



MMi Dashboard

Iron Ore Price Indices

Iron Ore Port Stock (FOT Qingdao) IOPI62 62% Fe Fines RMB/t	
	761
-13	-1.68%
Jul 15th, 2022	

Iron Ore Port Stock (FOT Qingdao) IOPI65 65% Fe Fines RMB/t	
	899
-20.00	-2.18%
Jul 15th, 2022	

Iron Port Stock (FOT Qingdao) IOPI58 58% Fe Fines RMB/t	
	681
-11	-1.59%
Jul 15th, 2022	

Iron Ore Seaborne (CFR Qingdao) IOSI62 62% Fe Fines USD/dmt	
	97.70
-15.05	-13.35%
Jul 15th, 2022	

Iron Ore Seaborne (CFR Qingdao) IOSI65 65% Fe Fines USD/dmt	
	110.55
-15.20	-12.09%
Jul 15th, 2022	

Iron Ore Port Stock (FOT Qingdao) IOPLI 62.5% Fe Lump RMB/t	
	870
-115	-11.68%
Week Ending Jul 15th, 2022	

Exchange Traded Contracts

DCE Iron Ore 62% Fines I2209 (Jan) RMB/t (3pm close)	
	645.00
-50.50	-7.26%
Jul 15th, 2022 (3pm close)	

SGX Iron Ore (CFR Qingdao) 62% Fe Fines September 22 USD/dmt	
	96.40
-3.05	-3.07%
Jul 15th, 2022 (5.30 pm Print)	

SHFE Rebar RB2210 (Jan) RMB/t	
	3589
-244	-6.37%
Jul 15th, 2022 (3pm close)	

Freight Rates

C3, Tubarao - Qingdao USD/t	
	31.21
0.48	1.57%
Jul 14th, 2022	

C5, W. Australia - Qingdao USD/t	
	10.68
0.09	0.80%
Jul 14th, 2022	

Steel Price

Steel Rebar (China Domestic) RMB/t	
	3780
-470	-11.06%
Week Ending Jul 15th, 2022	

Inventory Levels

Iron Ore Inventory at Chinese Ports (35) million tonnes	
	126.08
3.90	3.19%
Week Ending Jul 15th, 2022	

Steel Inventory in China million tonnes	
	16.58
-0.61	-3.54%
Week Ending Jul 15th, 2022	

Steel Price

Steel HRC (China Domestic) RMB/t	
	3600
-630	-14.89%
Week Ending Jul 15th, 2022	

IRON ORE PORT STOCK INDEX (IOPI)

Jul 15th, 2022		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	761	-13	-1.7%	807	953	587	1542	104.63	-2.05	-1.9%	111.61	137.06	84.25	225.07
IOPI58	58% Fe Fines	681	-11	-1.6%	721	780	454	1208	94.23	-1.77	-1.8%	100.42	112.42	64.78	177.35
IOPI65	65% Fe Fines	899	-20	-2.2%	966	1132	843	1781	124.323	-3.09	-2.4%	134.33	163.55	122.83	260.60

IRON ORE SEABORNE INDEX (IOSI)

MARKET COMMENTARY

Jul 15th, 2022		CFR Qingdao, USD/dry tonne							DCE iron ore was shocked and go downward all the day. The main contract closed at 645, decreased of 10.04%. Traders are motivated to ship, steel mills are mainly on the sidelines, and there are more transactions in the market. SSF at Shandong port dealt 580-585 yuan/mt, decrease 70-75 yuan/mt than yesterday. PBF at Tangshan port dealt 715-720 yuan/mt, decrease 45-45 yuan/mt than yesterday. SSF at Tangshan port dealt 605 yuan/mt. As of July 15, the 35 port inventories tracked by SMM totaled 126.08 million tonnes, a significant increase of 3.91 million tonnes from the previous week and a decrease of 2.61 million tonnes from the same period last year, with port inventories rising for three consecutive periods. The average daily port volume of imported mines in this period fell by 242,000 tons to 2.557 million tons on a weekly basis, far below the average volume of port clearance in the past two months. Recently, the scope of maintenance of steel mills has been expanded, and it is difficult to recover demand. The follow-up market has a certain risk release space, and it is expected that the short-term ore price will be widely oscillated.
Index	Fe Content	Price	Change	Change %	MTD	YTD	Low ²	High ²	
IOSI62	62% Fe Fines	97.70	-15.05	-13.35%	114.65	139.53	93.75	215.00	
IOSI65	65% Fe Fines	110.55	-15.20	-12.09%	128.23	163.98	108.20	262.95	

