Metals Market Index MMI

MMi Dashboard

Iron Ore Price Indices

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

763
1 0.13%
Sep 9th, 2022

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

883
0.00 0.00%
Sep 9th, 2022

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

688
6 0.88%
Sep 9th, 2022

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

99.35
0.00 0.00%
Sep 9th, 2022

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

110.80
0.00 0.00%
Sep 9th, 2022

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

870
-5 -0.57%
Week Ending Sep 9th, 2022

Exchange Traded Contracts

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

720.50
14.50 2.05%
Sep 9th, 2022 (3pm close)

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

102.65
2.60 2.60%
Sep 9th, 2022 (5.30 pm Print)

SHFE Rebar
RB2301 (Jan) RMB/t

3791
72 1.94%
Sep 9th, 2022 (3pm close)

Freight Rates

C3, Tubarao - Qingdao USD/t

18.85
-0.43 -2.25%
Sep 8th, 2022

C5, W. Australia - Qingdao USD/t

7.79
0.04 0.58%
Sep 8th, 2022

Steel Price

Steel Rebar (China Domestic) RMB/t

4010
40 1.01%
Week Ending Sep 9th, 2022

Inventory Levels

Iron Ore Inventory at Chinese Ports (35)
million tonnes

132.88
-3.33 -2.44%
Week Ending Sep 9th, 2022

Steel Inventory in China
million tonnes

12.32
-0.24 -1.89%
Week Ending Sep 9th, 2022

Steel Price

Steel HRC (China Domestic) RMB/t

3930
80 2.08%
Week Ending Sep 9th, 2022

IRON ORE PORT STOCK INDEX (IOPI)

Sep 9th, 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	763	1	0.1%	774	908	587	1083	102.32	0.21	0.2%	105.20	129.11	84.25	159.06
IOPI58	58% Fe Fines	688	6	0.9%	683	754	454	907	92.89	0.91	1.0%	93.41	107.54	64.78	134.15
IOPI65	65% Fe Fines	883	0	0.0%	878	1070	811	1265	119.024	0.09	0.1%	119.88	153.00	111.38	187.25

IRON ORE SEABORNE INDEX (IOSI)

Sep 9th, 2022		CFR Qingdao, USD/dry tonne						
Index	Fe Content	Price	Change	Change %	MTD	YTD	Low [2]	High [2]
IOSI62	62% Fe Fines	99.35	0.00	0.00%	108.93	132.49	93.75	159.45
IOSI65	65% Fe Fines	110.80	0.00	0.00%	119.95	154.20	102.05	185.82

MARKET COMMENTARY

DCE iron ore futures rose largely by 3.74% today, the main contract closed 720.5. some traders were active to sell, Some steel mills tended to be wait-and-see, and purchasing enthusiasm is not high. total transactions remained insipid.PBF at Shandong port dealt 755 yuan/mt; increased 5 yuan/mt over yesterday.SSF at Shandong port dealt 645 yuan/mt over yesterday. increased 5 yuan/mt over yesterday; PBF at Tangshan port dealt 765 yuan/mt; increased 5-10 yuan/mt over yesterday.As of September 9, the 35 ports tracked by SMM had a total inventory of 132.88 million tons, a decrease of 3.33 million tons over last week and an increase of 5.53 million tons over the same period last year. In this period, the average daily port clearance volume of imported mines increased by 133000 tons to 2.899 million tons week on week. This week is approaching the Mid Autumn Festival holiday, and the steel plant just needs to replenish its stock. This led to an increase in port dredging and a decrease in inventory. In the later period, the improvement of terminal demand will lead to the increase of steel demand, but the supply is still greater than the demand, which will suppress the price of finished products, and it is difficult for the profit of steel mills to improve. Steel mills

IRON ORE PORT LUMP INDEX (IOPLI)

Week Ending Sep 9th, 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	-5	-0.6%	891	1118	730	1405	112.53	-1.05	-0.93%	116.68	153.39	101.00	199.00

