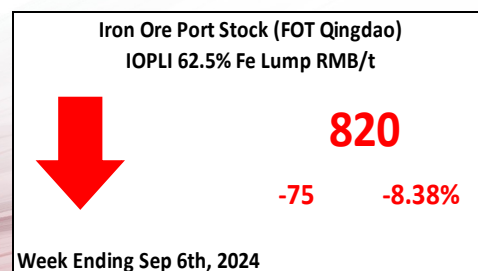
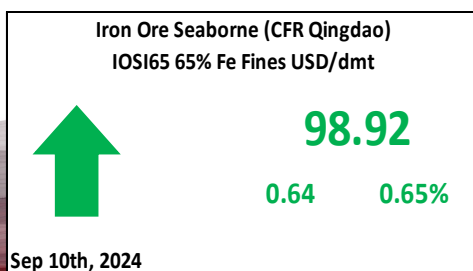
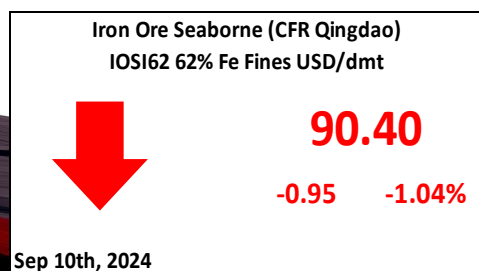
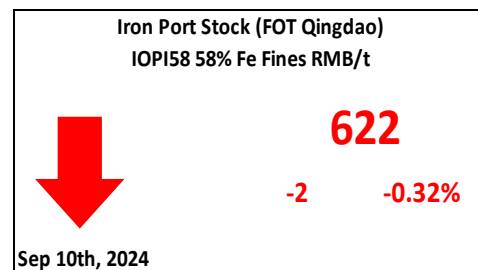
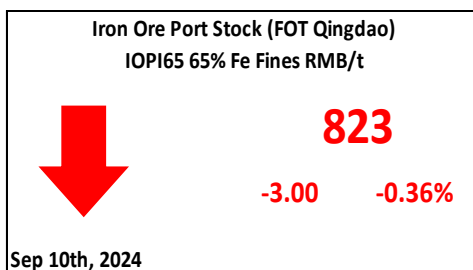
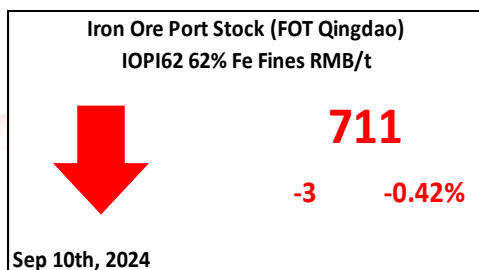


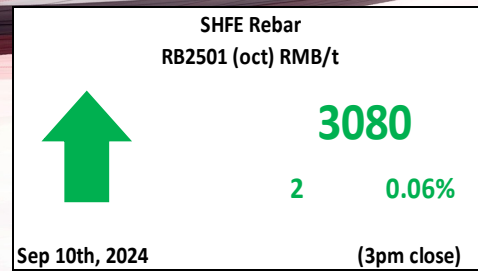
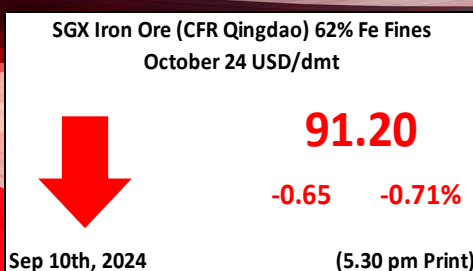
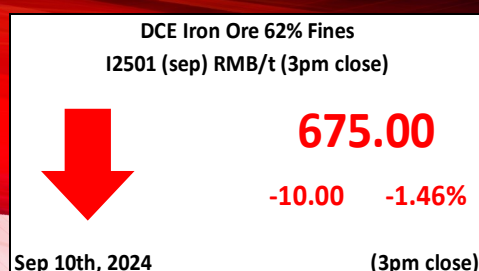


