



# MMi Dashboard

## Iron Ore Price Indices

Iron Ore Port Stock (FOT Qingdao)  
IOPI62 62% Fe Fines RMB/t

HOLIDAY

Oct 6th, 2021

Iron Ore Port Stock (FOT Qingdao)  
IOPI65 65% Fe Fines RMB/t

HOLIDAY

Oct 6th, 2021

Iron Port Stock (FOT Qingdao)  
IOPI58 58% Fe Fines RMB/t

HOLIDAY

Oct 6th, 2021

Iron Ore Seaborne (CFR Qingdao)  
IOSI62 62% Fe Fines USD/dmt

**122.20**

0.00 0.00%

Oct 6th, 2021

Iron Ore Seaborne (CFR Qingdao)  
IOSI65 65% Fe Fines USD/dmt

**140.65**

0.00 0.00%

Oct 6th, 2021

Iron Ore Port Stock (FOT Qingdao)  
IOPLI 62.5% Fe Lump RMB/t

**910**

30 3.41%

Month Ending Sep 30th,2021

## Exchange Traded Contracts

DCE Iron Ore 62% Fines  
I2201 (Jan) RMB/t (3pm close)

HOLIDAY

Oct 6th, 2021 (3pm close)

SGX Iron Ore (CFR Qingdao) 62% Fe Fines  
November 21 USD/dmt

**116.80**

2.20 1.92%

Oct 6th, 2021 (5.30 pm Print)

SHFE Rebar  
RB2201 (Jan) RMB/t

HOLIDAY

Oct 6th, 2021 (3pm close)

## Freight Rates

C3, Tubarao - Qingdao USD/t

HOLIDAY

Oct 5th, 2021

C5, W. Australia - Qingdao USD/t

HOLIDAY

Oct 5th, 2021

## Steel Price

Steel Rebar (China Domestic) RMB/t

**5900**

50 0.85%

Month Ending Sep 30th,2021

## Inventory Levels

Iron Ore Inventory at Chinese Ports (35)  
million tonnes

**130.78**

3.43 2.69%

Month Ending Sep 30th,2021

Steel Inventory in China  
million tonnes

**14.02**

-1.81 -11.43%

Month Ending Sep 30th,2021

## Steel Price

Steel HRC (China Domestic) RMB/t

**5770**

70 1.23%

Month Ending Sep 30th,2021

IRON ORE PORT STOCK INDEX (IOPI)

Oct 6th, 2021		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	HOLIDAY							HOLIDAY						
IOPI58	58% Fe Fines	HOLIDAY							HOLIDAY						
IOPI65	65% Fe Fines	HOLIDAY							HOLIDAY						

IRON ORE SEABORNE INDEX (IOSI)

MARKET COMMENTARY

Oct 6th, 2021		CFR Qingdao, USD/dry tonne							DCE iron ore futures continued to rise largely today, main contract has increased to around 5.4%; the spot quotation has increased by around 20yuan/mt over yesterday. Few steel mills continued to buy today on their demand, the last day before National Day Holiday, overall market deal atmosphere was quite less. PBF at Shandong port dealt 845yuan/mt, up 20-25yuan/mt over yesterday. Recently, some hold the opinion that energy consumption control still focus on EAF rather than BF's, and simulated by raw materials replenishment before and after National Day Holiday, iron ore has a space to increase recently. But, considering some steels plan to overhaul or close their BF's until the end of December this year to meet the requirement of crude steel production restrictions. The actual production restriction still should pay more attention after National Day Holiday.							
Index	Fe Content	Price	Change	Change %	MTD	YTD	Low <sup>2</sup>	High <sup>2</sup>								
IOSI62	62% Fe Fines	122.20	0.00	0.00%	122.20	178.29	112.75	230.50								
IOSI65	65% Fe Fines	140.65	0.00	0.00%	140.65	206.03	131.15	262.95								

IRON ORE PORT LUMP INDEX (IOPLI)

Month Ending Sep 30th,2021		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	910	30	3.4%	1065	1505	886	1868	125.66	4.23	3.48%	147.90	209.48	118.00	262.00