IRON ORE PORT LUMP INDEX (IOPLI)

Week Ending Jul 15th, 2022		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	870	-115	-11.7%	946	1192	730	1825	115.44	-16.03	-12.19%	126.18	165.07	101.31	262.13

IRON ORE DOMESTIC CONCENTRATE SPOT PRICE ASSESSMENTS AND COMPOSITE INDEX

Week Ending Jul 15th, 2022				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	983	-4.8%	779	1645		146.15	-5.05%	110.31	255.69
Hebei	Qian'an	65% Fe Concentrate	Dry	940	-1.1%	780	1630		139.76	-1.27%	110.51	251.57
Liaoning	Anshan	65% Fe Concentrate	Wet	780	-7.1%	620	1310		115.97	-7.35%	87.40	202.32
Shandong	Zibo	65% Fe Concentrate	Dry	1014	-3.5%	800	1752		150.76	-3.74%	122.55	272.32
Week Ending Jul 15th, 2022				This week	Change %	Low ²	High ²	¹ Exchange rate applied: RMB/USD = 6.411864 ² Last 12 months ³ Weekly exchange rate applied: RMB/USD = 6.72594				
China Mines Concentrate Composite Index RMB/WT				858.57	-4.01%	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

Jul 15th, 2022		FOT Qingdao (inc. 13% VAT), RMB/wet tonne							CFR Qingdao Equivalent (exc. 13% VAT), USD/dry tonne						
Index	Fe Content	March	April	May	June	MTD	QTD	YTD	March	April	May	June	MTD	QTD	YTD
IOPI62	62% Fe Fines	1020	1030	981	934	807	807	953	150.42	150.00	136.86	130.13	111.61	111.61	137.06
IOPI58	58% Fe Fines	812	874	841	823	721	721	780	120.15	128.09	118.11	115.45	100.42	100.42	112.42
IOPI65	65% Fe Fines	1219	1206	1152	1086	966	966	1132	180.56	176.31	161.44	151.89	134.33	134.33	163.55

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

FREIGHT RATES

Jul 15th, 2022		CFR Qingdao, USD/dry tonne							FREIGHT RATES - DRY BULK US\$/wet tonne						
Index	Fe Content	March	April	May	June	MTD	QTD	YTD	Route	Designation	Change	Change %	Low ²	High ²	
IOSI62	62% Fe Fines	141.23	155.13	141.17	131.96	114.65	114.65	139.53	W. Australia - Qingdao	C5	10.68	0.09	0.80%	3.57	16.77
IOSI65	65% Fe Fines	171.21	181.23	166.30	154.17	128.23	128.23	163.98	Tubarao - Qingdao	C3	31.21	0.48	1.57%	6.70	36.40

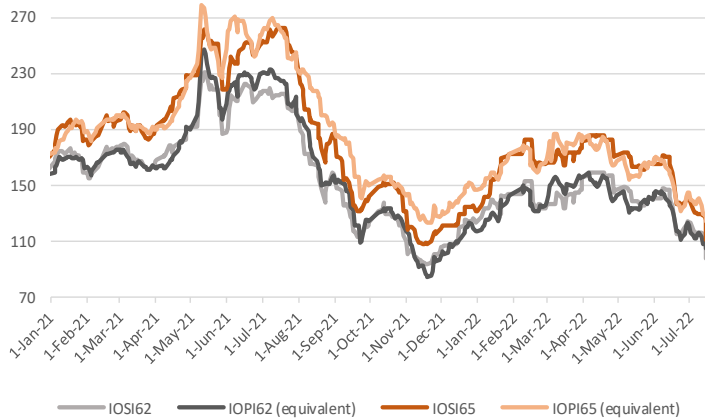
IRON ORE PORT LUMP INDEX MONTHLY, QUARTERLY AND YEAR-TO-DATE AVERAGES

Week Ending Jul 15th, 2022		FOT Qingdao (inc. 13% VAT), RMB/wet tonne							CFR Qingdao Equivalent (exc. 13% VAT), USD/dry tonne ¹						
Index	Fe Content	March	April	May	June	MTD	QTD	YTD	March	April	May	June	MTD	QTD	YTD
IOPLI62	62.5% Fe Lump	1355	1328	1232	1189	946	946	1192	191.90	187.99	164.53	159.78	126.18	126.18	165.07

