Metals Market Index MMi

MMi Dashboard

Iron Ore Price Indices

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

⬆ 807

3 0.37%

Dec 17th, 2025

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

⬆ 919

3.05 0.33%

Dec 17th, 2025

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

⬆ 706

3 0.46%

Dec 17th, 2025

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

⬆ 106.90

1.04 0.98%

Dec 17th, 2025

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

⬆ 120.15

1.19 1.00%

Dec 17th, 2025

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

— 865

0 0.00%

Week Ending Dec 12th, 2025

Exchange Traded Contracts

DCE Iron Ore 62% Fines
I2605 (May) RMB/t (3pm close)

⬆ 768.00

7.00 0.92%

Dec 17th, 2025 (3pm close)

SGX Iron Ore (CFR Qingdao) 62% Fe Fines
December 25 USD/dmt

⬆ 103.70

1.20 1.17%

Dec 17th, 2025 (5.30 pm Print)

SHFE Rebar
RB2605 (Jan) RMB/t

⬆ 3084

3 0.10%

Dec 17th, 2025 (3pm close)

Freight Rates

C3, Tubarao - Qingdao USD/t

⬆ 22.69

0.71 3.2%

Dec 16th, 2025

C5, W. Australia - Qingdao USD/t

⬆ 10.55

0.15 1.4%

Dec 16th, 2025

Steel Price

Steel Rebar (China Domestic) RMB/t

⬇ 3149

-41 -1.29%

Week Ending Dec 12th, 2025

Inventory Levels

Iron Ore Inventory at Chinese Ports (35)
million tonnes

⬆ 141.00

1.18 0.84%

Week Ending Dec 12th, 2025

Steel Inventory in China
million tonnes

⬇ 9.27

-0.31 -3.24%

Week Ending Dec 12th, 2025

Steel Price

Steel HRC (China Domestic) RMB/t

⬇ 3249

-58 -1.74%

Week Ending Dec 12th, 2025

IRON ORE PORT STOCK INDEX (IOPI)

Dec 17th, 2025		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	**807**	3	0.4%	786	831	683	1063	**106.18**	0.45	0.4%	101.94	108.35	89.33	140.24
IOPI58	58% Fe Fines	**706**	3	0.5%	690	729	610	963	**93.41**	0.49	0.5%	90.01	95.57	80.25	128.13
IOPI65	65% Fe Fines	**919**	3	0.3%	898	943	794	1175	**121.41**	0.47	0.4%	116.98	123.40	104.47	155.37

IRON ORE SEABORNE INDEX (IOSI)

Dec 17th, 2025		CFR Qingdao, USD/dry tonne						
Index	**Fe Content**	**Price**	**Change**	**Change %**	**MTD**	**YTD**	**Low [2]**	**High [2]**
IOSI62	62% Fe Fines	**106.90**	1.04	0.98%	103.34	109.60	89.79	142.65
IOSI65	65% Fe Fines	**120.15**	1.19	1.00%	114.64	124.00	98.23	171.65

MARKET COMMENTARY

Today the most-traded iron ore contract I2605 continued to fluctuate upward, closing at 768 yuan/mt, up 1.25% from the previous working day. Traders actively sold goods, while steel mills cautiously waited and purchased as needed. Transactions were mainly driven by steel mill procurement, and the trading atmosphere was sluggish. In Shandong, the transaction price of PB fines was 783-790 yuan/mt, up 3-5 yuan/mt from the previous day; in Hebei, the transaction price of PB fines was 795-803 yuan/mt, up 3-5 yuan/mt from the previous day.

According to the SMM survey, on December 17, the blast furnace operating rate at the 242 steel mills surveyed by SMM was 84.64%, down 0.59 percentage points MoM. The daily average hot metal production at the sample steel mills was 2.3477 Mt, down 14,200 mt MoM. Recently, affected by environmental protection-driven production restrictions in the north, some steel mills halted blast furnaces for maintenance or idling, leading to a continued decline in hot metal production. The fundamental supply-demand picture for iron ore remains weak. However, considering the short-term production decline, which benefits steel prices, and the current recovery in steel mill profits, market pessimism has eased somewhat, driving a slight rebound in ore prices.

