




## MMi Dashboard


## Iron Ore Price Indices

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

 **763**  
14 1.87%


Aug 19th, 2022

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

 **842**  
14.00 1.69%


Aug 19th, 2022

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

 **668**  
0 0.00%


Aug 19th, 2022

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

 **104.75**  
-0.40 -0.38%


Aug 19th, 2022

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

 **116.60**  
-0.60 -0.51%

Aug 19th, 2022


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

 **890**  
-25 -2.73%

Week Ending Aug 19th, 2022


## Exchange Traded Contracts

DCE Iron Ore 62% Fines  
I2301 (Jan) RMB/t (3pm close)

 **673.50**  
-5.00 -0.74%


Aug 19th, 2022 (3pm close)

SGX Iron Ore (CFR Qingdao) 62% Fe Fines  
September 22 USD/dmt

 **100.75**  
-0.85 -0.84%

Aug 19th, 2022 (5.30 pm Print)


SHFE Rebar  
RB2210 (Jan) RMB/t

 **3929**  
-112 -2.77%

Aug 19th, 2022 (3pm close)


## Freight Rates

C3, Tubarao - Qingdao USD/t

 **19.04**  
-0.85 -4.27%


Aug 18th, 2022

C5, W. Australia - Qingdao USD/t

 **7.66**  
-0.53 -6.47%

Aug 18th, 2022


Steel Rebar (China Domestic) RMB/t

 **4160**  
-60 -1.42%

Week Ending Aug 19th, 2022


## Inventory Levels

Iron Ore Inventory at Chinese Ports (35)  
million tonnes

 **135.07**  
0.07 0.05%


Week Ending Aug 19th, 2022

Steel Inventory in China  
million tonnes

 **12.77**  
-0.37 -2.83%

Week Ending Aug 19th, 2022

Steel HRC (China Domestic) RMB/t

 **3830**  
-190 -4.73%

Week Ending Aug 19th, 2022

## Steel Price

## Steel Price

## IRON ORE PORT STOCK INDEX (IOPI)

Aug 19th, 2022		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	763	14	1.9%	791	923	587	1083	103.87	1.58	1.5%	108.52	131.80	84.25	159.06
IOPI58	58% Fe Fines	668	0	0.0%	690	762	454	907	91.44	-0.35	-0.4%	95.22	109.11	64.78	134.15
IOPI65	65% Fe Fines	842	14	1.7%	876	1089	811	1382	115.04	1.54	1.4%	120.57	156.33	111.38	200.47

## IRON ORE SEABORNE INDEX (IOSI)

## MARKET COMMENTARY

Aug 19th, 2022		CFR Qingdao, USD/dry tonne							DCE iron ore was shocked sharply all the day. The main contract closed at 673.5, decreased of 1.97 %. Traders are no more motivated to ship. Steel mills are more mainly on the sidelines, and market turnover continues to pick up. PBF at Shandong port dealt 730-745 yuan/mt, increase 5 yuan/mt than yesterday. PBF at Tangshan dealt 741-745 yuan/mt, keep stable compare with yesterday. As of August 19, the inventory of 35 ports tracked by SMM totaled 135.07 million tons, 70000 tons more than last week and 4.98 million tons more than the same period last year. The port inventory has been accumulated for eight consecutive periods. The average daily port dredging volume of imported mines in this period increased by 67000 tons to 2.682 million tons on a weekly basis. Driven by the resumption of production of the steel plant, the port dredging volume increased this week. However, at present, the profit of steel mills is shrinking, and the production enthusiasm may be affected. Before the peak season comes, the expected replenishment of steel mills is still to be verified. In the short term, the upward driving force of iron ore prices is insufficient, and it is expected that iron ore prices will still operate in shock.
Index	Fe Content	Price	Change	Change %	MTD	YTD	Low <sup>2</sup>	High <sup>2</sup>	
IOSI62	62% Fe Fines	104.75	-0.40	-0.38%	113.17	134.98	93.75	159.45	
IOSI65	65% Fe Fines	116.60	-0.60	-0.51%	127.51	157.95	108.20	186.35	

