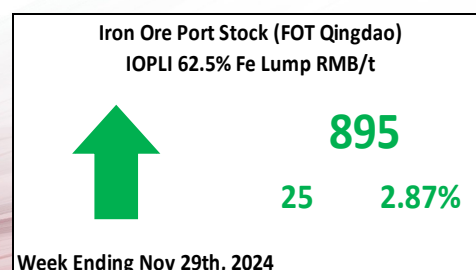
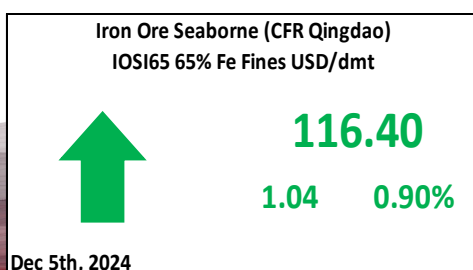
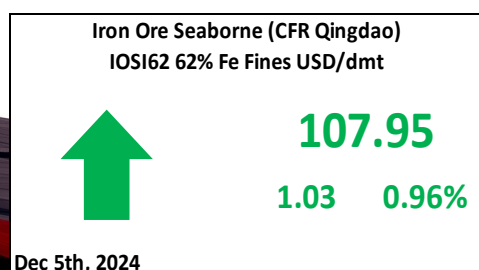
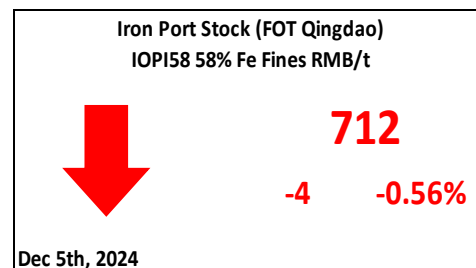
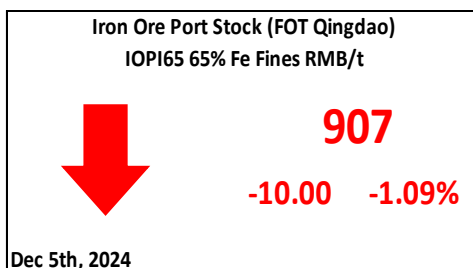
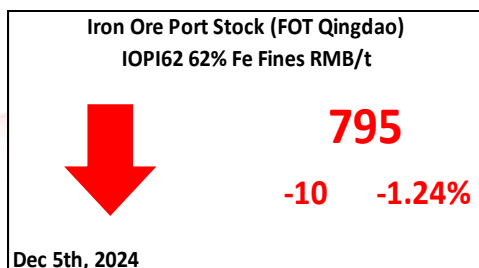


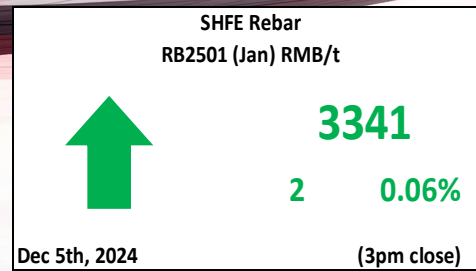
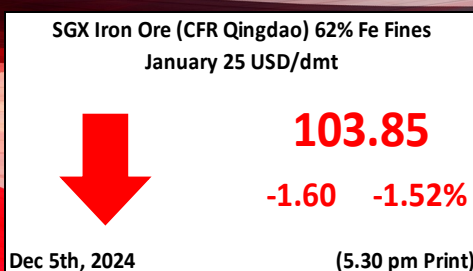
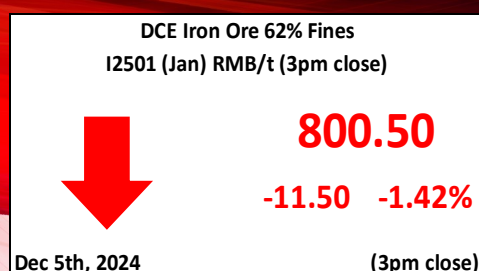


# MMi Dashboard

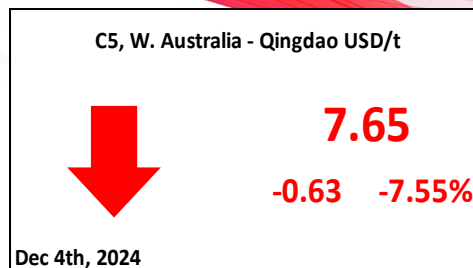
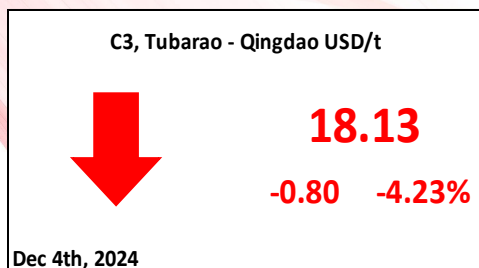
## Iron Ore Price Indices