IRON ORE PORT LUMP INDEX (IOPLI)

Week Ending Dec 12th, 2025		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-oW**	**Change %**	**MTD**	**YTD**	**Low [2]**	**High [2]**
IOPLI62	62.5% Fe Lump	**865**	**0**	**0.0%**	900	962	820	1210	**109.10**	0.05	0.05%	112.45	120.62	102.77	153.57

IRON ORE DOMESTIC CONCENTRATE SPOT PRICE ASSESSMENTS AND COMPOSITE INDEX

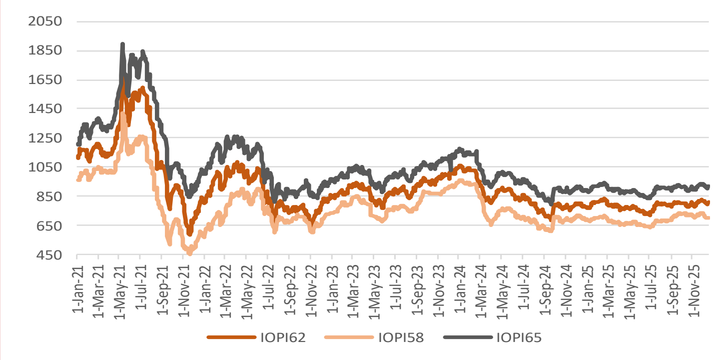
Week Ending Dec 12th, 2025				RMB/tonne (excluding tax) [3]				USD/tonne (excluding tax) [3]			
Province	**Region**	**Product**	**Basis**	**This week**	**Change %**	**Low [2]**	**High [2]**	**This week**	**Change %**	**Low [2]**	**High [2]**
Hebei	**Hanxing**	66% Fe Concentrate	Dry	**971**	0.7%	859	1226	**137.30**	0.78%	119.88	172.59
Hebei	**Qian'an**	65% Fe Concentrate	Dry	**990**	-2.9%	880	1300	**139.98**	-2.88%	122.81	183.23
Liaoning	**Anshan**	65% Fe Concentrate	Wet	**756**	-0.8%	690	970	**106.90**	-0.73%	96.49	136.72
Shandong	**Zibo**	65% Fe Concentrate	Dry	**1005**	0.8%	878	1294	**142.10**	0.86%	122.53	182.16

Week Ending Dec 12th, 2025	This week	Change %	Low [2]	High [2]
China Mines Concentrate Composite Index RMB/WT	**893.30**	-0.71%	802.20	905.40

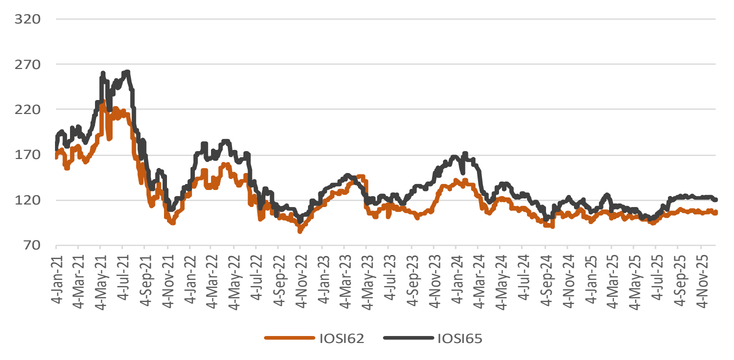
[1] Exchange rate applied: RMB/USD = 7.191 [2]Last 12 months

[3] 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 17th, 2025		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	795	801	792	805	**786**	780	831	103.51	104.69	103.56	105.46	**101.94**	101.30	108.35
IOPI58	58% Fe Fines	683	716	726	720	**690**	684	729	89.38	94.18	95.66	95.02	**90.01**	89.34	95.57
IOPI65	65% Fe Fines	907	914	903	917	**898**	892	943	118.58	119.85	118.69	120.64	**116.98**	116.34	123.40

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

Dec 17th, 2025		CFR Qingdao, USD/dry tonne						
Index	**Fe Content**	**August**	**September**	**October**	**November**	**MTD**	**QTD**	**YTD**
IOSI62	62% Fe Fines	104.59	107.88	107.27	106.33	**103.34**	102.57	109.60
IOSI65	65% Fe Fines	118.01	122.98	122.90	122.46	**114.64**	113.81	124.00