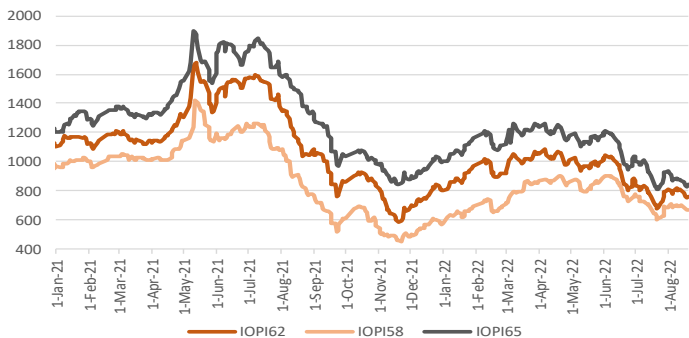
## IRON ORE PORT LUMP INDEX (IOPLI)

Week Ending Aug 19th, 2022		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	890	-25	-2.7%	903	1141	730	1405	117.25	-4.06	-3.35%	119.29	157.19	101.00	199.00

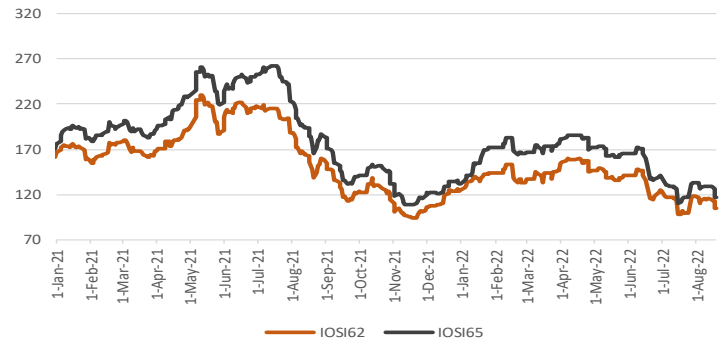
## IRON ORE DOMESTIC CONCENTRATE SPOT PRICE ASSESSMENTS AND COMPOSITE INDEX

Week Ending Aug 19th, 2022				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	961	0.1%	779	1645	141.79	-0.41%	110.31	255.69
Hebei	Qian'an	65% Fe Concentrate	Dry	945	0.0%	780	1630	139.43	-0.51%	110.51	251.57
Liaoning	Anshan	65% Fe Concentrate	Wet	725	-1.4%	620	1310	106.97	-1.87%	87.40	202.32
Shandong	Zibo	65% Fe Concentrate	Dry	984	0.1%	800	1752	145.19	-0.41%	122.55	272.32
Week Ending Aug 19th, 2022				This week	Change %	Low <sup>2</sup>	High <sup>2</sup>	<sup>1</sup> Exchange rate applied: RMB/USD = 6.7522 <sup>2</sup> Last 12 months <sup>3</sup> Weekly exchange rate applied: RMB/USD = 6.7774			
China Mines Concentrate Composite Index RMB/WT				865.84	1.69%	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

Aug 19th, 2022		FOT Qingdao (inc. 13% VAT), RMB/wet tonne							CFR Qingdao Equivalent (exc. 13% VAT), USD/dry tonne						
Index	Fe Content	April	May	June	July	MTD	QTD	YTD	May	June	June	July	MTD	QTD	YTD
IOPI62	62% Fe Fines	1030	981	934	770	791	779	923	150.00	136.86	130.13	106.01	108.52	107.06	131.80
IOPI58	58% Fe Fines	874	841	823	682	690	685	762	128.09	118.11	115.45	94.43	95.22	94.76	109.11
IOPI65	65% Fe Fines	1206	1152	1086	915	876	899	1089	176.31	161.44	151.89	126.73	120.57	124.16	156.33