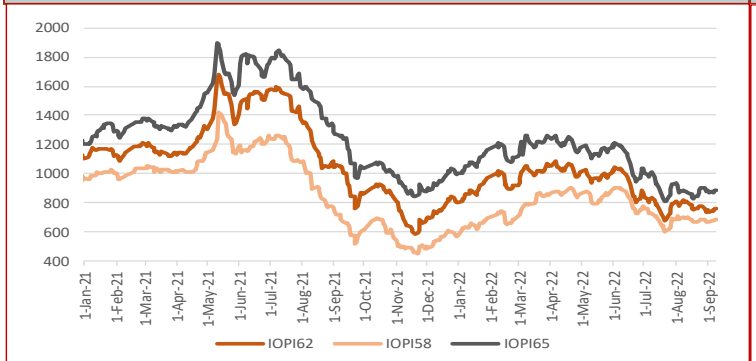
IRON ORE DOMESTIC CONCENTRATE SPOT PRICE ASSESSMENTS AND COMPOSITE INDEX

Week Ending Sep 9th, 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	900	-2.9%	779	1645	130.25	-3.29%	110.31	255.69
Hebei	Qian'an	65% Fe Concentrate	Dry	885	2.3%	780	1630	128.08	1.91%	110.51	251.57
Liaoning	Anshan	65% Fe Concentrate	Wet	710	0.0%	620	1310	102.75	-0.39%	87.40	202.32
Shandong	Zibo	65% Fe Concentrate	Dry	923	-2.8%	800	1752	133.57	-3.22%	122.55	272.32

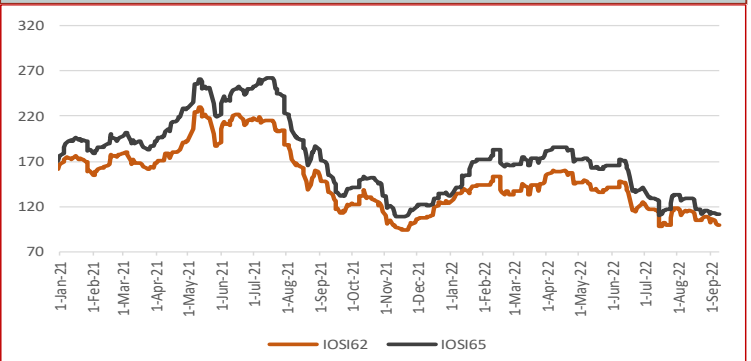
Week Ending Sep 9th, 2022	This week	Change %	Low [2]	High [2]
China Mines Concentrate Composite Index RMB/WT	826.23	-0.39%	706.36	1511.22

[1] Exchange rate applied: RMB/USD = 6.7522 [2] Last 12 months
[3] Weekly exchange rate applied: RMB/USD =6.91

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 9th, 2022		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	June	August	MTD	QTD	YTD
IOPI62	62% Fe Fines	981	934	770	781	**774**	772	908	136.86	130.13	106.01	106.64	**105.20**	105.53	129.11
IOPI58	58% Fe Fines	841	823	682	685	**683**	682	754	118.11	115.45	94.43	94.05	**93.41**	93.83	107.54
IOPI65	65% Fe Fines	1152	1086	915	878	**878**	893	1070	161.44	151.89	126.73	120.31	**119.88**	122.70	153.00

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

Sep 9th, 2022		CFR Qingdao, USD/dry tonne						
Index	Fe Content	May	June	July	August	MTD	QTD	YTD
IOSI62	62% Fe Fines	141.17	131.96	110.07	110.64	**108.93**	109.41	132.49
IOSI65	65% Fe Fines	166.30	154.17	124.60	112.53	**119.95**	121.89	154.20

FREIGHT RATES

Sep 8th, 2022		FREIGHT RATES - DRY BULK US$/wet tonne				
Route	Designation		Change	Change %	Low [2]	High [2]
W. Australia - Qingdao	C5	7.79	0.04	0.58%	3.57	16.77
Tubarao - Qingdao	C3	18.85	-0.43	-2.25%	6.70	36.40

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

Week Ending Sep 9th, 2022		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	1232	1189	906	900	**891**	898	1118	164.53	159.78	120.36	118.50	**116.68**	118.35	153.39

IRON ORE INDEX PREMIUMS/DISCOUNTS

Sep 9th, 2022		PORT STOCK INDEX (RMB/WT)	
Index	Fe Content	Spread to IOPI62	% Spread to IOPI62
IOPI58	58% Fe Fines	**-75**	-9.83%
IOPI65	65% Fe Fines	**120**	15.73%

Sep 9th, 2022		SEABORNE INDEX (USD/DMT)	
Index	Fe Content	Spread to IOSI62	% Spread to IOSI62
IOSI65	65% Fe Fines	**11.45**	11.52%

