Qingdao)</b> IOPI62 62% Fe Fines RMB/t  <b>970</b> -3 -0.31% September 9th, 2020	<b>Iron Ore Port Stock (FOT Qingdao)</b> IOPI65 65% Fe Fines RMB/t  <b>1020</b> -2 -0.20% September 9th, 2020	<b>Iron Port Stock (FOT Qingdao)</b> IOPI58 58% Fe Fines RMB/t  <b>874</b> -5 -0.57% September 9th, 2020
<b>Iron Ore Seaborne (CFR Qingdao)</b> IOSI62 62% Fe Fines USD/dmt  <b>131.45</b> -0.35 -0.27% September 9th, 2020	<b>Iron Ore Seaborne (CFR Qingdao)</b> IOSI65 65% Fe Fines USD/dmt  <b>144.40</b> -0.15 -0.10% September 9th, 2020	<b>Iron Ore Port Stock (FOT Qingdao)</b> IOPLI 62.5% Fe Lump RMB/t  <b>952</b> 8 0.85% Week Ending September 4th, 2020


## Exchange Traded Contracts

<b>DCE Iron Ore 62% Fines</b> I2101 (Jan) RMB/t (3pm close)  <b>824.50</b> -19.50 -2.31% September 9th, 2020 (3pm close)	<b>SGX Iron Ore (CFR Qingdao) 62% Fe Fines</b> Oct'20 USD/dmt  <b>121.20</b> -2.28 -1.85% September 9th, 2020 (5.30 pm Print)	<b>SHFE Rebar</b> RB2101 (Jan) RMB/t  <b>3658</b> -61.00 -1.64% September 9th, 2020 (3pm close)
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## Freight Rates

<b>C3, Tubarao - Qingdao USD/t</b>  <b>16.39</b> -0.07 -0.43% September 8th, 2020	<b>C5, W. Australia - Qingdao USD/t</b>  <b>6.96</b> -0.09 -1.29% September 8th, 2020
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## Steel Price

<b>Steel Rebar (China Domestic) RMB/t</b>  <b>3750</b> 50 1.35% Week Ending September 4th, 2020
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## Inventory Levels

<b>Iron Ore Inventory at Chinese Ports (35)</b> million tonnes  <b>106.65</b> 0.76 0.72% Week Ending September 4th, 2020	<b>Steel Inventory in China</b> million tonnes  <b>18.19</b> 0.01 0.03% Week Ending September 4th, 2020
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## Steel Price

<b>Steel HRC (China Domestic) RMB/t</b>  <b>4050</b> 20 0.50% Week Ending September 4th, 2020
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## IRON ORE PORT STOCK INDEX (IOPI)

September 9th, 2020		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	970	-3	-0.3%	974	764	619	983	132.43	-0.54	-0.4%	133.06	101.07	81.37	133.69
IOPI58	58% Fe Fines	874	-5	-0.6%	880	673	531	892	120.24	-0.81	-0.7%	121.15	89.54	70.02	122.70
IOPI65	65% Fe Fines	1020	-2	-0.2%	1017	876	696	1022	139.46	-0.40	-0.3%	139.12	116.44	91.81	139.53

## IRON ORE SEABORNE INDEX (IOSI)

## MARKET COMMENTARY

September 9th, 2020		CFR Qingdao, USD/dry tonne							Physical iron ore markets were relatively unchanged today, despite volatile futures markets. Much of the volatility is attributed to the broader macro-environment as equity markets come under some selling pressure. PBF was concluded at 950-952yuan/mt 948yuan/mt in Shandong and Tangshan respectively. Mainstream medium fines inventories at domestic ports are rising and mill purchasing enthusiasm is tepid. Considering the quick price rises of low- and high-grade products, mills are looking to medium grade products once again. Lump products continue to be popular, and the price spread between PBL and PBF rose to 25-30yuan/mt.							
Index	Fe Content	Price	Change	Change %	MTD	YTD	Low <sup>2</sup>	High <sup>2</sup>								
IOSI62	62% Fe Fines	131.45	-0.35	-0.27%	130.61	99.06	80.40	132.25								
IOSI65	65% Fe Fines	144.40	-0.15	-0.10%	142.62	113.46	91.20	144.85								

