



MMi Dashboard

Iron Ore Price Indices

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

 **975**

11 1.14%

Nov 1st, 2023

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

 **1087**

11.03 1.03%

Nov 1st, 2023

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

 **873**

1 0.08%

Nov 1st, 2023

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

 **111.04**

4.08 3.81%

Nov 1st, 2023

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

 **140.11**

0.00 0.00%

Nov 1st, 2023

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

 **1125**

-7 -0.62%

Week Ending Oct 27th, 2023

Exchange Traded Contracts

DCE Iron Ore 62% Fines
I2401 (Jan) RMB/t (3pm close)

 **919.50**

21.00 2.34%

Nov 1st, 2023 (3pm close)

SGX Iron Ore (CFR Qingdao) 62% Fe Fines
December 23 USD/dmt

 **121.35**

2.20 1.85%

Nov 1st, 2023 (5.30 pm Print)

SHFE Rebar
RB2401 (Jan) RMB/t

 **3749**

16 0.43%

Nov 1st, 2023 (3pm close)

Freight Rates

C3, Tubarao - Qingdao USD/t

 **20.84**

0.03 0.16%

Oct 31st, 2023

C5, W. Australia - Qingdao USD/t

 **8.48**

-0.02 -0.18%

Oct 31st, 2023

Steel Price

Steel Rebar (China Domestic) RMB/t

 **3790**

60 1.61%

Week Ending Oct 27th, 2023

Inventory Levels

Iron Ore Inventory at Chinese Ports (35)
million tonnes

 **105.75**

0.74 0.70%

Week Ending Oct 27th, 2023

Steel Inventory in China
million tonnes

 **10.94**

-0.53 -4.59%

Week Ending Oct 27th, 2023

Steel Price

Steel HRC (China Domestic) RMB/t

 **3790**

40 1.07%

Week Ending Oct 27th, 2023

IRON ORE PORT STOCK INDEX (IOPI)

Nov 1st, 2023		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	975	11.0	1.14%	869	880	858	892	126.90	1.48	1.2%	120.06	120.58	117.93	122.93
IOPI58	58% Fe Fines	873	0.7	0.08%	813	798	761	793	114.42	0.10	0.1%	113.29	110.17	105.29	110.04
IOPI65	65% Fe Fines	1087	11.0	1.03%	981	992	970	1003	141.87	1.48	1.1%	136.05	136.43	133.84	138.73

IRON ORE SEABORNE INDEX (IOSI)

MARKET COMMENTARY

Nov 1st, 2023		CFR Qingdao, USD/dry tonne							DCE iron ore futures market rose sharply trends by 2.51%, the main contract I2401 closed 919.5. Traders ship according to market conditions. and Steel mills inquiry for low price purchase. PBF at Shandong port dealt 962-968 yuan/mt; increased 10 yuan/mt over yesterday. The central financial work conference that ended yesterday involved relatively positive policies in monetary policy, real estate regulation, and finance, with high market sentiment. In addition, there has been no significant decline in the production of molten iron recently, and port inventory is at a low level. And from the production and sales reports of the four major mines in the third quarter, it can be seen that the future supply increment is limited, and the supply and demand of iron ore will still maintain a tight balance. There has been a significant increase in mining prices. In the short term, this situation may continue. Considering the losses and regulatory risks of steel mills, it is expected that iron ore prices will fluctuate under pressure.						
Index	Fe Content	Price	Change	Change %	MTD	YTD	Low ²	High ²							
IOSI62	62% Fe Fines	111.04	4.08	3.81%	113.10	113.10	87.20	146.75							
IOSI65	65% Fe Fines	140.11	0.00	0.00%	125.03	125.03	95.60	147.55							

IRON ORE PORT LUMP INDEX (IOPLI)