IRON ORE INDEX PREMIUMS/DISCOUNTS

Jul 15th, 2022		PORT STOCK INDEX (RMB/WT)		Jul 15th, 2022		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	-80	-10.51%	IOSI65	65% Fe Fines	12.85	13.15%
IOPI65	65% Fe Fines	138	18.13%				

IRON ORE INDEX COMPARISONS (USD/DMT)



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



IRON ORE BRAND SPOT PRICE ASSESSMENTS

Jul 15th, 2022				Jul 15th, 2022			
PORT STOCK INDEX (RMB/WT)				SEABORNE INDEX (USD/DMT)			
	Price	Change	Diff to IOPI62		Price	Change	Diff to IOSI62
Roy Hill	702	-13	-59	Roy Hill	93.20	-15.05	-4.50
SIMEC Fines	631	-13	-130	SIMEC Fines	89.70	-15.05	-8.00
PB Fines	731	-13	-30	PB Fines	93.95	-15.05	-3.75
Newman Fines	746	-14	-15	Newman Fines	96.85	-15.05	-0.85
MAC Fines	704	-13	-57	MAC Fines	93.95	-15.05	-3.75
Jimblebar Blended Fines	623	-13	-138	Jimblebar Blended Fines	86.35	-15.05	-11.35
Carajas Fines	939	-13	178	Carajas Fines	127.25	-15.05	29.55
Brazilian SSF	723	-13	-38	Brazilian SSF	101.45	-15.05	3.75
Brazilian Blend Fines	741	-13	-20	Brazilian Blend Fines	103.10	-15.03	5.40
RTX Fines	643	-14	-118	RTX Fines	87.60	-15.05	-10.10
West Pilbara Fines	673	-13	-88	West Pilbara Fines	91.95	-15.05	-5.75

Jul 15th, 2022			
PORT STOCK INDEX (RMB/WT)			
	Price	Change	Diff to IOPI58
SSF	681	-11	0
FMG Blended Fines	689	-11	8
Robe River	685	-11	4
Western Fines	693	-11	12
Atlas Fines	687	-11	6
Yandi	676	-11	-5

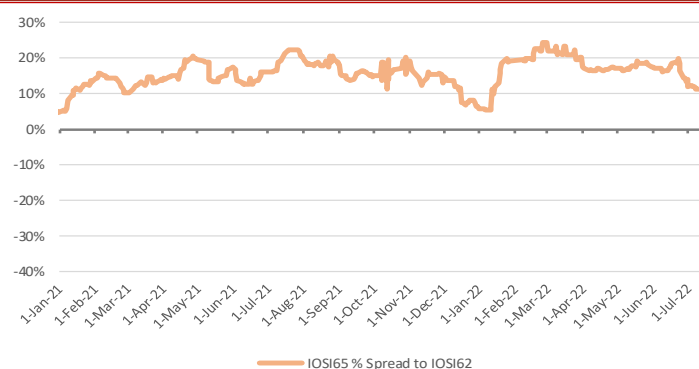
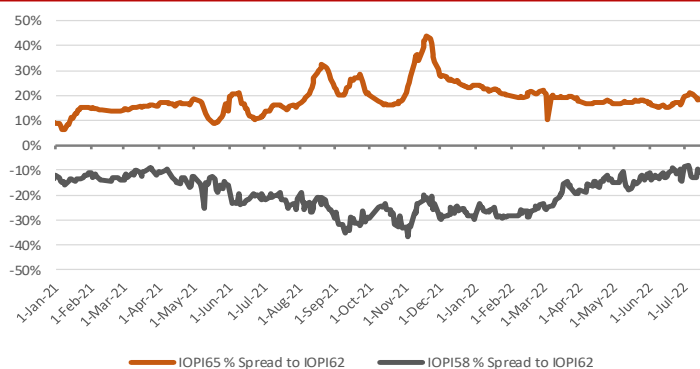
IRON ORE INDEX NORMALISATION DIFFERENTIALS

