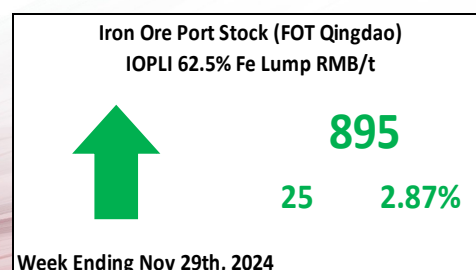
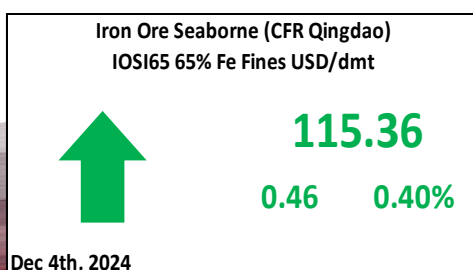
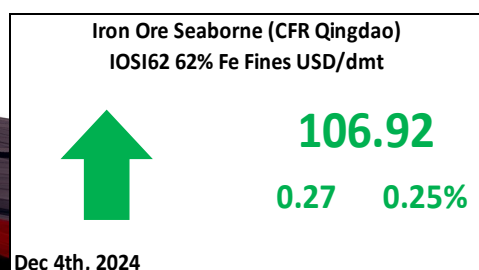
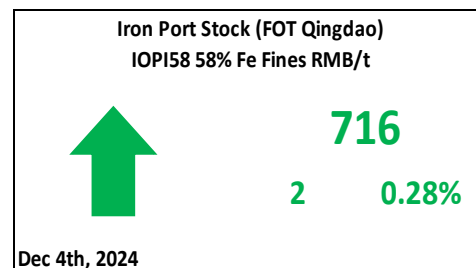
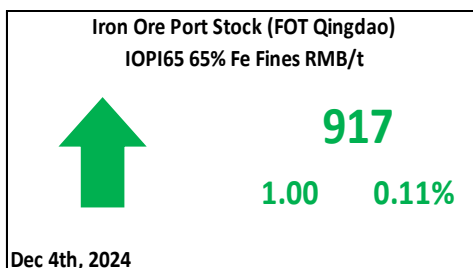
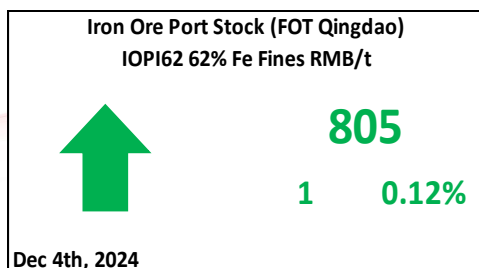


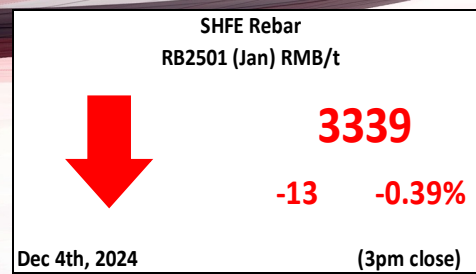
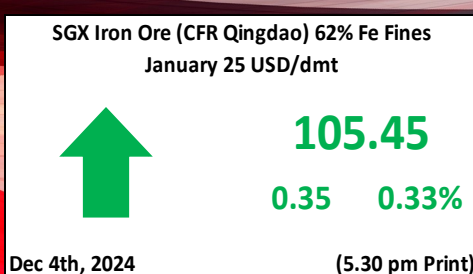
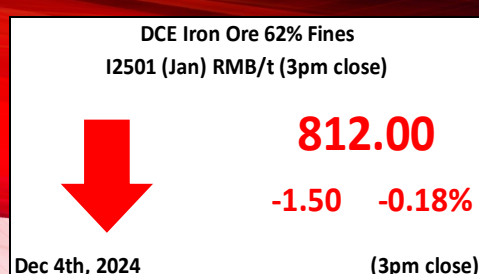