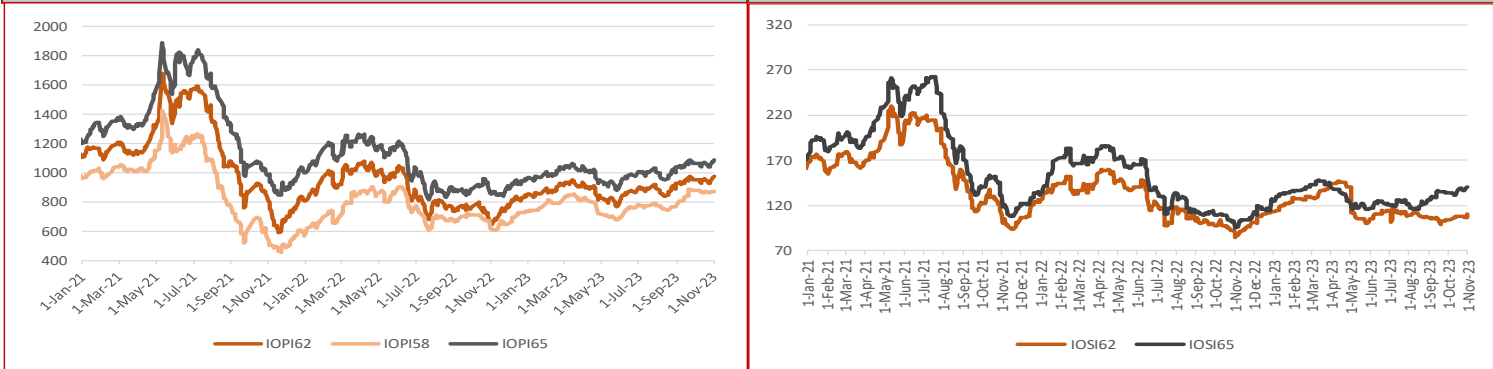
Week Ending Oct 27th, 2023		FOT Qingdao (inc. 13% VAT), RMB/wet tonne							CFR Qingdao Equivalent (exc. 13% VAT), USD/dry tonne ³						
Index	Fe Content	Price	W-o-W	Change %	MTD	YTD	Low ²	High ²	Price	W-o-W	Change %	MTD	YTD	Low ²	High ²
IOPLI62	62.5% Fe Lump	1125	-7	-0.6%	947	1020	770	1132	140.87	-0.88	-0.62%	120.46	134.92	94.72	141.75

IRON ORE DOMESTIC CONCENTRATE SPOT PRICE ASSESSMENTS AND COMPOSITE INDEX

Week Ending Oct 27th, 2023				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	1066	1.4%	779	1645	148.50	1.44%	110.31	255.69
Hebei	Qian'an	65% Fe Concentrate	Dry	1095	-0.9%	780	1630	152.54	-0.89%	110.51	251.57
Liaoning	Anshan	65% Fe Concentrate	Wet	800	-0.6%	620	1310	111.44	-0.61%	87.40	202.32
Shandong	Zibo	65% Fe Concentrate	Dry	1134	0.9%	800	1752	157.97	0.90%	117.19	272.32
Week Ending Oct 27th, 2023				This week	Change %	Low ²	High ²	¹ Exchange rate applied: RMB/USD = 6.7522 ² Last 12 months ³ Weekly exchange rate applied: RMB/USD = 6.87528			
China Mines Concentrate Composite Index RMB/WT				982.65	-0.16%	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

Nov 1st, 2023		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	863	896	873	945	869	881	880	112.38	116.58	113.28	122.79	120.06	120.90	120.58
IOPI58	58% Fe Fines	748	777	759	838	813	792	798	97.98	101.68	99.13	109.67	113.29	109.35	110.17
IOPI65	65% Fe Fines	975	1008	985	1057	981	993	992	127.41	131.57	128.31	137.74	136.05	136.72	136.43

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

FREIGHT RATES

Nov 1st, 2023		CFR Qingdao, USD/dry tonne							Oct 31st, 2023						
Index	Fe Content	June	July	August	September	MTD	QTD	YTD	Route	Designation	Change	Change %	Low ²	High ²	
IOSI62	62% Fe Fines	110.54	108.57	109.02	104.25	112.14	112.22	113.10	W. Australia - Qingdao	C5	8.48	-0.02	-0.18%	3.57	16.77
IOSI65	65% Fe Fines	135.30	147.39	119.61	132.40	122.86	124.16	125.03	Tubarao - Qingdao	C3	20.84	0.03	0.16%	6.70	36.40