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	-3.00	1% Fe	High Grade Fe 60 - 63%	2.25	0.25
	High Grade Fe 63 - 64%	48.00	-1.00		High Grade Fe 63 - 64%	1.50	0.00
	High Grade Fe 64 - 65%	48.00	-1.00		High Grade Fe 64 - 65%	1.50	0.00
	High Grade Fe 65 - 65.5%	48.00	-1.00		High Grade Fe 65 - 65.5%	1.50	0.00
	Low Grade Fe	22.00	0.00	1% Alumina	High Fe Grade Al <2.25%	0.25	0.00
1% Alumina	High Fe Grade Al <2.25%	14.00	-2.00		High Fe Grade Al 2.25-4%	0.50	0.25
	High Fe Grade Al 2.25-4%	5.00	0.00				
	Low Fe Grade Al <2.25%	100.00	0.00				
	Low Fe Grade Al 2.25-4%	5.00	0.00				
1% Silica	High Fe Grade Si <4%	5.00	0.00	1% Silica	High Fe Grade Si <4%	3.00	0.00
	High Fe Grade Si 4-6.5%	5.00	0.00		High Fe Grade Si 4 - 6.5%	4.00	0.25
	Low Fe Grade	10.00	5.00				
0.01% Phosphorus	High Fe Grade 0.09%<P<0.115%	5.00	0.00	0.01% Phosphorus	High Fe Grade 0.09%<P<0.115%	1.00	0.25
	High Fe Grade 0.115%<P<0.15%	5.00	0.00		High Fe Grade 0.115%<P<0.15%	3.00	0.00
	Low Fe Grade 0.09%<P<0.1%	5.00	0.00				

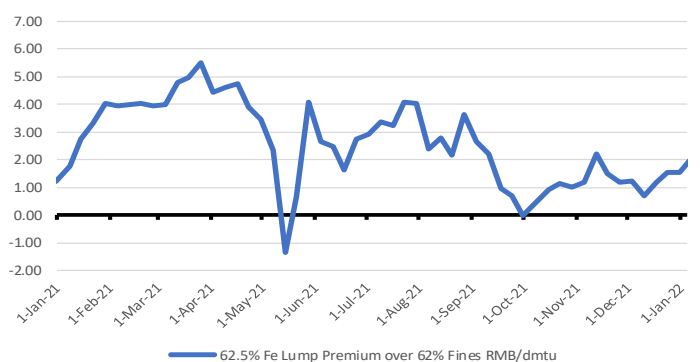
Port Stock Price Differentials to Qingdao Port for PB Fines (RMB/wet tonne)

Port	Value	Change	Port	Value	Change	Port	Value	Change	Port	Value	Change
Bayuquan	-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	-30.00	0.00	Lianyungang	0.00	0.00	Shekou	0.00	0.00
Caofeidian	10.00	0.00	Jingtang	0.00	0.00	Majishan	0.00	0.00	Taicang	-40.00	0.00
Dalian	0.00	0.00	Lanqiao	0.00	0.00	Qingdao	0.00	0.00	Tianjin	-20.00	0.00