## IRON ORE PORT LUMP INDEX (IOPLI)

Week Ending September 4th, 2020		FOT Qingdao (inc. 13% VAT), RMB/wet tonne							CFR Qingdao Equivalent (exc. 13% 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	952	8	0.8%	952	868	777	952	124.47	2.18	1.78%	124.47	110.11	94.90	124.47

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

Week Ending September 4th, 2020				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	1041	-2.8%	763	1071	152.12	-1.92%	109.21	155.10
Hebei	Qian'an	65% Fe Concentrate	Dry	1028	1.3%	780	1025	150.22	2.20%	110.51	150.22
Liaoning	Anshan	65% Fe Concentrate	Wet	785	1.9%	620	785	114.71	2.87%	87.40	114.71
Shandong	Zibo	65% Fe Concentrate	Dry	1105	-0.9%	795	1115	161.48	0.00%	113.34	161.48

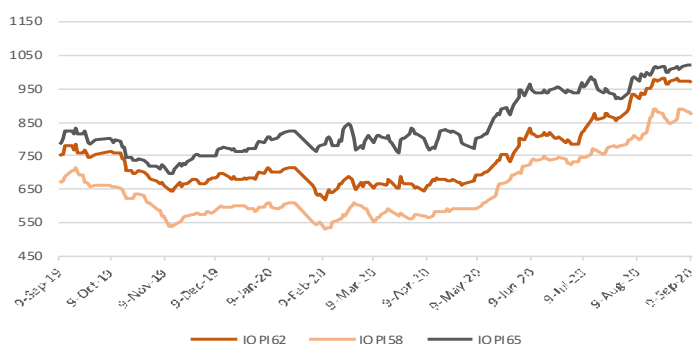
Week Ending September 4th, 2020

This week	Change %	Low <sup>2</sup>	High <sup>2</sup>
915.98	-0.06%	702.47	916.56

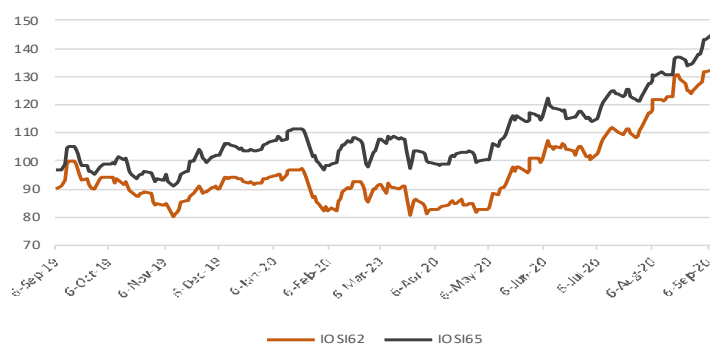
China Mines Concentrate Composite Index RMB/WT

<sup>1</sup> Exchange rate applied: RMB/USD = 6.8423 <sup>2</sup> Last 12 months  
<sup>3</sup> Weekly exchange rate applied: RMB/USD 6.8431

## 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

September 9th, 2020		FOT Qingdao (inc. 13% VAT), RMB/wet tonne							CFR Qingdao Equivalent (exc. 13% VAT), USD/dry tonne						
Index	Fe Content	May	June	July	August	MTD	QTD	YTD	May	June	July	August	MTD	QTD	YTD
IOPI62	62% Fe Fines	720	807	844	948	974	905	764	87.15	93.74	105.69	127.65	133.06	121.36	101.07
IOPI58	58% Fe Fines	638	730	758	838	880	808	673	75.96	83.60	96.40	113.63	121.15	109.10	89.54
IOPI65	65% Fe Fines	847	943	948	992	1017	975	876	105.61	110.98	124.25	133.70	139.12	131.07	116.44