# MMi Dashboard

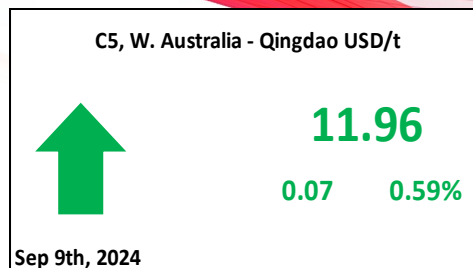
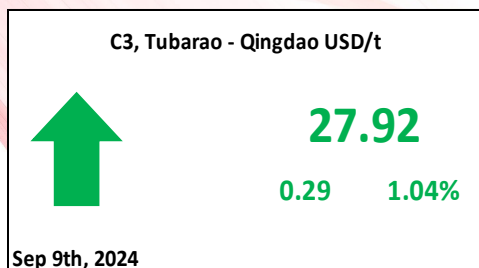
## Iron Ore Price Indices



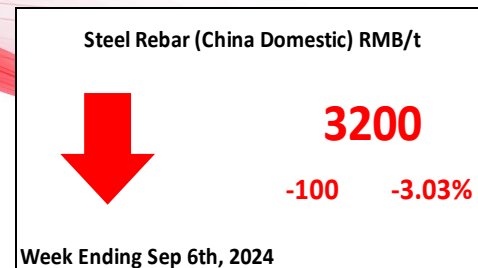
## Exchange Traded Contracts



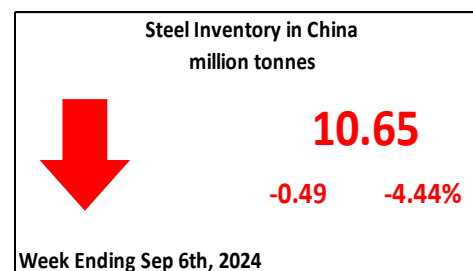
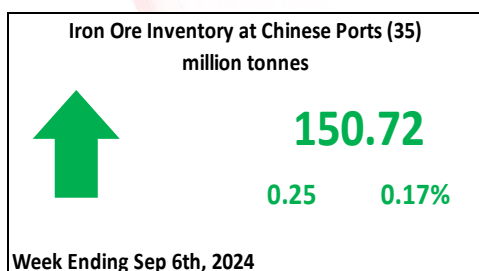
## Freight Rates



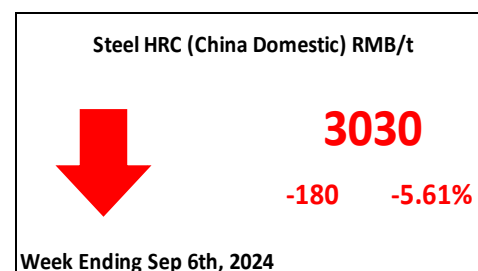
## Steel Price



## Inventory Levels



## Steel Price



## IRON ORE PORT STOCK INDEX (IOPI)

Sep 10th, 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	711	-3.0	-0.42%	880	895	770	1063	92.36	-0.60	-0.6%	116.38	121.03	101.00	140.00
IOPI58	58% Fe Fines	622	-2.0	-0.32%	785	781	665	963	81.20	-0.44	-0.5%	104.50	106.10	86.00	128.00
IOPI65	65% Fe Fines	823	-3.0	-0.36%	996	1026	881	1175	107.50	-0.63	-0.6%	132.21	139.47	116.00	155.00

## IRON ORE SEABORNE INDEX (IOSI)

## MARKET COMMENTARY

Sep 10th, 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	90.40	-0.95	-1.04%	116.42	116.42	99.20	146.75
IOSI65	65% Fe Fines	98.92	0.64	0.65%	130.60	130.60	115.45	171.65

Today, iron ore fluctuated upward and plunged at the close. The most-traded contract I2501 finally settled at 675 yuan/mt, dropping 0.07% throughout the day. Traders were fairly active in offloading their stocks. After the steel mills lowered prices, their cautious sentiment grew stronger, leading to a reduction in purchase willingness. Today's market trading atmosphere was average. The transaction price of PB fines in Shandong was around 678-690 yuan/mt, down 0-2 yuan/mt compared to yesterday; in Tangshan, the transaction price of PB fines was around 692-705 yuan/mt, down 0-3 yuan/mt compared to yesterday.

According to SMM statistics, the impact of blast furnace maintenance on pig iron production this week was 1.4196 million mt, down 35,800 mt WoW. Due to the slow growth in downstream demand, the resumption of blast furnace operations at steel mills has been delayed, making a significant increase in pig iron production unlikely in the short term. The upward momentum for ore prices is lacking, and they may continue to fluctuate at low levels in the near term.

