Metals Market Index
MMi

MMi Dashboard

Iron Ore Price Indices

Iron Ore Port Stock (FOT Qingdao)
IOPI62 62% Fe Fines RMB/t
▲ 1013
42 4.33%
Dec 7th, 2023

Iron Ore Port Stock (FOT Qingdao)
IOPI65 65% Fe Fines RMB/t
▲ 1125
42.00 3.88%
Dec 7th, 2023

Iron Port Stock (FOT Qingdao)
IOPI58 58% Fe Fines RMB/t
▼ 914
-4 -0.44%
Dec 7th, 2023

Iron Ore Seaborne (CFR Qingdao)
IOSI62 62% Fe Fines USD/dmt
▲ 135.65
0.05 0.04%
Dec 7th, 2023

Iron Ore Seaborne (CFR Qingdao)
IOSI65 65% Fe Fines USD/dmt
▲ 171.80
9.20 5.66%
Dec 7th, 2023

Iron Ore Port Stock (FOT Qingdao)
IOPLI 62.5% Fe Lump RMB/t
▲ 1170
10 0.86%
Week Ending Dec 1st, 2023

Exchange Traded Contracts

DCE Iron Ore 62% Fines
I2401 (Jan) RMB/t (3pm close)
▲ 952.00
22.00 2.37%
Dec 7th, 2023 (3pm close)

SGX Iron Ore (CFR Qingdao) 62% Fe Fines
January 24 USD/dmt
▲ 133.90
2.25 1.71%
Dec 7th, 2023 (5.30 pm Print)

SHFE Rebar
RB2405 (Jan) RMB/t
▲ 4011
58 1.47%
Dec 7th, 2023 (3pm close)

Freight Rates

C3, Tubarao - Qingdao USD/t
▼ 31.20
-0.97 -3.01%
Dec 6th, 2023

C5, W. Australia - Qingdao USD/t
▼ 11.79
-0.96 -7.49%
Dec 6th, 2023

Steel Price

Steel Rebar (China Domestic) RMB/t
▼ 4040
-20 -0.49%
Week Ending Dec 1st, 2023

Inventory Levels

Iron Ore Inventory at Chinese Ports (35)
million tonnes
▲ 112.08
1.59 1.44%
Week Ending Dec 1st, 2023

Steel Inventory in China
million tonnes
▲ 9.80
0.20 2.13%
Week Ending Dec 1st, 2023

Steel Price

Steel HRC (China Domestic) RMB/t
▲ 3980
20 0.51%
Week Ending Dec 1st, 2023

IRON ORE PORT STOCK INDEX (IOPI)

Dec 7th, 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	**1013**	**42.0**	**4.33%**	857	881	770	852	**133.12**	**5.61**	**4.4%**	113.48	119.59	100.95	133.00
IOPI58	58% Fe Fines	**914**	**-4.0**	**-0.44%**	761	764	680	756	**121.00**	**-0.66**	**-0.5%**	101.45	104.15	89.86	122.00
IOPI65	65% Fe Fines	**1125**	**42.0**	**3.88%**	974	1014	881	971	**148.25**	**5.60**	**3.9%**	129.47	138.46	116.19	148.00

IRON ORE SEABORNE INDEX (IOSI)

Dec 7th, 2023		CFR Qingdao, USD/dry tonne						
Index	**Fe Content**	**Price**	**Change**	**Change %**	**MTD**	**YTD**	**Low [2]**	**High [2]**
IOSI62	62% Fe Fines	**135.65**	**0.05**	**0.04%**	114.30	114.30	99.20	146.75
IOSI65	65% Fe Fines	**171.80**	**9.20**	**5.66%**	127.40	127.40	114.75	171.80

MARKET COMMENTARY

DCE iron ore futures rose by 3.93% today, the main contract closed at 952. The steel mills are not active to purchase.The overall trading sentiment of the market is general. PBF at Shandong port deal 998 yuan/mt. PBF at Tangshan port deal 1008-1010 yuan/mt. According to the inventory of the top ten ports tracked by SMM, the total quantity of the four major varieties has slightly accumulated compared to last week. Steel mills are still experiencing slight losses due to slow profit recovery, but their selection of goods has improved. Due to the tight supply of domestic ore, the demand for port refined powder and bulk ore has increased. The current market is still optimistic about future expectations, with iron ore prices fluctuating widely.

