



MMi Dashboard

Iron Ore Price Indices

Iron Ore Port Stock (FOT Qingdao) IOPI62 62% Fe Fines RMB/t	
	918
-8	-0.86%
Sep 16th, 2021	

Iron Ore Port Stock (FOT Qingdao) IOPI65 65% Fe Fines RMB/t	
	1159
-10.00	-0.86%
Sep 16th, 2021	

Iron Port Stock (FOT Qingdao) IOPI58 58% Fe Fines RMB/t	
	647
-7	-1.07%
Sep 16th, 2021	

Iron Ore Seaborne (CFR Qingdao) IOSI62 62% Fe Fines USD/dmt	
	117.35
-8.60	-6.83%
Sep 16th, 2021	

Iron Ore Seaborne (CFR Qingdao) IOSI65 65% Fe Fines USD/dmt	
	135.80
-8.80	-6.09%
Sep 16th, 2021	

Iron Ore Port Stock (FOT Qingdao) IOPLI 62.5% Fe Lump RMB/t	
	1225
-53	-4.15%
Week Ending Sep 10th, 2021	

Exchange Traded Contracts

DCE Iron Ore 62% Fines I2201 (Jan) RMB/t (3pm close)	
	670.50
-33.50	-4.76%
Sep 16th, 2021 (3pm close)	

SGX Iron Ore (CFR Qingdao) 62% Fe Fines October 21 USD/dmt	
	107.25
-13.40	-11.11%
Sep 16th, 2021 (5.30 pm Print)	

SHFE Rebar RB2201 (Jan) RMB/t	
	5541
23	0.42%
Sep 16th, 2021 (3pm close)	

Freight Rates

C3, Tubarao - Qingdao USD/t	
	35.16
-0.12	-0.33%
Sep 15th, 2021	

C5, W. Australia - Qingdao USD/t	
	16.21
-0.57	-3.39%
Sep 15th, 2021	

Steel Price

Steel Rebar (China Domestic) RMB/t	
	5510
170	3.18%
Week Ending Sep 10th, 2021	

Inventory Levels

Iron Ore Inventory at Chinese Ports (35) million tonnes	
	129.62
7.07	5.77%
Week Ending Sep 10th, 2021	

Steel Inventory in China million tonnes	
	16.89
-0.60	-3.42%
Week Ending Sep 10th, 2021	

Steel Price

Steel HRC (China Domestic) RMB/t	
	5900
100	1.72%
Week Ending Sep 10th, 2021	

IRON ORE PORT STOCK INDEX (IOPI)

Sep 16th, 2021		FOT Qingdao (inc. 13% VAT), RMB/wet tonne							CFR Qingdao Equivalent (exc. 13% VAT), USD/dry tonne ¹						
Index	Fe Content	Price	Change	Change %	MTD	YTD	Low ²	High ²	Price	Change	Change %	MTD	YTD	Low ²	High ²
IOPI62	62% Fe Fines	918	-8	-0.9%	1010	1282	864	1680	133.08	-0.86	-0.6%	146.39	186.43	120.10	247.30
IOPI58	58% Fe Fines	647	-7	-1.1%	694	1051	647	1421	93.57	-0.82	-0.9%	100.25	153.74	93.57	210.83
IOPI65	65% Fe Fines	1159	-10	-0.9%	1237	1488	950	1894	169.12	-1.07	-0.6%	180.20	217.10	130.19	278.61

IRON ORE SEABORNE INDEX (IOSI)

MARKET COMMENTARY

Sep 16th, 2021		CFR Qingdao, USD/dry tonne							DCE iron ore futures market continued falling trends and I201 recorded new low of 660yuan/mt. Quotations in the physical port stock market declined by 30-35yuan/mt in the morning, some traders tended to clinch deals while others showed little enthusiasm in offering prices given the higher costs. Steel mills remained purchase on-demands and the transaction volumes maintained relatively low. PBF was closed at 835-845yuan/mt in Shandong market and that in Tianjin was 880-890yuan/mt, with price down of 35-45yuan/mt. According to SMM, about 11 steel mills from Jiangsu province successively started their maintenance on blast furnaces, with daily pig iron production cuts averaged 50,000 mt, and pig iron demands are expected to decrease 85,000 mt per day. Some traders told SMM, they have little interests in purchasing at the moment due to the expectation of declining iron ore demands. Meanwhile, they also performed to be relatively pessimistic on steel mills' restocking before the upcoming Mid-Autumn Festival and National Day holidays. Some steel mills still see bearish of the iron ore prices in the near future.						
Index	Fe Content	Price	Change	Change %	MTD	YTD	Low ²	High ²							
IOSI62	62% Fe Fines	117.35	-8.60	-6.83%	137.83	182.04	117.35	230.50							
IOSI65	65% Fe Fines	135.80	-8.80	-6.09%	158.51	210.35	129.60	262.95							