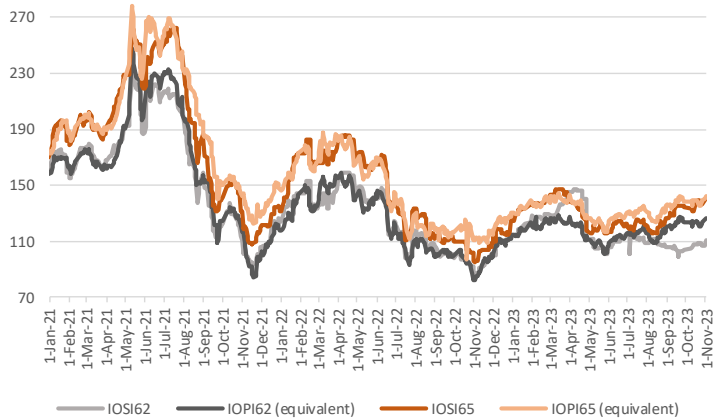
IRON ORE PORT LUMP INDEX MONTHLY, QUARTERLY AND YEAR-TO-DATE AVERAGES

Week Ending Oct 27th, 2023		FOT Qingdao (inc. 13% VAT), RMB/wet tonne							CFR Qingdao Equivalent (exc. 13% VAT), USD/dry tonne ¹						
Index	Fe Content	June	July	August	September	MTD	QTD	YTD	June	July	August	September	MTD	QTD	YTD
IOPLI62	62.5% Fe Lump	969	980	951	1043	933	944	1017	121.33	122.51	118.96	130.25	119.96	120.45	134.98

IRON ORE INDEX PREMIUMS/DISCOUNTS

Nov 1st, 2023		PORT STOCK INDEX (RMB/WT)		Nov 1st, 2023		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	-102	-10.51%	IOSI65	65% Fe Fines	29.07	26.18%
IOPI65	65% Fe Fines	112	11.46%				

IRON ORE INDEX COMPARISONS (USD/DMT)



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



IRON ORE BRAND SPOT PRICE ASSESSMENTS

Nov 1st, 2023				Nov 1st, 2023			
PORT STOCK INDEX (RMB/WT)				SEABORNE INDEX (USD/DMT)			
	Price	Change	Diff to IOPI62		Price	Change	Diff to IOSI62
Roy Hill	918	11	-57	Roy Hill	106.50	4.00	-4.54
SIMEC Fines	850	12	-125	SIMEC Fines	103.00	4.00	-8.04
PB Fines	942	11	-33	PB Fines	107.25	4.00	-3.79
Newman Fines	945	12	-30	Newman Fines	110.15	4.00	-0.89
MAC Fines	925	11	-50	MAC Fines	107.25	4.00	-3.79
Jimblebar Blended Fines	841	11	-134	Jimblebar Blended Fines	99.65	4.00	-11.39
Carajas Fines	1156	11	181	Carajas Fines	140.55	4.00	29.51
Brazilian SSF	941	11	-34	Brazilian SSF	114.75	4.00	3.71
Brazilian Blend Fines	955	11	-20	Brazilian Blend Fines	116.40	4.00	5.36
RTX Fines	859	11	-116	RTX Fines	100.90	4.00	-10.14
West Pilbara Fines	886	11	-89	West Pilbara Fines	105.25	4.00	-5.79
Nov 1st, 2023							
PORT STOCK INDEX (RMB/WT)							
	Price	Change	Diff to IOPI58				
SSF	873	1	1				
FMG Blended Fines	884	1	12				
Robe River	885	1	13				
Western Fines	888	1	16				
Atlas Fines	881	1	9				
Yandi	865	1	-8				