IRON ORE PORT LUMP INDEX (IOPLI)

Week Ending Dec 1st, 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	**1170**	**10**	**0.9%**	965	1028	900	1170	**148.09**	**1.79**	**1.22%**	122.23	134.94	113.00	148.00

IRON ORE DOMESTIC CONCENTRATE SPOT PRICE ASSESSMENTS AND COMPOSITE INDEX

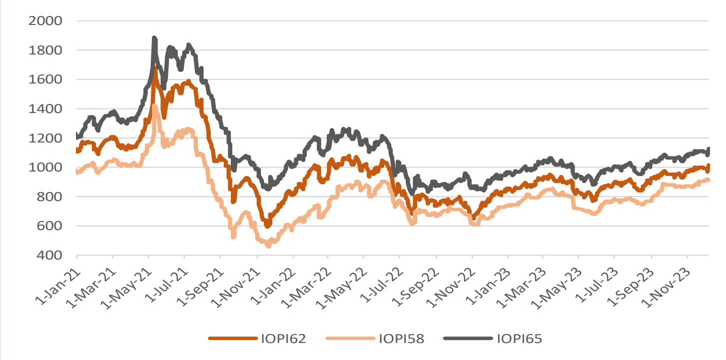
Week Ending Dec 1st, 2023				RMB/tonne (excluding tax) [3]				USD/tonne (excluding tax) [3]			
Province	**Region**	**Product**	**Basis**	**This week**	**Change %**	**Low [2]**	**High [2]**	**This week**	**Change %**	**Low [2]**	**High [2]**
Hebei	**Hanxing**	66% Fe Concentrate	Dry	**1173**	**1.6%**	779	1645	**165.00**	**1.90%**	110.31	255.69
Hebei	**Qian'an**	65% Fe Concentrate	Dry	**1170**	**-0.4%**	780	1630	**164.58**	**-0.09%**	110.51	251.57
Liaoning	**Anshan**	65% Fe Concentrate	Wet	**890**	**2.3%**	620	1310	**125.20**	**2.64%**	87.40	202.32
Shandong	**Zibo**	65% Fe Concentrate	Dry	**1234**	**0.8%**	800	1752	**173.59**	**1.15%**	0.00	272.32

Week Ending Dec 1st, 2023	This week	Change %	Low [2]	High [2]
China Mines Concentrate Composite Index RMB/WT	**1066.83**	**0.82%**	706.36	1511.22

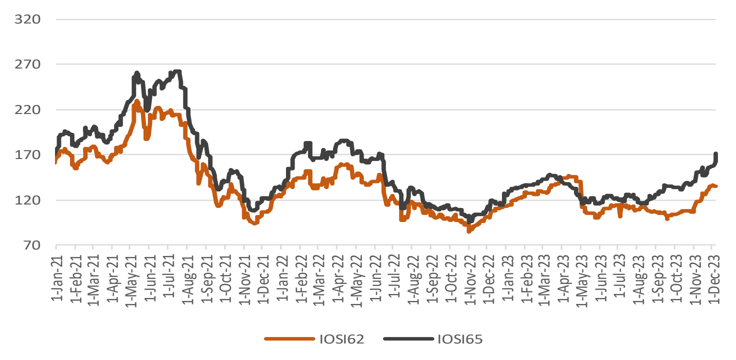
[1] Exchange rate applied: RMB/USD = 6.7522 [2]Last 12 months

[3] Weekly exchange rate applied: RMB/USD =6.87528

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

Dec 7th, 2023		FOT Qingdao (inc. 13% VAT), RMB/wet tonne							CFR Qingdao Equivalent (exc. 13% VAT), USD/dry tonne						
Index	**Fe Content**	**August**	**September**	**October**	**November**	**MTD**	**QTD**	**YTD**	**August**	**September**	**October**	**November**	**MTD**	**QTD**	**YTD**
IOPI62	62% Fe Fines	873	945	947	988	**857**	852	881	113.28	122.79	123.14	129.07	**113.48**	113.02	119.59
IOPI58	58% Fe Fines	759	838	869	884	**761**	756	764	99.13	109.67	113.94	116.42	**101.45**	100.99	104.15
IOPI65	65% Fe Fines	985	1057	1059	1100	**974**	971	1014	128.31	137.74	138.13	144.10	**129.47**	129.28	138.46