IRON ORE PORT LUMP INDEX (IOPLI)

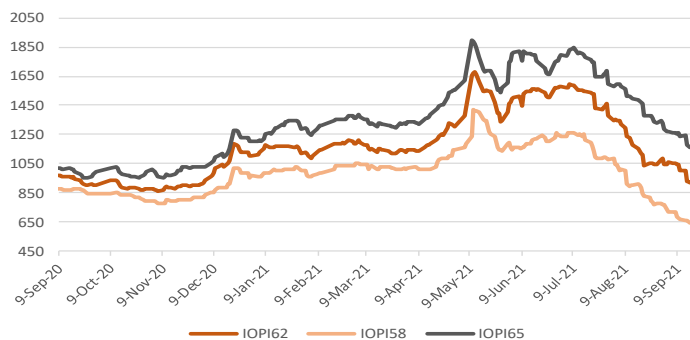
Week Ending Sep 10th, 2021		FOT Qingdao (inc. 13% VAT), RMB/wet tonne							CFR Qingdao Equivalent (exc. 13% VAT), USD/dry tonne ³						
Index	Fe Content	Price	W-o-W	Change %	MTD	YTD	Low ²	High ²	Price	W-o-W	Change %	MTD	YTD	Low ²	High ²
IOPLI62	62.5% Fe Lump	1225	-53	-4.1%	1252	1533	886	1868	171.00	-7.26	-4.07%	174.78	210.36	118.00	262.00

IRON ORE DOMESTIC CONCENTRATE SPOT PRICE ASSESSMENTS AND COMPOSITE INDEX

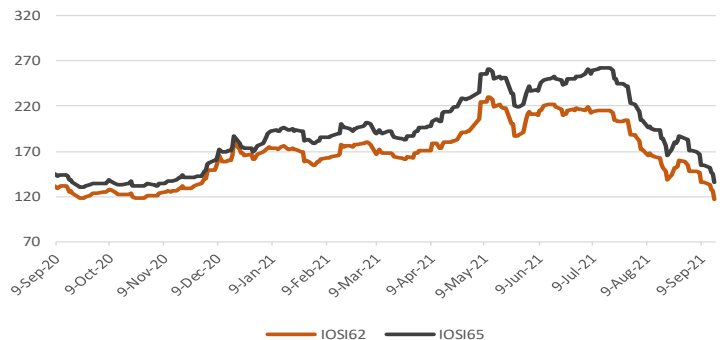
Week Ending Sep 10th, 2021				RMB/tonne (excluding tax) ³				USD/tonne (excluding tax) ³			
Province	Region	Product	Basis	This week	Change %	Low ²	High ²	This week	Change %	Low ²	High ²
Hebei	Hanxing	66% Fe Concentrate	Dry	1150	-1.0%	779	1645	178.05	-0.95%	110.31	255.69
Hebei	Qian'an	65% Fe Concentrate	Dry	1350	3.8%	780	1630	209.01	3.93%	110.51	251.57
Liaoning	Anshan	65% Fe Concentrate	Wet	1050	0.0%	620	1310	162.57	0.08%	87.40	202.32
Shandong	Zibo	65% Fe Concentrate	Dry	1200	-1.6%	865	1752	185.79	-1.56%	122.55	272.32
Week Ending Sep 10th, 2021				This week	Change %	Low ²	High ²				
China Mines Concentrate Composite Index RMB/WT				1171.26	1.29%	706.36	1511.22				

