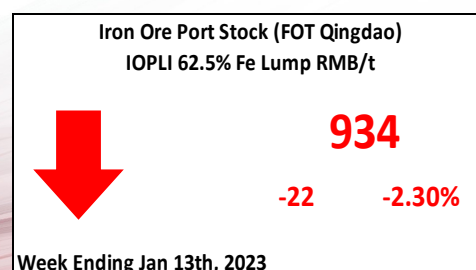
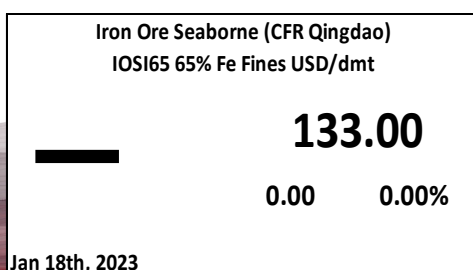
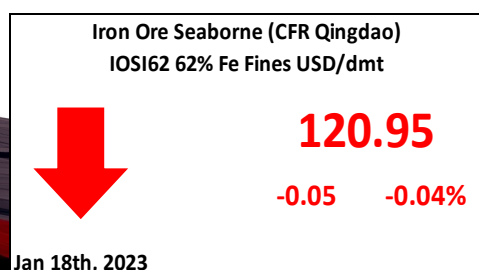
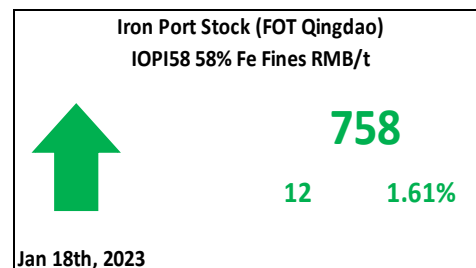
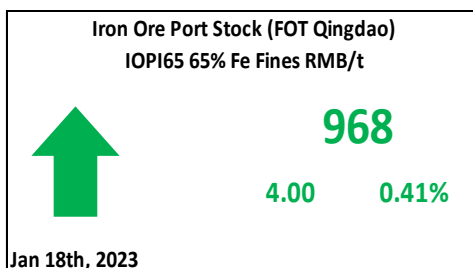
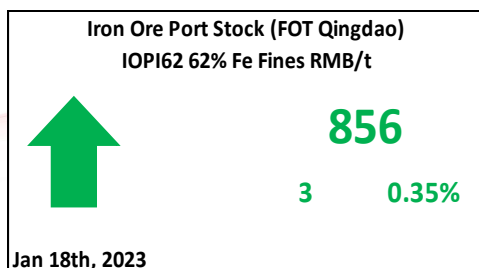


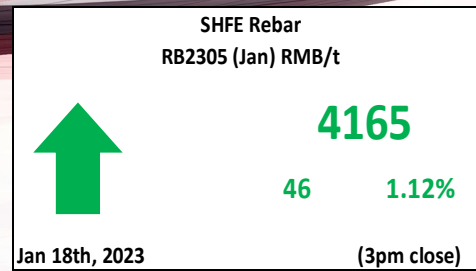
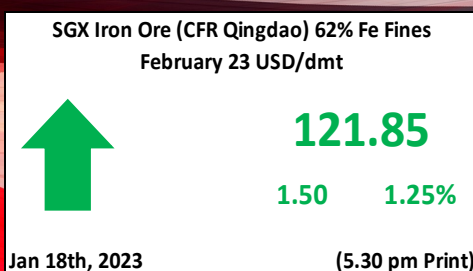
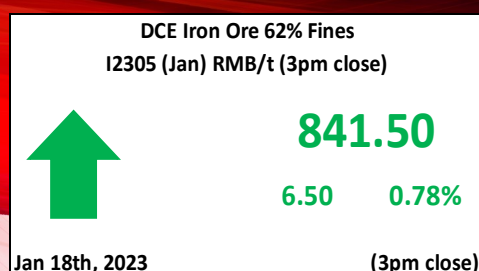