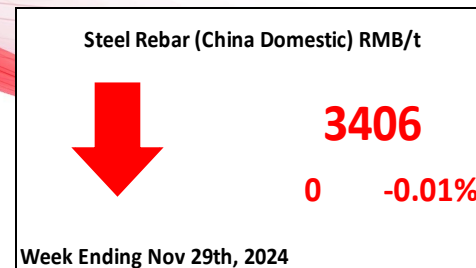
## Exchange Traded Contracts



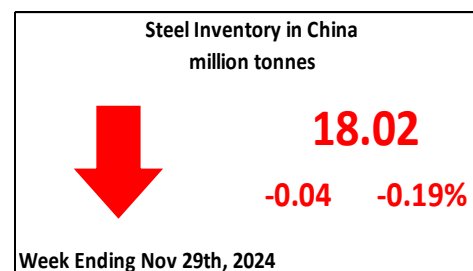
## Freight Rates



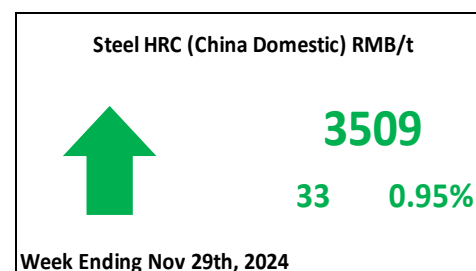
## Steel Price



## Inventory Levels



## Steel Price



## IRON ORE PORT STOCK INDEX (IOPI)

Dec 5th, 2024		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	795	-10	-1.2%	781	873	683	1063	101.23	-2.67	-2.6%	101.11	114.23	89.33	140.24
IOPI58	58% Fe Fines	712	-4	-0.6%	692	766	610	963	91.27	-1.74	-1.9%	90.09	100.78	80.25	128.13
IOPI65	65% Fe Fines	907	-10	-1.1%	893	985	794	1175	116.02	-2.86	-2.4%	116.16	129.30	104.47	155.37

## IRON ORE SEABORNE INDEX (IOSI)

## MARKET COMMENTARY

Dec 5th, 2024		CFR Qingdao, USD/dry tonne							MARKET COMMENTARY							
Index	Fe Content	Price	Change	Change %	MTD	YTD	Low <sup>2</sup>	High <sup>2</sup>	Today, iron ore futures opened higher but moved downwards, continuing to fluctuate downward throughout the day. The most-traded contract (2501) finally closed at 800.5 yuan/mt, down 1.17% for the day. Traders' enthusiasm for selling has somewhat declined; steel mills' purchase willingness is moderate, mainly purchasing as needed. Today's market trading atmosphere was average. In Shanghai, the mainstream transaction prices for PB fines were 785 yuan/mt, down 5-10 yuan/mt from yesterday; in Tangshan, the transaction prices for PB fines were 800-810 yuan/mt, down 0-10 yuan/mt from yesterday.							
IOSI62	62% Fe Fines	107.95	1.03	0.96%	103.63	115.46	89.79	142.65	Today's industry data performed moderately, with a slight increase in apparent demand for rebar and a slight decrease in inventory. However, end-use demand has entered the off-season, and there is still an expectation of marginal weakening in the future. Additionally, with the meeting approaching, market rumors are increasing, and the annual GDP growth forecast is being revised downward, leading to more pessimistic market sentiment. Considering that pre-holiday restocking of iron ore has gradually begun, providing some support for prices, iron ore prices are expected to rise after adjustments.							
IOSI65	65% Fe Fines	116.40	1.04	0.90%	117.13	133.06	98.28	171.65								

## IRON ORE PORT LUMP INDEX (IOPLI)

Week Ending Nov 29th, 2024		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	895	25	2.9%	881	1014	820	1210	111.13	3.22	2.98%	110.11	127.57	102.77	153.57