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

Dec 7th, 2023		CFR Qingdao, USD/dry tonne						
Index	**Fe Content**	**August**	**September**	**October**	**November**	**MTD**	**QTD**	**YTD**
IOSI62	62% Fe Fines	109.02	104.25	106.44	124.61	**112.14**	113.29	114.30
IOSI65	65% Fe Fines	119.61	132.40	135.69	150.46	**122.86**	126.22	127.40

FREIGHT RATES

Dec 6th, 2023		FREIGHT RATES - DRY BULK US$/wet tonne				
Route	**Designation**		**Change**	**Change %**	**Low [2]**	**High [2]**
W. Australia - Qingdao	C5	**11.79**	**-0.96**	**-7.49%**	3.57	16.77
Tubarao - Qingdao	C3	**31.20**	**-0.97**	**-3.01%**	6.70	36.40

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

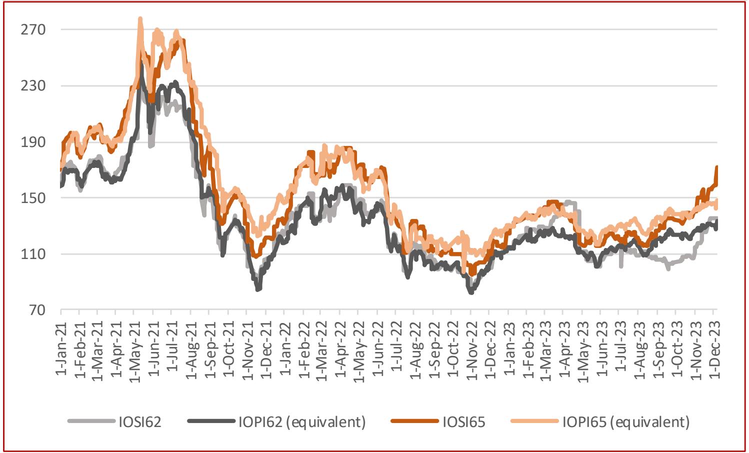
Week Ending Dec 1st, 2023		FOT Qingdao (inc. 13% VAT), RMB/wet tonne							CFR Qingdao Equivalent (exc. 13% VAT), USD/dry tonne [1]						
Index	**Fe Content**	**August**	**September**	**October**	**November**	**MTD**	**QTD**	**YTD**	**August**	**September**	**October**	**November**	**MTD**	**QTD**	**YTD**
IOPLI62	62.5% Fe Lump	951	1043	1113	1155	**933**	960	1017	118.96	130.25	139.38	145.07	**119.96**	122.09	134.98

IRON ORE INDEX PREMIUMS/DISCOUNTS

Dec 7th, 2023		PORT STOCK INDEX (RMB/WT)	
Index	**Fe Content**	**Spread to IOPI62**	**% Spread to IOPI62**
IOPI58	58% Fe Fines	**-99**	-9.77%
IOPI65	65% Fe Fines	**112**	11.06%

Dec 7th, 2023		SEABORNE INDEX (USD/DMT)	
Index	**Fe Content**	**Spread to IOSI62**	**% Spread to IOSI62**
IOSI65	65% Fe Fines	**36.15**	26.65%

IRON ORE INDEX COMPARISONS (USD/DMT)



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

IRON ORE BRAND SPOT PRICE ASSESMENTS

Dec 7th, 2023	PORT STOCK INDEX (RMB/WT)		
	Price	Change	Diff to IOPI62
Roy Hill	956	42	-57
SIMEC Fines	888	42	-125
PB Fines	979	40	-34
Newman Fines	983	42	-30
MAC Fines	963	42	-50
Jimblebar Blended Fines	879	42	-134
Carajas Fines	1194	42	181
Brazilian SSF	980	43	-33
Brazilian Blend Fines	993	42	-20
RTX Fines	897	42	-116
West Pilbara Fines	923	41	-90

Dec 7th, 2023	SEABORNE INDEX (USD/DMT)		
	Price	Change	Diff to IOSI62
Roy Hill	131.15	0.05	-4.50
SIMEC Fines	127.65	0.05	-8.00
PB Fines	131.90	0.05	-3.75
Newman Fines	134.80	0.05	-0.85
MAC Fines	131.90	0.05	-3.75
Jimblebar Blended Fines	124.30	0.05	-11.35
Carajas Fines	165.20	0.05	29.55
Brazilian SSF	139.40	0.05	3.75
Brazilian Blend Fines	141.05	0.05	5.40
RTX Fines	125.55	0.05	-10.10
West Pilbara Fines	129.90	0.05	-5.75