## MMi Dashboard

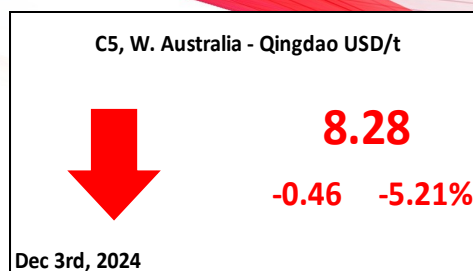
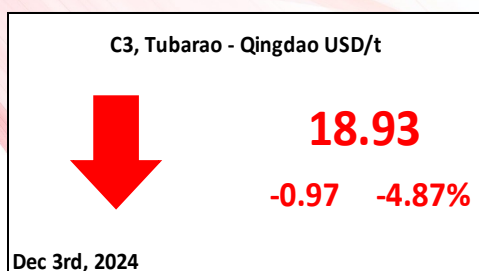
## Iron Ore Price Indices



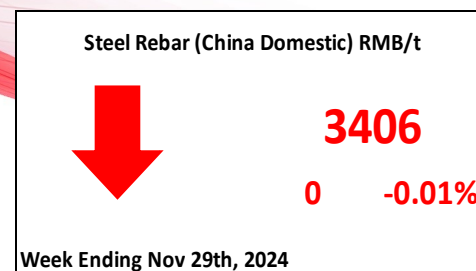
## Exchange Traded Contracts



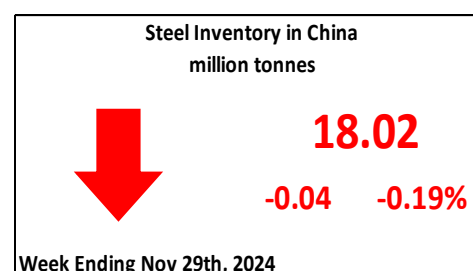
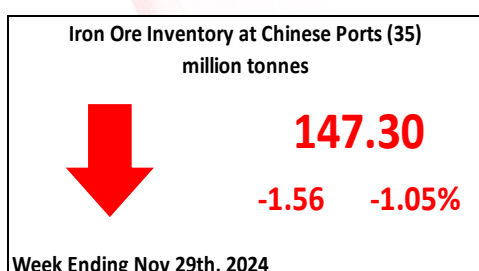
## Freight Rates



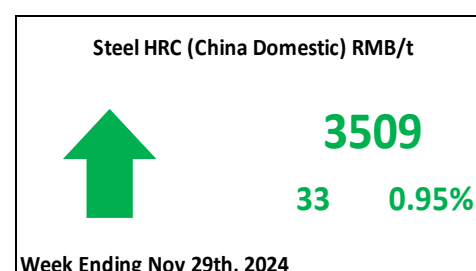
## Steel Price



## Inventory Levels



## Steel Price



## IRON ORE PORT STOCK INDEX (IOPI)

Dec 4th, 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	805	1	0.1%	780	873	683	1063	103.90	0.22	0.2%	101.11	114.28	89.33	140.24
IOPI58	58% Fe Fines	716	2	0.3%	691	766	610	963	93.01	0.35	0.4%	90.06	100.81	80.25	128.13
IOPI65	65% Fe Fines	917	1	0.1%	892	985	794	1175	118.88	0.24	0.2%	116.16	129.35	104.47	155.37

## IRON ORE SEABORNE INDEX (IOSI)

## MARKET COMMENTARY

Dec 4th, 2024		CFR Qingdao, USD/dry tonne						
Index	Fe Content	Price	Change	Change %	MTD	YTD	Low <sup>2</sup>	High <sup>2</sup>
IOSI62	62% Fe Fines	106.92	0.27	0.25%	103.52	115.48	89.79	142.65
IOSI65	65% Fe Fines	115.36	0.46	0.40%	117.15	133.12	98.28	171.65

Today, iron ore futures continued to fluctuate, with the most-traded contract (I2501) closing at 812 yuan, up 0.43% for the day. Traders showed moderate enthusiasm for selling, with a strong wait-and-see sentiment; steel mills were cautious in their inquiries, primarily purchasing as needed. The market trading atmosphere was generally average today. In Shandong, the mainstream transaction prices for PB fines were 798 yuan/mt, up 0.5 yuan/mt from yesterday; in Tangshan, the transaction prices for PB fines were 810 yuan/mt, basically flat from yesterday.