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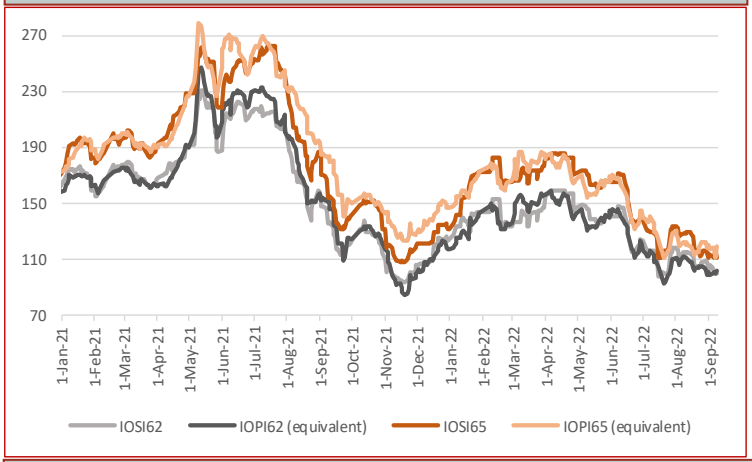
IRON ORE INDEX COMPARISONS (USD/DMT)



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

IRON ORE BRAND SPOT PRICE ASSESMENTS

Sep 9th, 2022	PORT STOCK INDEX (RMB/WT)		
	Price	Change	Diff to IOPI62
Roy Hill	706	1	-57
SIMEC Fines	633	1	-130
PB Fines	733	1	-30
Newman Fines	731	1	-32
MAC Fines	713	1	-50
Jimblebar Blended Fines	627	1	-136
Carajas Fines	943	1	180
Brazilian SSF	725	1	-38
Brazilian Blend Fines	746	1	-17
RTX Fines	646	2	-117
West Pilbara Fines	675	1	-88

Sep 9th, 2022	SEABORNE INDEX (USD/DMT)		
	Price	Change	Diff to IOSI62
Roy Hill	94.85	0.00	-4.50
SIMEC Fines	91.35	0.00	-8.00
PB Fines	95.60	0.00	-3.75
Newman Fines	98.48	0.00	-0.87
MAC Fines	95.60	0.00	-3.75
Jimblebar Blended Fines	87.98	0.00	-11.37
Carajas Fines	128.90	0.00	29.55
Brazilian SSF	103.10	0.00	3.75
Brazilian Blend Fines	104.73	0.00	5.38
RTX Fines	89.23	0.00	-10.12
West Pilbara Fines	93.60	0.00	-5.75

Sep 9th, 2022	PORT STOCK INDEX (RMB/WT)		
	Price	Change	Diff to IOPI58
SSF	688	6	0
FMG Blended Fines	696	6	8
Robe River	697	6	9
Western Fines	700	6	12
Atlas Fines	694	6	6
Yandi	682	6	-6

IRON ORE INDEX NORMALISATION DIFFERENTIALS

Port Stock Index Product Differentials (RMB/wet tonne)

	Applicable range	Value	Change
1% Fe	High Grade Fe 60 - 63%	3.00	0.00
	High Grade Fe 63 - 64%	32.00	0.00
	High Grade Fe 64 - 65%	32.00	0.00
	High Grade Fe 65 - 65.5%	32.00	0.00
	Low Grade Fe	12.00	0.00
1% Alumina	High Fe Grade Al <2.25%	18.00	-1.00
	High Fe Grade Al 2.25-4%	5.00	0.00
	Low Fe Grade Al <2.25%	18.00	-1.00
	Low Fe Grade Al 2.25-4%	6.00	1.00
1% Silica	High Fe Grade Si <4%	15.00	0.00
	High Fe Grade Si 4-6.5%	21.00	2.00
	Low Fe Grade	24.00	0.00
0.01% Phosphorus	High Fe Grade 0.09%<P<0.115%	6.00	0.00
	High Fe Grade 0.115%<P<0.15%	6.00	0.00
	Low Fe Grade 0.09<P<0.1%	5.00	0.00

Seaborne Index Product Differentials (USD/dry tonne)