¹ Exchange rate applied: RMB/USD = 6.4934 ² Last 12 months
³ Weekly exchange rate applied: RMB/USD 6.5044

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

Sep 16th, 2021		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	1511	1524	1519	1174	1010	1274	1282	221.74	224.01	221.54	170.18	146.39	185.26	186.43
IOPI58	58% Fe Fines	1267	1199	1186	894	694	966	1051	187.31	177.34	173.94	130.00	100.25	140.89	153.74
IOPI65	65% Fe Fines	1693	1756	1750	1466	1237	1529	1488	249.00	258.78	255.79	213.59	217.10	223.02	217.10

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

FREIGHT RATES

Sep 16th, 2021		CFR Qingdao, USD/dry tonne							Sep 15th, 2021						
Index	Fe Content	May	June	July	August	MTD	QTD	YTD	Route	Designation	Change	Change %	Low ²	High ²	
IOSI62	62% Fe Fines	208.38	213.90	211.65	162.80	137.83	176.25	182.04	W. Australia - Qingdao	C5	16.21	-0.57	-3.39%	3.57	16.77
IOSI65	65% Fe Fines	241.08	244.31	254.36	192.73	158.51	209.09	210.35	Tubarao - Qingdao	C3	35.16	-0.12	-0.33%	6.70	36.40

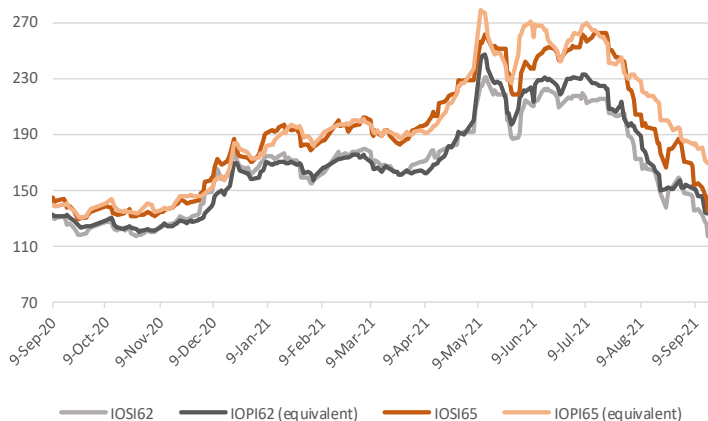
IRON ORE PORT LUMP INDEX MONTHLY, QUARTERLY AND YEAR-TO-DATE AVERAGES

Week Ending Sep 10th, 2021		FOT Qingdao (inc. 13% VAT), RMB/wet tonne							CFR Qingdao Equivalent (exc. 13% VAT), USD/dry tonne ¹						
Index	Fe Content	May	June	July	August	MTD	QTD	YTD	May	June	July	August	MTD	QTD	YTD
IOPLI62	62.5% Fe Lump	1665	1735	1816	1409	1252	1565	1533	234.20	245.23	254.64	196.49	174.78	218.98	210.36

IRON ORE INDEX PREMIUMS/DISCOUNTS

Sep 16th, 2021		PORT STOCK INDEX (RMB/WT)		Sep 16th, 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	-271	-29.52%	IOSI65	65% Fe Fines	18.45	15.72%
IOPI65	65% Fe Fines	241	26.25%				

IRON ORE INDEX COMPARISONS (USD/DMT)