FREIGHT RATES

Dec 16th, 2025		FREIGHT RATES - DRY BULK US$/wet tonne				
Route	**Designation**		**Change**	**Change %**	**Low [2]**	**High [2]**
W. Australia - Qingdao	C5	**10.55**	**0.15**	**1.4%**	5.92	14.89
Tubarao - Qingdao	C3	**22.69**	**0.71**	**3.2%**	16.08	35.02

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

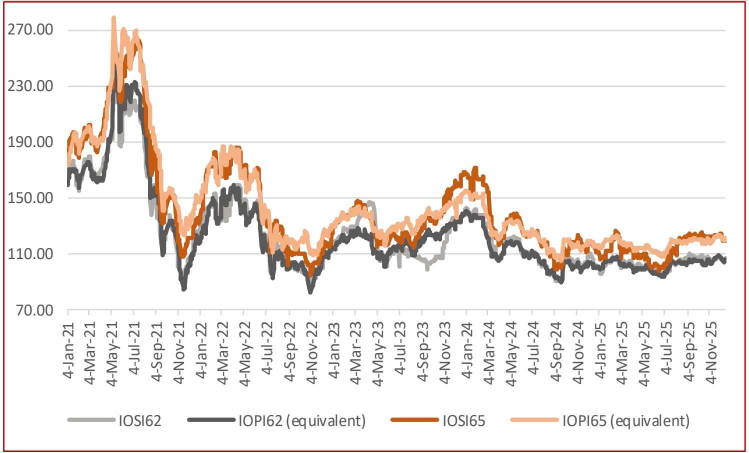
Week Ending Dec 12th, 2025		FOT Qingdao (inc. 13% VAT), RMB/wet tonne							CFR Qingdao Equivalent (exc. 13% VAT), USD/dry tonne [1]						
Index	**Fe Content**	**August**	**September**	**October**	**November**	**MTD**	**QTD**	**YTD**	**August**	**September**	**October**	**November**	**MTD**	**QTD**	**YTD**
IOPLI62	62.5% Fe Lump	921	926	909	880	**900**	896	962	115.37	116.51	114.52	110.83	**112.45**	111.94	120.62

IRON ORE INDEX PREMIUMS/DISCOUNTS

Dec 17th, 2025		PORT STOCK INDEX (RMB/WT)	
Index	Fe Content	Spread to IOPI62	% Spread to IOPI62
IOPI58	58% Fe Fines	**-101**	-12.53%
IOPI65	65% Fe Fines	**112**	13.84%

Dec 17th, 2025		SEABORNE INDEX (USD/DMT)	
Index	**Fe Content**	**Spread to IOSI62**	**% Spread to IOSI62**
IOSI65	65% Fe Fines	**13.25**	12.39%

IRON ORE INDEX COMPARISONS (USD/DMT)



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

IRON ORE BRAND SPOT PRICE ASSESMENTS

Dec 17th, 2025	PORT STOCK INDEX (RMB/WT)		
	Price	Change	Diff to IOPI62
Roy Hill	750	3	-57
SIMEC Fines	675	0	-132
PB Fines	778	5	-29
Newman Fines	779	7	-28
MAC Fines	760	6	-47
Jimblebar Blended Fines	674	6	-133
Carajas Fines	985	1	178
Brazilian SSF	766	0	-41
Brazilian Blend Fines	792	6	-15
RTX Fines	690	3	-117
West Pilbara Fines	719	3	-88

Dec 17th, 2025	SEABORNE INDEX (USD/DMT)		
	Price	Change	Diff to IOSI62
Roy Hill	100.10	0.85	-6.80
SIMEC Fines	98.90	1.00	-8.00
PB Fines	106.70	2.60	-0.20
Newman Fines	100.50	0.55	-6.40
MAC Fines	99.30	0.80	-7.60
Jimblebar Blended Fines	93.50	1.00	-13.40
Carajas Fines	119.70	0.30	12.80
Brazilian SSF	109.70	0.10	2.80
Brazilian Blend Fines	109.65	0.75	2.75
RTX Fines	99.70	3.95	-7.20
West Pilbara Fines	100.50	0.40	-6.40

Dec 17th, 2025	PORT STOCK INDEX (RMB/WT)		
	Price	Change	Diff to IOPI58
SSF	706	3	0
FMG Blended Fines	715	3	9
Robe River	715	3	9
Western Fines	718	3	12
Atlas Fines	712	3	6
Yandi	699	3	-7