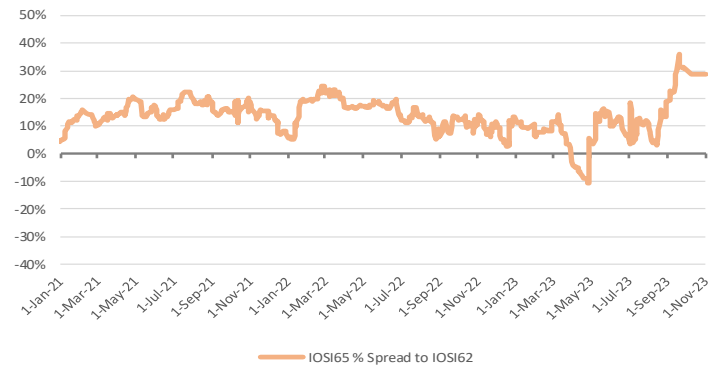
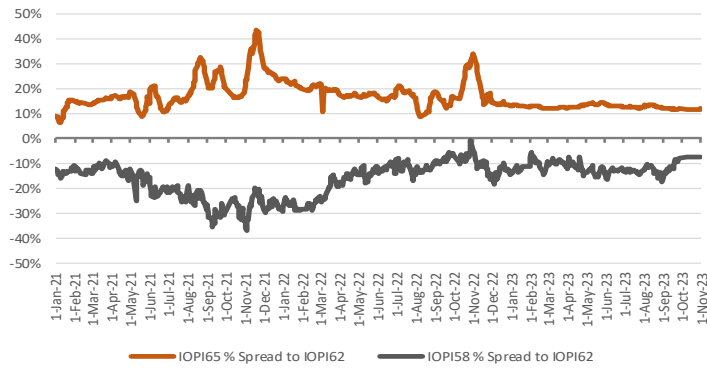
IRON ORE INDEX NORMALISATION DIFFERENTIALS

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%	5.00	0.00	1% Fe	High Grade Fe 60 - 63%	6.25	0.00
	High Grade Fe 63 - 64%	25.00	1.00		High Grade Fe 63 - 64%	2.75	0.00
	High Grade Fe 64 - 65%	25.00	1.00		High Grade Fe 64 - 65%	2.75	0.00
	High Grade Fe 65 - 65.5%	25.00	1.00		High Grade Fe 65 - 65.5%	2.75	0.00
	Low Grade Fe	15.00	0.00				
1% Alumina	High Fe Grade Al <2.25%	19.00	0.00	1% Alumina	High Fe Grade Al <2.25%	3.25	0.00
	High Fe Grade Al 2.25-4%	8.00	0.00		High Fe Grade Al 2.25-4%	0.75	0.00
	Low Fe Grade Al <2.25%	10.00	5.00				
	Low Fe Grade Al 2.25-4%	5.00	0.00				
	High Fe Grade Si <4%	16.00	1.00		High Fe Grade Si <4%	0.25	0.00
1% Silica	High Fe Grade Si 4-6.5%	27.00	2.00	1% Silica	High Fe Grade Si 4 - 6.5%	2.50	0.00
	Low Fe Grade	5.00	0.00				
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%	0.25	0.00
	High Fe Grade 0.115%<P<0.15%	5.00	0.00		High Fe Grade 0.115%<P<0.15%	1.50	-0.50
	Low Fe Grade 0.09<P<0.1%	5.00	0.00				

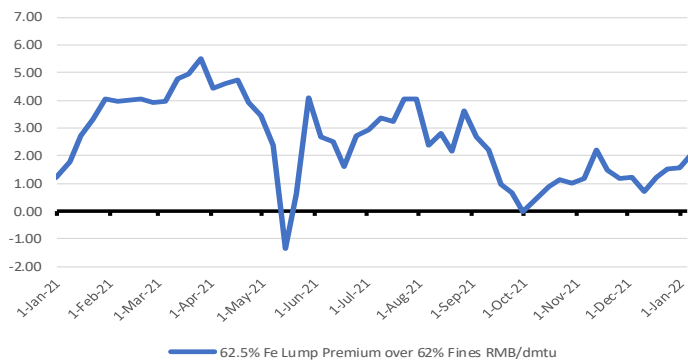
Port Stock Price Differentials to Qingdao Port for PB Fines (RMB/wet tonne)

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	-20.00	10.00	Lianyungang	0.00	0.00	Shekou	0.00	0.00
Caofeidian	-10.00	5.00	Jingtang	-10.00	5.00	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	-30.00	0.00