IRON ORE DOMESTIC CONCENTRATE SPOT PRICE ASSESSMENTS AND COMPOSITE INDEX

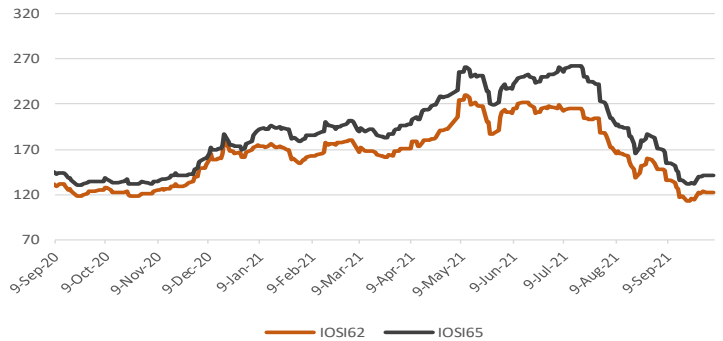
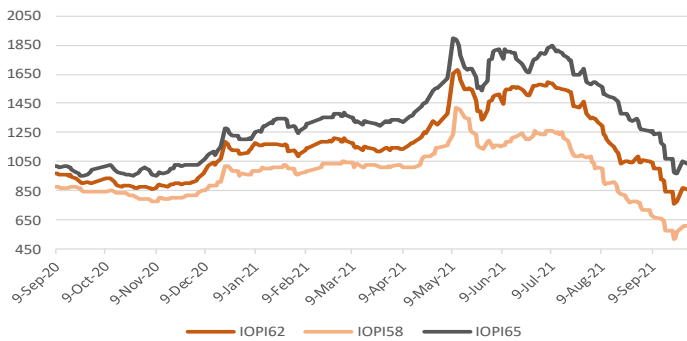
Month Ending Sep 30th,2021				RMB/tonne (excluding tax) <sup>3</sup>				USD/tonne (excluding tax) <sup>3</sup>			
Province	Region	Product	Basis	This week	Change %	Low <sup>2</sup>	High <sup>2</sup>	This week	Change %	Low <sup>2</sup>	High <sup>2</sup>
Hebei	Hanxing	66% Fe Concentrate	Dry	890	-6.3%	779	1645	137.59	-6.32%	110.31	255.69
Hebei	Qian'an	65% Fe Concentrate	Dry	1070	5.4%	780	1630	165.42	5.41%	110.51	251.57
Liaoning	Anshan	65% Fe Concentrate	Wet	880	0.0%	620	1310	136.05	-0.01%	87.40	202.32
Shandong	Zibo	65% Fe Concentrate	Dry	890	-8.7%	865	1752	137.59	-8.72%	122.55	272.32

Month Ending Sep 30th,2021	This week	Change %	Low <sup>2</sup>	High <sup>2</sup>	<sup>1</sup> Exchange rate applied: RMB/USD = 6.4934 <sup>2</sup> Last 12 months <sup>3</sup> Weekly exchange rate applied: RMB/USD 6.5044	
China Mines Concentrate Composite Index RMB/WT	968.33	-5.48%	706.36	1511.22		

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

Oct 6th, 2021		FOT Qingdao (inc. 13% VAT), RMB/wet tonne							CFR Qingdao Equivalent (exc. 13% VAT), USD/dry tonne						
Index	Fe Content	June	July	August	September	MTD	QTD	YTD	June	July	August	September	MTD	QTD	YTD
IOPI62	62% Fe Fines	1524	1519	1174	937	HOLIDAY			221.54	170.18	135.90	135.31	HOLIDAY		
IOPI58	58% Fe Fines	1199	1186	894	648	HOLIDAY			173.94	130.00	93.62	93.31	HOLIDAY		
IOPI65	65% Fe Fines	1756	1750	1466	1152	HOLIDAY			255.79	213.59	214.41	214.06	HOLIDAY		

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

FREIGHT RATES

Oct 6th, 2021		CFR Qingdao, USD/dry tonne							Oct 5th, 2021							
Index	Fe Content	June	July	August	September	MTD	QTD	YTD	Route		Designation	Change	Change %	Low <sup>2</sup>	High <sup>2</sup>	
IOSI62	62% Fe Fines	213.90	211.65	162.80	128.43	122.20	122.20	178.29	W. Australia - Qingdao		C5	22.86	0.00	0.00%	3.57	16.77
IOSI65	65% Fe Fines	244.31	254.36	192.73	148.09	140.65	140.65	206.03	Tubarao - Qingdao		C3	45.88	0.00	0.00%	6.70	36.40