	Applicable range	Value	Change
1% Fe	High Grade Fe 60 - 63%	3.25	0.00
	High Grade Fe 63 - 64%	0.75	0.00
	High Grade Fe 64 - 65%	0.75	0.00
	High Grade Fe 65 - 65.5%	0.75	0.00
1% Alumina	High Fe Grade Al <2.25%	0.25	0.00
	High Fe Grade Al 2.25-4%	0.25	0.00
1% Silica	High Fe Grade Si <4%	2.50	0.00
	High Fe Grade Si 4 - 6.5%	2.50	-0.25
0.01% Phosphorus	High Fe Grade 0.09%<P<0.115%	1.75	0.00
	High Fe Grade 0.115%<P<0.15%	3.25	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	-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

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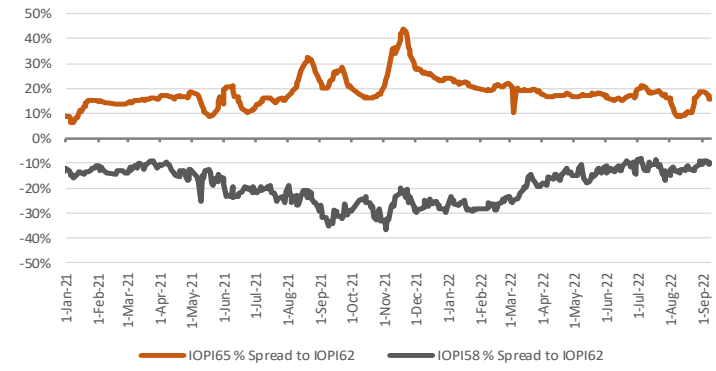
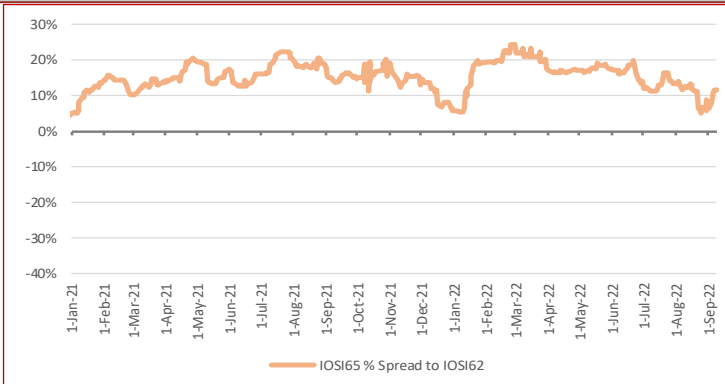
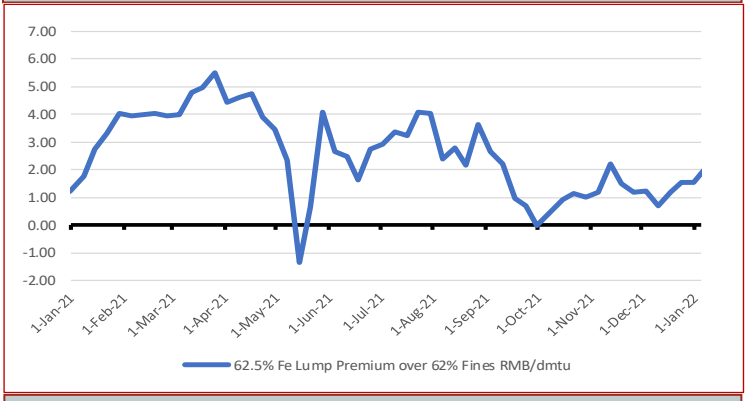
IRON ORE INDEX PREMIUMS/DISCOUNTS