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

## FREIGHT RATES

Aug 19th, 2022		CFR Qingdao, USD/dry tonne							Aug 18th, 2022		FREIGHT RATES - DRY BULK US\$/wet tonne				
Index	Fe Content	April	May	June	July	MTD	QTD	YTD	Route	Designation	Change	Change %	Low <sup>2</sup>	High <sup>2</sup>	
IOSI62	62% Fe Fines	155.13	141.17	131.96	110.07	113.17	111.35	134.98	W. Australia - Qingdao	C5	7.66	-0.53	-6.47%	3.57	16.77
IOSI65	65% Fe Fines	181.23	166.30	154.17	124.60	127.51	125.80	157.95	Tubarao - Qingdao	C3	19.04	-0.85	-4.27%	6.70	36.40

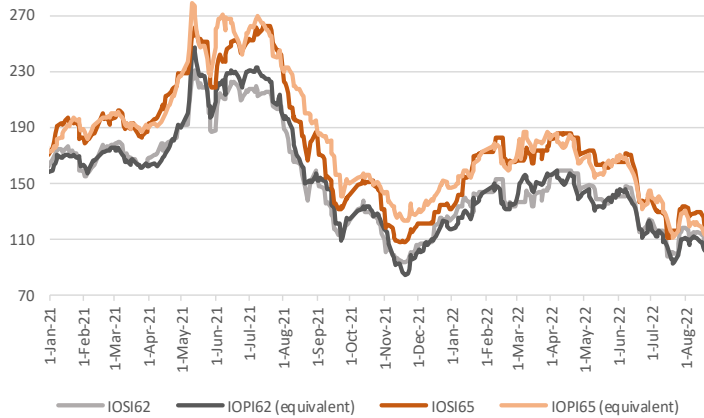
## IRON ORE PORT LUMP INDEX MONTHLY, QUARTERLY AND YEAR-TO-DATE AVERAGES

Week Ending Aug 19th, 2022		FOT Qingdao (inc. 13% VAT), RMB/wet tonne							CFR Qingdao Equivalent (exc. 13% VAT), USD/dry tonne <sup>1</sup>						
Index	Fe Content	April	May	June	July	MTD	QTD	YTD	April	May	June	July	MTD	QTD	YTD
IOPLI62	62.5% Fe Lump	1328	1232	1189	906	903	905	1141	187.99	164.53	159.78	120.36	119.29	119.96	157.19

## IRON ORE INDEX PREMIUMS/DISCOUNTS

Aug 19th, 2022		PORT STOCK INDEX (RMB/WT)		Aug 19th, 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	-95	-12.45%	IOSI65	65% Fe Fines	11.85	11.31%
IOPI65	65% Fe Fines	79	10.35%				

## IRON ORE INDEX COMPARISONS (USD/DMT)



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



## IRON ORE BRAND SPOT PRICE ASSESSMENTS

Aug 19th, 2022				Aug 19th, 2022			
PORT STOCK INDEX (RMB/WT)				SEABORNE INDEX (USD/DMT)			
	Price	Change	Diff to IOPI62		Price	Change	Diff to IOSI62
Roy Hill	706	14	-57	Roy Hill	100.25	-0.40	-4.50
SIMEC Fines	632	13	-131	SIMEC Fines	96.75	-0.40	-8.00
PB Fines	733	14	-30	PB Fines	101.00	-0.40	-3.75
Newman Fines	731	14	-32	Newman Fines	103.90	-0.40	-0.85
MAC Fines	713	14	-50	MAC Fines	101.00	-0.40	-3.75
Jimblebar Blended Fines	627	14	-136	Jimblebar Blended Fines	93.40	-0.40	-11.35
Carajas Fines	943	14	180	Carajas Fines	134.30	-0.40	29.55
Brazilian SSF	725	15	-38	Brazilian SSF	108.50	-0.40	3.75
Brazilian Blend Fines	746	14	-17	Brazilian Blend Fines	110.15	-0.40	5.40
RTX Fines	645	14	-118	RTX Fines	94.65	-0.40	-10.10
West Pilbara Fines	675	14	-88	West Pilbara Fines	99.00	-0.40	-5.75