# MMi Dashboard

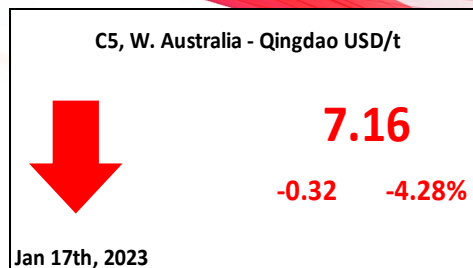
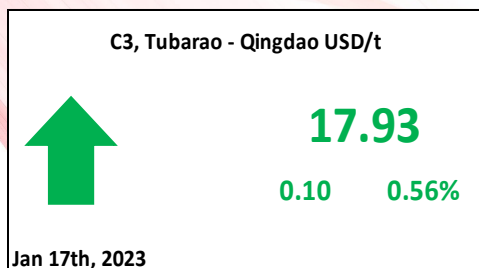
## Iron Ore Price Indices



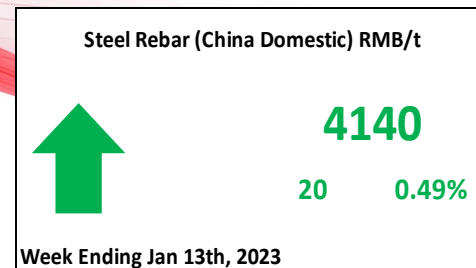
## Exchange Traded Contracts



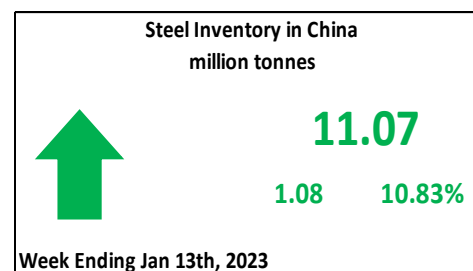
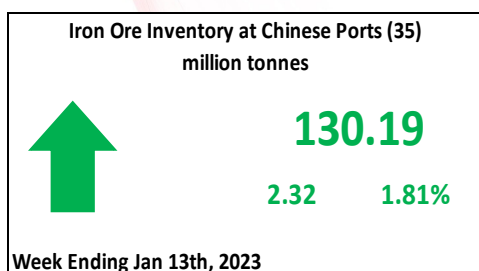
## Freight Rates