## IRON ORE PORT LUMP INDEX (IOPLI)

Week Ending Sep 6th, 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	820	-75	-8.4%	994	1041	900	1210	102.77	-9.47	-8.44%	126.95	136.27	113.28	153.57

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

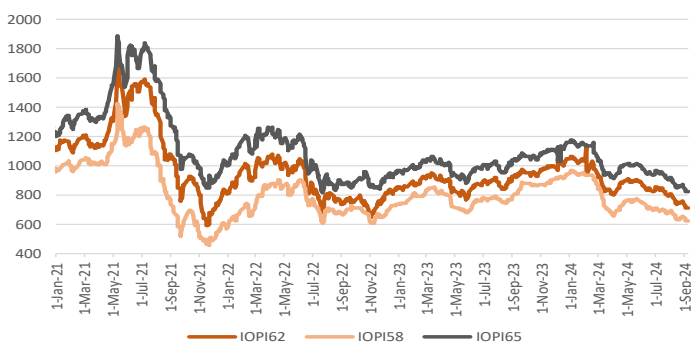
Week Ending Sep 6th, 2024				RMB/tonne (excluding tax) <sup>3</sup>				USD/tonne (excluding tax) <sup>3</sup>			
Province	Region	Product	Basis	This week	Change %	Low <sup>2</sup>	High <sup>2</sup>	This week	Change %	Low <sup>2</sup>	High <sup>2</sup>
Hebei	Hanxing	66% Fe Concentrate	Dry	931	3.6%	779	1645	131.05	3.80%	110.31	255.69
Hebei	Qian'an	65% Fe Concentrate	Dry	965	-4.9%	780	1630	135.84	-4.71%	109.80	251.57
Liaoning	Anshan	65% Fe Concentrate	Wet	780	-1.3%	620	1310	109.80	-1.04%	87.40	202.32
Shandong	Zibo	65% Fe Concentrate	Dry	984	3.8%	800	1752	138.51	4.04%	0.00	272.32

Week Ending Sep 6th, 2024

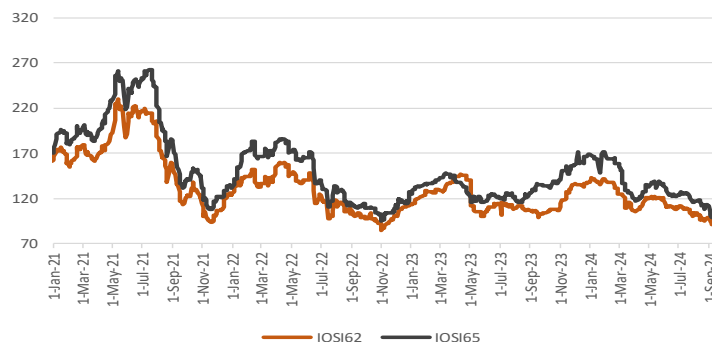
	This week	Change %	Low <sup>2</sup>	High <sup>2</sup>
China Mines Concentrate Composite Index RMB/WT	874.32	-1.73%	706.36	1511.22

<sup>1</sup> Exchange rate applied: RMB/USD = 6.7522    <sup>2</sup> Last 12 months  
<sup>3</sup> 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

Sep 10th, 2024		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	July	August	MTD	QTD	YTD
IOPI62	62% Fe Fines	894	842	829	765	880	874	895	117.28	110.03	107.99	99.33	115.32	115.83	120.56
IOPI58	58% Fe Fines	762	719	692	656	785	779	781	100.47	94.46	90.48	85.58	103.33	103.96	105.35
IOPI65	65% Fe Fines	1006	954	940	876	996	992	1026	132.42	125.13	123.05	114.39	131.20	131.91	139.19

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

## FREIGHT RATES

Sep 10th, 2024		CFR Qingdao, USD/dry tonne							Sep 9th, 2024						
Index	Fe Content	May	June	July	August	MTD	QTD	YTD	FREIGHT RATES - DRY BULK US\$/wet tonne						
									Route	Designation	Change	Change %	Low <sup>2</sup>	High <sup>2</sup>	
IOSI62	62% Fe Fines	120.10	110.42	107.58	99.33	112.14	115.18	116.42	W. Australia - Qingdao	C5	11.96	0.07	0.59%	3.57	16.77
IOSI65	65% Fe Fines	136.06	125.14	123.01	114.06	122.86	129.04	130.60	Tubarao - Qingdao	C3	27.92	0.29	1.04%	6.70	36.40