Aug 19th, 2022			
PORT STOCK INDEX (RMB/WT)			
	Price	Change	Diff to IOPI58
SSF	668	0	0
FMG Blended Fines	676	0	8
Robe River	677	0	9
Western Fines	679	0	11
Atlas Fines	674	0	6
Yandi	662	0	-6

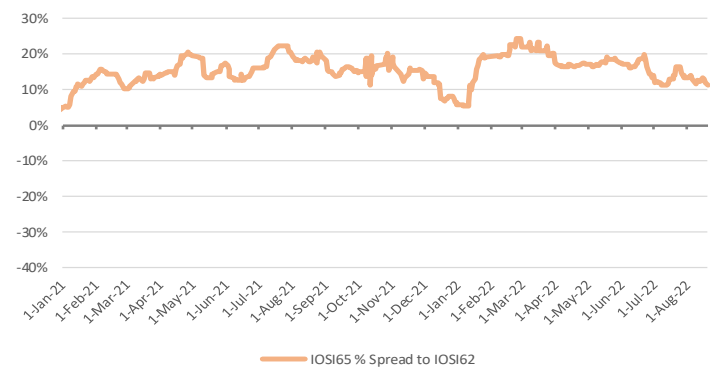
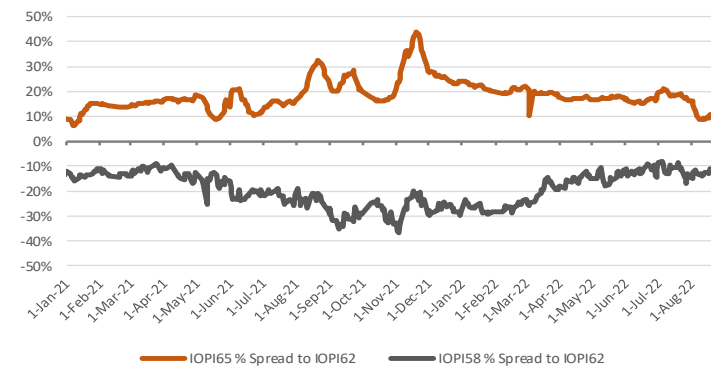
## IRON ORE INDEX NORMALISATION DIFFERENTIALS

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%	14.00	0.00	1% Fe	High Grade Fe 60 - 63%	3.50	0.25
	High Grade Fe 63 - 64%	24.00	0.00		High Grade Fe 63 - 64%	1.50	0.00
	High Grade Fe 64 - 65%	24.00	0.00		High Grade Fe 64 - 65%	1.50	0.00
	High Grade Fe 65 - 65.5%	24.00	0.00		High Grade Fe 65 - 65.5%	1.50	0.00
	Low Grade Fe	16.00	0.00	1% Alumina	High Fe Grade Al <2.25%	0.25	0.00
1% Alumina	High Fe Grade Al <2.25%	5.00	0.00		High Fe Grade Al 2.25-4%	1.25	-0.25
	High Fe Grade Al 2.25-4%	5.00	0.00				
	Low Fe Grade Al <2.25%	35.00	-5.00				
	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%	2.50	0.00
	High Fe Grade Si 4-6.5%	18.00	2.00		High Fe Grade Si 4 - 6.5%	5.50	-0.25
	Low Fe Grade	16.00	0.00	0.01% Phosphorus			
0.01% Phosphorus	High Fe Grade 0.09%<P<0.115%	5.00	0.00		High Fe Grade 0.09%<P<0.115%	2.25	0.25
	High Fe Grade 0.115%<P<0.15%	5.00	0.00		High Fe Grade 0.115%<P<0.15%	3.25	0.00
	Low Fe Grade 0.09%<P<0.1%	5.00	0.00				