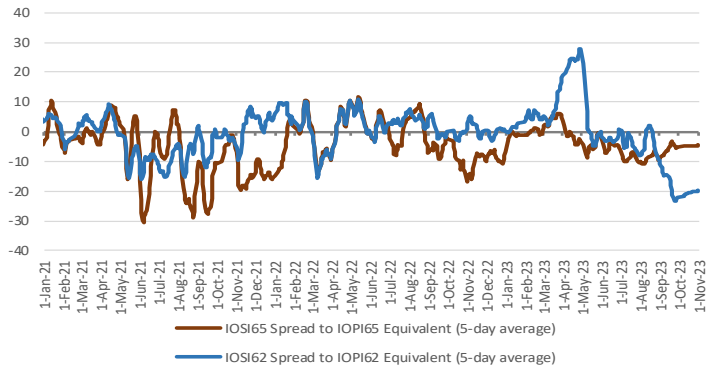
IRON ORE INDEX PREMIUMS/DISCOUNTS



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



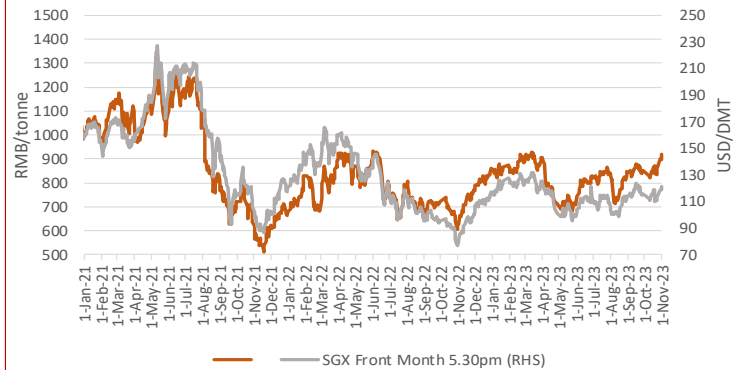
IRON ORE SEABORNE TO PORT STOCK PRICE SPREADS (USD/DMT)



TOTAL IRON ORE INVENTORIES AT CHINA PORTS (MILLION TONNES)



FUTURE TRADING—FRONT MONTH CLOSING PRICE



IRON ORE PORT INVENTORIES (MILLION TONNES)

Week Ending Oct 27th, 2023

Province	This week	Change %	Low ²	High ²
Jingtang	8.46	-2.76%	8.46	19.20
Qingdao	22.37	-6.32%	9.41	26.24
Caofeidian	7.56	-21.09%	7.56	16.29
Tianjin	7.09	9.24%	6.49	12.97
Rizhao	11.99	-1.72%	9.44	19.26
Total (35 Ports)	105.75	0.70%	98.80	155.39

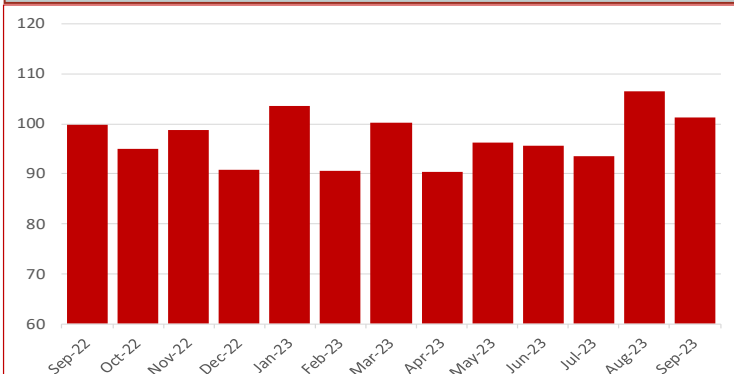
IRON ORE FUTURES CONTRACTS

Closing Date	DCE (RMB/WMT)			SGX (USD/DMT)		
	Nov 1st, 3pm close			Nov 1st, 5:30pm		
Contract	I2401	Change	Change %	Dec. 23	Change	Change %
Closing Price	919.50	21.00	2.34%	121.35	2.20	1.85%
Vol traded ('000 lots)	64.94	19.58	43.15%	7.53	2.08	38.22%
Open positions ('000 lots)	92.57	0.74	0.80%	36.75	1.80	5.16%
Day Low	895.0	4.00	0.45%	118.85	1.20	1.02%
Day High	923.0	18.50	2.05%	121.80	2.30	1.92%