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

## FREIGHT RATES

September 9th, 2020		CFR Qingdao, USD/dry tonne							September 8th, 2020						
Index	Fe Content	May	June	July	August	MTD	QTD	YTD	FREIGHT RATES - DRY BULK US\$/wet tonne						
Index	Fe Content	May	June	July	August	MTD	QTD	YTD	Route	Designation	Change	Change %	Low <sup>2</sup>	High <sup>2</sup>	
IOSI62	62% Fe Fines	92.47	103.49	108.23	124.02	130.61	118.07	99.06	W. Australia - Qingdao	C5	6.96	-0.09	-1.29%	3.57	11.42
IOSI65	65% Fe Fines	110.12	117.06	121.21	132.95	142.62	129.23	113.46	Tubarao - Qingdao	C3	16.39	-0.07	-0.43%	6.70	29.10

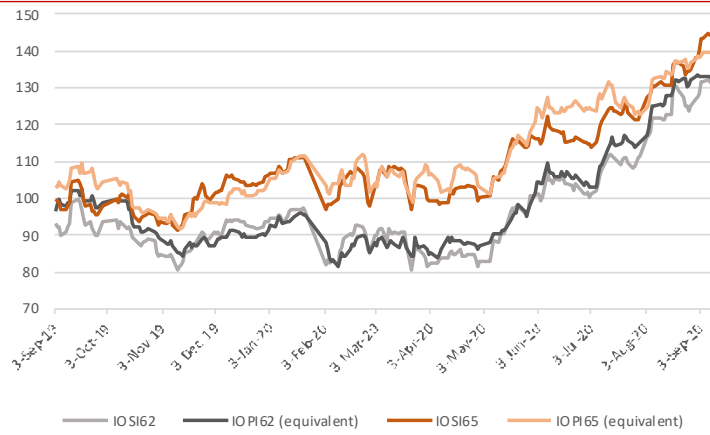
## IRON ORE PORT LUMP INDEX MONTHLY, QUARTERLY AND YEAR-TO-DATE AVERAGES

Week Ending September 4th, 2020		FOT Qingdao (inc. 13% VAT), RMB/wet tonne							CFR Qingdao Equivalent (exc. 13% VAT), USD/dry tonne <sup>1</sup>						
Index	Fe Content	May	June	July	August	MTD	QTD	YTD	May	June	July	August	MTD	QTD	YTD
IOPLI62	62.5% Fe Lump	832	888	875	932	952	906	868	104.46	111.88	111.35	120.08	124.47	116.15	110.11

## IRON ORE INDEX PREMIUMS/DISCOUNTS

September 9th, 2020				PORT STOCK INDEX (RMB/WT)				September 9th, 2020				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	-96		-9.90%		IOSI65	65% Fe Fines	12.95		9.85%					
IOPI65	65% Fe Fines	50		5.15%											

## IRON ORE INDEX COMPARISONS (USD/DMT)



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



## IRON ORE BRAND SPOT PRICE ASSESSMENTS

September 9th, 2020				September 9th, 2020			
PORT STOCK INDEX (RMB/WT)				SEABORNE INDEX (USD/DMT)			
	Price	Change	Diff to IOPI62		Price	Change	Diff to IOSI62
Roy Hill	929	-3	-41	Roy Hill	121.52	-0.35	-9.93
SIMEC Fines	918	-3	-52	SIMEC Fines	110.85	-0.35	-20.60
PB Fines	944	-3	-26	PB Fines	127.55	-0.35	-3.90
Newman Fines	970	-3	0	Newman Fines	129.12	-0.35	-2.33
MAC Fines	939	-5	-31	MAC Fines	122.75	-0.35	-8.70
Jimblebar Blended Fines	883	-3	-87	Jimblebar Blended Fines	118.82	-0.35	-12.63
Carajas Fines	1020	-3	50	Carajas Fines	144.00	-0.35	12.55
Brazilian SSF	952	-3	-18	Brazilian SSF	118.32	-0.35	-13.13
Brazilian Blend Fines	982	-3	12	Brazilian Blend Fines	129.82	-0.35	-1.63
RTX Fines	906	-3	-64	RTX Fines	119.10	-0.35	-12.35
West Pilbara Fines	925	-3	-45	West Pilbara Fines	120.77	-0.35	-10.68