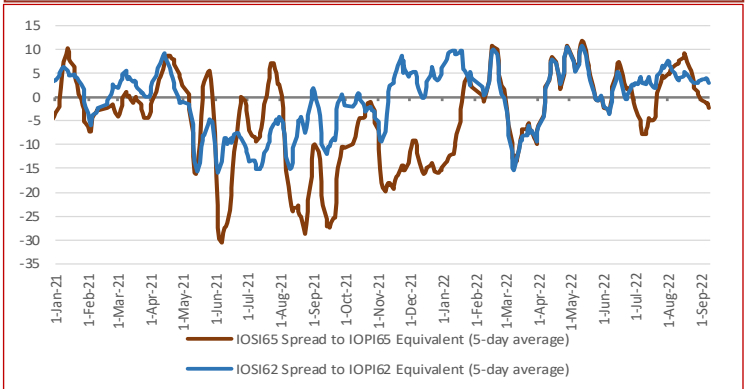




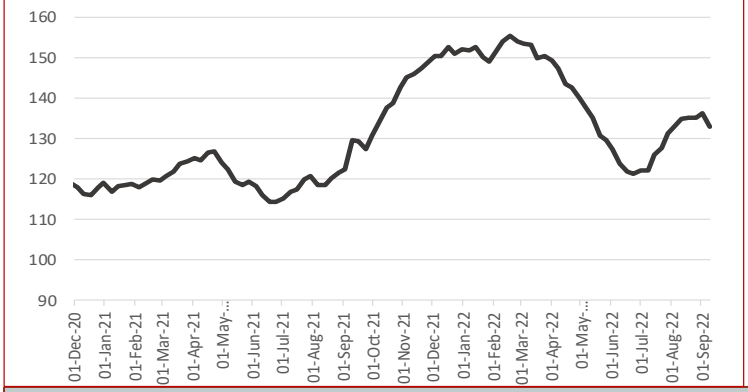
WEEKLY IRON ORE PORT STOCK LUMP PREMIUM (RMB/DMTU)



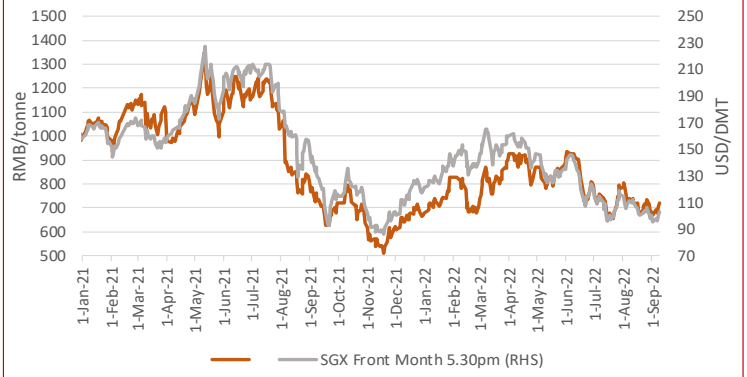
IRON ORE SEABORNE TO PORT STOCK PRICE SPREADS (USD/DMT)



TOTAL IRON ORE INVENTORIES AT CHINA PORTS (MILLION TONNES)



FUTURE TRADING—FRONT MONTH CLOSING PRICE



IRON ORE PORT INVENTORIES (MILLION TONNES)

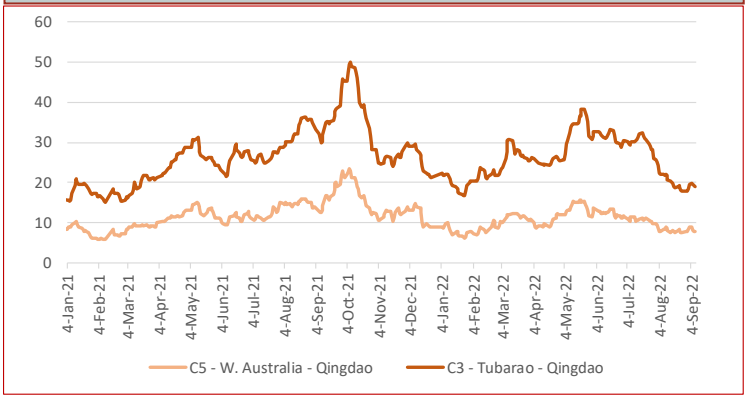
Week Ending Sep 9th, 2022

Province	This week	Change %	Low [2]	High [2]
Jingtang	12.46	-0.80%	9.84	19.20
Qingdao	24.55	-0.61%	9.41	26.24
Caofeidian	12.20	2.35%	9.05	16.29
Tianjin	10.58	0.00%	7.14	12.97
Rizhao	18.50	-1.28%	9.44	19.26
Total (35 Ports)	132.88	-2.44%	98.80	155.39