IRON ORE INDEX NORMALISATION DIFFERENTIALS

Port Stock Index Product Differentials (RMB/wet tonne)

	Applicable range	Value	Change
1% Fe	High Grade Fe 60 - 63%	9.00	0.00
	High Grade Fe 63 - 64%	5.00	0.00
	High Grade Fe 64 - 65%	5.00	0.00
	High Grade Fe 65 - 65.5%	5.00	0.00
	Low Grade Fe	19.00	0.00
1% Alumina	High Fe Grade Al <2.25%	18.00	0.00
	High Fe Grade Al 2.25-4%	72.00	-8.00
	Low Fe Grade Al <2.25%	20.00	0.00
	Low Fe Grade Al 2.25-4%	28.00	0.00
1% Silica	High Fe Grade Si <4%	8.00	0.00
	High Fe Grade Si 4-6.5%	30.00	-5.00
	Low Fe Grade	9.00	2.00
0.01% Phosphorus	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%	5.00	0.00

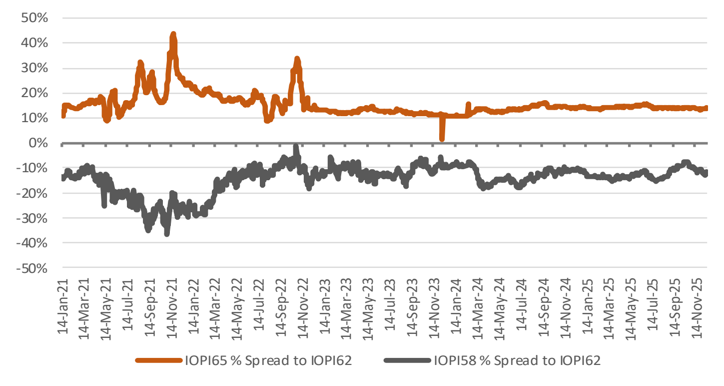
Seaborne Index Product Differentials (USD/dry tonne)

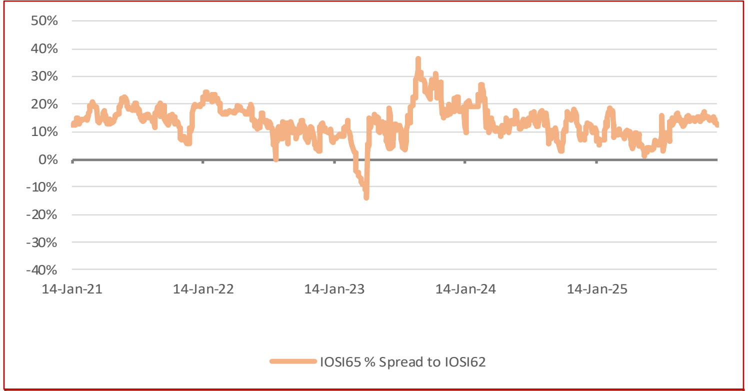
	Applicable range	Value	Change
1% Fe	High Grade Fe 60 - 63%	2.50	-0.25
	High Grade Fe 63 - 64%	2.75	0.00
	High Grade Fe 64 - 65%	2.75	0.00
	High Grade Fe 65 - 65.5%	2.75	0.00
1% Alumina	High Fe Grade Al <2.25%	5.25	-0.25
	High Fe Grade Al 2.25-4%	5.50	0.00
1% Silica	High Fe Grade Si <4%	2.75	0.00
	High Fe Grade Si 4 - 6.5%	2.75	-0.25
0.01% Phosphorus	High Fe Grade 0.09%<P<0.115%	1.25	0.25
	High Fe Grade 0.115%<P<0.15%	1.25	0.00