September 9th, 2020			
PORT STOCK INDEX (RMB/WT)			
	Price	Change	Diff to IOPI58
SSF	843	-5	-31
FMG Blended Fines	872	-5	-2
Robe River	850	-5	-24
Western Fines	866	-5	-8
Atlas Fines	873	-5	-1
Yandi	885	-5	11

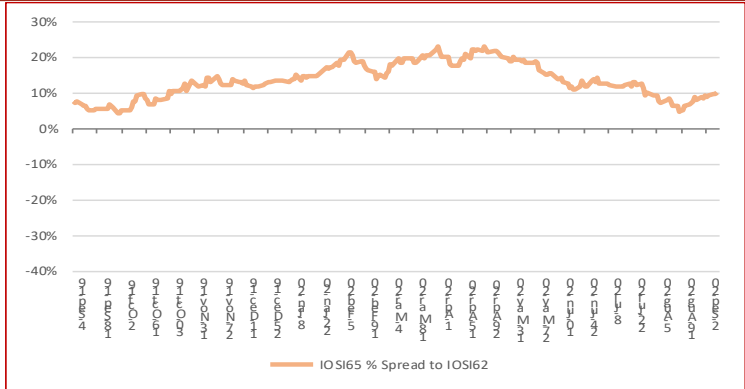
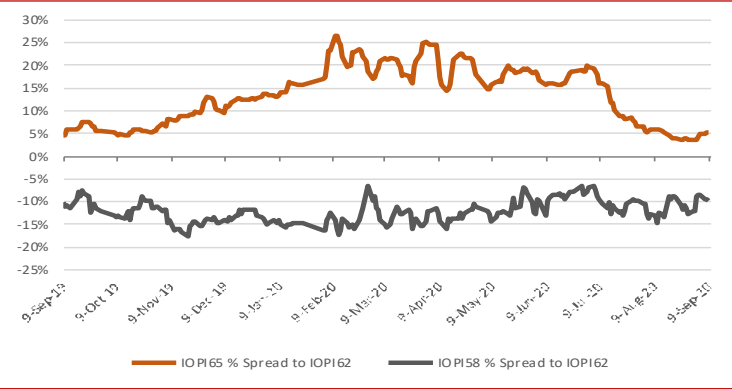
## IRON ORE INDEX NORMALISATION DIFFERENTIALS

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%	13.00	0.00	1% Fe	High Grade Fe 60 - 63%	3.25	0.00
	High Grade Fe 63 - 64%	14.00	0.00		High Grade Fe 63 - 64%	2.25	0.00
	High Grade Fe 64 - 65%	14.00	0.00		High Grade Fe 64 - 65%	2.25	0.00
	High Grade Fe 65 - 65.5%	14.00	0.00		High Grade Fe 65 - 65.5%	2.25	0.00
	Low Grade Fe	1.00	0.00				
1% Alumina	High Fe Grade Al <2.25%	7.00	0.00	1% Alumina	High Fe Grade Al <2.25%	1.50	0.00
	High Fe Grade Al 2.25-4%	44.00	0.00		High Fe Grade Al 2.25-4%	6.00	0.00
	Low Fe Grade Al <2.25%	28.00	0.00				
	Low Fe Grade Al 2.25-4%	30.00	0.00				
1% Silica	High Fe Grade Si <4%	1.00	0.00	1% Silica	High Fe Grade Si <4%	1.50	0.00
	High Fe Grade Si 4-6.5%	19.00	0.00		High Fe Grade Si 4 - 6.5%	6.00	0.00
0.01% Phosphorus	Low Fe Grade	2.00	0.00	0.01% Phosphorus	High Fe Grade 0.09%<P<0.115%	0.00	0.00
	High Fe Grade 0.09%<P<0.115%	2.00	0.00		High Fe Grade 0.115%<P<0.15%	0.50	0.00
	High Fe Grade 0.115%<P<0.15%	2.00	0.00		Low Fe Grade 0.09%<P<0.1%	3.00	0.00