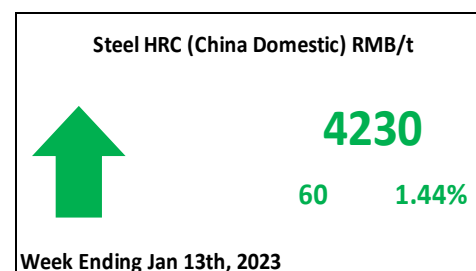
## Steel Price



## Inventory Levels

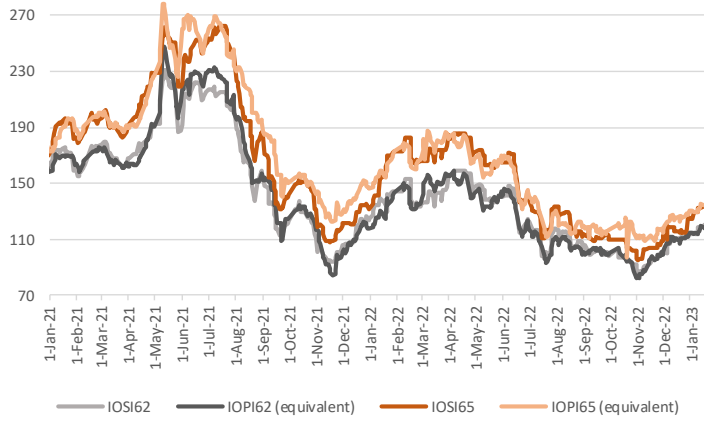


## Steel Price





## IRON ORE INDEX COMPARISONS (USD/DMT)



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



## IRON ORE BRAND SPOT PRICE ASSESSMENTS

Jan 18th, 2023				Jan 18th, 2023			
PORT STOCK INDEX (RMB/WT)				SEABORNE INDEX (USD/DMT)			
	Price	Change	Diff to IOPI62		Price	Change	Diff to IOSI62
Roy Hill	799	3	-57	Roy Hill	116.45	-0.05	-4.50
SIMEC Fines	728	3	-128	SIMEC Fines	112.95	-0.05	-8.00
PB Fines	824	3	-32	PB Fines	117.20	-0.05	-3.75
Newman Fines	825	3	-31	Newman Fines	120.10	-0.05	-0.85
MAC Fines	806	3	-50	MAC Fines	117.20	-0.05	-3.75
Jimblebar Blended Fines	721	3	-135	Jimblebar Blended Fines	109.60	-0.05	-11.35
Carajas Fines	1036	3	180	Carajas Fines	150.50	-0.05	29.55
Brazilian SSF	820	3	-36	Brazilian SSF	124.70	-0.05	3.75
Brazilian Blend Fines	838	3	-18	Brazilian Blend Fines	126.35	-0.05	5.40
RTX Fines	739	3	-117	RTX Fines	110.85	-0.05	-10.10
West Pilbara Fines	767	3	-89	West Pilbara Fines	115.20	-0.05	-5.75

Jan 18th, 2023			
PORT STOCK INDEX (RMB/WT)			
	Price	Change	Diff to IOPI58
SSF	758	12	0
FMG Blended Fines	767	12	9
Robe River	768	12	10
Western Fines	771	12	13
Atlas Fines	765	12	7
Yandi	751	12	-7

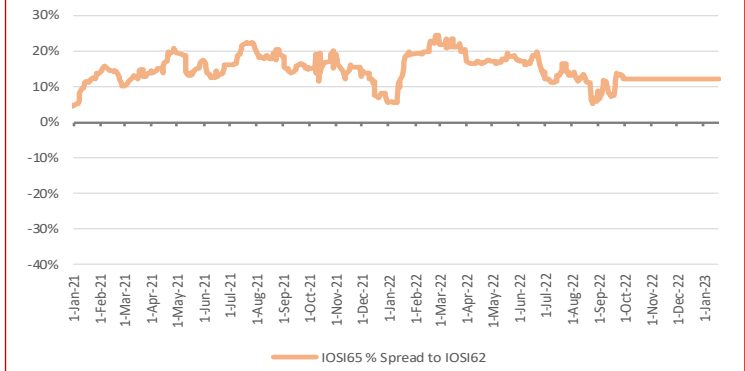
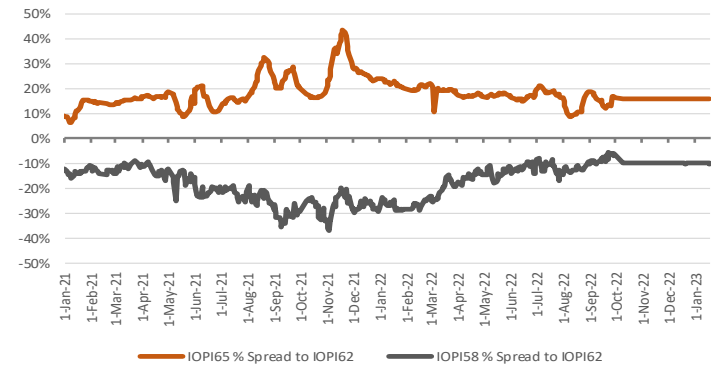
## IRON ORE INDEX NORMALISATION DIFFERENTIALS