According to an SMM survey, on December 4, the operating rate of blast furnaces at 242 surveyed steel mills was 88.94%, down 0.22% MoM. The daily average pig iron production of the sample steel mills was 2.4101 million mt, up 10,100 mt MoM. In the short term, steel mill profits slightly improved, providing some support for ore prices. Coupled with the market's positive expectations for upcoming major meetings, iron ore prices are expected to have room for further upward movement in the short term.

## 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

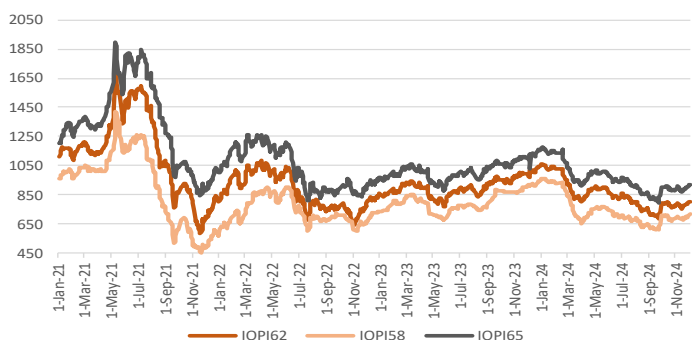
Week Ending Nov 29th, 2024

This week	Change %	Low <sup>2</sup>	High <sup>2</sup>
879.89	-0.08%	854.16	905.40

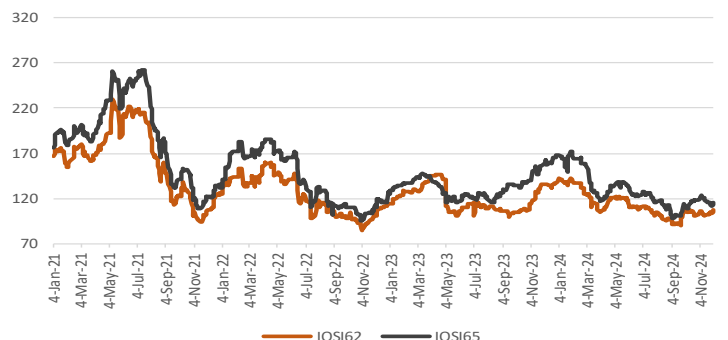
China Mines Concentrate Composite Index RMB/WT

<sup>1</sup> Exchange rate applied: RMB/USD = 7.191    <sup>2</sup> Last 12 months  
<sup>3</sup> 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 4th, 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	780	761	873	99.33	93.70	102.03	100.71	101.11	98.85	114.28
IOPI58	58% Fe Fines	656	630	690	692	691	668	766	85.58	82.73	90.61	89.97	90.06	87.24	100.81
IOPI65	65% Fe Fines	876	829	894	891	892	873	985	114.39	108.89	117.10	115.71	116.16	113.94	129.35

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

## FREIGHT RATES

Dec 4th, 2024		CFR Qingdao, USD/dry tonne							Dec 3rd, 2024						
Index	Fe Content	August	September	October	November	MTD	QTD	YTD	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	103.52	100.27	115.48	W. Australia - Qingdao	C5	8.28	-0.46	-5.21%	7.49	14.89
IOSI65	65% Fe Fines	114.06	102.24	115.31	117.71	117.15	112.41	133.12	Tubarao - Qingdao	C3	18.93	-0.97	-4.87%	18.93	35.02