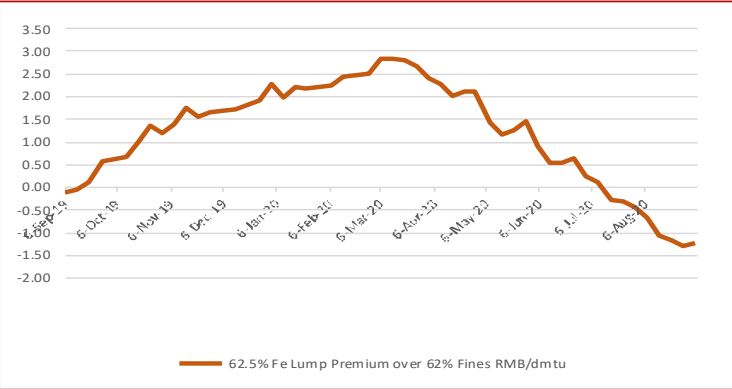
## Port Stock Price Differentials to Qingdao Port for PB Fines (RMB/wet tonne)

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

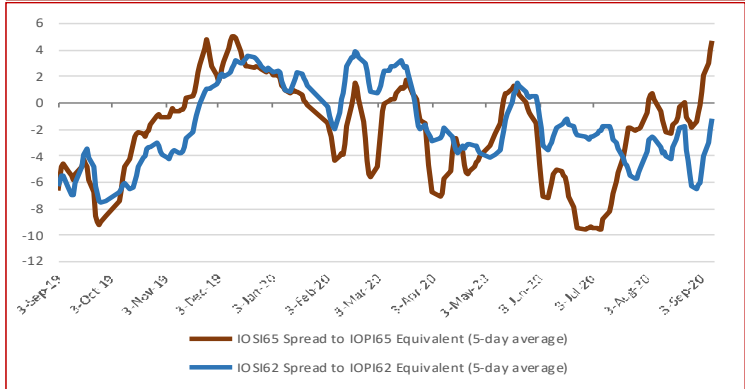
IRON ORE INDEX PREMIUMS/DISCOUNTS



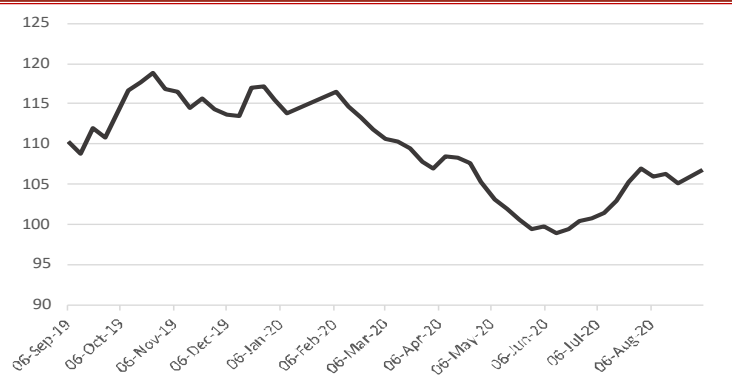
WEEKLY IRON ORE PORT STOCK LUMP PREMIUM (RMB/DMTU)



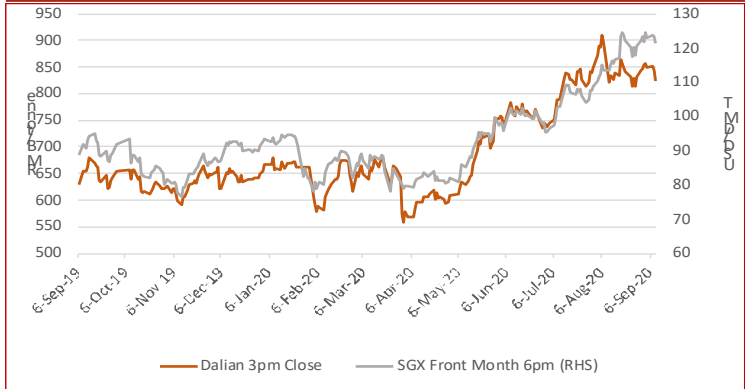
IRON ORE SEABORNE TO PORT STOCK PRICE SPREADS (USD/DMT)