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%	10.00	-5.00	1% Fe	High Grade Fe 60 - 63%	1.50	0.50
	High Grade Fe 63 - 64%	32.00	0.00		High Grade Fe 63 - 64%	2.00	0.50
	High Grade Fe 64 - 65%	32.00	0.00		High Grade Fe 64 - 65%	2.00	0.50
	High Grade Fe 65 - 65.5%	32.00	0.00		High Grade Fe 65 - 65.5%	2.00	0.50
1% Alumina	Low Grade Fe	31.00	0.00	1% Alumina	High Fe Grade Al <2.25%	1.75	0.00
	High Fe Grade Al <2.25%	117.00	-5.00		High Fe Grade Al 2.25-4%	0.50	0.00
	High Fe Grade Al 2.25-4%	10.00	-5.00				
	Low Fe Grade Al <2.25%	21.00	5.00				
1% Silica	Low Fe Grade Al 2.25-4%	45.00	-2.00	1% Silica	High Fe Grade Si <4%	2.00	0.50
	High Fe Grade Si <4%	35.00	-3.00		High Fe Grade Si 4 - 6.5%	1.50	0.25
0.01% Phosphorus	High Fe Grade Si <4%	35.00	-3.00	0.01% Phosphorus	High Fe Grade Si <4%	2.00	0.50
	High Fe Grade Si 4-6.5%	44.00	0.00		High Fe Grade Si 4 - 6.5%	1.50	0.25
	Low Fe Grade	30.00	-1.00		0.01%	High Fe Grade 0.09%<P<0.115%	2.50
	High Fe Grade 0.09%<P<0.115%	11.00	-1.00		High Fe Grade 0.115%<P<0.15%	5.00	0.00
	High Fe Grade 0.115%<P<0.15%	11.00	-1.00		Low Fe Grade 0.09<P<0.1%	5.00	0.00
	Low Fe Grade 0.09<P<0.1%	5.00	0.00				

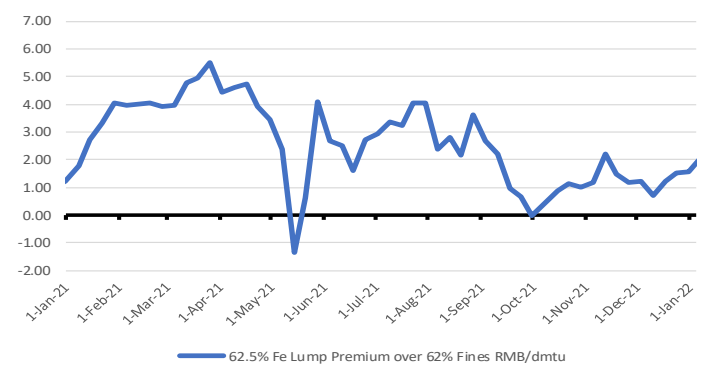
## Port Stock Price Differentials to Qingdao Port for PB Fines (RMB/wet tonne)

Port	Value	Change	Port	Value	Change	Port	Value	Change	Port	Value	Change
Bayuquan	-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	-30.00	0.00	Lianyungang	0.00	0.00	Shekou	0.00	0.00
Caofeidian	-5.00	0.00	Jingtang	-20.00	0.00	Majishan	0.00	0.00	Taichang	-30.00	0.00
Dalian	0.00	0.00	Lanqiao	0.00	0.00	Qingdao	0.00	0.00	Tianjin	-10.00	0.00