Dec 7th, 2023	PORT STOCK INDEX (RMB/WT)		
	Price	Change	Diff to IOPI58
SSF	914	-4	0
FMG Blended Fines	925	-4	11
Robe River	926	-4	12
Western Fines	930	-4	16
Atlas Fines	922	-4	8
Yandi	905	-4	-9

IRON ORE INDEX NORMALISATION DIFFERENTIALS

Port Stock Index Product Differentials (RMB/wet tonne)

	Applicable range	Value	Change
1% Fe	High Grade Fe 60 - 63%	5.00	0.00
	High Grade Fe 63 - 64%	15.00	-6.00
	High Grade Fe 64 - 65%	15.00	-6.00
	High Grade Fe 65 - 65.5%	15.00	-6.00
	Low Grade Fe	25.00	0.00
1% Alumina	High Fe Grade Al <2.25%	17.00	1.00
	High Fe Grade Al 2.25-4%	14.00	3.00
	Low Fe Grade Al <2.25%	108.00	8.00
	Low Fe Grade Al 2.25-4%	33.00	3.00
1% Silica	High Fe Grade Si <4%	5.00	0.00
	High Fe Grade Si 4-6.5%	18.00	5.00
	Low Fe Grade	32.00	1.00
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

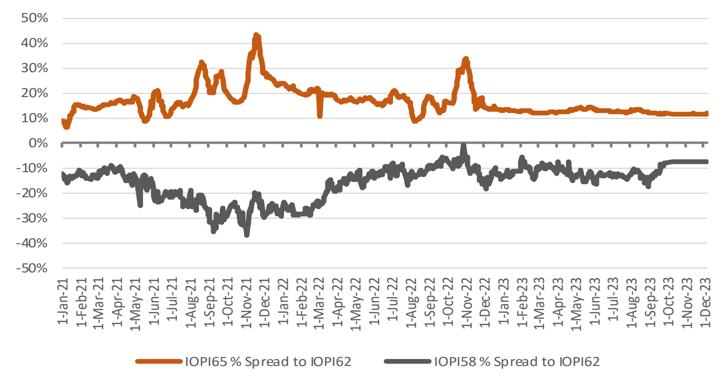
Seaborne Index Product Differentials (USD/dry tonne)

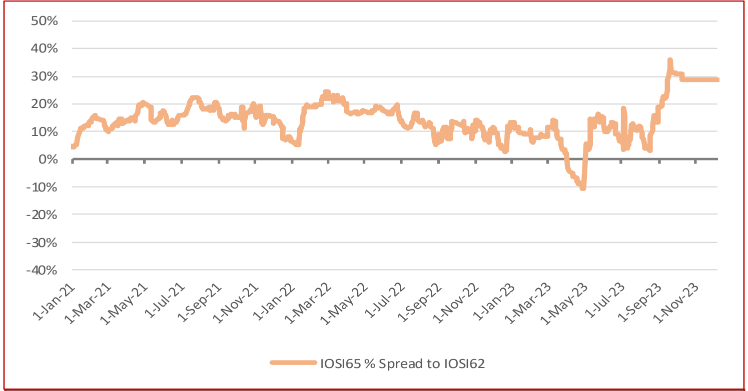
	Applicable range	Value	Change
1% Fe	High Grade Fe 60 - 63%	4.50	0.25
	High Grade Fe 63 - 64%	2.75	0.00
	High Grade Fe 64 - 65%	2.75	0.00
	High Grade Fe 65 - 65.5%	2.75	0.00
1% Alumina	High Fe Grade Al <2.25%	8.00	0.00
	High Fe Grade Al 2.25-4%	0.75	-0.50
1% Silica	High Fe Grade Si <4%	3.25	-0.25
	High Fe Grade Si 4 - 6.5%	3.25	-0.75
0.01% Phosphorus	High Fe Grade 0.09%<P<0.115%	0.25	0.00
	High Fe Grade 0.115%<P<0.15%	2.50	0.00