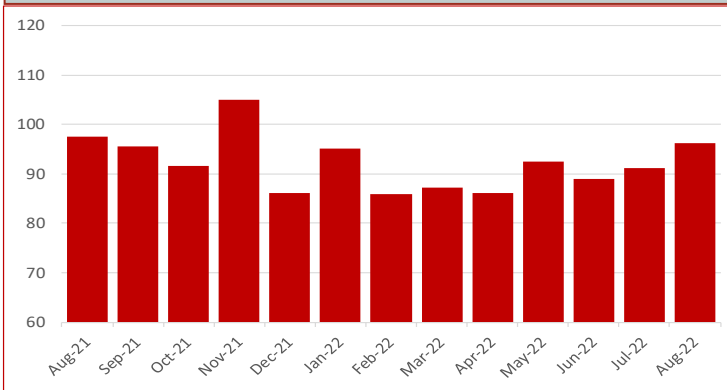
IRON ORE FUTURES CONTRACTS

	DCE (RMB/WMT)			SGX (USD/DMT)		
Closing Date	Sep 9th, 3pm close			Sep 9th, 5:30pm		
Contract	I2301	Change	Change %	Oct. 22	Change	Change %
Closing Price	720.50	14.50	2.05%	102.65	2.60	2.60%
Vol traded ('000 lots)	70.22	-17.80	-20.22%	5.27	-0.16	-2.88%
Open positions ('000 lots)	75.44	1.38	1.87%	29.48	0.49	1.71%
Day Low	703.5	25.50	3.76%	99.25	3.25	3.39%
Day High	724.5	16.00	2.26%	103.40	2.55	2.53%

DRY BULK FREIGHT RATES (USD/MT)



TOTAL CHINA IRON ORE IMPORT VOLUMES (MILLION TONNES)



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STEEL SPOT MARKET PRICES—CHINA

Steel Spot Market RMB/tonne

Product	2022/9/9	Change	Change %
ReBar HRB400 ϕ18mm	4,010	40	1.01%
Wirerod Q300 ϕ6.5mm	4,280	20	0.47%
HRC Q235/SS400 5.5mm*1500*C	3,930	80	2.08%
CRC SPCC/ST12 1.0mm*1250*2500	4,360	30	0.69%
Medium & Heavy Plate Q235B 20mm	4,090	-10	-0.24%
GI ST02Z 1.0mm*1000*C	4,640	10	0.22%
Colour Coated Plate	7,550	0	0.00%

CHINESE STEEL MILL PROFITABILITY

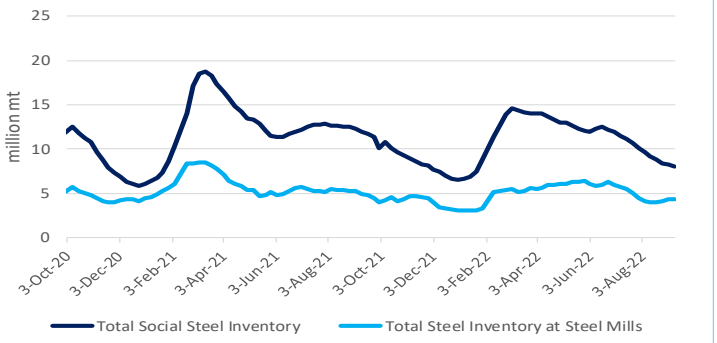
SMM Tracking of Steel Mill P&L - Rebar and Hot-rolled Coil (RMB/tonne)

Category	Price	Change (WoW)	Note
MMi (Fe 62%), USD/mt exluding tax	99.35	-7	Mmi CFR Equivalent index for 1st Feb
Coke	2,910	-10	2nd grade met coke, Tangshan, incl. tax
Steel Scrap	3,140	0	steel scrap (6mm) in Zhangjiagang, exl. tax
Billet Cost	3,545	-28	Q234, incl. tax
Rebar cost - Blast furnace	4,040	-32	calculated based on theoretical weight, incl. tax
Rebar profit - Blast furnace	-40	112	based on Shanghai prices, incl. tax
Hot-rolled coil cost - Blast furnace	4,006	-36	based on actual weight, incl. tax
Hot-rolled coil proft - Blast furnace	-76	116	based on Shanghai prices, incl. tax

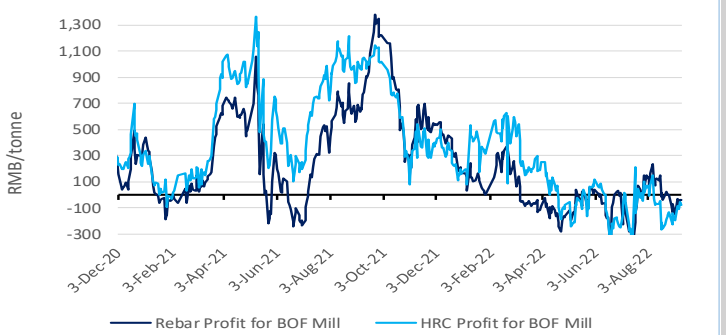
Note: 1. Costs in the table are caluclated based on todays market prices and facout our management, sales, financial and depreciations fe