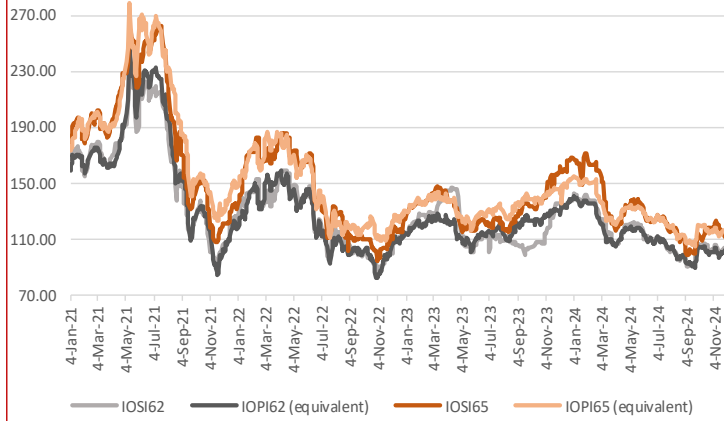
## IRON ORE PORT LUMP INDEX MONTHLY, QUARTERLY AND YEAR-TO-DATE AVERAGES

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 4th, 2024		PORT STOCK INDEX (RMB/WT)		Dec 4th, 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	-89	-11.06%	IOSI65	65% Fe Fines	8.44	7.89%
IOPI65	65% Fe Fines	112	13.91%				

## IRON ORE INDEX COMPARISONS (USD/DMT)



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



## IRON ORE BRAND SPOT PRICE ASSESSMENTS

Dec 4th, 2024				PORT STOCK INDEX (RMB/WT)			Dec 4th, 2024				SEABORNE INDEX (USD/DMT)		
	Price	Change	Diff to IOPI62		Price	Change	Diff to IOPI58		Price	Change	Diff to IOSI62		
Roy Hill	748	1	-57	SSF	716	2	0	Roy Hill	102.42	0.27	-4.50		
SIMEC Fines	676	1	-129	FMG Blended Fines	725	2	9	SIMEC Fines	98.92	0.27	-8.00		
PB Fines	774	1	-31	Robe River	725	2	9	PB Fines	103.17	0.27	-3.75		
Newman Fines	773	1	-32	Western Fines	728	2	12	Newman Fines	106.05	0.30	-0.88		
MAC Fines	755	1	-50	Atlas Fines	722	2	6	MAC Fines	103.17	0.27	-3.75		
Jimblebar Blended Fines	669	1	-136	Yandi	709	2	-7	Jimblebar Blended Fines	95.55	0.30	-11.38		
Carajas Fines	985	1	180					Carajas Fines	136.47	0.27	29.55		
Brazilian SSF	768	2	-37					Brazilian SSF	110.67	0.27	3.75		
Brazilian Blend Fines	787	1	-18					Brazilian Blend Fines	112.30	0.25	5.38		
RTX Fines	688	1	-117					RTX Fines	96.80	0.25	-10.13		
West Pilbara Fines	717	1	-88					West Pilbara Fines	101.17	0.27	-5.75		

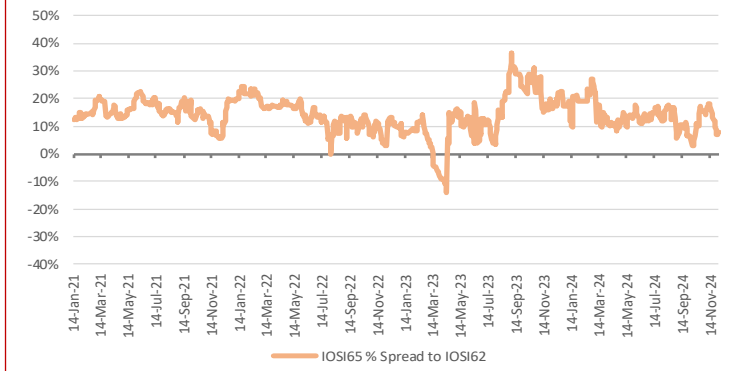
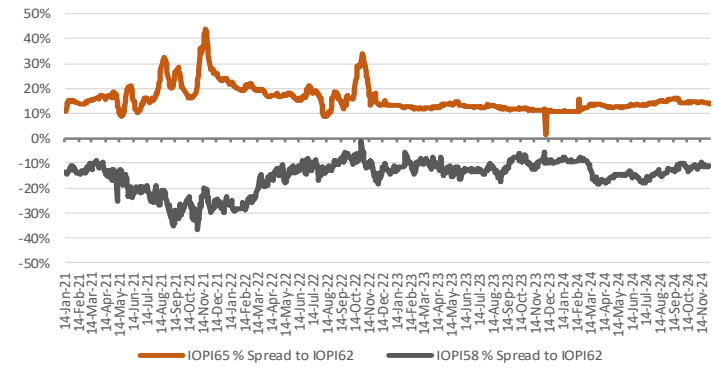
## IRON ORE INDEX NORMALISATION DIFFERENTIALS