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

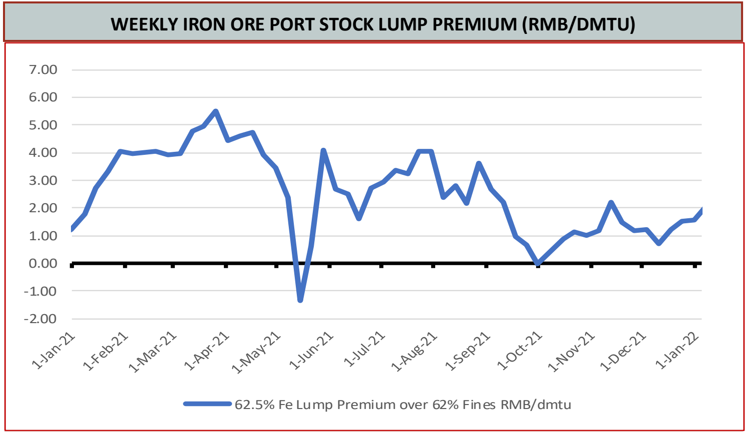
Port	Value	Change	Port	Value	Change	Port	Value	Change	Port	Value	Change
Bayuquan	-100.00	0.00	Fangcheng	-25.00	0.00	Lanshan	0.00	0.00	Rizhao	0.00	0.00
Beilun	0.00	0.00	Jiangyin	-20.00	0.00	Lianyungang	0.00	0.00	Shekou	0.00	0.00
Caofeidian	-10.00	0.00	Jingtang	-10.00	0.00	Majishan	0.00	0.00	Taicang	-30.00	0.00
Dalian	0.00	0.00	Lanqiao	0.00	0.00	Qingdao	0.00	0.00	Tianjin	-30.00	0.00

IRON ORE INDEX PREMIUMS/DISCOUNTS

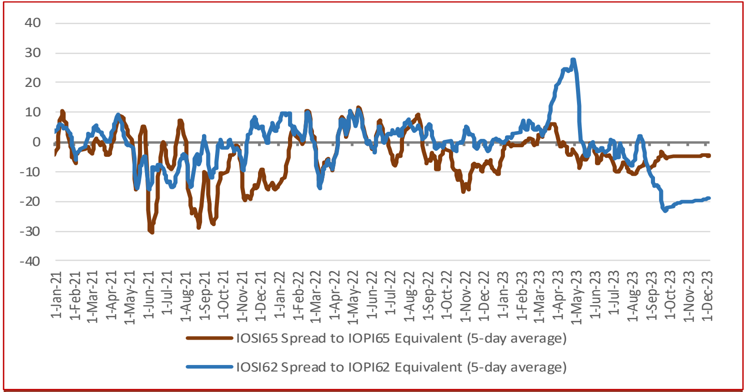




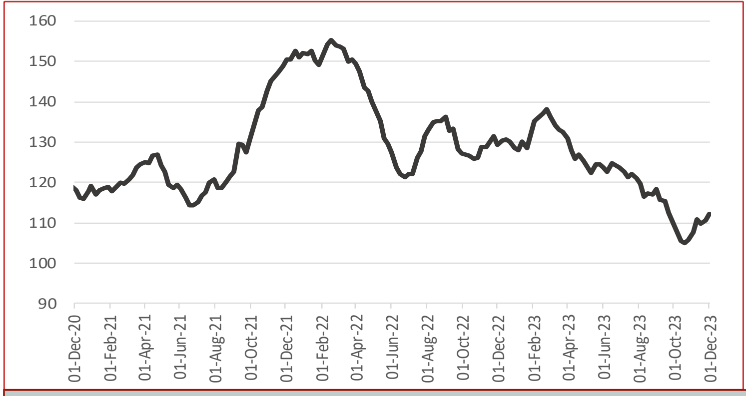
WEEKLY IRON ORE PORT STOCK LUMP PREMIUM (RMB/DMTU)



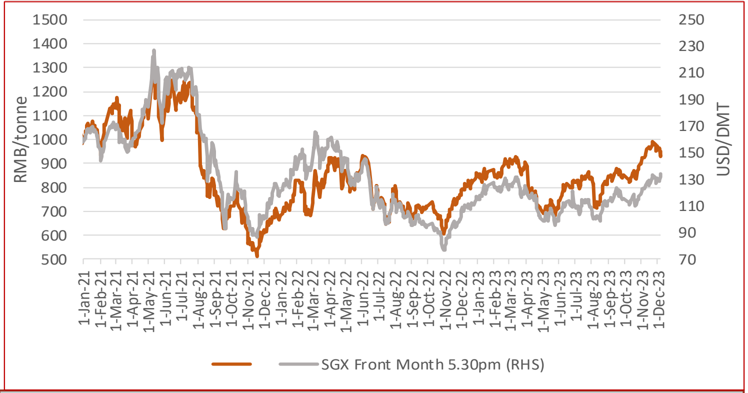
IRON ORE SEABORNE TO PORT STOCK PRICE SPREADS (USD/DMT)