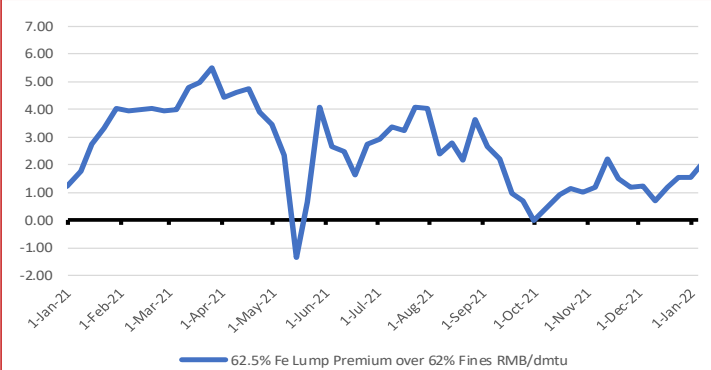
## Port Stock Price Differentials to Qingdao Port for PB Fines (RMB/wet tonne)

Port	Value	Change	Port	Value	Change	Port	Value	Change	Port	Value	Change
Bayuquan	-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	-5.00	0.00	Jingtang	-5.00	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

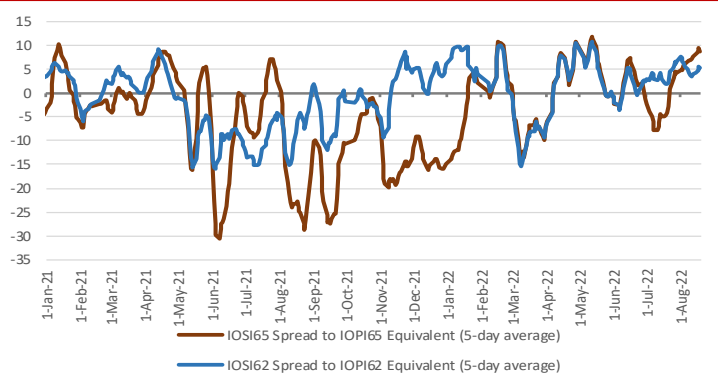
## IRON ORE INDEX PREMIUMS/DISCOUNTS



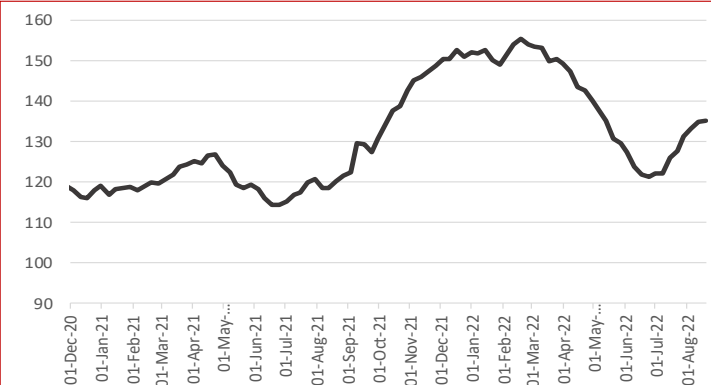
## WEEKLY IRON ORE PORT STOCK LUMP PREMIUM (RMB/DMTU)



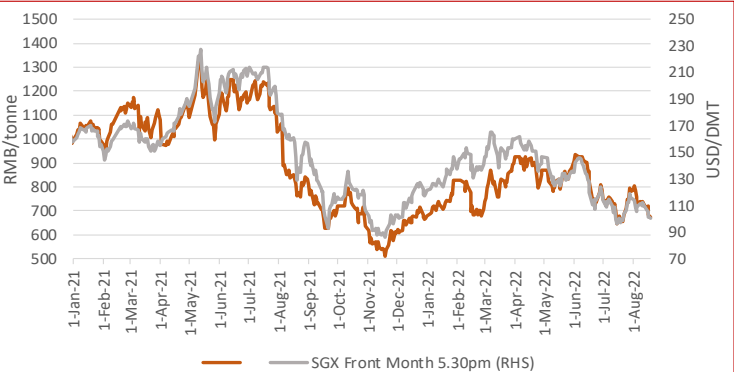
## IRON ORE SEABORNE TO PORT STOCK PRICE SPREADS (USD/DMT)