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%	0.75	0.50
	High Grade Fe 63 - 64%	5.00	0.00		High Grade Fe 63 - 64%	1.75	0.75
	High Grade Fe 64 - 65%	5.00	0.00		High Grade Fe 64 - 65%	1.75	0.75
	High Grade Fe 65 - 65.5%	5.00	0.00		High Grade Fe 65 - 65.5%	1.75	0.75
1% Alumina	Low Grade Fe	15.00	0.00	1% Alumina	High Fe Grade Al <2.25%	2.00	0.00
	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%	40.00	0.00				
1% Silica	Low Fe Grade Al 2.25-4%	6.00	0.00	1% Silica	High Fe Grade Si <4%	0.25	0.00
	High Fe Grade Si <4%	15.00	-5.00		High Fe Grade Si 4 - 6.5%	0.25	0.00
	High Fe Grade Si 4 - 6.5%	15.00	0.00				
0.01% Phosphorus	Low Fe Grade	5.00	0.00	0.01% Phosphorus	High Fe Grade 0.09%<P<0.115%	1.00	0.25
	High Fe Grade 0.09%<P<0.115%	6.00	0.00		High Fe Grade 0.115%<P<0.15%	0.25	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				

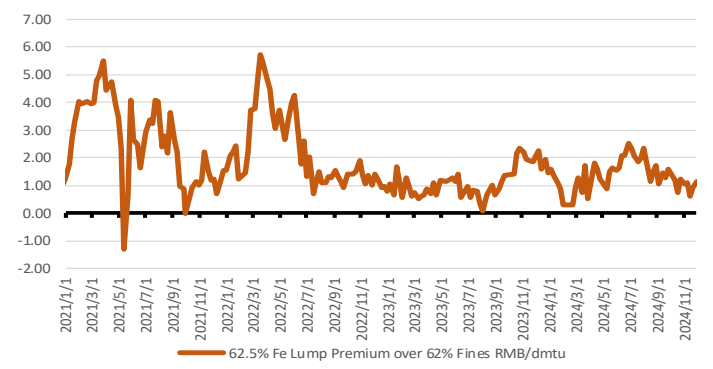
## Port Stock Price Differentials to Qingdao Port for PB Fines (RMB/wet tonne)

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

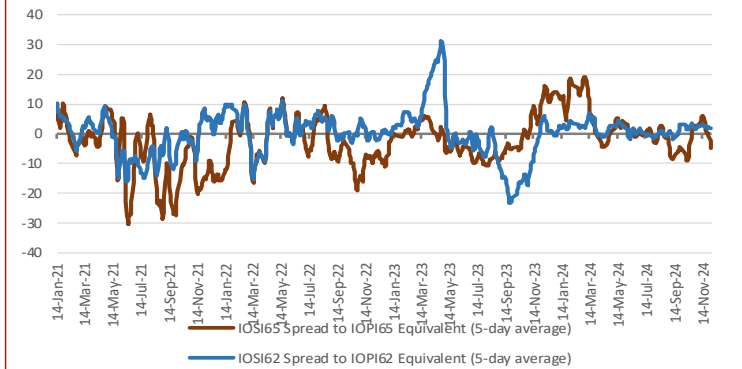
IRON ORE INDEX PREMIUMS/DISCOUNTS



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



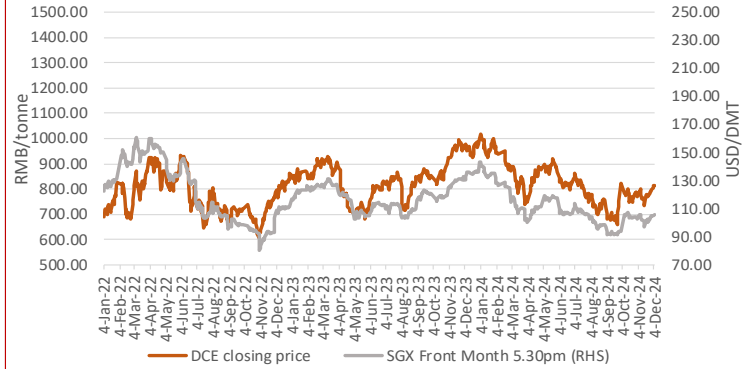
IRON ORE SEABORNE TO PORT STOCK PRICE SPREADS (USD/DMT)