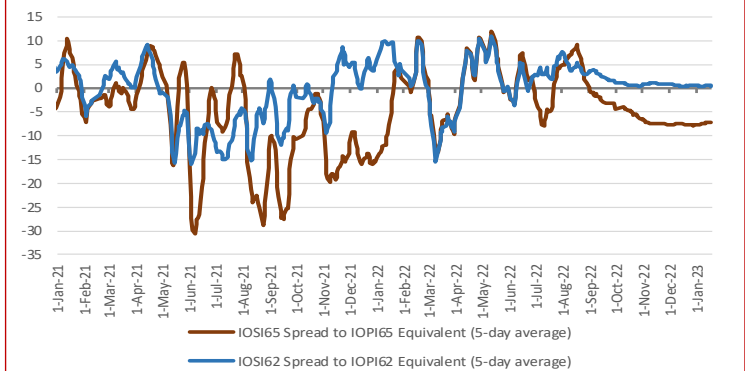
IRON ORE INDEX PREMIUMS/DISCOUNTS



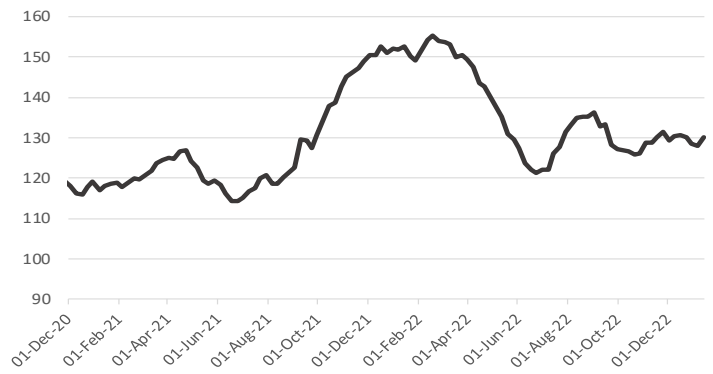
WEEKLY IRON ORE PORT STOCK LUMP PREMIUM (RMB/DMTU)



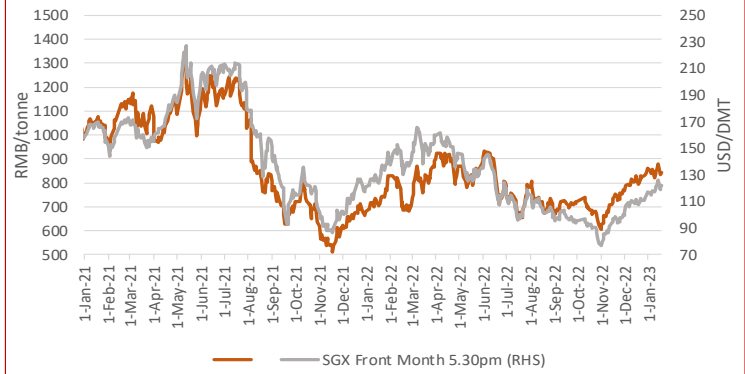
IRON ORE SEABORNE TO PORT STOCK PRICE SPREADS (USD/DMT)



TOTAL IRON ORE INVENTORIES AT CHINA PORTS (MILLION TONNES)



FUTURE TRADING—FRONT MONTH CLOSING PRICE



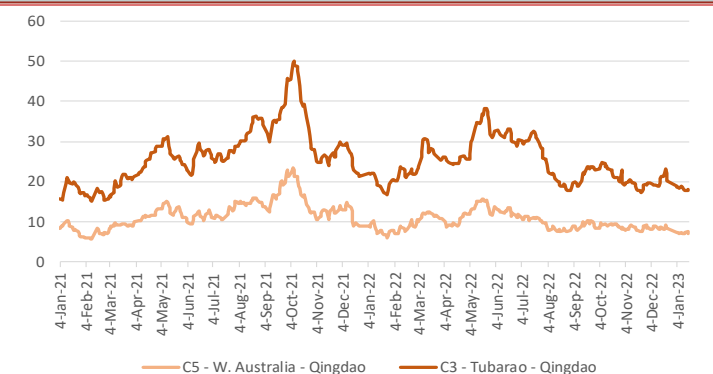
IRON ORE PORT INVENTORIES (MILLION TONNES)

Week Ending Jan 13th, 2023				
Province	This week	Change %	Low <sup>2</sup>	High <sup>2</sup>
Jingtang	11.91	-2.93%	9.84	19.20
Qingdao	25.05	-1.92%	9.41	26.24
Caofeidian	11.67	5.14%	9.05	16.29
Tianjin	10.73	2.78%	7.14	12.97
Rizhao	17.83	4.03%	9.44	19.26
<b>Total (35 Ports)</b>	<b>130.19</b>	<b>1.81%</b>	<b>98.80</b>	<b>155.39</b>