## TOTAL IRON ORE INVENTORIES AT CHINA PORTS (MILLION TONNES)



## FUTURE TRADING—FRONT MONTH CLOSING PRICE



## IRON ORE PORT INVENTORIES (MILLION TONNES)

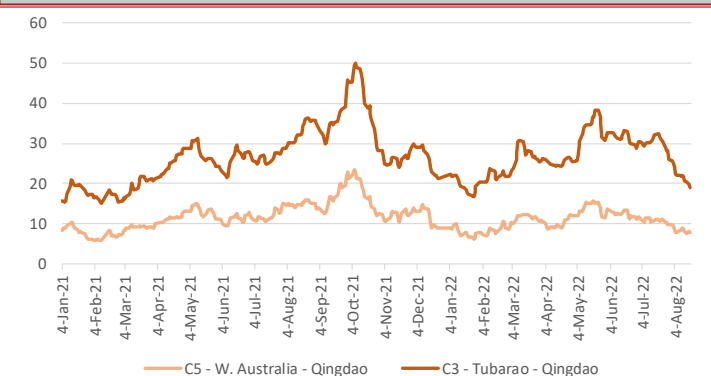
Week Ending Aug 19th, 2022

Province	This week	Change %	Low <sup>2</sup>	High <sup>2</sup>
Jingtang	12.19	2.35%	9.84	19.20
Qingdao	24.50	-1.41%	9.41	26.24
Caofeidian	10.59	1.92%	9.05	16.29
Tianjin	10.53	0.48%	7.14	12.97
Rizhao	18.40	3.37%	9.44	19.26
Total (35 Ports)	135.07	0.05%	98.80	155.39

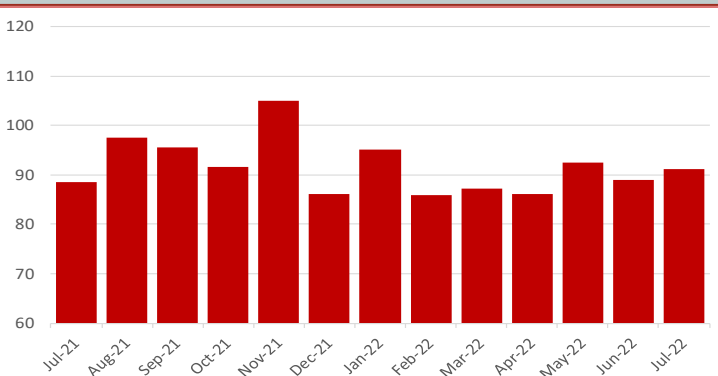
## IRON ORE FUTURES CONTRACTS

Closing Date	DCE (RMB/WMT)			SGX (USD/DMT)		
	Aug 19th, 3pm close			Aug 19th, 5:30pm		
Contract	I2301	Change	Change %	Sep. 22	Change	Change %
Closing Price	673.50	-5.00	-0.74%	100.75	-0.85	-0.84%
Vol traded ('000 lots)	86.74	-5.73	-6.19%	3.69	-0.24	-6.06%
Open positions ('000 lots)	71.12	0.85	1.21%	28.11	-0.75	-2.61%
Day Low	672.0	-4.50	-0.67%	100.40	-0.80	-0.79%
Day High	691.5	-9.00	-1.28%	102.50	-1.55	-1.49%

## 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	2022/8/19	Change	Change %
ReBar HRB400 $\phi$ 18mm	4,160	-60	-1.42%
Wirerod Q300 $\phi$ 6.5mm	4,620	-60	-1.28%
HRC Q235/SS400 5.5mm*1500*C	3,830	-190	-4.73%
CRC SPCC/ST12 1.0mm*1250*2500	4,370	-90	-2.02%
Medium & Heavy Plate Q235B 20mm	4,150	-50	-1.19%
GI ST02Z 1.0mm*1000*C	4,680	-60	-1.27%
Colour Coated Plate	7,600	0	0.00%