TOTAL IRON ORE INVENTORIES AT CHINA PORTS (MILLION TONNES)



FUTURE TRADING—FRONT MONTH CLOSING PRICE



IRON ORE PORT INVENTORIES (MILLION TONNES)

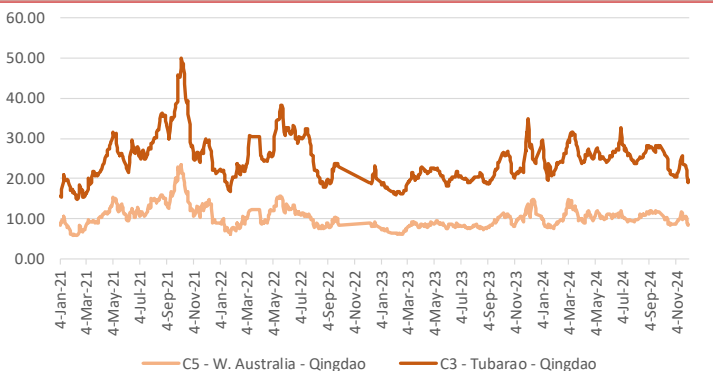
Week Ending Nov 29th, 2024

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>

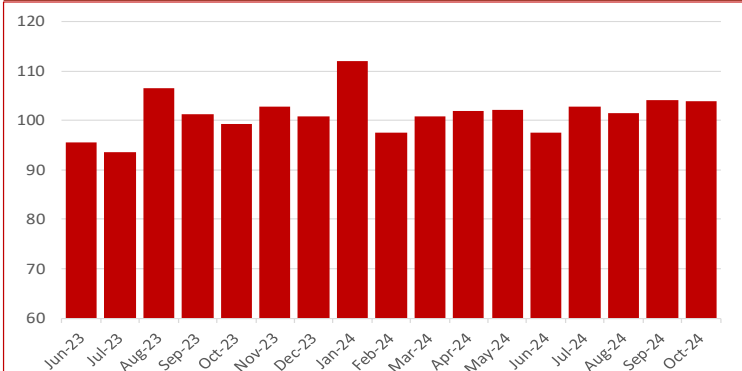
IRON ORE FUTURES CONTRACTS

Closing Date	DCE (RMB/WMT)			SGX (USD/DMT)		
	Dec 4th, 3pm close			Dec 4th, 5:30pm		
Contract	I2501	Change	Change %	Jan. 25	Change	Change %
Closing Price	812.00	-1.50	-0.18%	105.45	0.35	0.33%
Vol traded ('000 lots)	21.95	4.33	24.60%	7.76	0.56	7.78%
Open positions ('000 lots)	29.22	-1.67	-5.39%	33.52	1.17	3.61%
Day Low	802.0	-2.50	-0.31%	103.85	-0.05	-0.05%
Day High	816.5	2.00	0.25%	105.70	0.30	0.28%

DRY BULK FREIGHT RATES (USD/MT)



TOTAL CHINA IRON ORE IMPORT VOLUMES (MILLION TONNES)



STEEL SPOT MARKET PRICES—CHINA

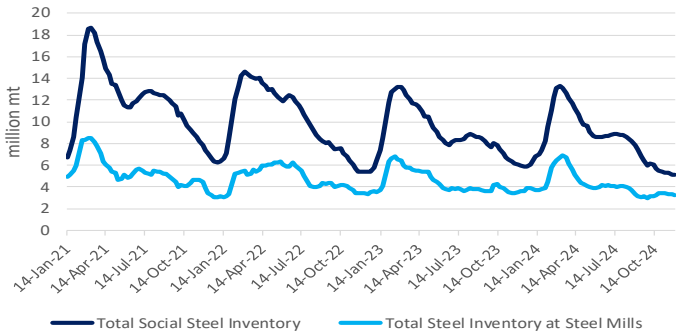
Steel Spot Market RMB/tonne			
Product	2024/11/29	Change	Change %
ReBar HRB400 φ18mm	3,406	0	-0.01%
Wirerod Q300 φ6.5mm	3,584	0	0.01%
HRC Q235/SS400 5.5mm*1500*C	3,509	33	0.95%
CRC SPCC/ST12 1.0mm*1250*2500	4,133	16	0.39%
Medium & Heavy Plate Q235B 20mm	3,620	0	0.00%
GI ST02Z 1.0mm*1000*C	4,440	0	0.00%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