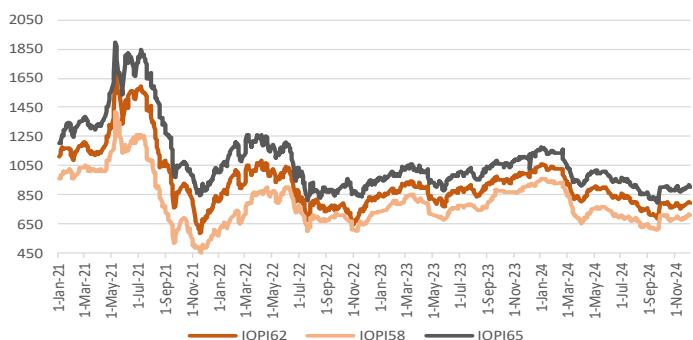
## IRON ORE DOMESTIC CONCENTRATE SPOT PRICE ASSESSMENTS AND COMPOSITE INDEX

Week Ending Nov 29th, 2024				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	943	1.2%	861	1226	131.12	1.19%	122.41	172.59
Hebei	Qian'an	65% Fe Concentrate	Dry	990	0.5%	965	1300	137.66	0.52%	135.54	183.23
Liaoning	Anshan	65% Fe Concentrate	Wet	735	0.0%	715	970	102.20	0.01%	100.77	136.72
Shandong	Zibo	65% Fe Concentrate	Dry	973	1.2%	905	1294	135.30	1.26%	128.66	182.16

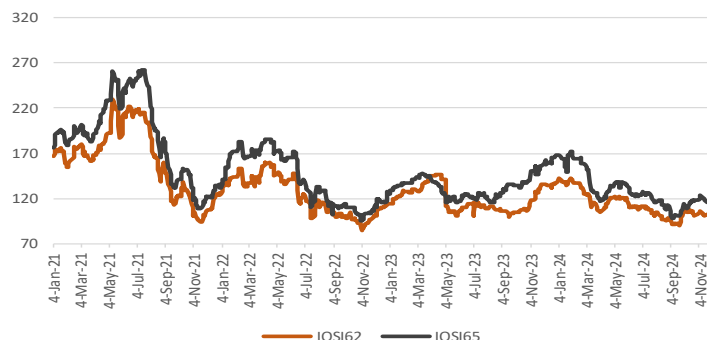
  

Week Ending Nov 29th, 2024	This week	Change %	Low <sup>2</sup>	High <sup>2</sup>	Exchange rate applied: RMB/USD = 7.191	Last 12 months
China Mines Concentrate Composite Index RMB/WT	879.89	-0.08%	854.16	905.40	Weekly exchange rate applied: RMB/USD = 7.19258	

## 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 5th, 2024		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	765	718	781	779	781	761	873	99.33	93.70	102.03	100.71	101.11	98.88	114.23
IOPI58	58% Fe Fines	656	630	690	692	692	668	766	85.58	82.73	90.61	89.97	90.09	87.29	100.78
IOPI65	65% Fe Fines	876	829	894	891	893	873	985	114.39	108.89	117.10	115.71	116.16	113.97	129.30

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

## FREIGHT RATES

Dec 5th, 2024		CFR Qingdao, USD/dry tonne							Dec 4th, 2024				FREIGHT RATES - DRY BULK US\$/wet tonne			
Index	Fe Content	August	September	October	November	MTD	QTD	YTD	Route	Designation	Change	Change %	Low <sup>2</sup>	High <sup>2</sup>		
IOSI62	62% Fe Fines	99.33	94.36	104.02	103.09	103.63	100.37	115.46	W. Australia - Qingdao	C5	7.65	-0.63	-7.55%	7.49	14.89	
IOSI65	65% Fe Fines	114.06	102.24	115.31	117.71	117.13	112.46	133.06	Tubarao - Qingdao	C3	18.13	-0.80	-4.23%	18.13	35.02	

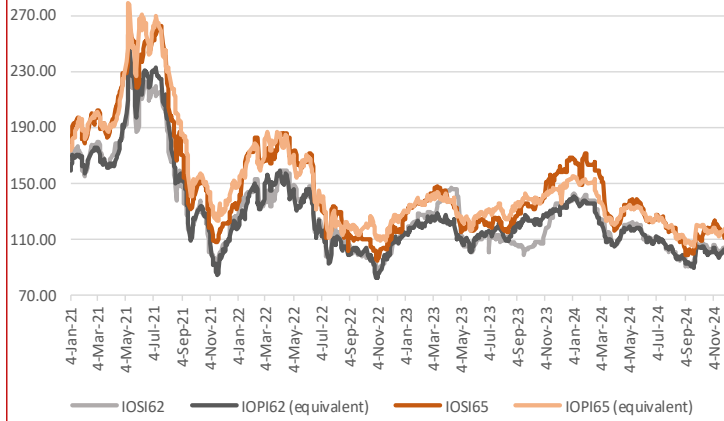
## IRON ORE PORT LUMP INDEX MONTHLY, QUARTERLY AND YEAR-TO-DATE AVERAGES

Week Ending Nov 29th, 2024		FOT Qingdao (inc. 13% VAT), RMB/wet tonne							CFR Qingdao Equivalent (exc. 13% VAT), USD/dry tonne <sup>1</sup>						
Index	Fe Content	August	September	October	November	MTD	QTD	YTD	August	September	October	November	MTD	QTD	YTD
IOPLI62	62.5% Fe Lump	911	830	888	876	881	864	1014	114.10	104.46	111.82	109.09	110.11	108.23	127.57