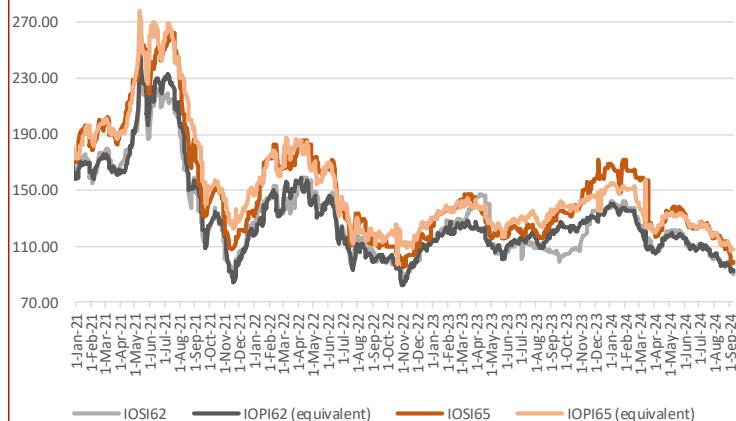
## IRON ORE PORT LUMP INDEX MONTHLY, QUARTERLY AND YEAR-TO-DATE AVERAGES

Week Ending Sep 6th, 2024		FOT Qingdao (inc. 13% VAT), RMB/wet tonne							CFR Qingdao Equivalent (exc. 13% VAT), USD/dry tonne <sup>1</sup>						
Index	Fe Content	May	June	July	August	MTD	QTD	YTD	May	June	July	August	MTD	QTD	YTD
IOPLI62	62.5% Fe Lump	1024	1011	1001	911	933	989	1017	129.18	127.27	125.75	114.10	119.96	126.47	134.98

## IRON ORE INDEX PREMIUMS/DISCOUNTS

Sep 10th, 2024				PORT STOCK INDEX (RMB/WT)		Sep 10th, 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		-12.52%		IOSI65	65% Fe Fines	8.52		9.42%	
IOPI65	65% Fe Fines	112		15.75%							

## IRON ORE INDEX COMPARISONS (USD/DMT)



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



## IRON ORE BRAND SPOT PRICE ASSESSMENTS

Sep 10th, 2024	PORT STOCK INDEX (RMB/WT)			Sep 10th, 2024	SEABORNE INDEX (USD/DMT)		
	Price	Change	Diff to IOPI62		Price	Change	Diff to IOSI62
Roy Hill	654	-3	-57	Roy Hill	85.90	-0.95	-4.50
SIMEC Fines	580	-2	-131	SIMEC Fines	82.40	-0.95	-8.00
PB Fines	682	-3	-29	PB Fines	86.65	-0.95	-3.75
Newman Fines	679	-2	-32	Newman Fines	89.55	-0.90	-0.85
MAC Fines	661	-3	-50	MAC Fines	86.65	-0.95	-3.75
Jimblebar Blended Fines	575	-2	-136	Jimblebar Blended Fines	79.05	-0.90	-11.35
Carajas Fines	891	-3	180	Carajas Fines	119.95	-0.95	29.55
Brazilian SSF	672	-2	-39	Brazilian SSF	94.15	-0.95	3.75
Brazilian Blend Fines	695	-3	-16	Brazilian Blend Fines	95.75	-1.00	5.35
RTX Fines	594	-2	-117	RTX Fines	80.25	-1.00	-10.15
West Pilbara Fines	623	-3	-88	West Pilbara Fines	84.65	-0.95	-5.75

Sep 10th, 2024	PORT STOCK INDEX (RMB/WT)		
	Price	Change	Diff to IOPI58
SSF	622	-3	0
FMG Blended Fines	630	-3	8
Robe River	630	-3	8
Western Fines	633	-3	11
Atlas Fines	627	-3	5
Yandi	616	-3	-6