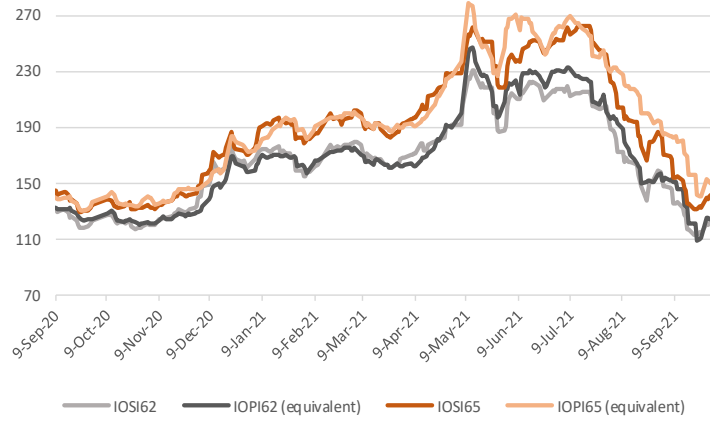
IRON ORE PORT LUMP INDEX MONTHLY, QUARTERLY AND YEAR-TO-DATE AVERAGES

Month Ending Sep 30th,2021		FOT Qingdao (inc. 13% VAT), RMB/wet tonne							CFR Qingdao Equivalent (exc. 13% VAT), USD/dry tonne <sup>1</sup>						
Index	Fe Content	June	July	August	September	MTD	QTD	YTD	June	July	August	September	MTD	QTD	YTD
IOPLI62	62.5% Fe Lump	1735	1816	1409	1065	1065	1431	1505	245.23	254.64	196.49	147.90	147.90	199.89	209.48

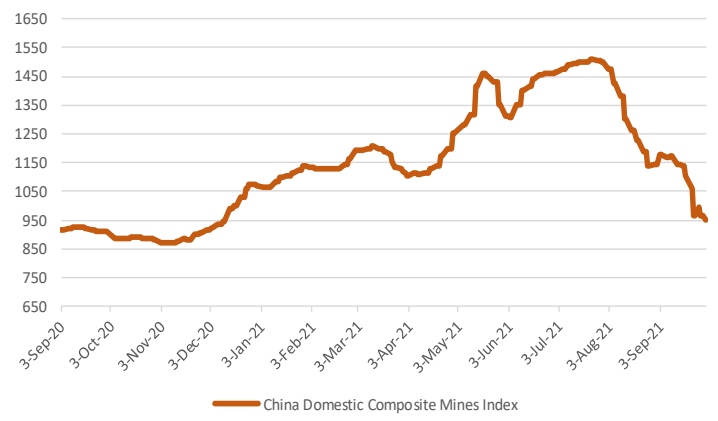
IRON ORE INDEX PREMIUMS/DISCOUNTS

Oct 6th, 2021				PORT STOCK INDEX (RMB/WT)		Oct 6th, 2021				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	-254		-29.36%		IOSI65	65% Fe Fines	18.45		15.10%	
IOPI65	65% Fe Fines	173		20.00%							