## IRON ORE INDEX PREMIUMS/DISCOUNTS

Dec 5th, 2024		PORT STOCK INDEX (RMB/WT)				Dec 5th, 2024		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	-83		-10.44%		IOSI65	65% Fe Fines	8.45		7.83%	
IOPI65	65% Fe Fines	112		14.09%							

## IRON ORE INDEX COMPARISONS (USD/DMT)



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



## IRON ORE BRAND SPOT PRICE ASSESSMENTS

Dec 5th, 2024				Dec 5th, 2024			
PORT STOCK INDEX (RMB/WT)				SEABORNE INDEX (USD/DMT)			
	Price	Change	Diff to IOPI62		Price	Change	Diff to IOSI62
Roy Hill	738	-10	-57	Roy Hill	103.45	1.03	-4.50
SIMEC Fines	666	-10	-129	SIMEC Fines	99.95	1.03	-8.00
PB Fines	764	-10	-31	PB Fines	104.20	1.03	-3.75
Newman Fines	763	-10	-32	Newman Fines	107.05	1.01	-0.90
MAC Fines	745	-10	-50	MAC Fines	104.20	1.03	-3.75
Jimblebar Blended Fines	659	-10	-136	Jimblebar Blended Fines	96.55	1.01	-11.40
Carajas Fines	975	-10	180	Carajas Fines	137.50	1.03	29.55
Brazilian SSF	758	-10	-37	Brazilian SSF	111.70	1.03	3.75
Brazilian Blend Fines	777	-10	-18	Brazilian Blend Fines	113.35	1.05	5.40
RTX Fines	678	-10	-117	RTX Fines	97.85	1.05	-10.10
West Pilbara Fines	707	-10	-88	West Pilbara Fines	102.20	1.03	-5.75

Dec 5th, 2024			
PORT STOCK INDEX (RMB/WT)			
	Price	Change	Diff to IOPI58
SSF	713	-3	1
FMG Blended Fines	722	-3	10
Robe River	723	-2	11
Western Fines	725	-3	13
Atlas Fines	719	-3	7
Yandi	706	-3	-6

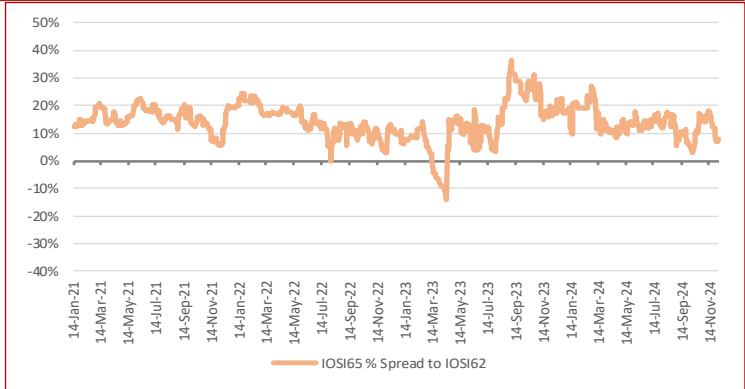
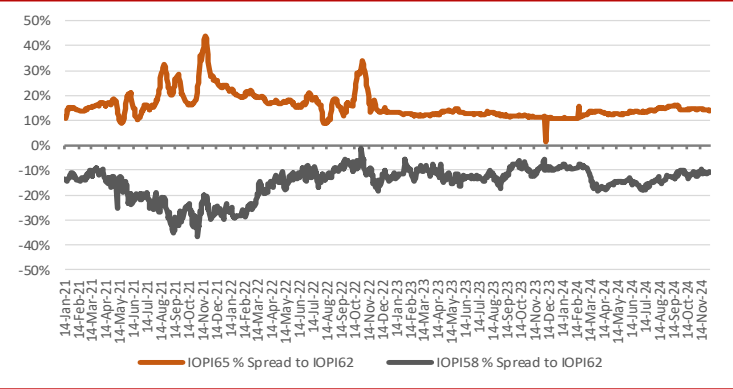
## IRON ORE INDEX NORMALISATION DIFFERENTIALS