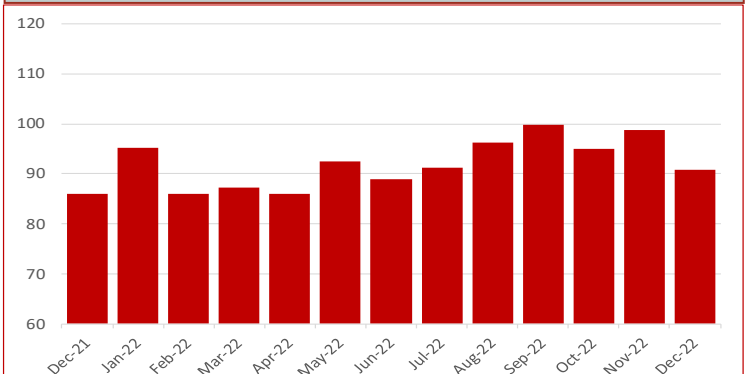
IRON ORE FUTURES CONTRACTS

Closing Date	DCE (RMB/WMT)			SGX (USD/DMT)		
	Jan 18th, 3pm close			Jan 18th, 5:30pm		
Contract	12305	Change	Change %	Feb. 23	Change	Change %
Closing Price	841.50	6.50	0.78%	121.85	1.50	1.25%
Vol traded ('000 lots)	62.20	7.90	14.55%	4.42	-0.85	-16.11%
Open positions ('000 lots)	83.30	-2.16	-2.53%	31.51	2.49	8.57%
Day Low	831.5	5.00	0.60%	120.05	2.05	1.74%
Day High	848.5	7.00	0.83%	122.75	1.50	1.24%

DRY BULK FREIGHT RATES (USD/MT)



TOTAL CHINA IRON ORE IMPORT VOLUMES (MILLION TONNES)



STEEL SPOT MARKET PRICES—CHINA

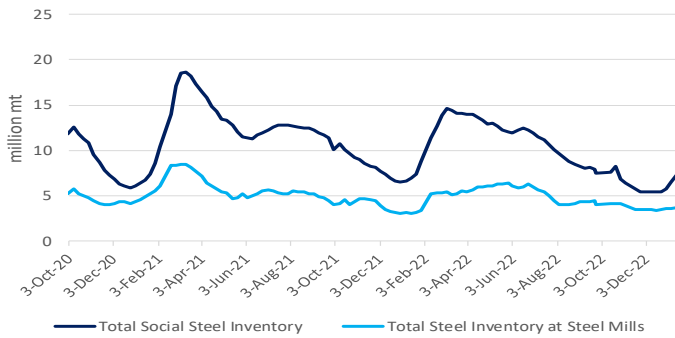
Product	2023/1/13	Change	Change %
ReBar HRB400 φ18mm	4,140	20	0.49%
Wirerod Q300 φ6.5mm	4,400	20	0.46%
HRC Q235/SS400 5.5mm*1500*C	4,230	60	1.44%
CRC SPCC/ST12 1.0mm*1250*2500	4,570	20	0.44%
Medium & Heavy Plate Q235B 20mm	4,210	60	1.45%
GI ST02Z 1.0mm*1000*C	4,780	0	0.00%
Colour Coated Plate	7,500	-30	-0.40%