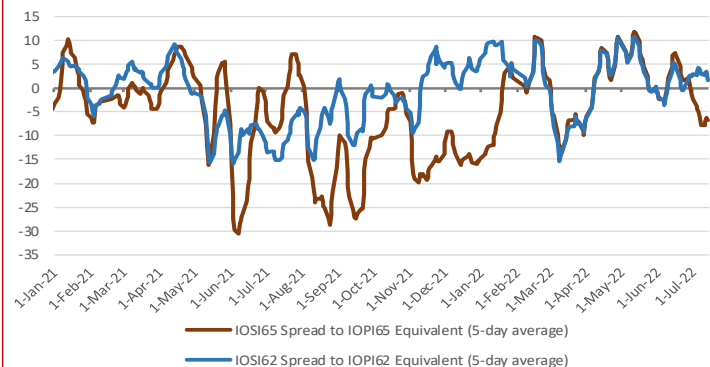
IRON ORE INDEX PREMIUMS/DISCOUNTS



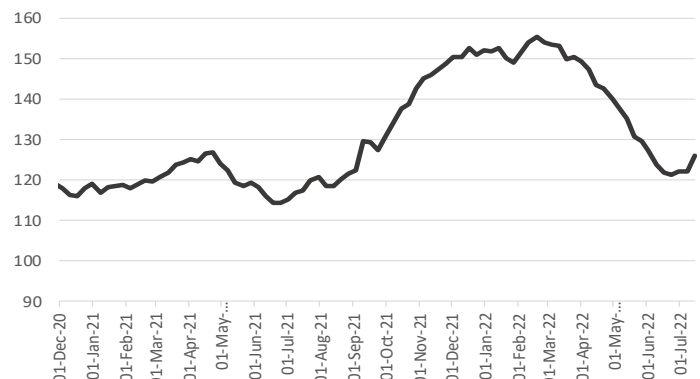
WEEKLY IRON ORE PORT STOCK LUMP PREMIUM (RMB/DMTU)



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 Jul 15th, 2022

Province	This week	Change %	Low ²	High ²
Jingtang	10.62	1.92%	9.84	19.20
Qingdao	23.76	5.74%	9.41	26.24
Caofeidian	9.73	0.31%	9.05	16.29
Tianjin	9.90	0.51%	7.14	12.97
Rizhao	15.25	6.57%	9.44	19.26
Total (35 Ports)	126.08	3.19%	98.80	155.39

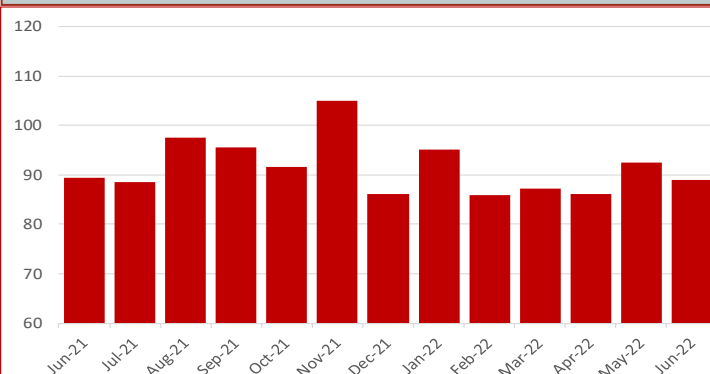
IRON ORE FUTURES CONTRACTS

Closing Date	DCE (RMB/WMT)			SGX (USD/DMT)		
	Jul 15th, 3pm close			Jul 15th, 5:30pm		
Contract	I2209	Change	Change %	Sep. 22	Change	Change %
Closing Price	645.00	-50.50	-7.26%	96.40	-3.05	-3.07%
Vol traded ('000 lots)	86.65	10.22	13.37%	6.76	1.21	21.70%
Open positions ('000 lots)	66.11	0.87	1.33%	22.88	0.40	1.78%
Day Low	641.5	-53.00	-7.63%	96.00	-3.90	-3.90%
Day High	677.5	-52.50	-7.19%	101.20	-6.60	-6.12%

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	2022/7/15	Change	Change %
ReBar HRB400 ϕ 18mm	3,780	-470	-11.06%
Wirerod Q300 ϕ 6.5mm	4,270	-460	-9.73%
HRC Q235/SS400 5.5mm*1500*C	3,600	-630	-14.89%
CRC SPCC/ST12 1.0mm*1250*2500	4,210	-540	-11.37%
Medium & Heavy Plate Q235B 20mm	4,100	-460	-10.09%
GI ST02Z 1.0mm*1000*C	4,730	-410	-7.98%
Colour Coated Plate	7,700	-250	-3.14%