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%	5.00	0.00	1% Fe	High Grade Fe 60 - 63%	1.25	0.50
	High Grade Fe 63 - 64%	5.00	0.00		High Grade Fe 63 - 64%	2.25	0.50
	High Grade Fe 64 - 65%	5.00	0.00		High Grade Fe 64 - 65%	2.25	0.50
	High Grade Fe 65 - 65.5%	5.00	0.00		High Grade Fe 65 - 65.5%	2.25	0.50
1% Alumina	Low Grade Fe	15.00	0.00	1% Alumina	High Fe Grade Al <2.25%	2.75	0.75
	High Fe Grade Al <2.25%	20.00	0.00		High Fe Grade Al 2.25-4%	1.00	0.00
	High Fe Grade Al 2.25-4%	5.00	0.00				
	Low Fe Grade Al <2.25%	35.00	-5.00				
1% Silica	Low Fe Grade Al 2.25-4%	5.00	-1.00	1% Silica	High Fe Grade Si <4%	0.25	0.00
	High Fe Grade Si <4%	15.00	0.00		High Fe Grade Si 4 - 6.5%	0.25	0.00
0.01% Phosphorus	High Fe Grade Si <4%	15.00	0.00	0.01% Phosphorus	High Fe Grade 0.09%<P<0.115%	1.00	0.00
	High Fe Grade Si 4 - 6.5%	15.00	0.00		High Fe Grade 0.115%<P<0.15%	0.25	0.00
	Low Fe Grade	5.00	0.00				

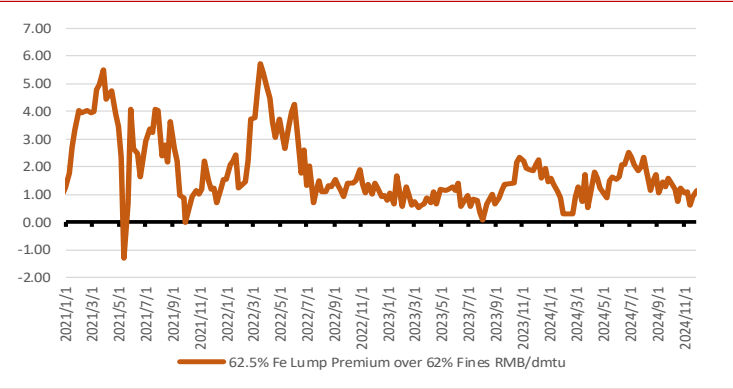
## Port Stock Price Differentials to Qingdao Port for PB Fines (RMB/wet tonne)

Port	Value	Change	Port	Value	Change	Port	Value	Change	Port	Value	Change
Bayuquan	-50.00	0.00	Fangcheng	-25.00	0.00	Lanshan	0.00	0.00	Rizhao	0.00	0.00
Beilun	0.00	0.00	Jiangyin	-25.00	0.00	Lianyungang	0.00	0.00	Shekou	0.00	0.00
Caofeidian	-15.00	0.00	Jingtang	-10.00	0.00	Majishan	0.00	0.00	Taicang	-20.00	0.00
Dalian	0.00	0.00	Lanqiao	0.00	0.00	Qingdao	0.00	0.00	Tianjin	-30.00	0.00

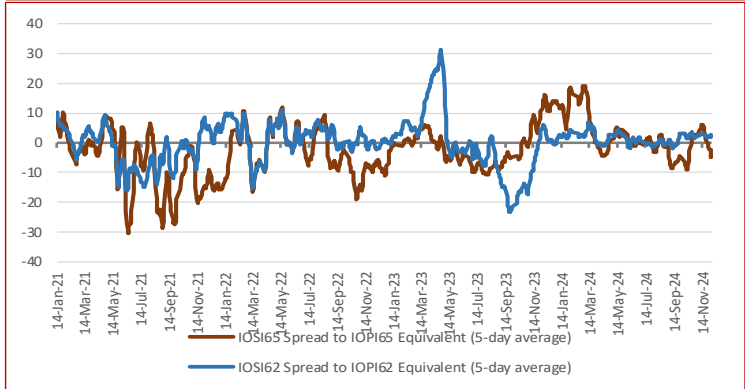
IRON ORE INDEX PREMIUMS/DISCOUNTS



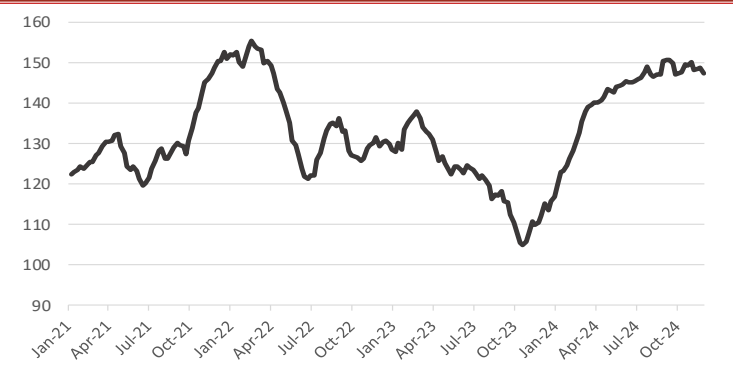
WEEKLY IRON ORE PORT STOCK LUMP PREMIUM (RMB/DMTU)