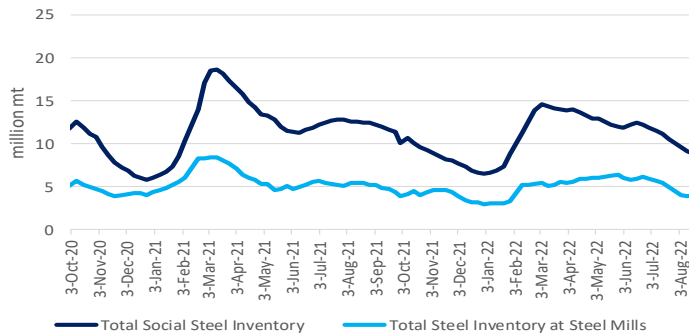
## CHINESE STEEL MILL PROFITABILITY

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

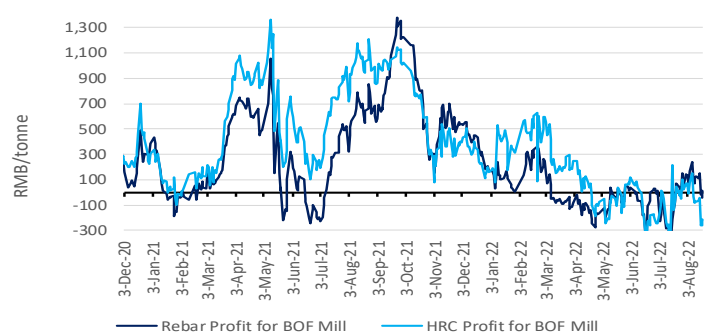
Category	Price	Change (WoW)	Note
MMi (Fe 62%), USD/mt excluding tax	105.15	-10	Mmi CFR Equivalent index for 1st Feb
Coke	3,020	220	2nd grade met coke, Tangshan, incl. tax
Steel Scrap	3,320	100	steel scrap (6mm) in Zhangjiagang, excl. tax
Billet Cost	3,617	-3	Q234, incl. tax
Rebar cost - Blast furnace	4,124	-1	calculated based on theoretical weight, incl. tax
Rebar profit - Blast furnace	-41	-166	based on Shanghai prices, incl. tax
Hot-rolled coil cost - Blast furnace	4,092	-0	based on actual weight, incl. tax
Hot-rolled coil profit - Blast furnace	-262	-190	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