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

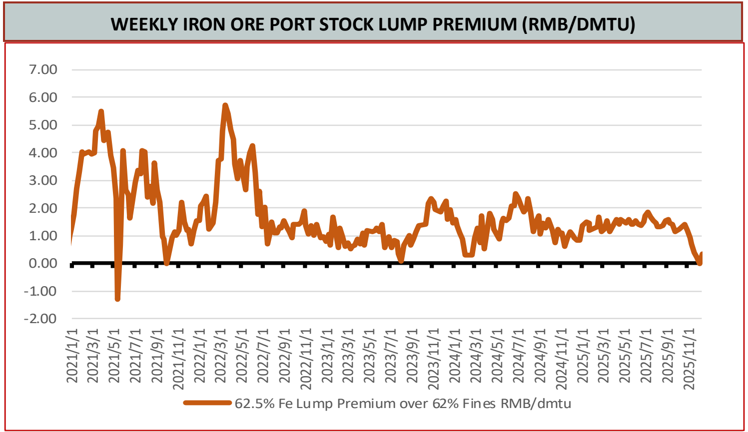
Port	Value	Change	Port	Value	Change	Port	Value	Change	Port	Value	Change
Bayuquan	-45.00	0.00	Fangcheng	-25.00	0.00	Lanshan	0.00	0.00	Rizhao	0.00	0.00
Beilun	0.00	0.00	Jiangyin	-20.00	0.00	Lianyungang	-5.00	0.00	Shekou	0.00	0.00
Caofeidian	-8.00	0.00	Jingtang	-10.00	0.00	Majishan	0.00	0.00	Taicang	-20.00	0.00
Dalian	0.00	0.00	Lanqiao	0.00	0.00	Qingdao	0.00	0.00	Tianjin	-10.00	0.00

IRON ORE INDEX PREMIUMS/DISCOUNTS

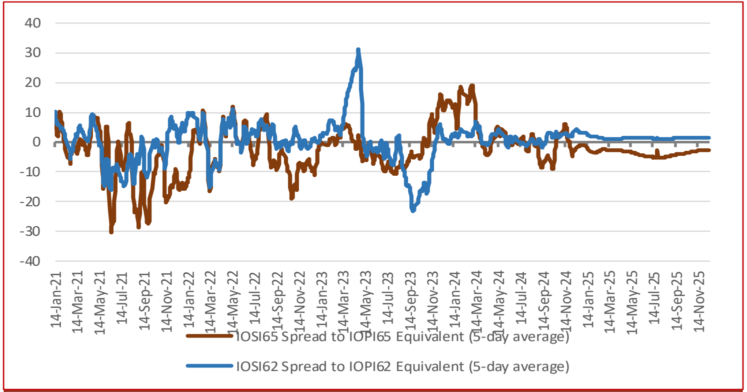




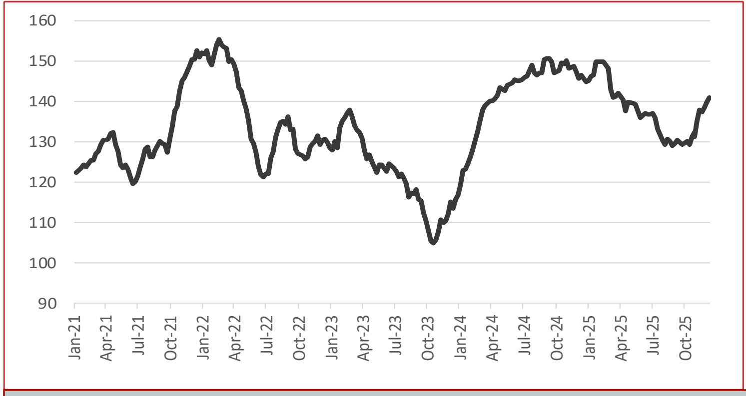
WEEKLY IRON ORE PORT STOCK LUMP PREMIUM (RMB/DMTU)



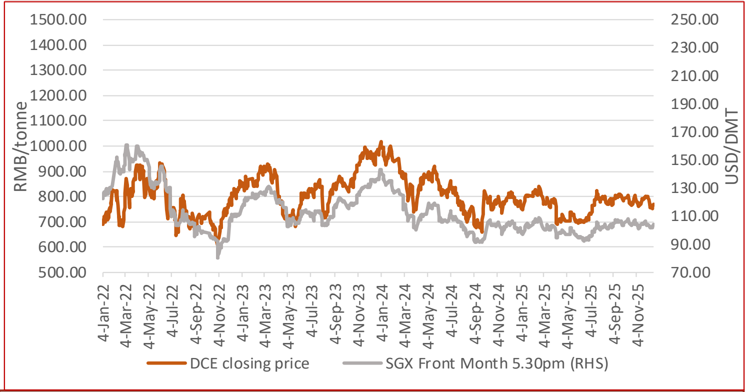
IRON ORE SEABORNE TO PORT STOCK PRICE SPREADS (USD/DMT)



TOTAL IRON ORE INVENTORIES AT CHINA PORTS (MILLION TONNES)