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	2023/10/27	Change	Change %
ReBar HRB400 ϕ 18mm	3,790	60	1.61%
Wirerod Q300 ϕ 6.5mm	3,980	50	1.27%
HRC Q235/SS400 5.5mm*1500*C	3,790	40	1.07%
CRC SPCC/ST12 1.0mm*1250*2500	4,760	-40	-0.83%
Medium & Heavy Plate Q235B 20mm	3,770	10	0.27%
GI ST02Z 1.0mm*1000*C	5,040	-10	-0.20%
Colour Coated Plate	6,900	-50	-0.72%

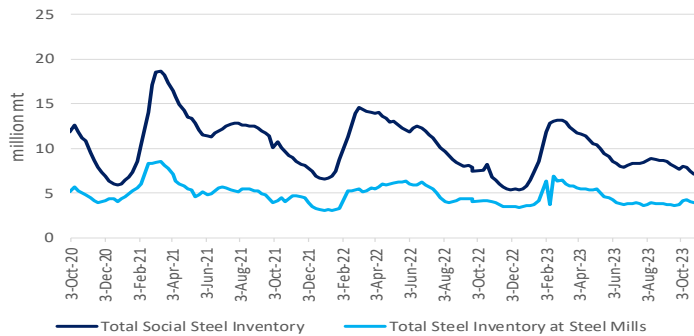
CHINESE STEEL MILL PROFITABILITY

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

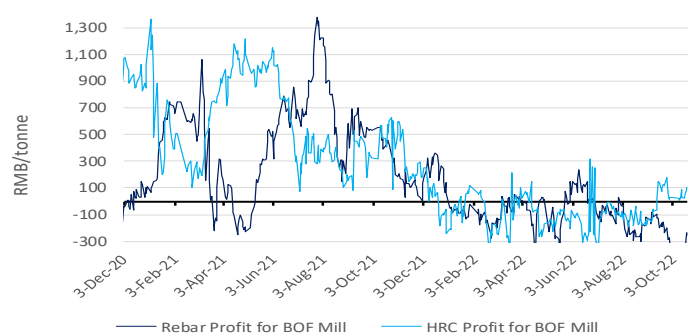
Category	Price	Change (WoW)	Note
MMi (Fe 62%), USD/mt excluding tax	107.90	0	Mmi CFR Equivalent index for 1st Feb
Coke	2,560	0	2nd grade met coke, Tangshan, incl. tax
Steel Scrap	2,860	-30	steel scrap (6mm) in Zhangjiagang, excl. tax
Billet Cost	3,244	-10	Q234, incl. tax
Rebar cost - Blast furnace	3,892	-11	calculated based on theoretical weight, incl. tax
Rebar profit - Blast furnace	-192	71	based on Shanghai prices, incl. tax
Hot-rolled coil cost - Blast furnace	3,947	-13	based on actual weight, incl. tax
Hot-rolled coil profit - Blast furnace	-137	83	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