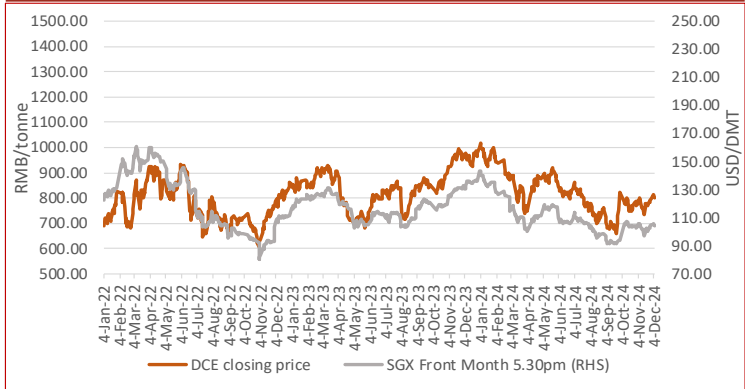
IRON ORE SEABORNE TO PORT STOCK PRICE SPREADS (USD/DMT)



TOTAL IRON ORE INVENTORIES AT CHINA PORTS (MILLION TONNES)



FUTURE TRADING—FRONT MONTH CLOSING PRICE



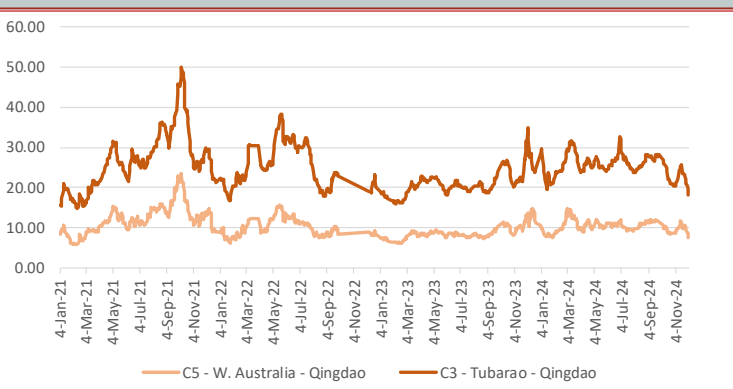
IRON ORE PORT INVENTORIES (MILLION TONNES)

Week Ending Nov 29th, 2024				
Province	This week	Change %	Low <sup>2</sup>	High <sup>2</sup>
Jingtang	13.75	2.15%	8.29	17.20
Qingdao	25.50	-0.82%	22.28	25.81
Caofeidian	19.47	-3.99%	7.56	20.28
Tianjin	11.88	2.63%	6.64	12.16
Rizhao	20.49	2.14%	11.52	21.35
<b>Total (35 Ports)</b>	<b>147.30</b>	<b>-1.05%</b>	<b>105.01</b>	<b>150.72</b>

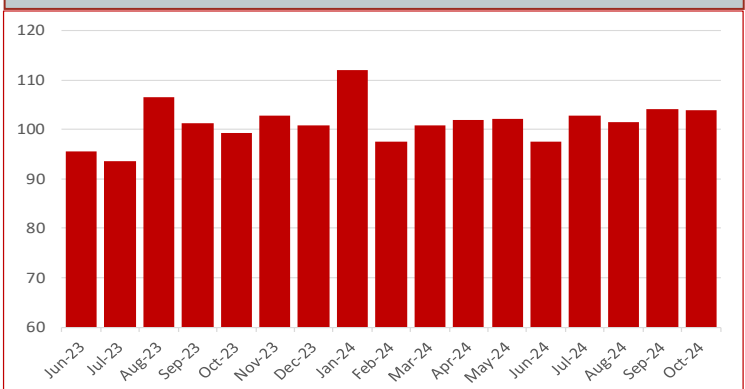
IRON ORE FUTURES CONTRACTS

Closing Date	DCE (RMB/WMT)			SGX (USD/DMT)		
	Dec 5th, 3pm close	Change	Change %	Dec 5th, 5:30pm	Change	Change %
Contract	I2501			Jan. 25		
Closing Price	800.50	-11.50	-1.42%	103.85	-1.60	-1.52%
Vol traded ('000 lots)	22.12	0.18	0.81%	6.52	-1.23	-15.88%
Open positions ('000 lots)	26.95	-2.27	-7.78%	34.72	1.20	3.58%
Day Low	796.0	-6.00	-0.75%	103.30	-0.55	-0.53%
Day High	815.5	-1.00	-0.12%	105.65	-0.05	-0.05%

DRY BULK FREIGHT RATES (USD/MT)



TOTAL CHINA IRON ORE IMPORT VOLUMES (MILLION TONNES)