FUTURE TRADING—FRONT MONTH CLOSING PRICE



IRON ORE PORT INVENTORIES (MILLION TONNES)

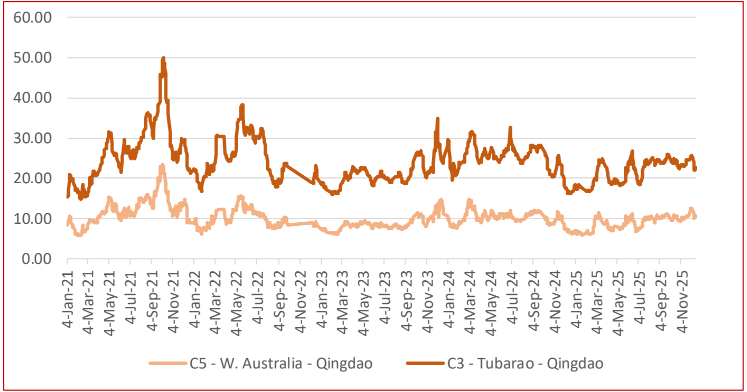
Week Ending Dec 12th, 2025

Province	This week	Change %	Low[2]	High[2]
Jingtang	13.45	3.22%	8.29	17.20
Qingdao	32.40	-3.17%	22.28	33.46
Caofeidian	14.21	0.85%	7.56	20.28
Tianjin	10.39	0.87%	6.64	12.36
Rizhao	14.63	3.91%	11.52	21.35
Total (35 Ports)	141.00	0.84%	105.01	150.72

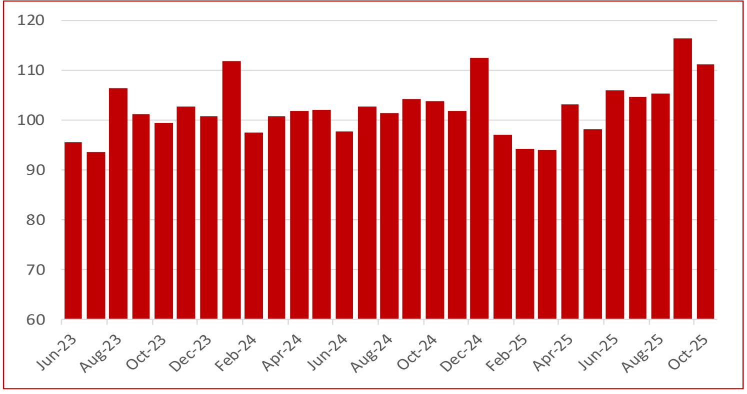
IRON ORE FUTURES CONTRACTS

	DCE (RMB/WMT)			SGX (USD/DMT)		
Closing Date	Dec 17th, 3pm close			Dec 17th, 5:30pm		
Contract	I2605	Change	Change %	Jun. 26	Change	Change %
Closing Price	768.00	7.00	0.92%	103.70	1.20	1.17%
Vol traded ('000 lots)	22.98	-0.98	-4.10%	12.86	3.40	36.00%
Open positions ('000 lots)	48.90	0.94	1.97%	57.35	-1.90	-3.21%
Day Low	759.0	7.00	0.93%	102.45	1.00	0.99%
Day High	769.5	5.50	0.72%	103.70	1.05	1.02%

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	2025/12/12	Change	Change %
ReBar HRB400 ϕ18mm	**3,149**	-41	-1.29%
Wirerod Q300 ϕ6.5mm	**3,350**	-44	-1.30%
HRC Q235/SS400 5.5mm*1500*C	**3,249**	-58	-1.74%
CRC SPCC/ST12 1.0mm*1250*2500	**3,843**	-34	-0.88%
Medium & Heavy Plate Q235B 20mm	**3,370**	-27	-0.79%
GI ST02Z 1.0mm*1000*C	**4,113**	-23	-0.57%
Colour Coated Plate	**6,350**	**0**	**0.00%**