TOTAL IRON ORE INVENTORIES AT CHINA PORTS (MILLION TONNES)



FUTURE TRADING—FRONT MONTH CLOSING PRICE



IRON ORE PORT INVENTORIES (MILLION TONNES)

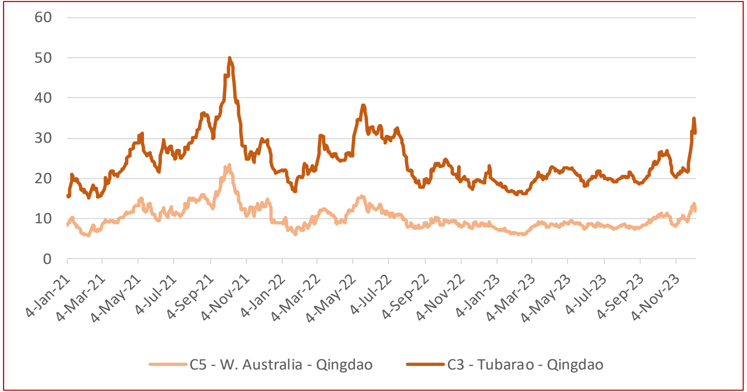
Week Ending Dec 1st, 2023

Province	This week	Change %	Low [2]	High [2]
Jingtang	9.17	3.27%	8.41	19.20
Qingdao	23.76	2.11%	9.41	26.24
Caofeidian	8.93	4.44%	7.56	16.29
Tianjin	7.68	0.26%	6.49	12.97
Rizhao	12.89	-0.39%	9.44	19.26
Total (35 Ports)	112.08	1.44%	98.80	155.39

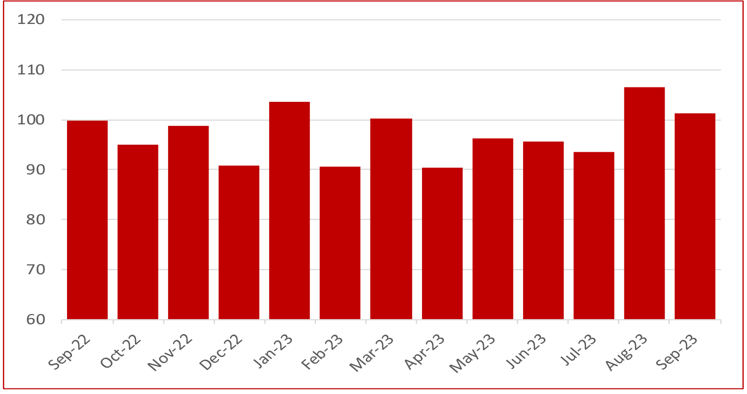
IRON ORE FUTURES CONTRACTS

	DCE (RMB/WMT)			SGX (USD/DMT)		
Closing Date	Dec 7th, 3pm close			Dec 7th, 5:30pm		
Contract	I2405	Change	Change %	Jan. 24	Change	Change %
Closing Price	952.00	22.00	2.37%	133.90	2.25	1.71%
Vol traded ('000 lots)	27.06	4.67	20.86%	10.70	3.24	43.47%
Open positions ('000 lots)	48.00	4.38	10.05%	43.74	-0.71	-1.59%
Day Low	927.5	27.00	3.00%	130.95	2.75	2.15%
Day High	953.0	22.50	2.42%	134.30	2.45	1.86%

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	2023/12/1	Change	Change %
ReBar HRB400 ϕ18mm	**4,040**	**-20**	**-0.49%**
Wirerod Q300 ϕ6.5mm	**4,270**	**-20**	**-0.47%**
HRC Q235/SS400 5.5mm*1500*C	**3,980**	**20**	**0.51%**
CRC SPCC/ST12 1.0mm*1250*2500	**4,790**	**-20**	**-0.42%**
Medium & Heavy Plate Q235B 20mm	**3,950**	**-30**	**-0.75%**
GI ST02Z 1.0mm*1000*C	**5,050**	**-10**	**-0.20%**
Colour Coated Plate	**7,000**	**0**	**0.00%**