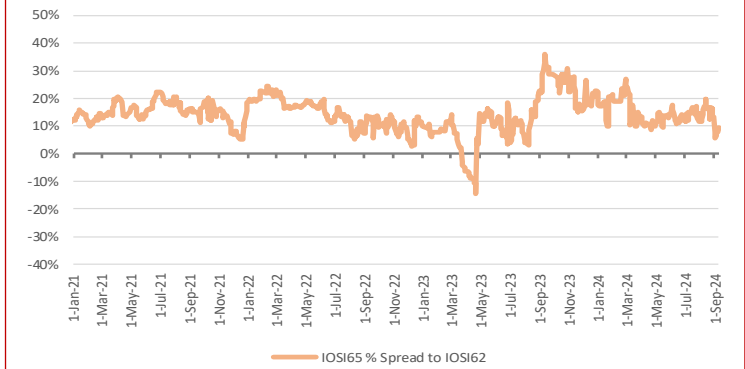
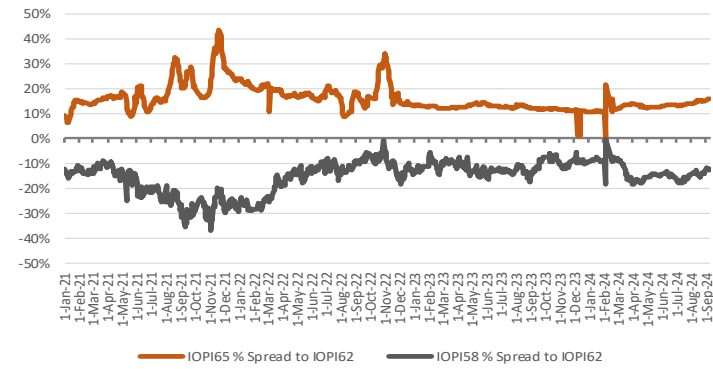
## IRON ORE INDEX NORMALISATION DIFFERENTIALS

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%	1.00	0.75
	High Grade Fe 63 - 64%	5.00	-5.00		High Grade Fe 63 - 64%	4.50	0.50
	High Grade Fe 64 - 65%	5.00	-5.00		High Grade Fe 64 - 65%	4.50	0.50
	High Grade Fe 65 - 65.5%	5.00	-5.00		High Grade Fe 65 - 65.5%	4.50	0.50
1% Alumina	Low Grade Fe	24.00	3.00	1% Alumina	High Fe Grade Al <2.25%	0.25	0.00
	High Fe Grade Al <2.25%	48.00	0.00		High Fe Grade Al 2.25-4%	0.25	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%	5.00	0.00	1% Silica	High Fe Grade Si <4%	0.50	0.25
	High Fe Grade Si <4%	8.00	2.00		High Fe Grade Si 4 - 6.5%	0.25	0.00
0.01% Phosphorus	High Fe Grade Si 4-6.5%	17.00	-1.00	0.01% Phosphorus	High Fe Grade 0.09%<P<0.115%	0.25	0.00
	Low Fe Grade	35.00	5.00		High Fe Grade 0.115%<P<0.15%	0.25	0.00
	High Fe Grade 0.09%<P<0.115%	5.00	0.00				
	High Fe Grade 0.115%<P<0.15%	5.00	0.00				
	Low Fe Grade 0.09%<P<0.1%	9.00	1.00				

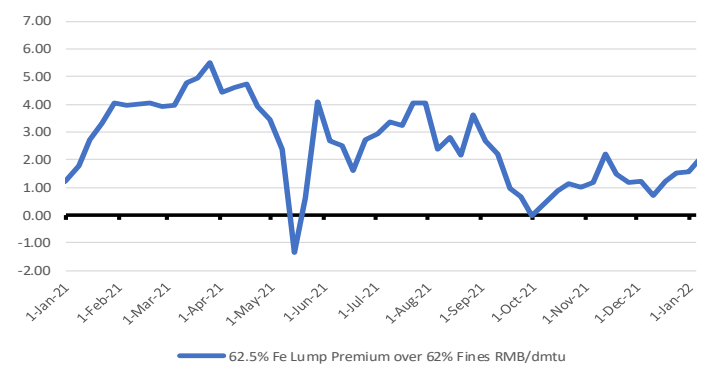
## Port Stock Price Differentials to Qingdao Port for PB Fines (RMB/wet tonne)

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	-30.00	0.00	Lianyungang	0.00	0.00	Shekou	0.00	0.00
Caofeidian	-15.00	0.00	Jingtang	-15.00	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	-10.00	0.00