CHINESE STEEL MILL PROFITABILITY

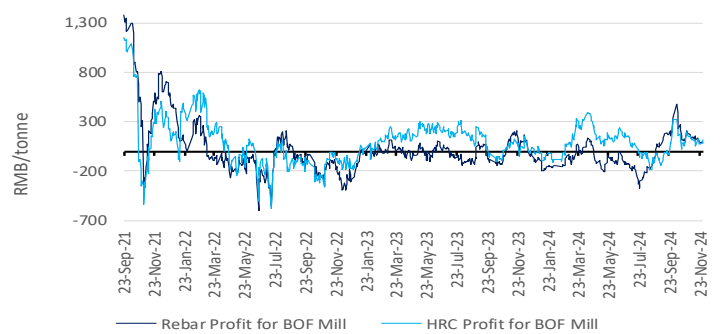
SMM Tracking of Steel Mill P&L - Rebar and Hot-rolled Coil (RMB/tonne)			
Category	Price	Change (WoW)	Note
MMi (Fe 62%), USD/mt excluding tax	102.38	2	Mmi CFR Equivalent index for 1st Feb
Coke	1,955	0	2nd grade met coke, Tangshan, incl. tax
Steel Scrap	2,510	0	steel scrap (6mm) in Zhangjiagang, excl. 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