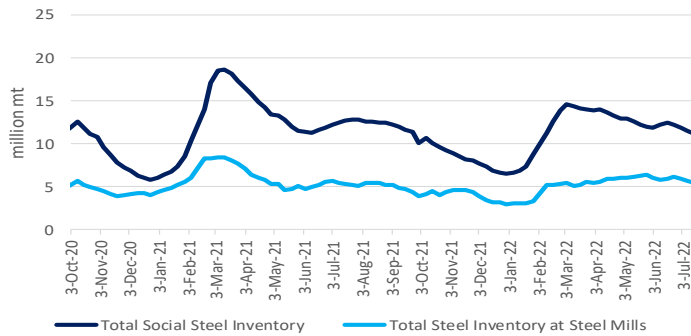
CHINESE STEEL MILL PROFITABILITY

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

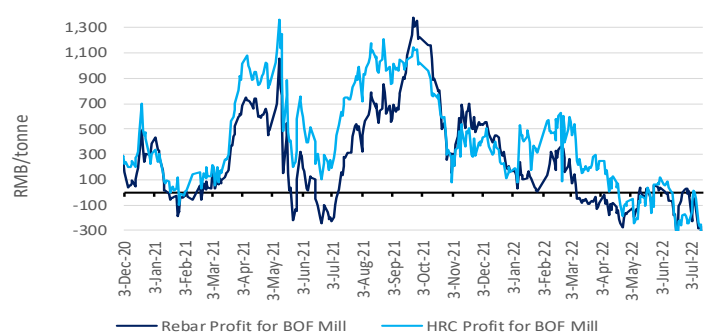
Category	Price	Change (WoW)	Note
MMi (Fe 62%), USD/mt excluding tax	112.75	-3	Mmi CFR Equivalent index for 1st Feb
Coke	3,240	0	2nd grade met coke, Tangshan, incl. tax
Steel Scrap	2,770	-530	steel scrap (6mm) in Zhangjiagang, excl. tax
Billet Cost	3,642	-164	Q234, incl. tax
Rebar cost - Blast furnace	4,150	-186	calculated based on theoretical weight, incl. tax
Rebar profit - Blast furnace	-470	-334	based on Shanghai prices, incl. tax
Hot-rolled coil cost - Blast furnace	4,100	-174	based on actual weight, incl. tax
Hot-rolled coil profit - Blast furnace	-500	-446	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