CHINESE STEEL MILL PROFITABILITY

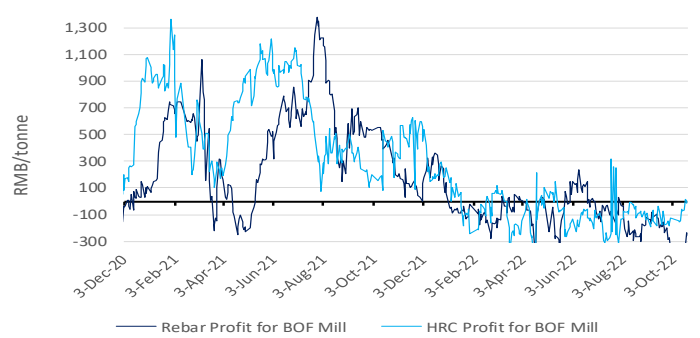
SMM Tracking of Steel Mill P&L - Rebar and Hot-rolled Coil (RMB/tonne)			
Category	Price	Change (WoW)	Note
MMi (Fe 62%), USD/mt excluding tax	118.90	5	Mmi CFR Equivalent index for 1st Feb
Coke	2,960	-110	2nd grade met coke, Tangshan, incl. tax
Steel Scrap	3,120	0	steel scrap (6mm) in Zhangjiagang, ext. tax
Billet Cost	3,756	9	Q234, incl. tax
Rebar cost - Blast furnace	4,278	10	calculated based on theoretical weight, incl. tax
Rebar profit - Blast furnace	-78	100	based on Shanghai prices, incl. tax
Hot-rolled coil cost - Blast furnace	4,233	7	based on actual weight, incl. tax
Hot-rolled coil profit - Blast furnace	-13	43	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