STEEL SPOT MARKET PRICES—CHINA

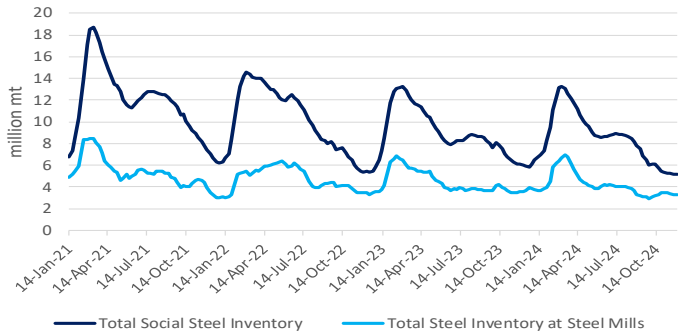
Steel Spot Market RMB/tonne			
Product	2024/11/29	Change	Change %
ReBar HRB400 φ18mm	3,406	0	-0.01%
Wirerod Q300 φ6.5mm	3,584	0	0.01%
HRC Q235/SS400 5.5mm*1500*C	3,509	33	0.95%
CRC SPCC/ST12 1.0mm*1250*2500	4,133	16	0.39%
Medium & Heavy Plate Q235B 20mm	3,620	0	0.00%
GI ST02Z 1.0mm*1000*C	4,440	0	0.00%
Colour Coated Plate	6,450	0	0.00%

CHINESE STEEL MILL PROFITABILITY

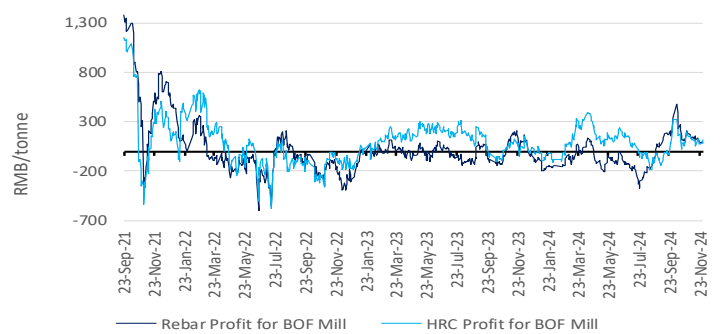
SMM Tracking of Steel Mill P&L - Rebar and Hot-rolled Coil (RMB/tonne)			
Category	Price	Change (WoW)	Note
MMi (Fe 62%), USD/mt excluding tax	102.38	2	Mmi CFR Equivalent index for 1st Feb
Coke	1,955	0	2nd grade met coke, Tangshan, incl. tax
Steel Scrap	2,510	0	steel scrap (6mm) in Zhangjiagang, excl. tax
Billet Cost	2,719	25	Q234, incl. tax
Rebar cost - Blast furnace	3,298	28	calculated based on theoretical weight, incl. tax
Rebar profit - Blast furnace	82	-8	based on Shanghai prices, incl. tax
Hot-rolled coil cost - Blast furnace	3,368	26	based on actual weight, incl. tax
Hot-rolled coil profit - Blast furnace	112	34	based on Shanghai prices, incl. tax

Note: 1. Costs in the table are calculated based on today's market prices and facout 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