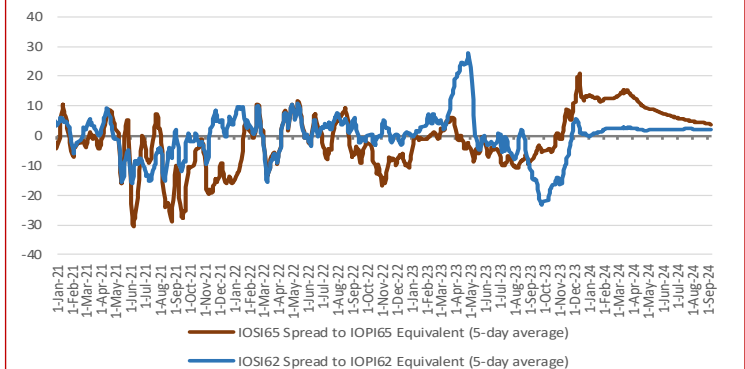
IRON ORE INDEX PREMIUMS/DISCOUNTS



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



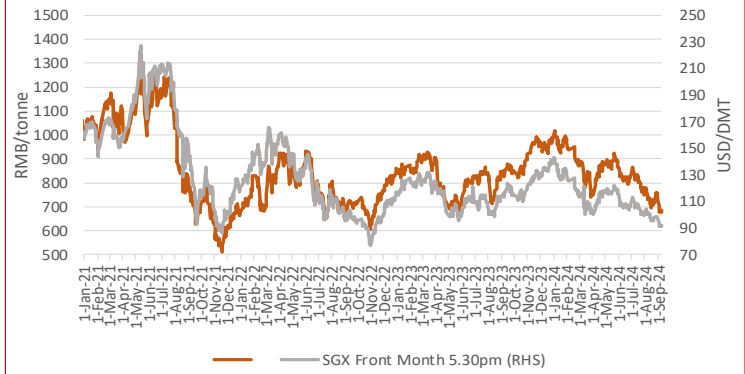
IRON ORE SEABORNE TO PORT STOCK PRICE SPREADS (USD/DMT)



TOTAL IRON ORE INVENTORIES AT CHINA PORTS (MILLION TONNES)



FUTURE TRADING—FRONT MONTH CLOSING PRICE



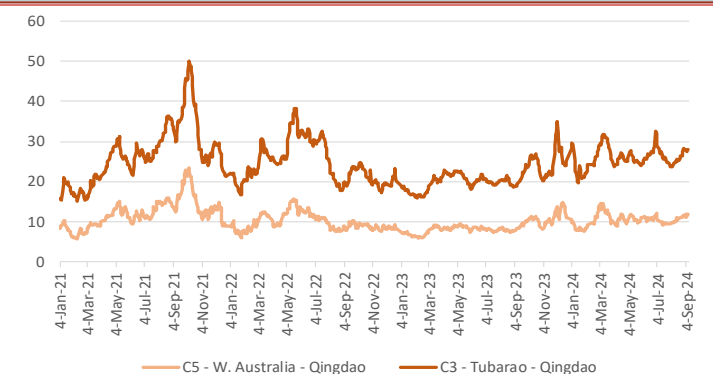
IRON ORE PORT INVENTORIES (MILLION TONNES)

Week Ending Sep 6th, 2024				
Province	This week	Change %	Low <sup>2</sup>	High <sup>2</sup>
Jingtang	15.00	-1.64%	8.41	19.20
Qingdao	24.75	0.81%	9.41	26.24
Caofeidian	18.47	2.84%	7.56	18.47
Tianjin	11.86	0.00%	6.49	12.97
Rizhao	20.58	0.19%	9.44	20.58
<b>Total (35 Ports)</b>	<b>150.72</b>	<b>0.17%</b>	<b>98.80</b>	<b>155.39</b>