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



IRON ORE BRAND SPOT PRICE ASSESSMENTS

Sep 16th, 2021	PORT STOCK INDEX (RMB/WT)			Sep 16th, 2021	SEABORNE INDEX (USD/DMT)		
	Price	Change	Diff to IOPI62		Price	Change	Diff to IOSI62
Roy Hill	868	-8	-50	Roy Hill	112.95	-8.50	-4.40
SIMEC Fines	869	-2	-49	SIMEC Fines	109.35	-8.60	-8.00
PB Fines	887	-10	-31	PB Fines	116.10	-8.60	-1.25
Newman Fines	931	-10	13	Newman Fines	117.25	-8.60	-0.10
MAC Fines	870	-7	-48	MAC Fines	113.25	-8.60	-4.10
Jimblebar Blended Fines	813	-7	-105	Jimblebar Blended Fines	106.60	-8.60	-10.75
Carajas Fines	1144	-17	226	Carajas Fines	146.90	-8.60	29.55
Brazilian SSF	964	-15	46	Brazilian SSF	121.10	-8.60	3.75
Brazilian Blend Fines	941	-14	23	Brazilian Blend Fines	122.75	-8.60	5.40
RTX Fines	802	-8	-116	RTX Fines	107.25	-8.60	-10.10
West Pilbara Fines	856	-8	-62	West Pilbara Fines	111.60	-8.60	-5.75
Sep 16th, 2021	PORT STOCK INDEX (RMB/WT)						
	Price	Change	Diff to IOPI58				
SSF	646	-7	-1				
FMG Blended Fines	652	-7	5				
Robe River	651	-7	4				
Western Fines	658	-7	11				
Atlas Fines	647	-7	0				
Yandi	643	-7	-4				

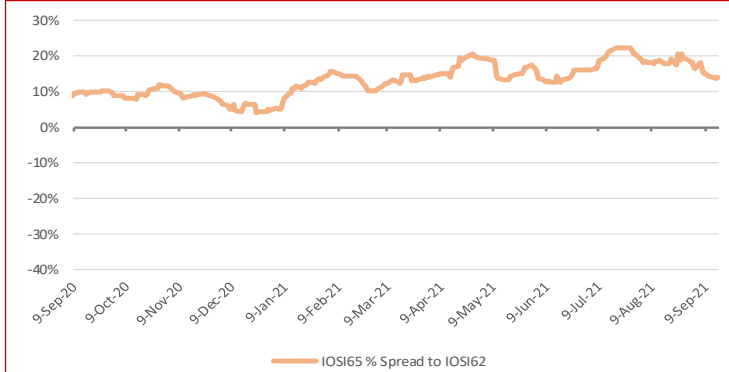
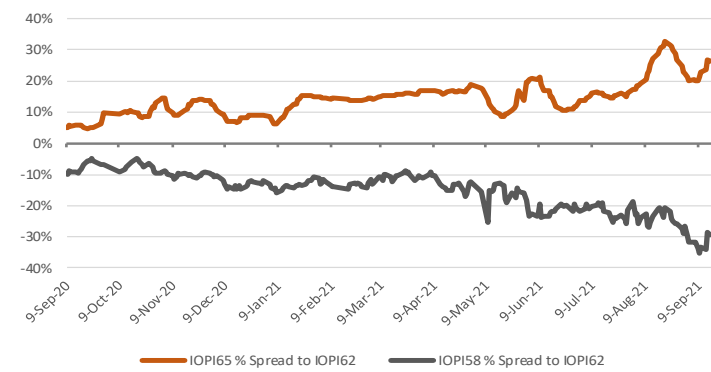
IRON ORE INDEX NORMALISATION DIFFERENTIALS

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%	27.00	0.00	1% Fe	High Grade Fe 60 - 63%	4.50	0.00
	High Grade Fe 63 - 64%	38.00	1.00		High Grade Fe 63 - 64%	3.00	0.00
	High Grade Fe 64 - 65%	38.00	1.00		High Grade Fe 64 - 65%	3.00	0.00
	High Grade Fe 65 - 65.5%	38.00	1.00		High Grade Fe 65 - 65.5%	3.00	0.00
1% Alumina	Low Grade Fe	9.00	1.00	1% Alumina	High Fe Grade Al <2.25%	0.50	0.00
	High Fe Grade Al <2.25%	30.00	-5.00		High Fe Grade Al 2.25-4%	2.75	0.25
	High Fe Grade Al 2.25-4%	49.00	-3.00				
	Low Fe Grade Al <2.25%	75.00	-3.00				
1% Silica	Low Fe Grade Al 2.25-4%	25.00	2.00	1% Silica	High Fe Grade Si <4%	3.00	0.00
	High Fe Grade Si <4%	45.00	0.00		High Fe Grade Si 4 - 6.5%	9.00	0.00
	High Fe Grade Si 4 - 6.5%	5.00	0.00				
	Low Fe Grade	6.00	1.00				
0.01% Phosphorus	High Fe Grade 0.09%<P<0.115%	11.00	0.00	0.01% Phosphorus	High Fe Grade 0.09%<P<0.115%	0.50	0.00
	High Fe Grade 0.115%<P<0.15%	11.00	0.00		High Fe Grade 0.115%<P<0.15%	0.25	0.00
	Low Fe Grade 0.09%<P<0.1%	5.00	0.00				