## IRON ORE INDEX COMPARISONS (USD/DMT)



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



## IRON ORE BRAND SPOT PRICE ASSESSMENTS

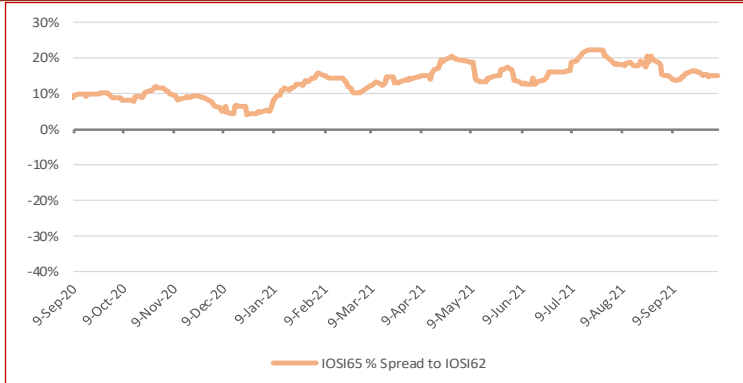
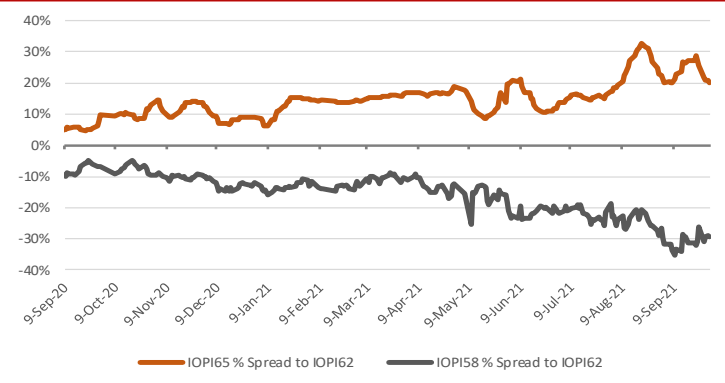
Oct 6th, 2021	PORT STOCK INDEX (RMB/WT)			Oct 6th, 2021	SEABORNE INDEX (USD/DMT)		
	Price	Change	Diff to IOPI62		Price	Change	Diff to IOSI62
Roy Hill				Roy Hill	118.45	0.00	-3.75
SIMEC Fines				SIMEC Fines	114.95	0.00	-7.25
PB Fines				PB Fines	121.70	0.00	-0.50
Newman Fines				Newman Fines	122.85	0.00	0.65
MAC Fines				MAC Fines	118.85	0.00	-3.35
Jimblebar Blended Fines				Jimblebar Blended Fines	112.20	0.00	-10.00
Carajas Fines				Carajas Fines	152.50	0.00	30.30
Brazilian SSF				Brazilian SSF	126.70	0.00	4.50
Brazilian Blend Fines				Brazilian Blend Fines	128.35	0.00	6.15
RTX Fines				RTX Fines	112.83	0.00	-9.37
West Pilbara Fines				West Pilbara Fines	117.20	0.00	-5.00
	HOLIDAY						
Oct 6th, 2021	PORT STOCK INDEX (RMB/WT)						
	Price	Change	Diff to IOPI58				
SSF							
FMG Blended Fines							
Robe River							
Western Fines							
Atlas Fines							
Yandi							
	HOLIDAY						

## IRON ORE INDEX NORMALISATION DIFFERENTIALS

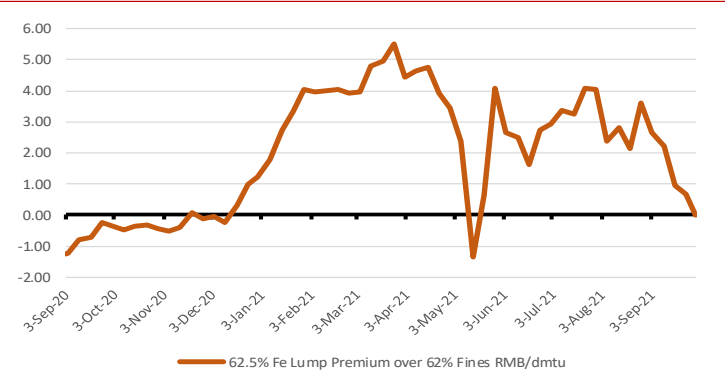
Port Stock Index Product Differentials (RMB/wet tonne)				Seaborne Index Product Differentials (USD/dry tonne)				
	Applicable range	Value	Change		Applicable range	Value	Change	
1% Fe	High Grade Fe 60 - 63%			1% Fe	High Grade Fe 60 - 63%	4.50	0.00	
	High Grade Fe 63 - 64%				High Grade Fe 63 - 64%	3.00	0.00	
	High Grade Fe 64 - 65%				High Grade Fe 64 - 65%	3.00	0.00	
	High Grade Fe 65 - 65.5%				High Grade Fe 65 - 65.5%	3.00	0.00	
1% Alumina	Low Grade Fe			1% Alumina	High Fe Grade Al <2.25%	0.25	0.00	
	High Fe Grade Al <2.25%				High Fe Grade Al 2.25-4%	2.75	0.00	
	High Fe Grade Al 2.25-4%							
	Low Fe Grade Al <2.25%							
1% Silica	Low Fe Grade Al 2.25-4%			1% Silica	High Fe Grade Si <4%	3.00	0.00	
	High Fe Grade Si <4%				High Fe Grade Si 4 - 6.5%	9.50	0.00	
0.01% Phosphorus	High Fe Grade Si 4-6.5%			0.01% Phosphorus	High Fe Grade 0.09%<P<0.115%	0.25	0.00	
	Low Fe Grade				High Fe Grade 0.115%<P<0.15%	0.25	0.00	
	High Fe Grade 0.09%<P<0.115%				Low Fe Grade 0.09%<P<0.1%			
	High Fe Grade 0.115%<P<0.15%							
	Low Fe Grade 0.09%<P<0.1%							