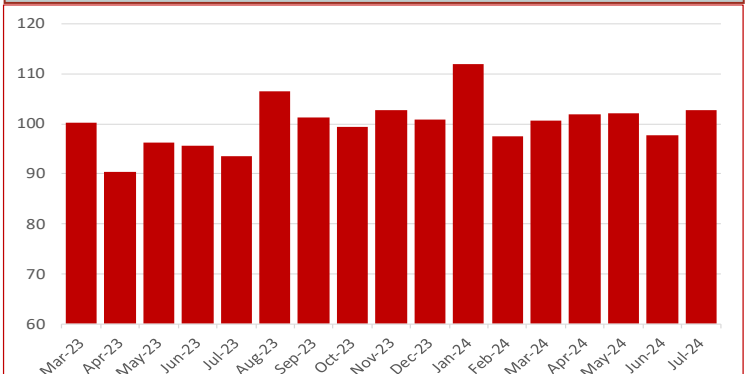
IRON ORE FUTURES CONTRACTS

Closing Date	DCE (RMB/WMT)			SGX (USD/DMT)		
	Sep 10th, 3pm close			Sep 10th, 5:30pm		
Contract	I2501	Change	Change %	October. 24	Change	Change %
Closing Price	675.00	-10.00	-1.46%	91.20	-0.65	-0.71%
Vol traded ('000 lots)	56.89	-9.45	-14.25%	9.05	-0.88	-8.85%
Open positions ('000 lots)	57.32	1.62	2.91%	40.88	-0.01	-0.01%
Day Low	674.5	12.50	1.89%	90.55	0.95	1.06%
Day High	696.0	5.00	0.72%	93.25	0.60	0.65%

DRY BULK FREIGHT RATES (USD/MT)



TOTAL CHINA IRON ORE IMPORT VOLUMES (MILLION TONNES)



STEEL SPOT MARKET PRICES—CHINA

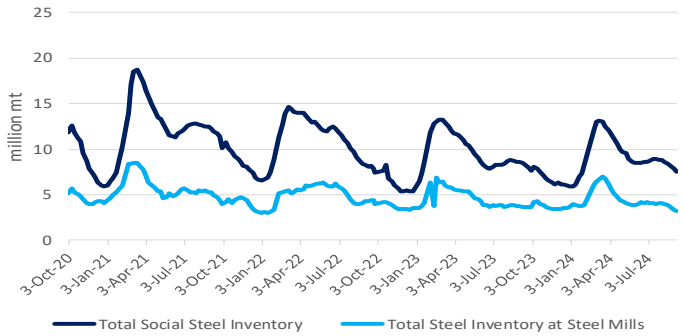
Steel Spot Market RMB/tonne			
Product	2024/9/6	Change	Change %
ReBar HRB400 φ18mm	3,200	-100	-3.03%
Wirerod Q300 φ6.5mm	3,450	-100	-2.82%
HRC Q235/SS400 5.5mm*1500*C	3,030	-180	-5.61%
CRC SPCC/ST12 1.0mm*1250*2500	3,630	-130	-3.46%
Medium & Heavy Plate Q235B 20mm	3,190	-100	-3.04%
GI ST02Z 1.0mm*1000*C	3,720	-200	-5.10%
Colour Coated Plate	6,050	-50	-0.82%

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	92.04	-3	Mmi CFR Equivalent index for 1st Feb
Coke	1,845	0	2nd grade met coke, Tangshan, incl. tax
Steel Scrap	2,390	0	steel scrap (6mm) in Zhangjiagang, excl. tax
Billet Cost	2,511	-87	Q234, incl. tax
Rebar cost - Blast furnace	3,063	-99	calculated based on theoretical weight, incl. tax
Rebar profit - Blast furnace	67	9	based on Shanghai prices, incl. tax
Hot-rolled coil cost - Blast furnace	3,141	-92	based on actual weight, incl. tax
Hot-rolled coil profit - Blast furnace	-141	-108	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