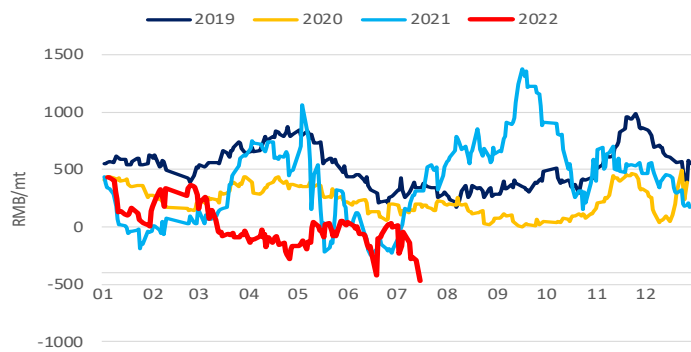
CHINESE STEEL INVENTORIES



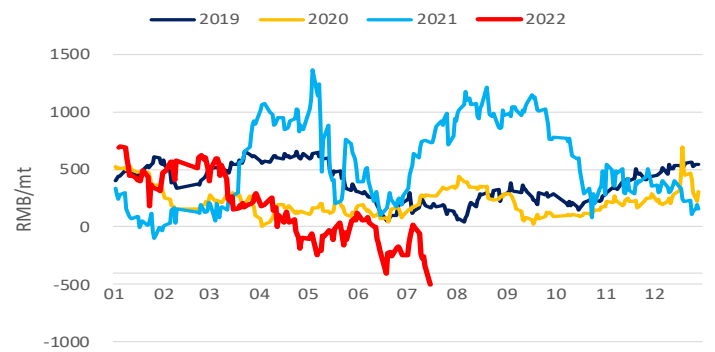
CHINESE STEEL MILL PROFITABILITY



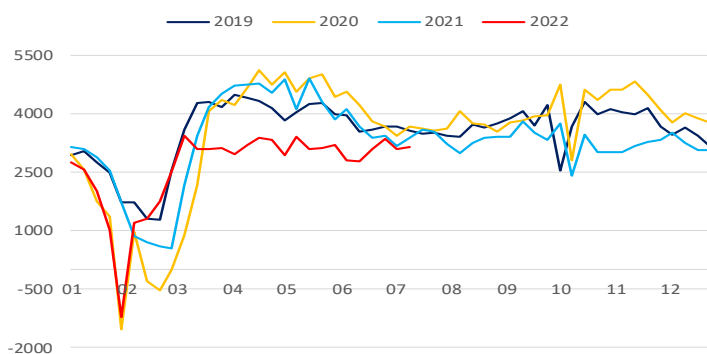
CHINESE STEEL MILL PROFITABILITY—Rebar



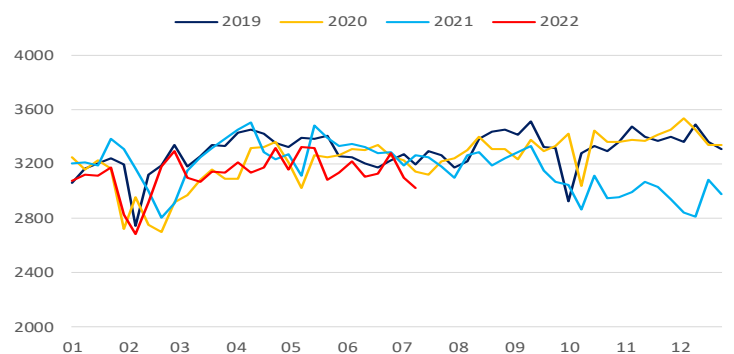
CHINESE STEEL MILL PROFITABILITY—Hot-rolled Coil



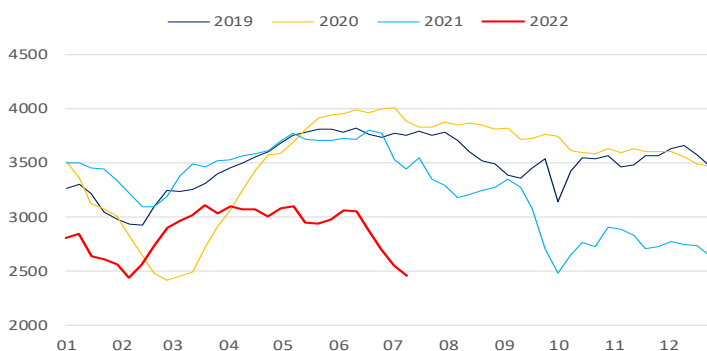
CHINESE STEEL CONSUMPTION—Rebar



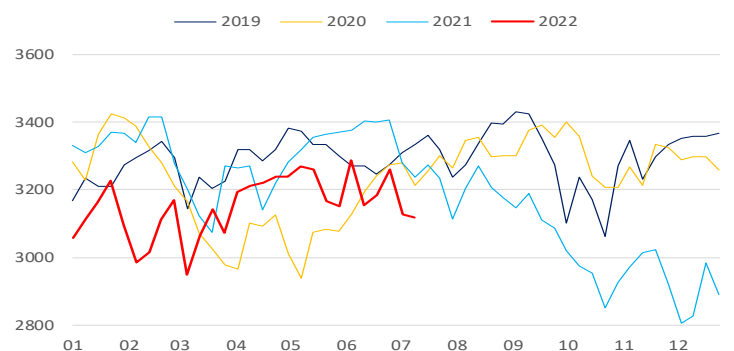
CHINESE STEEL CONSUMPTION—Hot-rolled Coil



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	62% Fe Fines	58% Fe Fines	62.5% Fe Lump	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 %	65.00	62.00	58.00	62.50																					
Silica%	1.40	2.25	2.25	1.50																					
Phosphorus %	1.50	4.00	5.50	3.50																					
Sulphur %	0.06	0.09	0.05	0.08																					
Moisture %	0.01	0.02	0.02	0.02																					
	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																					
					<table><tr><th colspan="4">Data Exclusions*</th></tr><tr><td></td><th>62%</th><th>58%</th><th>65%</th></tr><tr><td>Port Index</td><td>0</td><td>0</td><td>0</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*					62%	58%	65%	Port Index	0	0	0	Seaborne index	0		0	Lump Index 62.5	0		
Data Exclusions*																									
	62%	58%	65%																						
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					
Jul 15th, 2022	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%	4.30%	0.095%	8.00%
MAC Fines	60.43%	2.38%	4.64%	0.078%	7.57%	MAC Fines	60.80%	2.35%	4.40%	0.075%	7.80%
Jimblebar Blended Fines	60.87%	2.95%	4.53%	0.111%	7.32%	Jimblebar Blended Fines	60.50%	3.10%	4.80%	0.120%	7.80%
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%
Jul 15th, 2022	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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