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	-100.00	0.00	Fangcheng	-25.00	0.00	Lanshan	0.00	0.00	Rizhao	0.00	0.00
Beilun	0.00	0.00	Jiangyin	-95.00	0.00	Lianyungang	0.00	0.00	Shekou	0.00	0.00
Caofeidian	-20.00	0.00	Jingtang	-20.00	0.00	Majishan	0.00	0.00	Taichang	-95.00	0.00
Dalian	0.00	0.00	Lanqiao	0.00	0.00	Qingdao	0.00	0.00	Tianjin	-40.00	0.00

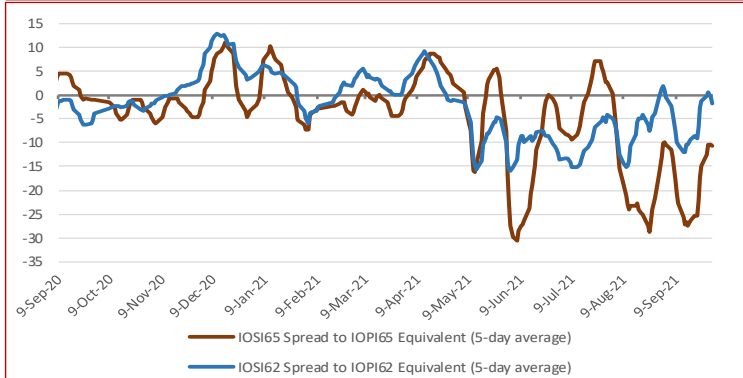
IRON ORE INDEX PREMIUMS/DISCOUNTS



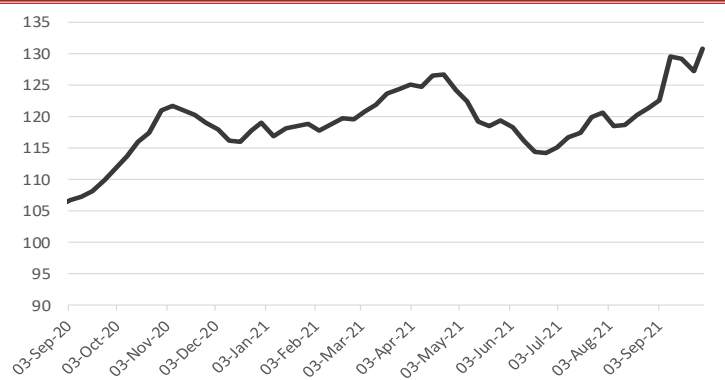
WEEKLY IRON ORE PORT STOCK LUMP PREMIUM (RMB/DMTU)



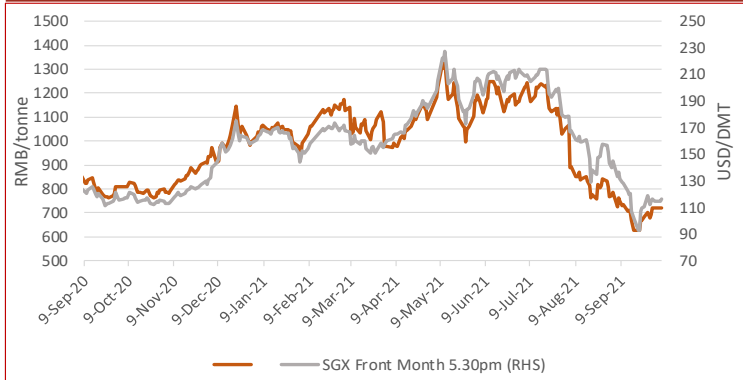
IRON ORE SEABORNE TO PORT STOCK PRICE SPREADS (USD/DMT)



TOTAL IRON ORE INVENTORIES AT CHINA PORTS (MILLION TONNES)



FUTURE TRADING—FRONT MONTH CLOSING PRICE



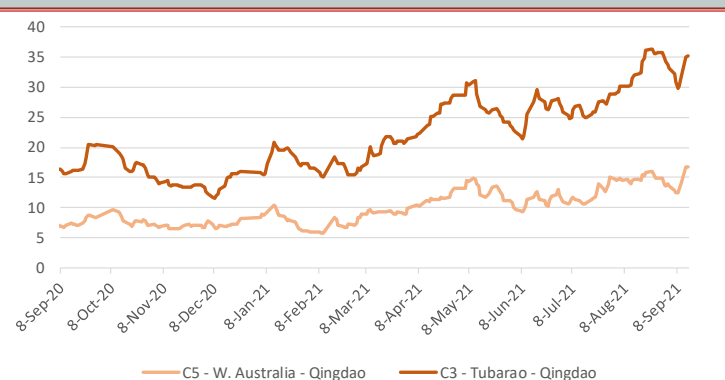
IRON ORE PORT INVENTORIES (MILLION TONNES)