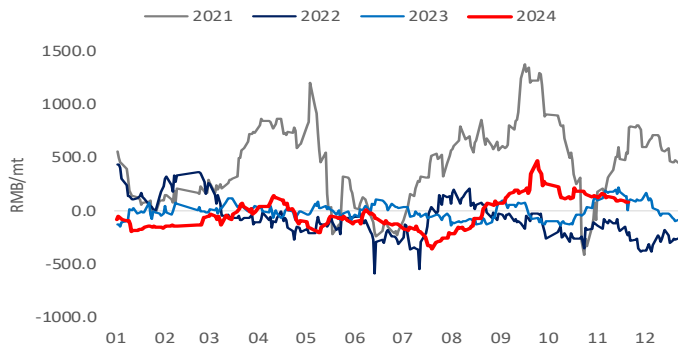
CHINESE STEEL INVENTORIES



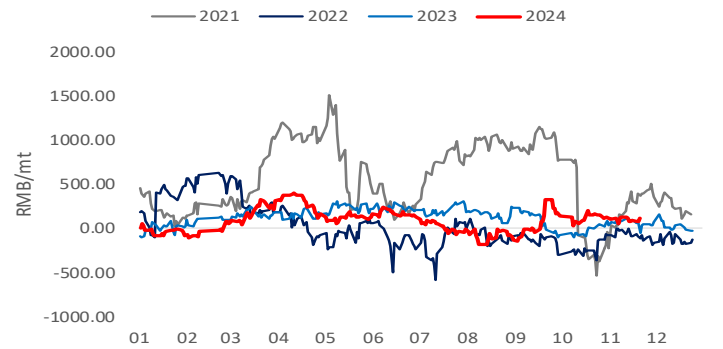
CHINESE STEEL MILL PROFITABILITY



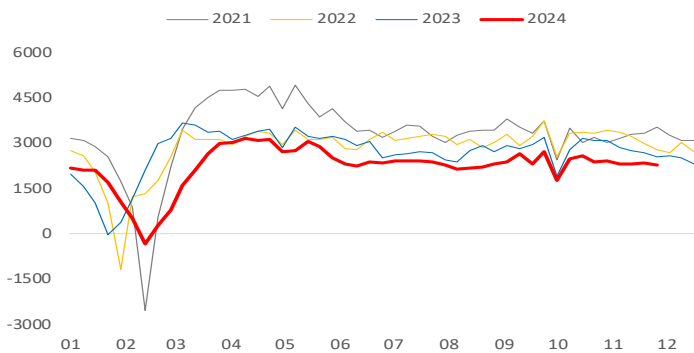
CHINESE STEEL MILL PROFITABILITY—Rebar



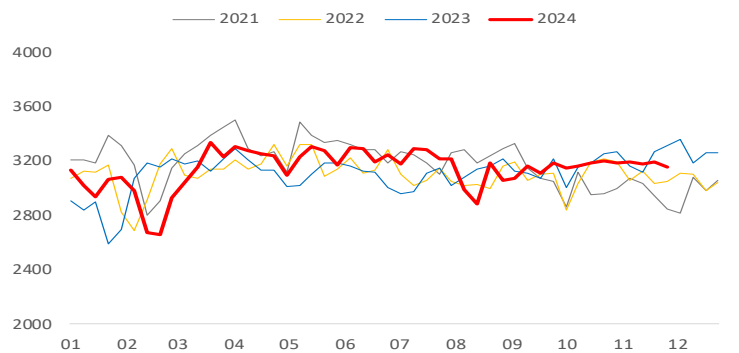
CHINESE STEEL MILL PROFITABILITY—Hot-rolled Coil



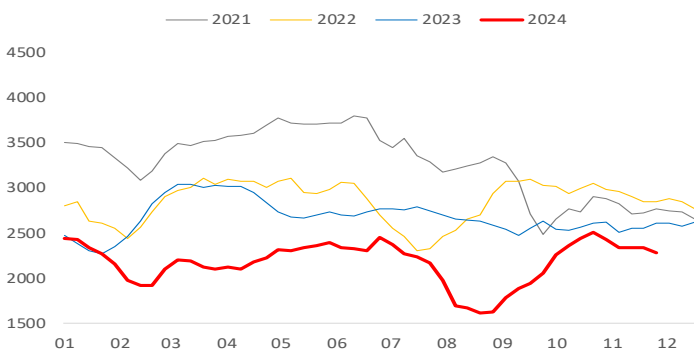
CHINESE STEEL CONSUMPTION—Rebar



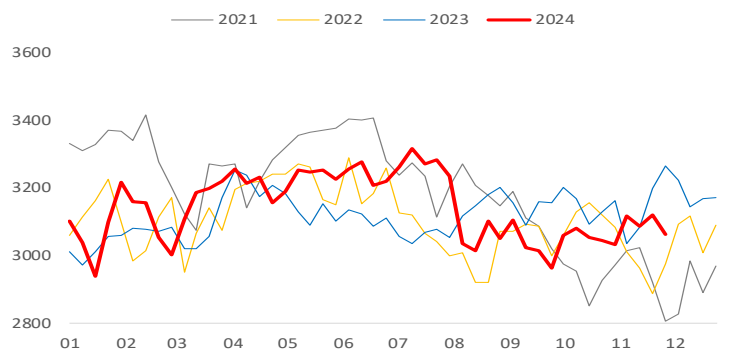
CHINESE STEEL CONSUMPTION—Hot-rolled Coil



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
	<b>65% Fe Fines</b>	<b>62% Fe Fines</b>	<b>58% Fe Fines</b>	<b>62.5% Fe Lump</b>	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: <a href="http://www.mmiprices.com">www.mmiprices.com</a>
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		

Data Exclusions*			
Port Index	62%	58%	65%
Seaborne index	0	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					
Dec 5th, 2024	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%	4.40%	0.090%	8.00%
MAC Fines	60.43%	2.38%	4.64%	0.078%	7.57%	MAC Fines	60.80%	2.35%	4.70%	0.080%	7.80%
Jimblebar Blended Fines	60.87%	2.95%	4.53%	0.111%	7.32%	Jimblebar Blended Fines	60.50%	3.00%	4.50%	0.120%	8.00%
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%

Dec 5th, 2024	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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