CHINESE STEEL MILL PROFITABILITY

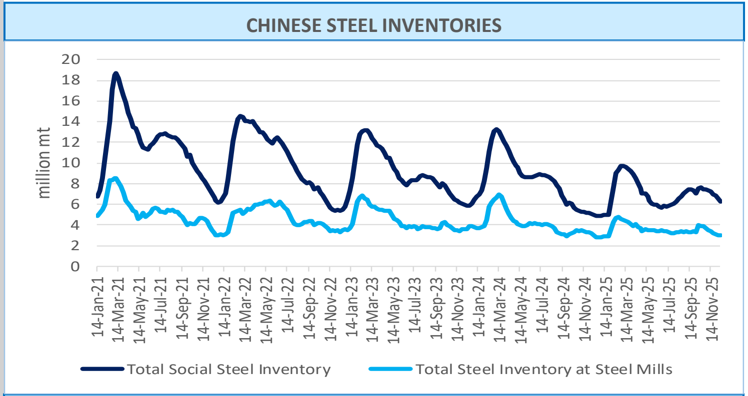
SMM Tracking of Steel Mill P&L - Rebar and Hot-rolled Coil (RMB/tonne)

Category	Price	Change (WoW)	Note
MMi (Fe 62%), USD/mt exluding tax	**105.13**	-2.12	Mmi CFR Equivalent index for 1st Feb
Coke	**1,770**	**0**	2nd grade met coke, Tangshan, incl. tax
Steel Scrap	**2,360**	-30	steel scrap (6mm) in Zhangjiagang, exl. tax
Billet Cost	**2,602**	-27	Q234, incl. tax
Rebar cost - Blast furnace	**3,167**	-31	calculated based on theoretical weight, incl. tax
Rebar profit - Blast furnace	**3**	-9	based on Shanghai prices, incl. tax
Hot-rolled coil cost - Blast furnace	**3,251**	-31	based on actual weight, incl. tax
Hot-rolled coil proft - Blast furnace	**-1**	-29	based on Shanghai prices, incl. tax

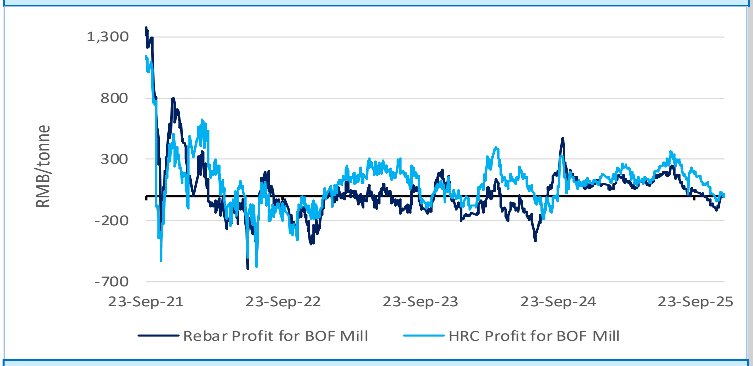
Note: 1. Costs in the table are caluclated based on todays market prices and facout our management, sales, financial and depreciations fe