2. The cost refers to average cost in the industry based on SMM's survey of small, medium and large mills in China

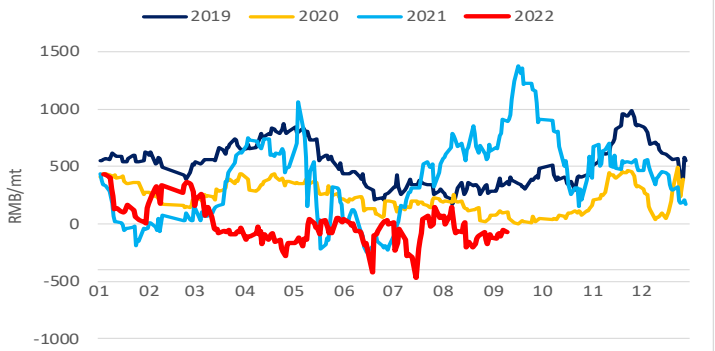
CHINESE STEEL INVENTORIES



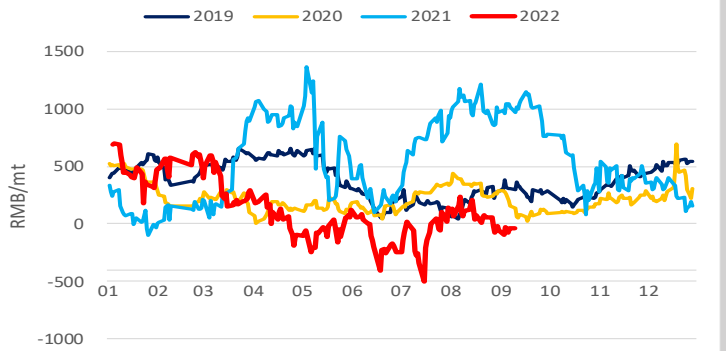
CHINESE STEEL MILL PROFITABILITY



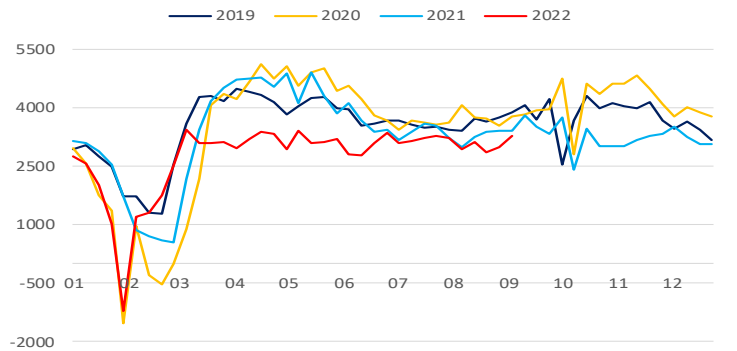
CHINESE STEEL MILL PROFITABILITY—Rebar



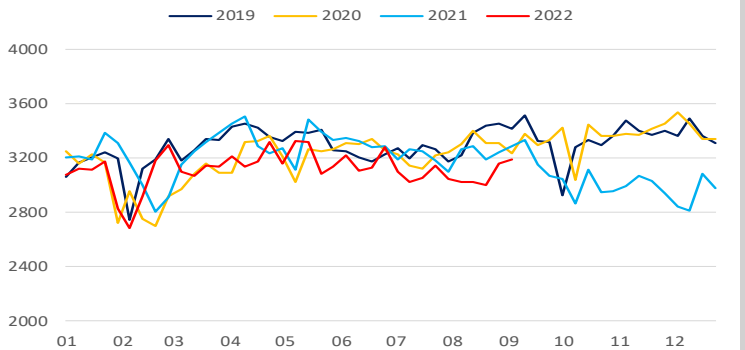
CHINESE STEEL MILL PROFITABILITY—Hot-rolled Coil