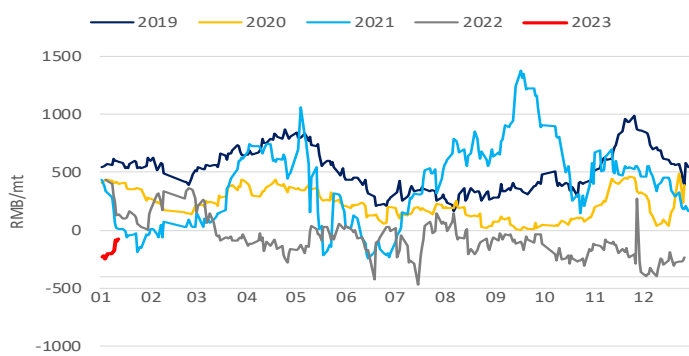
CHINESE STEEL INVENTORIES



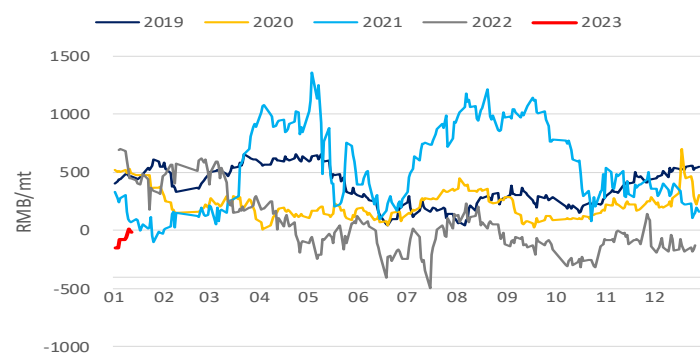
CHINESE STEEL MILL PROFITABILITY



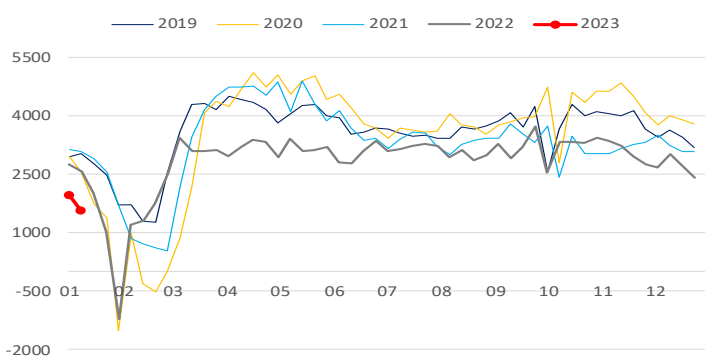
CHINESE STEEL MILL PROFITABILITY—Rebar



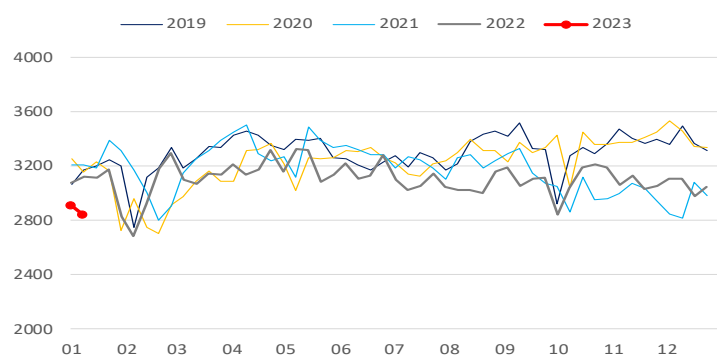
CHINESE STEEL MILL PROFITABILITY—Hot-rolled Coil



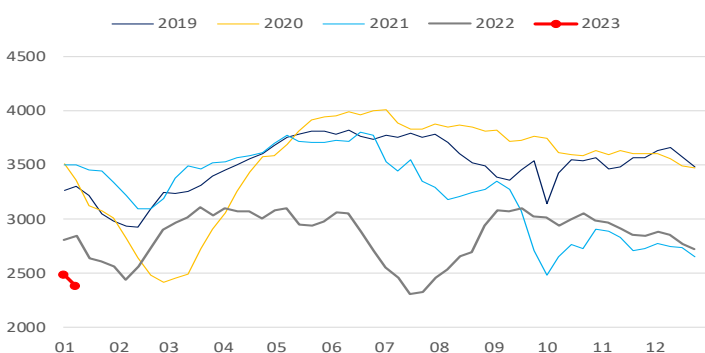
CHINESE STEEL CONSUMPTION—Rebar



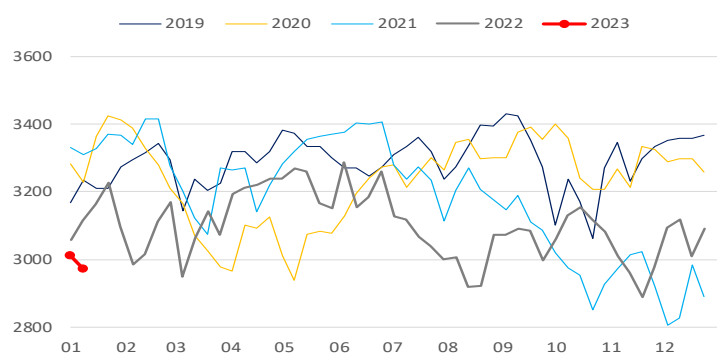
CHINESE STEEL CONSUMPTION—Hot-rolled Coil



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					
Jan 18th, 2023	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%

Jan 18th, 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%

## 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		

## CONTACT US

MMi Singapore Office Details: Level 28, Manulife Tower, 8 Cross Street Singapore. Tel: + 65 6850 7629 E: [prices@mmiprices.com](mailto:prices@mmiprices.com)  
 SMM Singapore Office Details: Level 28, Manulife Tower, 8 Cross Street Singapore. Tel: + 65 6850 7630 E: [service.en@smm.cn](mailto:service.en@smm.cn)  
 SMM Shanghai Office Details: 9th FL, Building 9, Lujiazui Software Park, No.20, Lane 91, Pudong, Shanghai Tel: +86 021 5155 0306 E: [service.en@smm.cn](mailto:service.en@smm.cn)

Visit [www.mmiprices.com](http://www.mmiprices.com) for full index price histories and archive of daily reports

This information has been prepared by Metals Market Index ("MMI"). Use of the information presented here is at your sole risk, and any content, material and/or data presented or otherwise obtained through your use of the information in this document is at your own discretion and risk and you will be solely responsible for any damage to you personally or your company or organisation or business associates whatsoever which in anyway results from the use, reliance or application of such content material and/or information. Certain data has been obtained from various sources and any copyright existing in such data shall remain the property of the source. Except for the foregoing, MMi retains all copyright within this document. The copying or redistribution of any part of this document without the express written authority of MMi is forbidden.