TOTAL IRON ORE INVENTORIES AT CHINA PORTS (MILLION TONNES)



FUTURE TRADING—FRONT MONTH CLOSING PRICE



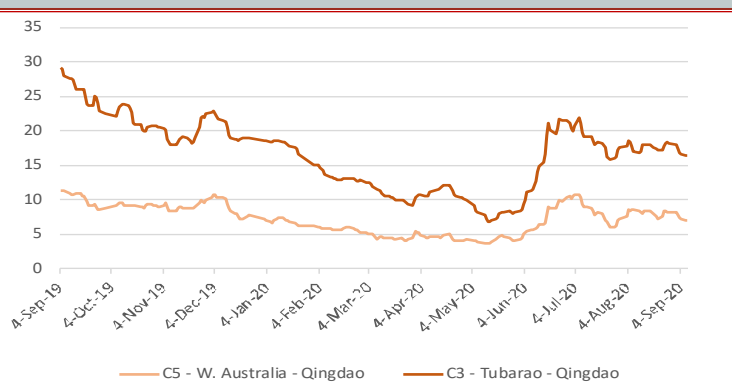
IRON ORE PORT INVENTORIES (MILLION TONNES)

Week Ending September 4th, 2020				
Province	This week	Change %	Low <sup>2</sup>	High <sup>2</sup>
Jingtang	15.45	1.44%	11.97	17.00
Qingdao	11.39	0.89%	9.41	14.00
Caofeidian	13.41	6.77%	12.46	16.78
Tianjin	8.40	2.69%	6.37	8.40
Rizhao	11.04	-1.16%	9.44	14.02
<b>Total (35 Ports)</b>	<b>106.65</b>	<b>0.72%</b>	<b>98.80</b>	<b>118.79</b>

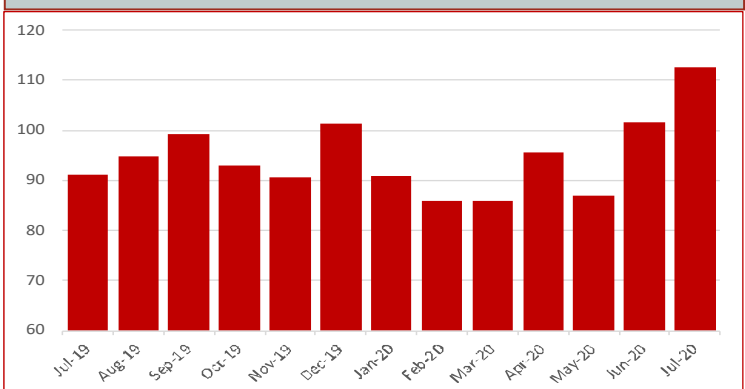
IRON ORE FUTURES CONTRACTS

Closing Date	DCE (RMB/WMT)			SGX (USD/DMT)		
	Sep 9th, 3:00 pm close			Sep 9th, 5:30 pm		
Contract	I2101	Change	Change %	Oct '20	Change	Change %
Closing Price	824.50	-19.5	-2.31%	121.20	-2.28	-1.85%
Vol traded ('000 lots)	119.92	41.73	53.36%	20.14	8.59	74.39%
Open positions ('000 lots)	72.51	1.86	2.63%	186.41	2.52	1.37%
Day Low	824.0	-17.0	-2.02%	120.40	-1.95	-1.59%
Day High	858.0	-6.5	-0.75%	123.43	-1.77	-1.41%

DRY BULK FREIGHT RATES (USD/MT)



TOTAL CHINA IRON ORE IMPORT VOLUMES (MILLION TONNES)