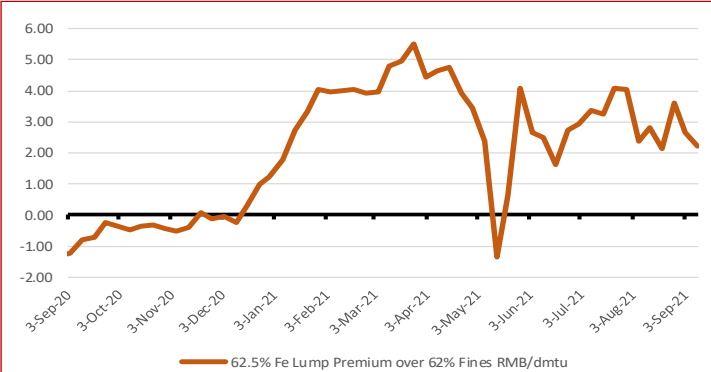
Port Stock Price Differentials to Qingdao Port for PB Fines (RMB/wet tonne)

Port	Value	Change	Port	Value	Change	Port	Value	Change	Port	Value	Change
Bayuquan	-45.00	0.00	Fangcheng	-30.00	0.00	Lanshan	0.00	0.00	Rizhao	0.00	0.00
Beilun	0.00	0.00	Jiangyin	-55.00	-25.00	Lianyungang	0.00	0.00	Shekou	0.00	0.00
Caofeidian	-40.00	25.00	Jingtang	-65.00	0.00	Majishan	0.00	0.00	Taicang	-30.00	0.00
Dalian	0.00	0.00	Lanqiao	0.00	0.00	Qingdao	0.00	0.00	Tianjin	-70.00	0.00

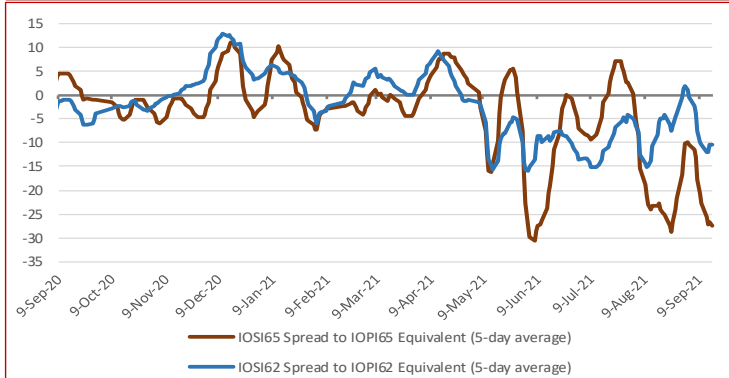
IRON ORE INDEX PREMIUMS/DISCOUNTS



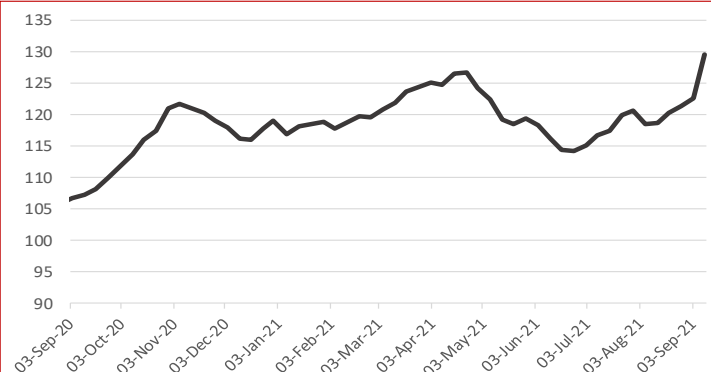
WEEKLY IRON ORE PORT STOCK LUMP PREMIUM (RMB/DMTU)



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



TOTAL IRON ORE INVENTORIES AT CHINA PORTS (MILLION TONNES)