Month Ending Sep 30th, 2021				
Province	This week	Change %	Low <sup>2</sup>	High <sup>2</sup>
Jingtang	16.80	1.76%	12.26	19.20
Qingdao	21.68	0.93%	9.41	21.68
Caofeidian	12.12	7.73%	11.25	16.25
Tianjin	10.08	1.00%	7.14	11.28
Rizhao	13.21	4.51%	9.44	14.22
<b>Total (35 Ports)</b>	<b>130.78</b>	<b>2.69%</b>	<b>98.80</b>	<b>130.78</b>

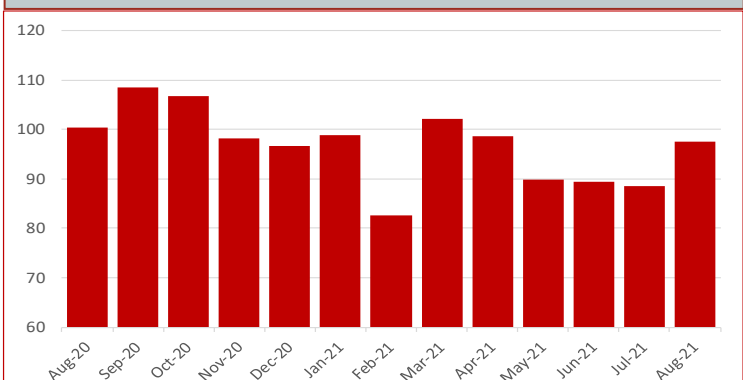
IRON ORE FUTURES CONTRACTS

Closing Date	DCE (RMB/WMT)			SGX (USD/DMT)		
	I2201	Change	Change %	Nov. 21	Change	Change %
Oct 6th, 3pm close						
Contract						
Closing Price				116.80	2.20	1.92%
Vol traded ('000 lots)				0.40	0.24	142.42%
Open positions ('000 lots)	HOLIDAY			17.24	0.97	5.99%
Day Low				116.30	3.80	3.38%
Day High				118.85	2.16	1.85%

DRY BULK FREIGHT RATES (USD/MT)



TOTAL CHINA IRON ORE IMPORT VOLUMES (MILLION TONNES)



STEEL SPOT MARKET PRICES—CHINA

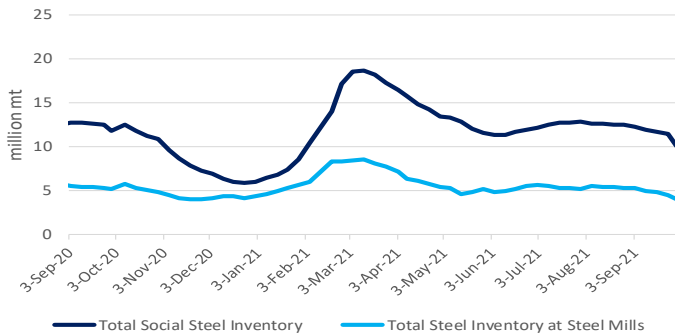
Steel Spot Market RMB/tonne			
Product	2021/10/1	Change	Change %
ReBar HRB400 φ18mm	5,900	50	0.85%
Wirerod Q300 φ6.5mm	6,250	50	0.81%
HRC Q235/SS400 5.5mm*1500*C	5,770	70	1.23%
CRC SPCC/ST12 1.0mm*1250*2500	6,500	10	0.15%
Medium & Heavy Plate Q235B 20mm	5,710	70	1.24%
GI ST02Z 1.0mm*1000*C	6,740	980	17.01%
Colour Coated Plate	8,900	50	0.56%