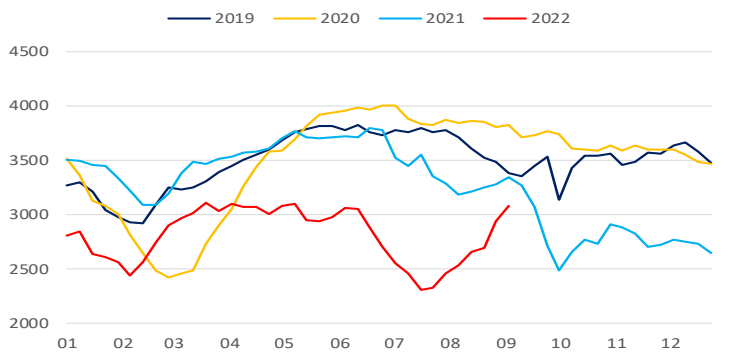
CHINESE STEEL CONSUMPTION—Rebar



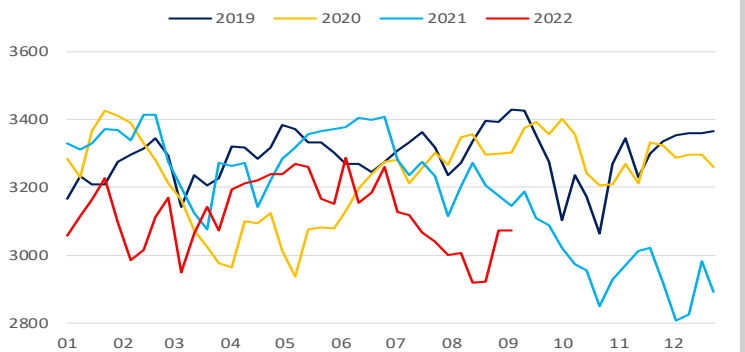
CHINESE STEEL CONSUMPTION—Hot-rolled Coil



CHINESE STEEL PRODUCTION—Rebar



CHINESE STEEL PRODUCTION—Hot-rolled Coil



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IRON ORE INDEX SPECIFICATIONS, COMPILATION RATIONALE AND DATA EXCLUSIONS

Iron Ore Index Specifications (Port and Seaborne)

	65% Fe Fines	62% Fe Fines	58% Fe Fines	62.5% Fe Lump
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

Iron Ore Index Compilation Rationale and Data Exclusions

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

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

Sep 9th, 2022	Specifications applied for 62% brand assessments				
	Fe	Alumina	Silica	Phos	Moisture
Roy Hill	60.88%	2.35%	4.45%	0.055%	9.26%
SIMEC Fines	60.00%	2.30%	6.30%	0.060%	6.00%
PB Fines	61.64%	2.31%	3.87%	0.099%	9.45%
Newman Fines	62.49%	2.31%	3.98%	0.090%	7.72%
MAC Fines	60.43%	2.38%	4.64%	0.078%	7.57%
Jimblebar Blended Fines	60.87%	2.95%	4.53%	0.111%	7.32%
Carajas Fines	64.90%	1.39%	1.82%	0.080%	7.78%
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%
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%

Sep 9th, 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%

SEABORNE BRANDS

	Specifications applied for 62% brand assessments				
	Fe	Alumina	Silica	Phos	Moisture
Roy Hill	60.70%	2.30%	4.90%	0.055%	8.00%
SIMEC Fines	60.00%	2.30%	6.30%	0.060%	6.00%
PB Fines 62%	62.00%	2.60%	4.30%	0.090%	9.50%
Newman Fines	62.30%	2.40%	4.30%	0.095%	8.00%
MAC Fines	60.80%	2.35%	4.40%	0.075%	7.80%
Jimblebar Blended Fines	60.50%	3.10%	4.80%	0.120%	7.80%
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 Blend Fines	63.00%	1.50%	5.00%	0.070%	7.00%
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%

BLOOMBERG TICKERS

	PORT STOCK INDICES	
	FOT Qingdao (RMB/wet tonne)	CFR Qingdao Equivalent (USD/dry tonne)
IOPI62	IRCNQ001	IRCNQ004
IOPI58	IRCNQ002	IRCNQ005
IOPI65	IRCNQ003	IRCNQ006
IOPLI62	IRCN0036	IRCN0037

	SEABORNE INDICES
	CFR Qingdao (USD/DMT)
IOSI62	IRCN0034
IOSI65	IRCN0035

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