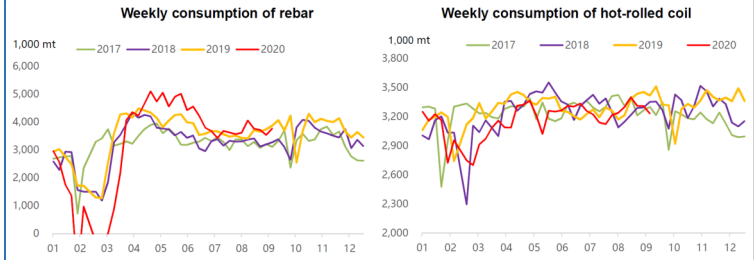


STEEL SPOT MARKET PRICES—CHINA

Steel Spot Market RMB/tonne

Product	4/9/2020	Change	Change %
ReBar HRB400 φ18mm	3,750.0	50	1.35%
Wirerod Q300 φ6.5mm	4,060.0	60	1.50%
HRC Q235/SS400 5.5mm*1500*C	4,050.0	20	0.50%
CRC SPCC/ST12 1.0mm*1250*2500	4,720.0	90	1.94%
Medium & Heavy Plate Q235B 20mm	3,980.0	0	0.00%
GI ST02Z 1.0mm*1000*C	4,840.0	50	1.04%
Colour Coated Plate	7,600.0	0	0.00%

CHINESE STEEL CONSUMPTION



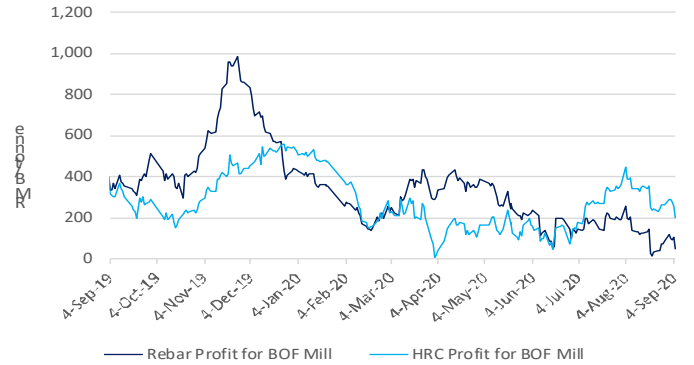
CHINESE STEEL MILL PROFITABILITY

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

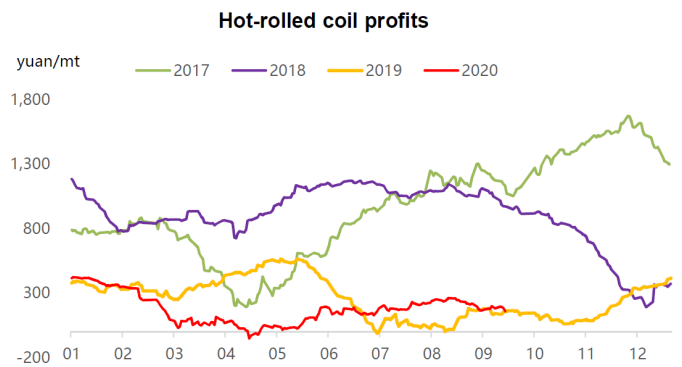
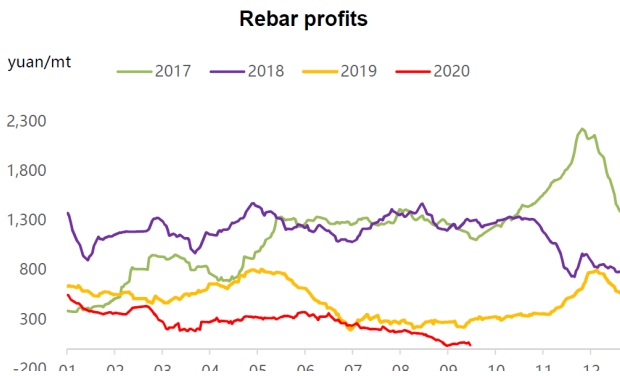
Category	Price	Change (WoW)	Note
MMi (Fe 62%), USD/mt excluding tax	131.60	7.90	Mmi CFR Equivalent index for 1st Feb
Coke	1,910	0	2nd grade met coke, Tangshan, incl. tax
Steel Scrap	2,440	40	steel scrap (6mm) in Zhangjiagang, excl. tax
Billet Cost	2,534	82	Q234, incl. tax
Rebar cost - Blast furnace	3,763	82	calculated based on theoretical weight, incl. tax
Rebar profit - Blast furnace	48	-41	based on Shanghai prices, incl. tax
Hot-rolled coil cost - Blast furnace	3,851	82	based on actual weight, incl. tax
Hot-rolled coil profit - Blast furnace	199	-42	based on Shanghai prices, incl. tax