CHINESE STEEL MILL PROFITABILITY

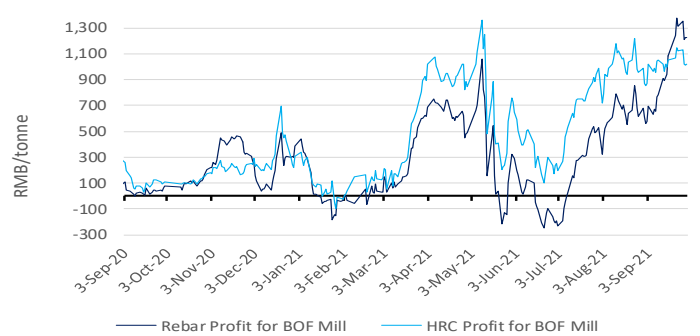
SMM Tracking of Steel Mill P&L - Rebar and Hot-rolled Coil (RMB/tonne)			
Category	Price	Change (WoW)	Note
MMi (Fe 62%), USD/mt excluding tax	121.60	7	Mmi CFR Equivalent index for 1st Feb
Coke	4,210	0	2nd grade met coke, Tangshan, incl. tax
Steel Scrap	3,620	70	steel scrap (6mm) in Zhangjiagang, excl. tax
Billet Cost	4,456	157	Q234, incl. tax
Rebar cost - Blast furnace	4,757	176	calculated based on theoretical weight, incl. tax
Rebar profit - Blast furnace	1,227	-84	based on Shanghai prices, incl. tax
Hot-rolled coil cost - Blast furnace	4,736	157	based on actual weight, incl. tax
Hot-rolled coil profit - Blast furnace	1,023	-97	based on Shanghai prices, incl. tax

Note: 1. Costs in the table are calculated based on today's market prices and factored 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

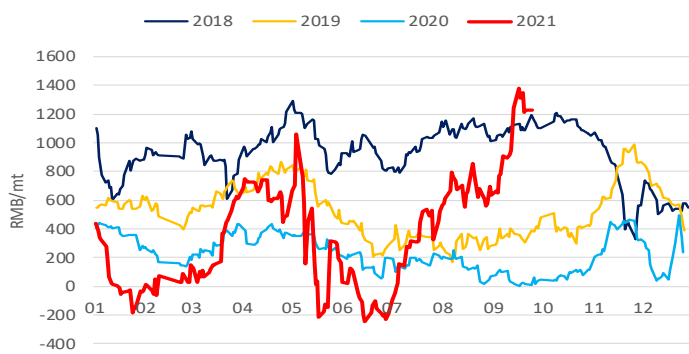
CHINESE STEEL INVENTORIES



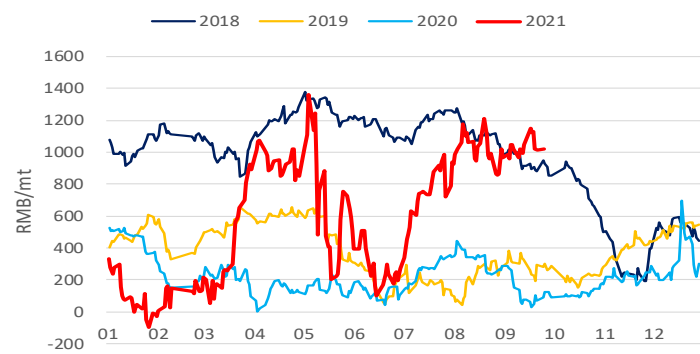
CHINESE STEEL MILL PROFITABILITY



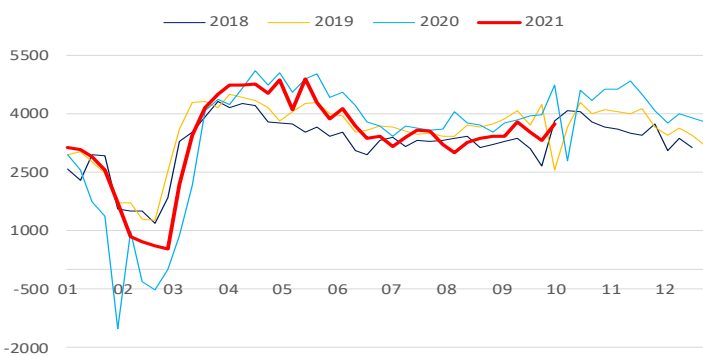
CHINESE STEEL MILL PROFITABILITY—Rebar



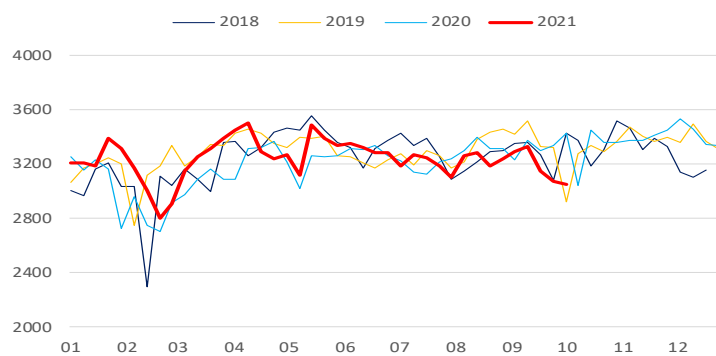
CHINESE STEEL MILL PROFITABILITY—Hot-rolled Coil