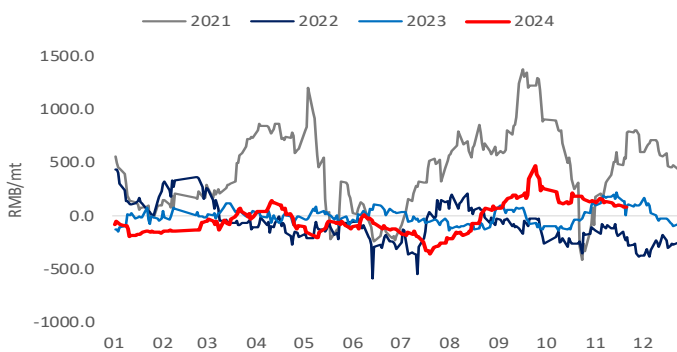
CHINESE STEEL INVENTORIES



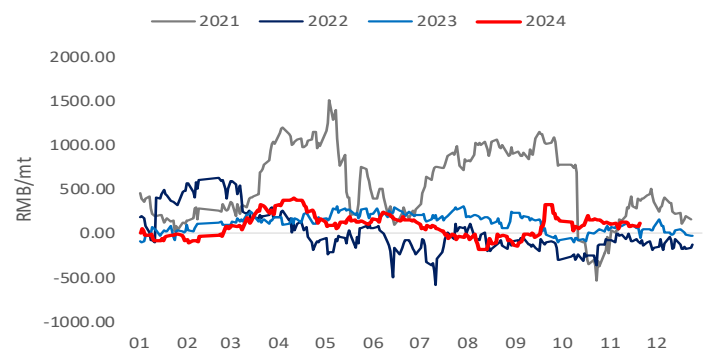
CHINESE STEEL MILL PROFITABILITY



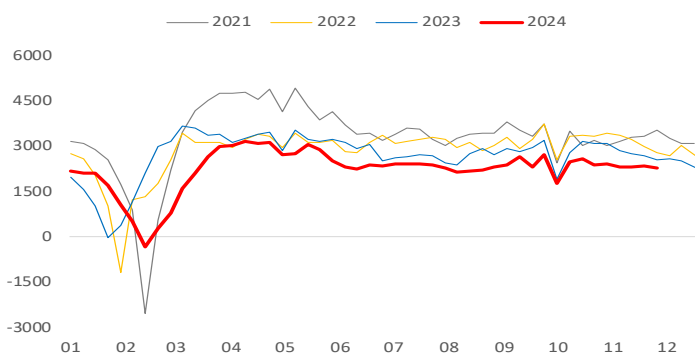
CHINESE STEEL MILL PROFITABILITY—Rebar



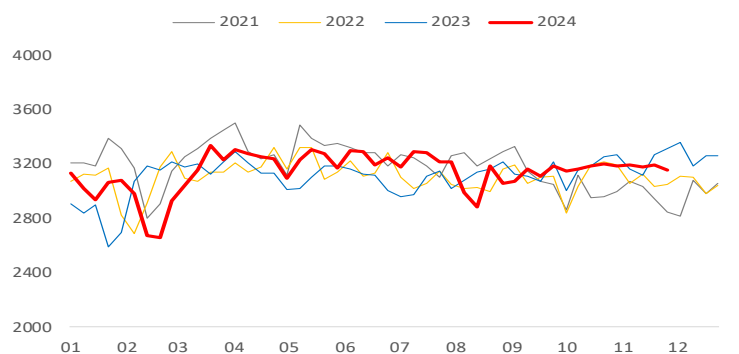
CHINESE STEEL MILL PROFITABILITY—Hot-rolled Coil



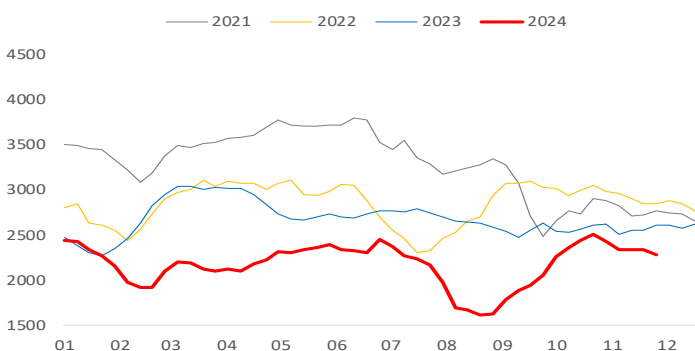
CHINESE STEEL CONSUMPTION—Rebar



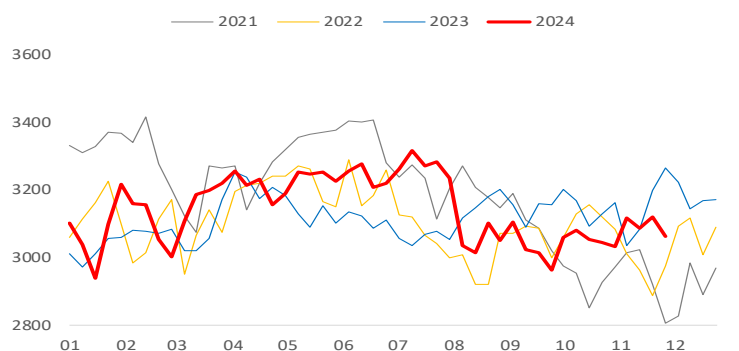
CHINESE STEEL CONSUMPTION—Hot-rolled Coil



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>	<p>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.</p> <p>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></p> <table border="1"> <thead> <tr> <th colspan="4">Data Exclusions*</th> </tr> <tr> <th></th> <th>62%</th> <th>58%</th> <th>65%</th> </tr> </thead> <tbody> <tr> <td>Port Index</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>Seaborne index</td> <td>0</td> <td></td> <td>0</td> </tr> <tr> <td>Lump Index 62.5</td> <td>0</td> <td></td> <td></td> </tr> </tbody> </table> <p>* Number of price submissions for iron ore indices that were excluded from index calculations today as they were anomalous and could not be verified</p>	Data Exclusions*					62%	58%	65%	Port Index	0	0	0	Seaborne index	0		0	Lump Index 62.5	0		
Data Exclusions*																									
	62%	58%	65%																						
Port Index	0	0	0																						
Seaborne index	0		0																						
Lump Index 62.5	0																								
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 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 4th, 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 4th, 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		IRCN0034
IOPI58	IRCNQ002		IRCNQ005		IRCN0035
IOPI65	IRCNQ003		IRCNQ006		
IOPLI62	IRCN0036		IRCN0037		

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