CHINESE STEEL MILL PROFITABILITY

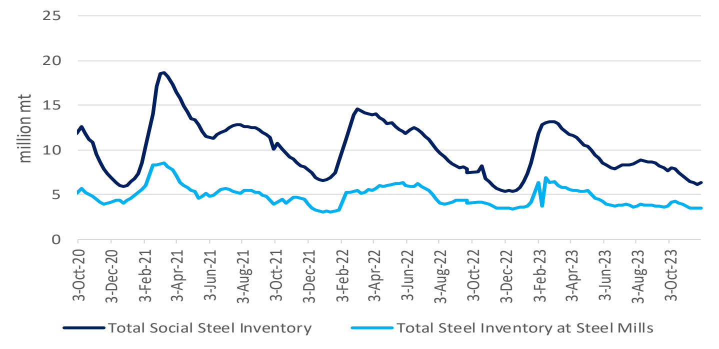
SMM Tracking of Steel Mill P&L - Rebar and Hot-rolled Coil (RMB/tonne)

Category	Price	Change (WoW)	Note
MMi (Fe 62%), USD/mt exluding tax	**135.60**	**18**	Mmi CFR Equivalent index for 1st Feb
Coke	**2,670**	**110**	2nd grade met coke, Tangshan, incl. tax
Steel Scrap	**2,910**	**0**	steel scrap (6mm) in Zhangjiagang, exl. tax
Billet Cost	**3,354**	**35**	Q234, incl. tax
Rebar cost - Blast furnace	**4,016**	**39**	calculated based on theoretical weight, incl. tax
Rebar profit - Blast furnace	**-46**	**-39**	based on Shanghai prices, incl. tax
Hot-rolled coil cost - Blast furnace	**4,080**	**42**	based on actual weight, incl. tax
Hot-rolled coil proft - Blast furnace	**-100**	**-42**	based on Shanghai prices, incl. tax

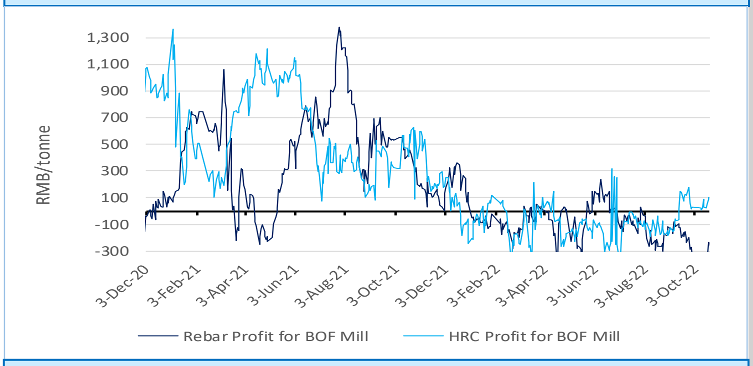
Note: 1. Costs in the table are caluclated based on todays market prices and facout our management, sales, financial and depreciations fe