FUTURE TRADING—FRONT MONTH CLOSING PRICE



IRON ORE PORT INVENTORIES (MILLION TONNES)

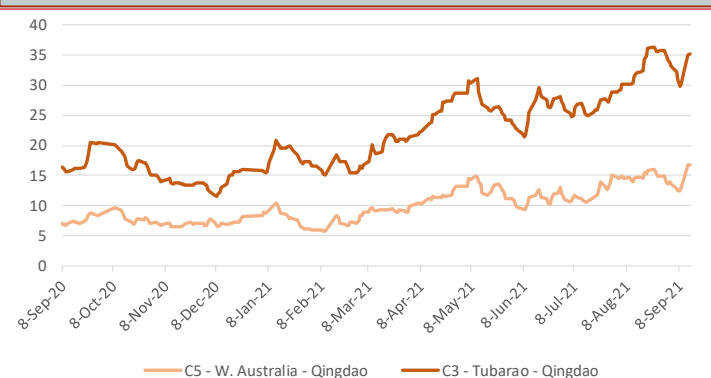
Week Ending Sep 10th, 2021

Province	This week	Change %	Low ²	High ²
Jingtang	16.25	0.81%	12.26	19.20
Qingdao	20.44	2.20%	9.41	20.44
Caofeidian	12.23	-2.47%	12.18	16.25
Tianjin	10.53	0.48%	7.14	11.28
Rizhao	12.04	-4.67%	9.44	14.22
Total (35 Ports)	129.62	5.77%	98.80	129.62

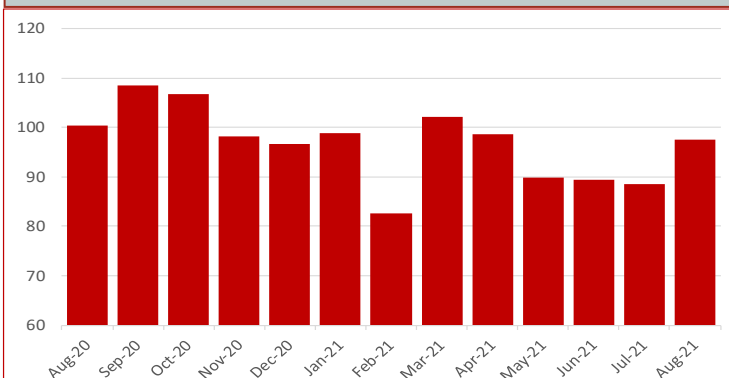
IRON ORE FUTURES CONTRACTS

Closing Date	DCE (RMB/WMT)			SGX (USD/DMTU)		
	Sep 16th, 3pm close			Sep 16th, 5:30pm		
Contract	I2201	Change	Change %	Oct. 21	Change	Change %
Closing Price	670.50	-33.50	-4.76%	107.25	-13.40	-11.11%
Vol traded ('000 lots)	79.47	-6.29	-7.34%	3.89	0.87	28.94%
Open positions ('000 lots)	63.69	1.78	2.87%	16.77	-0.03	-0.18%
Day Low	660.0	-22.50	-3.30%	105.80	-8.15	-7.15%
Day High	693.5	-28.50	-3.95%	117.70	-4.70	-3.84%

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	2021/9/10	Change	Change %
ReBar HRB400 ϕ 18mm	5,510	170	3.18%
Wirerod Q300 ϕ 6.5mm	5,870	180	3.16%
HRC Q235/SS400 5.5mm*1500*C	5,900	100	1.72%
CRC SPCC/ST12 1.0mm*1250*2500	6,500	20	0.31%
Medium & Heavy Plate Q235B 20mm	5,660	60	1.07%
GI ST02Z 1.0mm*1000*C	6,780	-20	-0.29%
Colour Coated Plate	8,800	0	0.00%