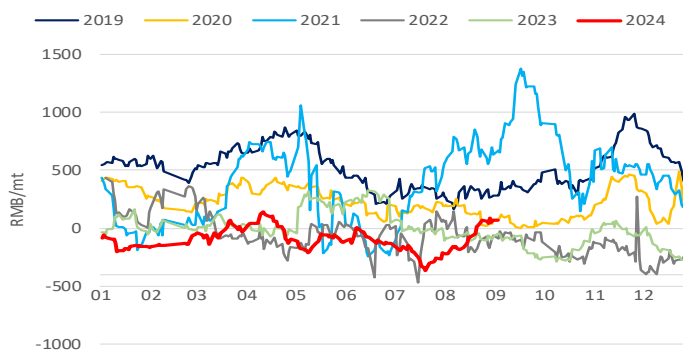
CHINESE STEEL INVENTORIES



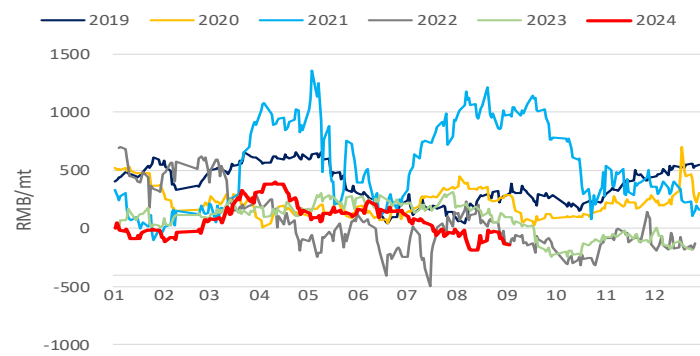
CHINESE STEEL MILL PROFITABILITY



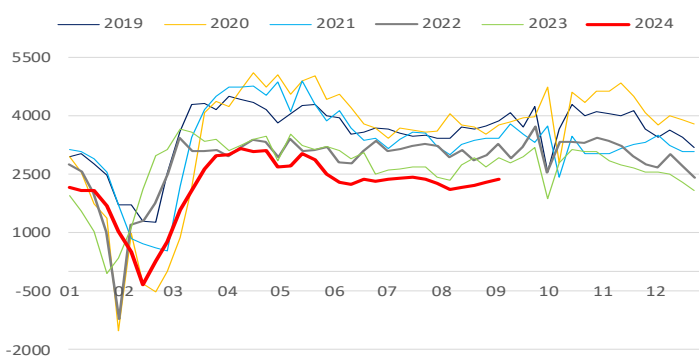
CHINESE STEEL MILL PROFITABILITY—Rebar



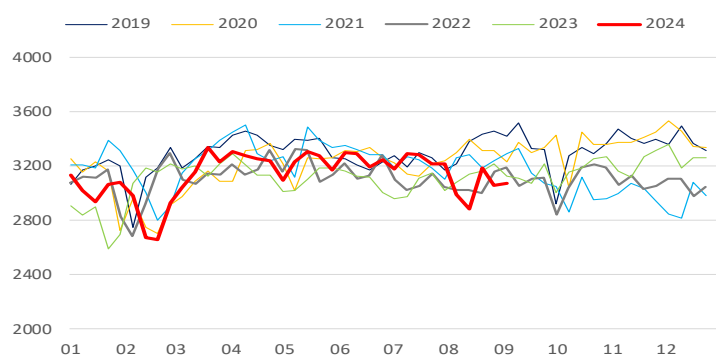
CHINESE STEEL MILL PROFITABILITY—Hot-rolled Coil



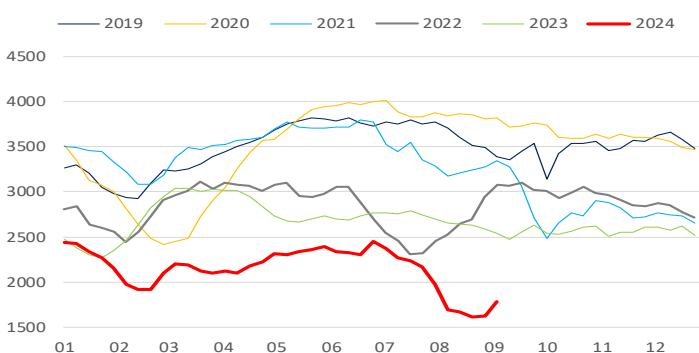
CHINESE STEEL CONSUMPTION—Rebar



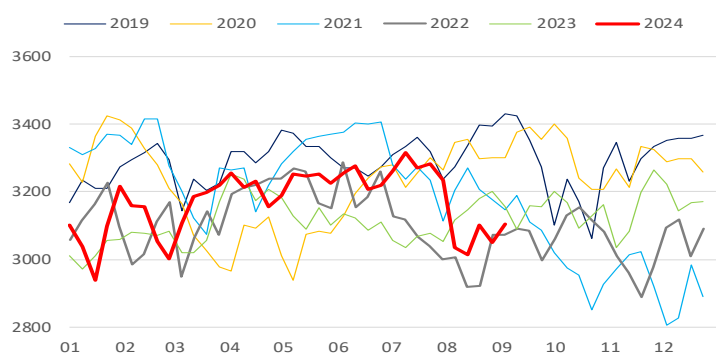
CHINESE STEEL CONSUMPTION—Hot-rolled Coil



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
	<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					
Sep 10th, 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%	4.30%	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%
Sep 10th, 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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