Note: 1.Costs in the table are calculated 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

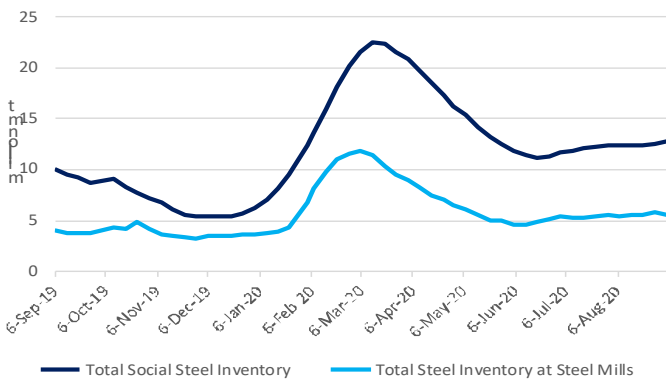
CHINESE STEEL MILL PROFITABILITY



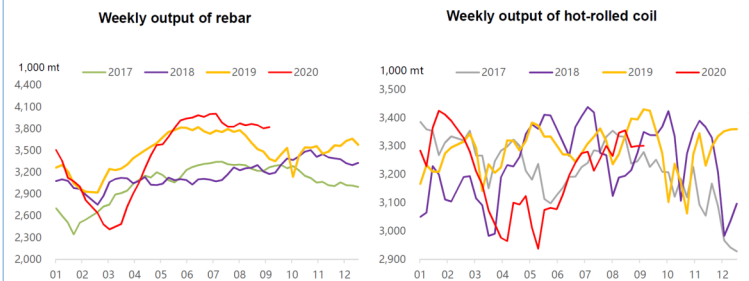
CHINESE STEEL MILL PROFITABILITY



CHINESE STEEL INVENTORIES



CHINESE STEEL PRODUCTION



## 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	

Data Exclusions*			
Port Index	62%	58%	65%
Seaborne Index	0	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					
September 9th, 2020	Specifications applied for 62% brand assessments					Specifications applied for 62% brand assessments					
	Fe	Alumina	Silica	Phos	Moisture		Fe	Alumina	Silica	Phos	Moisture
Roy Hill	60.95%	2.40%	4.34%	0.057%	9.43%	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	61.62%	2.33%	3.86%	0.100%	9.51%	PB Fines 62%	62.00%	2.60%	4.30%	0.090%	10.00%
Newman Fines	62.57%	2.38%	3.90%	0.092%	8.17%	Newman Fines	62.30%	2.40%	4.40%	0.090%	8.00%
MAC Fines	60.66%	2.33%	4.50%	0.082%	8.04%	MAC Fines	60.80%	2.35%	4.70%	0.080%	7.80%
Jimblebar Blended Fines	60.69%	3.08%	4.62%	0.113%	7.62%	Jimblebar Blended Fines	60.50%	3.00%	4.50%	0.120%	8.00%
Carajas Fines	65.06%	1.19%	1.87%	0.067%	8.15%	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	63.19%	1.17%	4.78%	0.082%	7.65%	Brazilian Blend Fines	63.00%	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%

BLOOMBERG TICKERS					
PORT STOCK INDICES			SEABORNE INDICES		
	FOT Qingdao (RMB/wet tonne)	CFR Qingdao Equivalent (USD/dry tonne)		CFR Qingdao (USD/DMT)	
IOPI62	IRCNQ001	IRCNQ004	IOSI62	IRCN0034	
IOPI58	IRCNQ002	IRCNQ005	IOSI65	IRCN0035	
IOPI65	IRCNQ003	IRCNQ006			
IOPLI62	IRCN0036	IRCN0037			

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