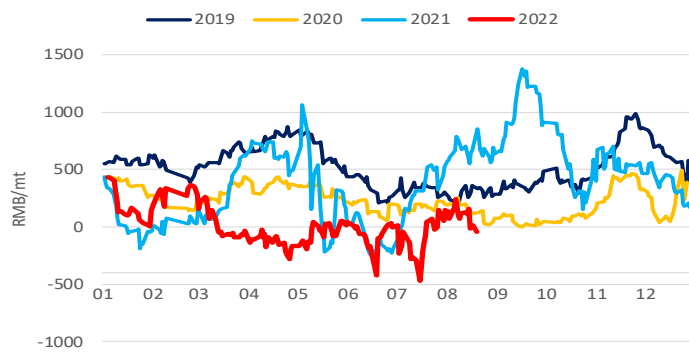
## CHINESE STEEL INVENTORIES



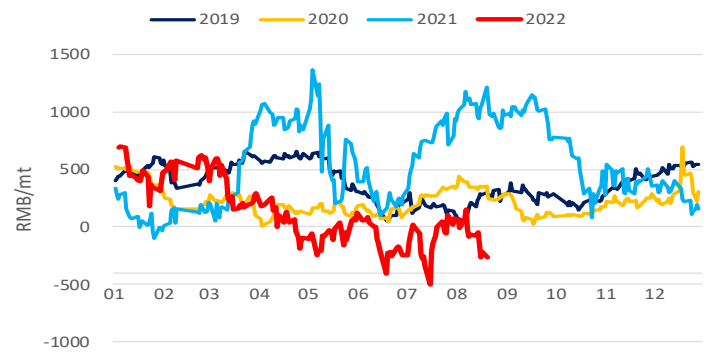
## CHINESE STEEL MILL PROFITABILITY



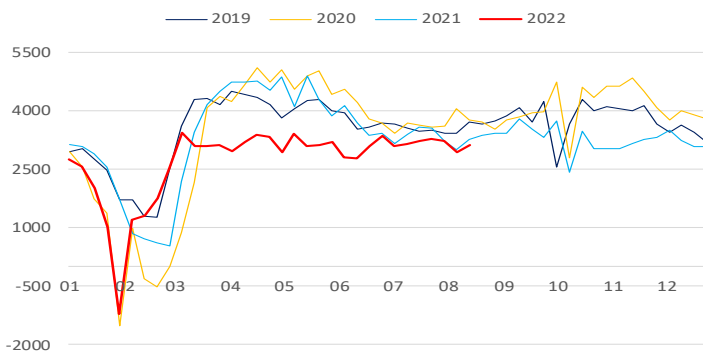
## CHINESE STEEL MILL PROFITABILITY—Rebar



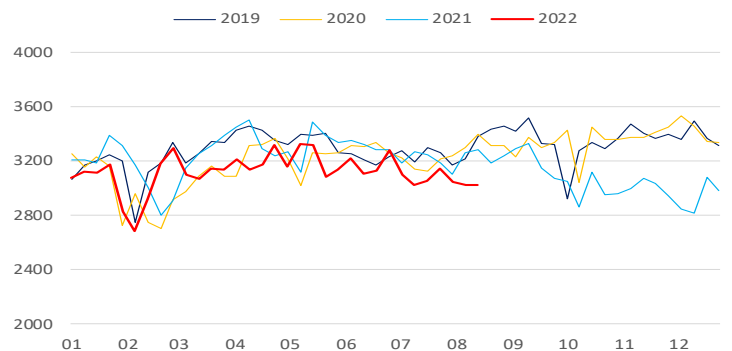
## CHINESE STEEL MILL PROFITABILITY—Hot-rolled Coil



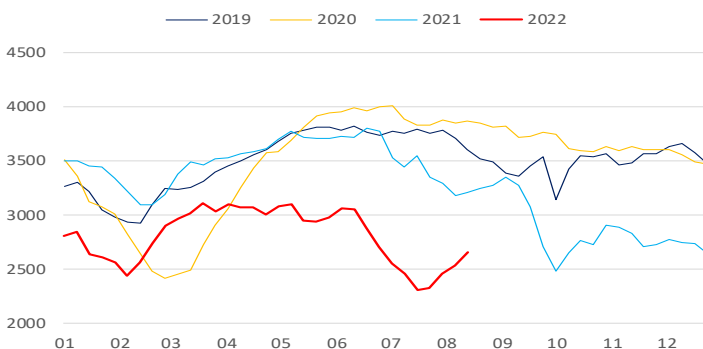
## CHINESE STEEL CONSUMPTION—Rebar



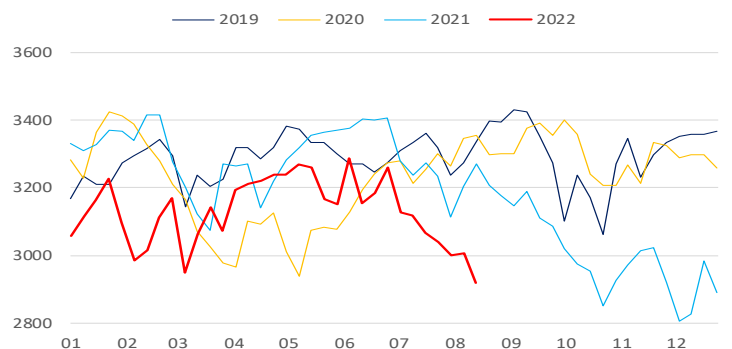
## CHINESE STEEL CONSUMPTION—Hot-rolled Coil



## 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	<div>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.</div> <div>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></div>			
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				
					Data Exclusions*			
					Port Index	62%	58%	65%
					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					
Aug 19th, 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%
Aug 19th, 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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