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

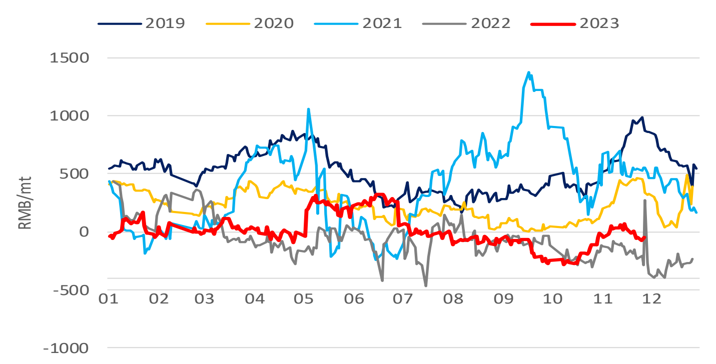
CHINESE STEEL INVENTORIES



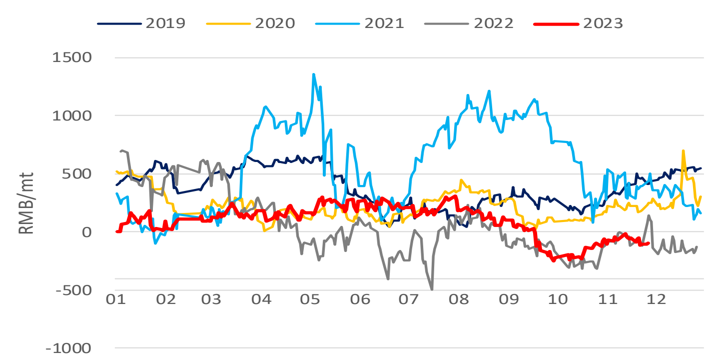
CHINESE STEEL MILL PROFITABILITY



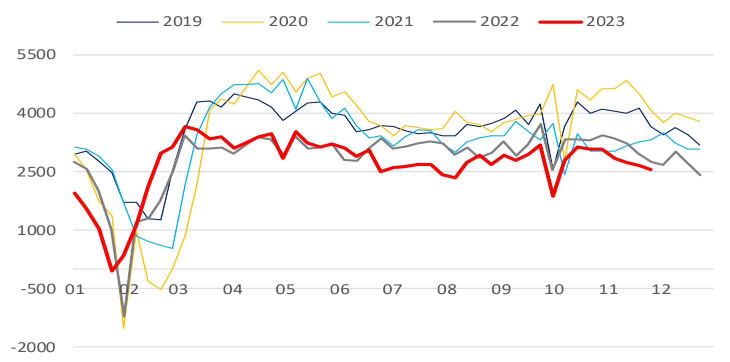
CHINESE STEEL MILL PROFITABILITY—Rebar



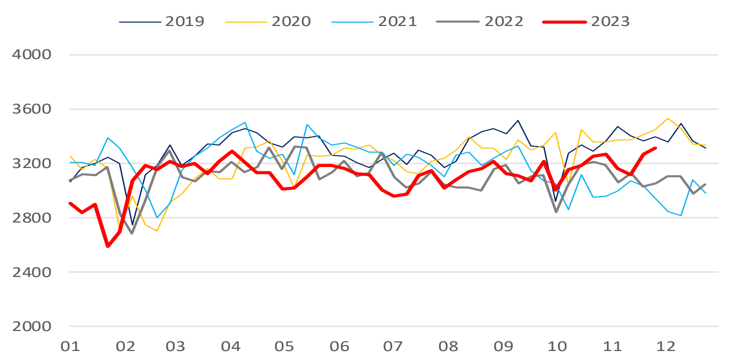
CHINESE STEEL MILL PROFITABILITY—Hot-rolled Coil



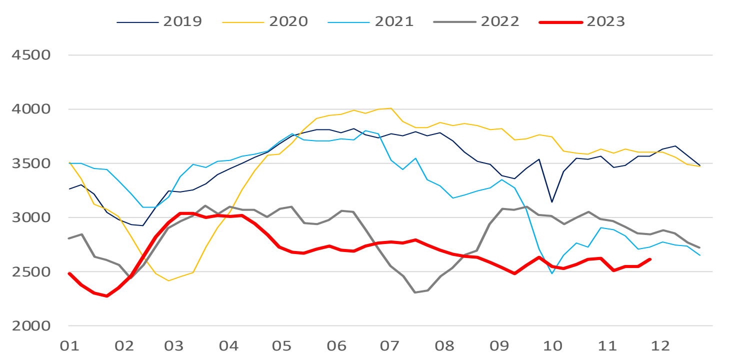
CHINESE STEEL CONSUMPTION—Rebar



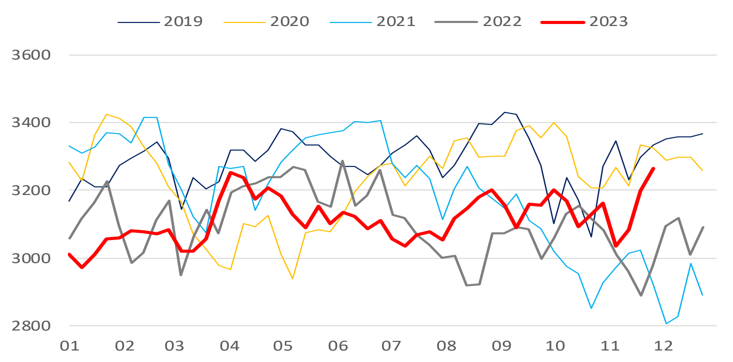
CHINESE STEEL CONSUMPTION—Hot-rolled Coil



CHINESE STEEL PRODUCTION—Rebar



CHINESE STEEL PRODUCTION—Hot-rolled Coil



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

Dec 7th, 2023	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%

Dec 7th, 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%

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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