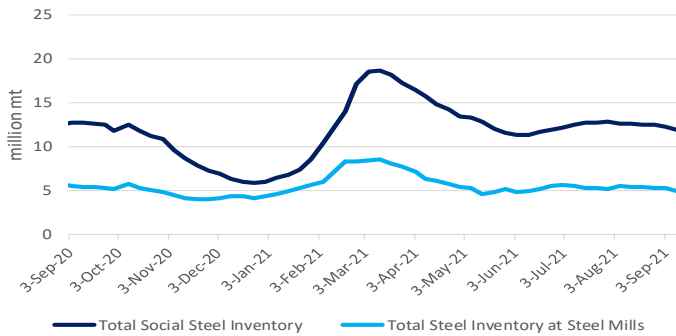
CHINESE STEEL MILL PROFITABILITY

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

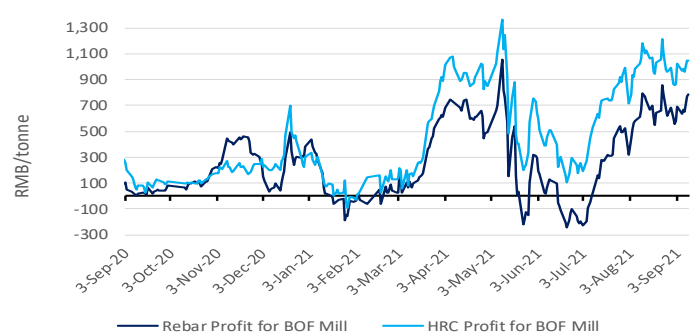
Category	Price	Change (WoW)	Note
MMi (Fe 62%), USD/mt excluding tax	135.25	-12	Mmi CFR Equivalent index for 1st Feb
Coke	4,010	400	2nd grade met coke, Tangshan, incl. tax
Steel Scrap	3,620	0	steel scrap (6mm) in Zhangjiagang, excl. tax
Billet Cost	4,532	52	Q234, incl. tax
Rebar cost - Blast furnace	4,779	56	calculated based on theoretical weight, incl. tax
Rebar profit - Blast furnace	783	89	based on Shanghai prices, incl. tax
Hot-rolled coil cost - Blast furnace	4,812	52	based on actual weight, incl. tax
Hot-rolled coil profit - Blast furnace	1,048	28	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