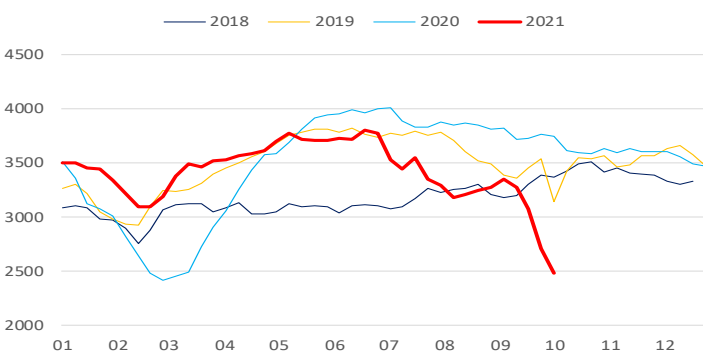
CHINESE STEEL CONSUMPTION—Rebar



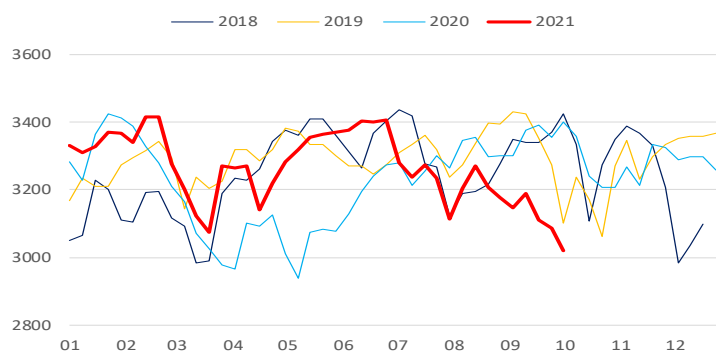
CHINESE STEEL CONSUMPTION—Hot-rolled Coil



CHINESE STEEL PRODUCTION—Rebar



CHINESE STEEL PRODUCTION—Hot-rolled Coil



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

Iron Ore Index Specifications (Port and Seaborne)					Iron Ore Index Compilation Rationale and Data Exclusions
	65% Fe Fines	62% Fe Fines	58% Fe Fines	62.5% Fe Lump	
Fe %	65.00	62.00	58.00	62.50	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>
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>
					Port Index
					Seaborne index
					Lump Index 62.5
					* 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					
Oct 6th, 2021	Specifications applied for 62% brand assessments						Specifications applied for 62% brand assessments				
	Fe	Alumina	Silica	Phos	Moisture		Fe	Alumina	Silica	Phos	Moisture
Roy Hill	60.88%	2.35%	4.45%	0.055%	9.26%	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	61.64%	2.31%	3.87%	0.099%	9.45%	PB Fines 62%	62.00%	2.60%	4.30%	0.090%	9.50%
Newman Fines	62.49%	2.31%	3.98%	0.090%	7.72%	Newman Fines	62.30%	2.40%	4.40%	0.090%	8.00%
MAC Fines	60.43%	2.38%	4.64%	0.078%	7.57%	MAC Fines	60.80%	2.35%	4.70%	0.080%	7.80%
Jimblebar Blended Fines	60.87%	2.95%	4.53%	0.111%	7.32%	Jimblebar Blended Fines	60.50%	3.00%	4.50%	0.120%	8.00%
Carajas Fines	64.90%	1.39%	1.82%	0.080%	7.78%	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	62.56%	1.58%	4.79%	0.091%	8.72%	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%
Oct 6th, 2021	Specifications applied for 58% brand assessments										
	Fe	Alumina	Silica	Phos	Moisture						
SSF	56.49%	3.20%	6.19%	0.065%	9.18%						
FMG Blended Fines	58.20%	2.43%	5.54%	0.057%	8.29%						
Robe River	56.44%	3.16%	5.73%	0.042%	8.44%						
Western Fines	57.88%	2.87%	7.50%	0.062%	7.45%						
Atlas Fines	58.00%	1.85%	5.50%	0.090%	9.00%						
Yandi	56.87%	1.58%	6.41%	0.042%	9.53%						

## 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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