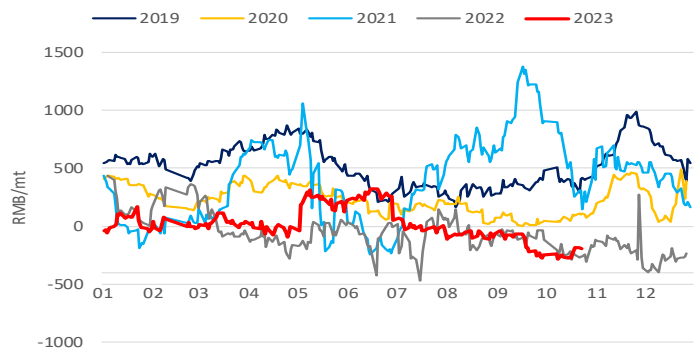
CHINESE STEEL INVENTORIES



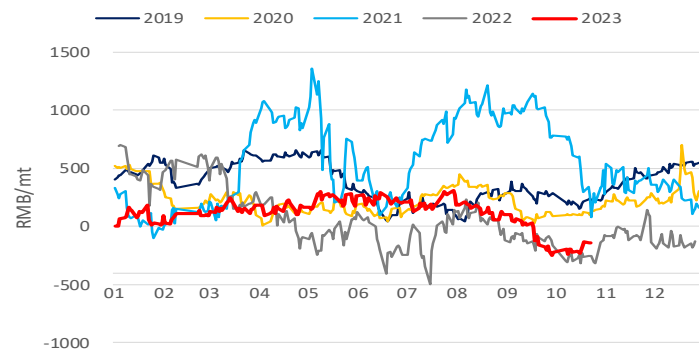
CHINESE STEEL MILL PROFITABILITY



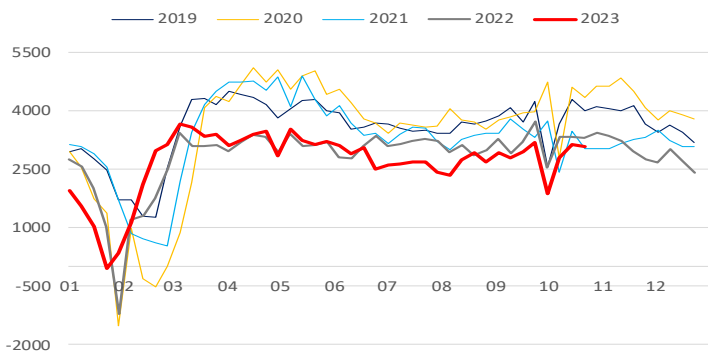
CHINESE STEEL MILL PROFITABILITY—Rebar



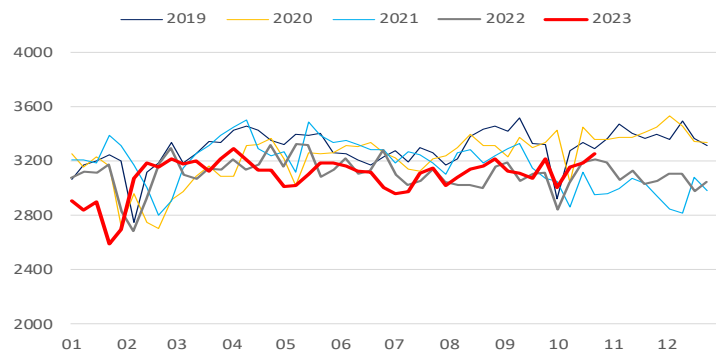
CHINESE STEEL MILL PROFITABILITY—Hot-rolled Coil



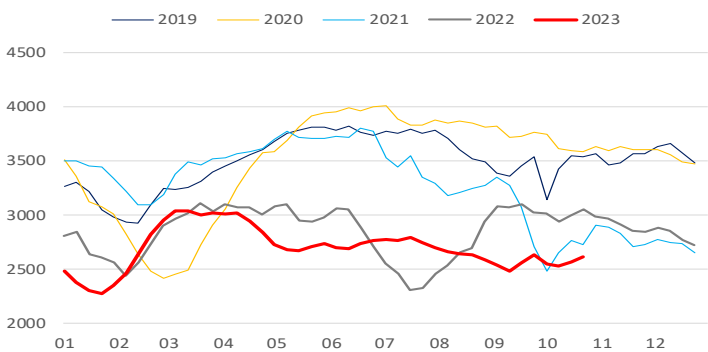
CHINESE STEEL CONSUMPTION—Rebar



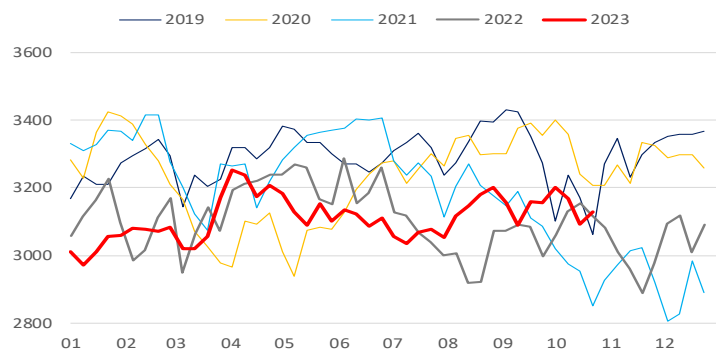
CHINESE STEEL CONSUMPTION—Hot-rolled Coil



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	

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					
Nov 1st, 2023	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%
Nov 1st, 2023	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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