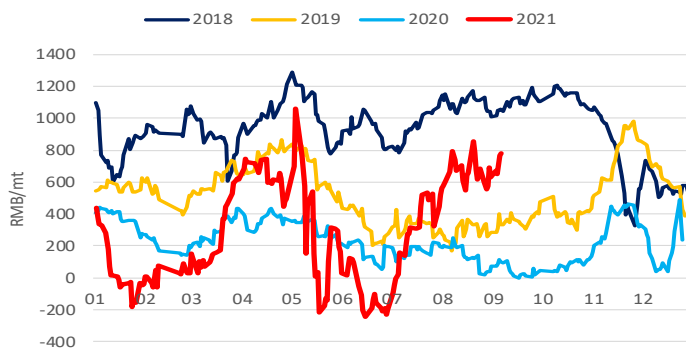
CHINESE STEEL INVENTORIES



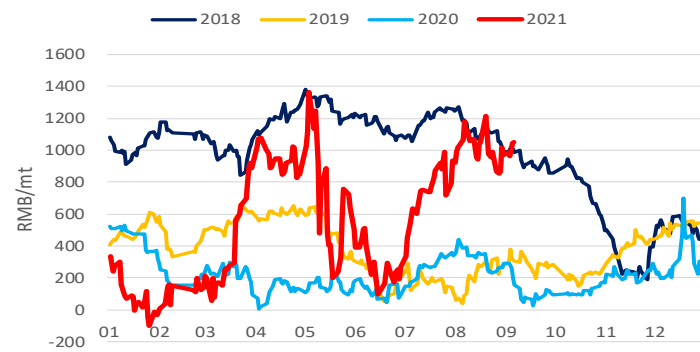
CHINESE STEEL MILL PROFITABILITY



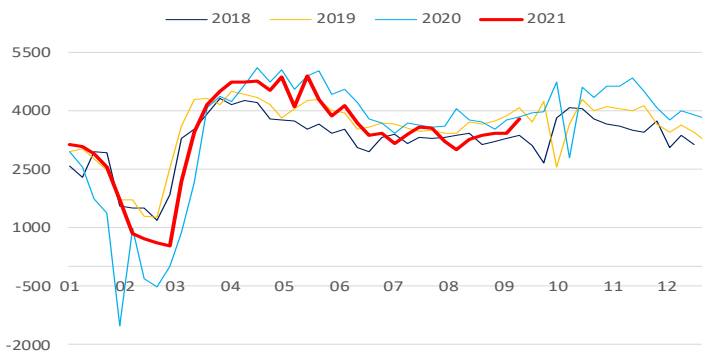
CHINESE STEEL MILL PROFITABILITY—Rebar



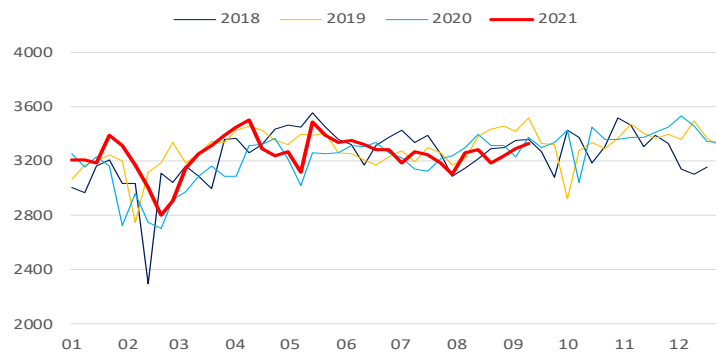
CHINESE STEEL MILL PROFITABILITY—Hot-rolled Coil



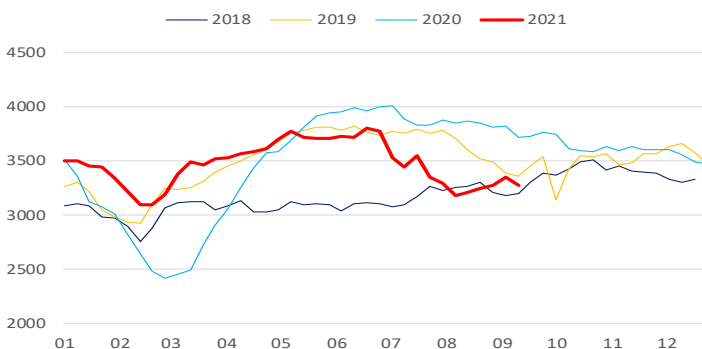
CHINESE STEEL CONSUMPTION—Rebar



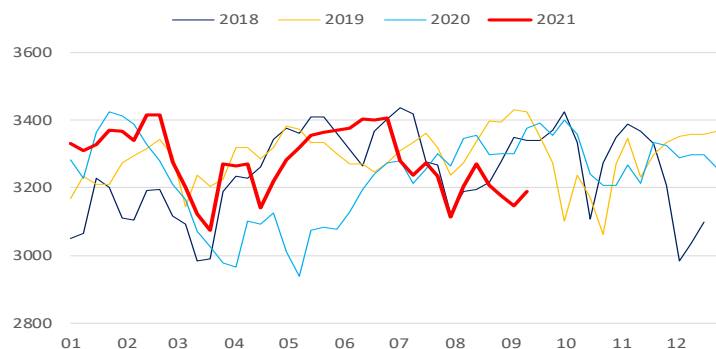
CHINESE STEEL CONSUMPTION—Hot-rolled Coil



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																
Fe %	65% Fe Fines 65.00	62% Fe Fines 62.00	58% Fe Fines 58.00	62.5% Fe Lump 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: www.mmiprices.com																
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%	<table><tr><th colspan="4">Data Exclusions*</th></tr><tr><td>Port Index</td><td>62%</td><td>58%</td><td>65%</td></tr><tr><td>Seaborne index</td><td>0</td><td></td><td>0</td></tr><tr><td>Lump Index 62.5</td><td>0</td><td></td><td></td></tr></table>	Data Exclusions*				Port Index	62%	58%	65%	Seaborne index	0		0	Lump Index 62.5	0		
Data Exclusions*																					
Port Index	62%	58%	65%																		
Seaborne index	0		0																		
Lump Index 62.5	0																				
Pricing Point	Qingdao Port (FOT and CFR respectively)			FOT Qingdao Port	* Number of price submissions for iron ore indices that were excluded from index calculations today as they were anomalous and could not be verified																
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																	

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					
Sep 16th, 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%
Sep 16th, 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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