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

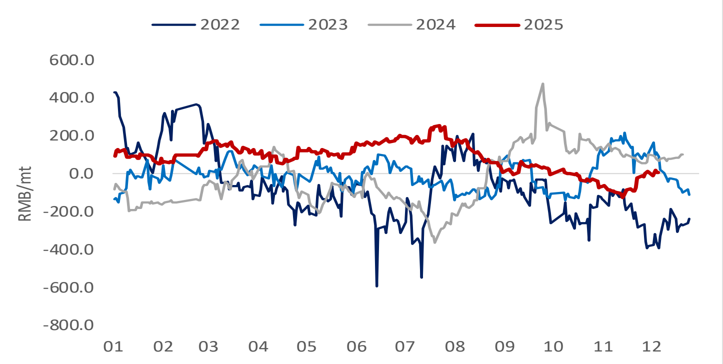
CHINESE STEEL INVENTORIES



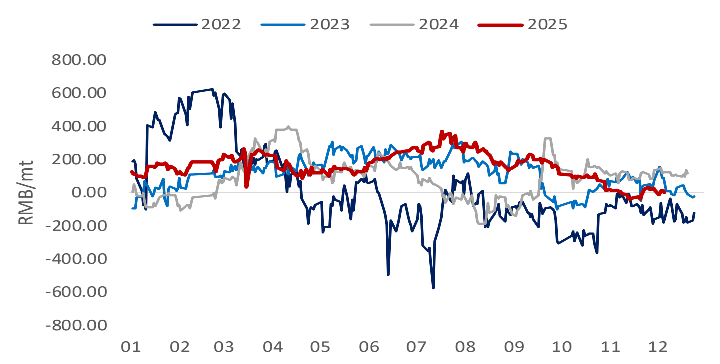
CHINESE STEEL MILL PROFITABILITY



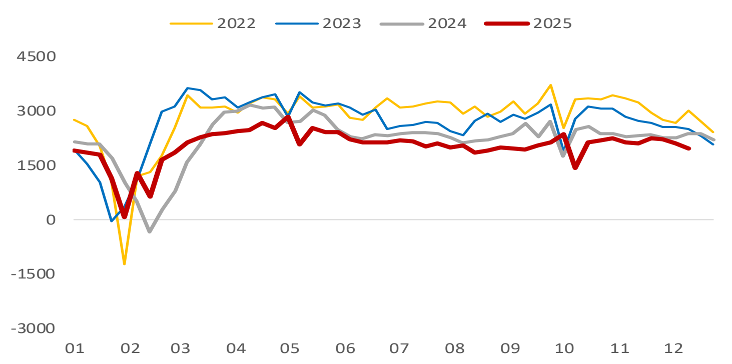
CHINESE STEEL MILL PROFITABILITY—Rebar



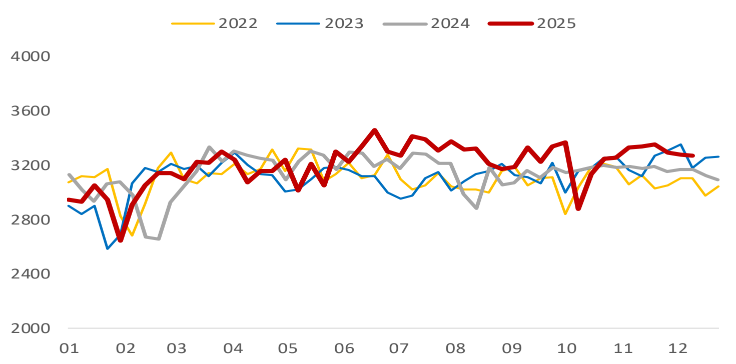
CHINESE STEEL MILL PROFITABILITY—Hot-rolled Coil



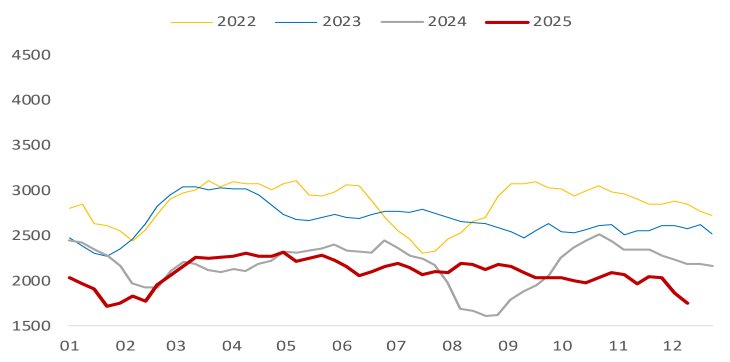
CHINESE STEEL CONSUMPTION—Rebar



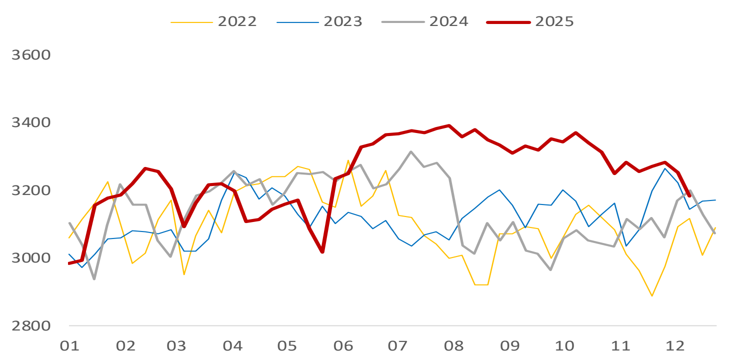
CHINESE STEEL CONSUMPTION—Hot-rolled Coil



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.

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 17th, 2025	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 17th, 2025	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%	4.40%	0.090%	8.00%
MAC Fines	60.80%	2.35%	4.70%	0.080%	7.80%
Jimblebar Blended Fines	60.50%	3.00%	4.50%	0.120%	8.00%
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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