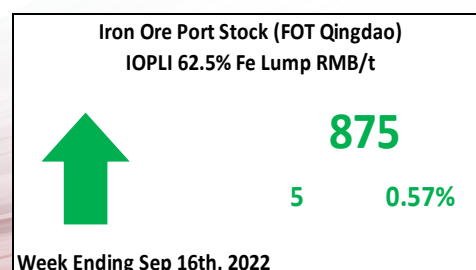
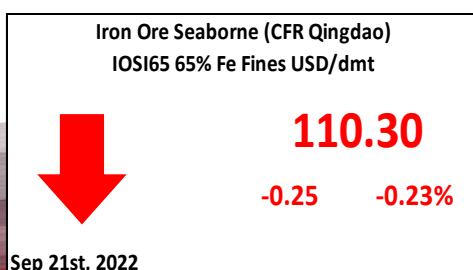
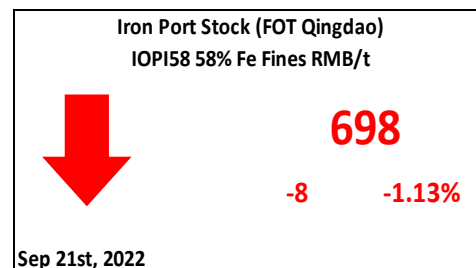
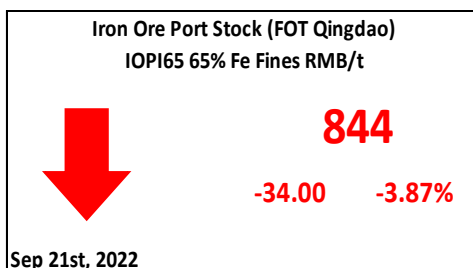
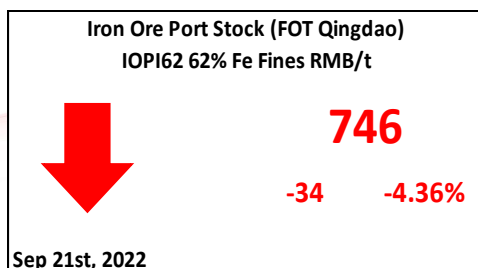


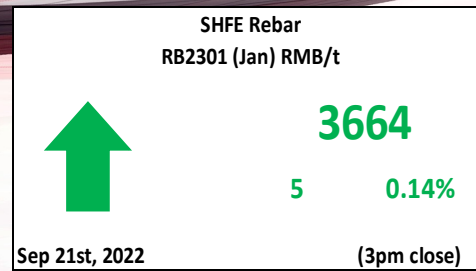
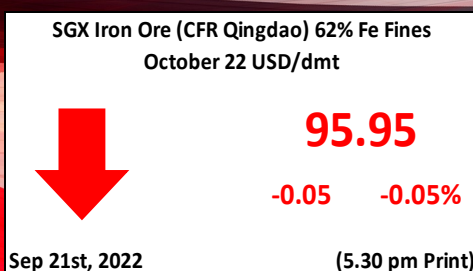
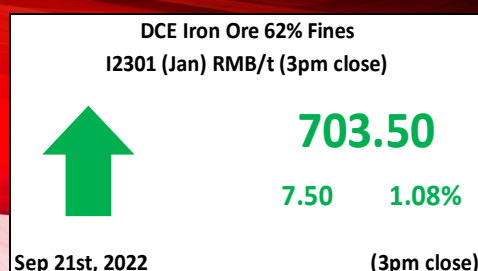


## MMi Dashboard

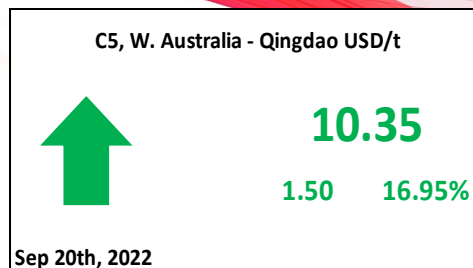
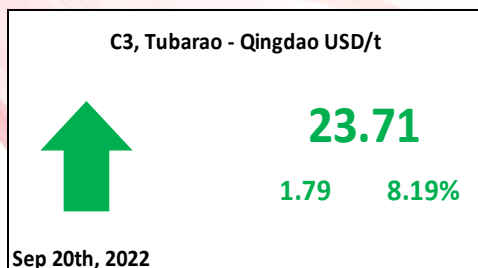
## Iron Ore Price Indices



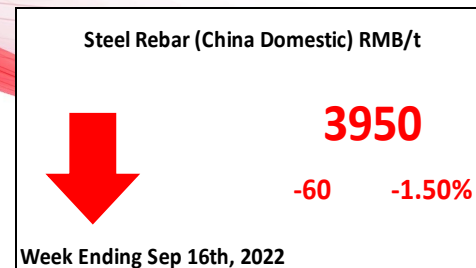
## Exchange Traded Contracts



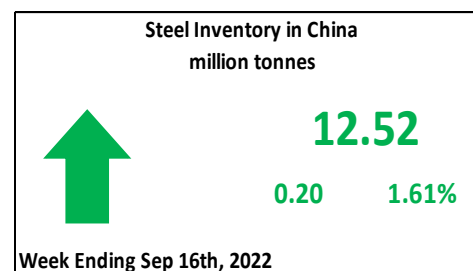
## Freight Rates



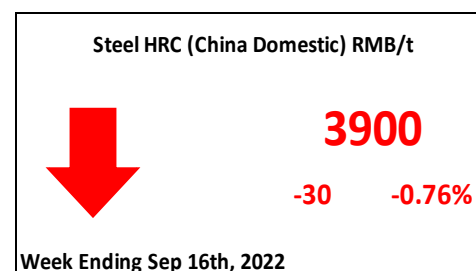
## Steel Price



## Inventory Levels



## Steel Price



## IRON ORE PORT STOCK INDEX (IOPI)

| Sep 21st, 2022 |              | 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 | 746                                       | -34    | -4.4%    | 772 | 902  | 587              | 1083              | 99.32   | -4.81  | -4.6%    | 104.74 | 128.05 | 84.25            | 159.06            |
| IOPI58         | 58% Fe Fines | 698                                       | -8     | -1.1%    | 687 | 752  | 454              | 907               | 93.70   | -1.21  | -1.3%    | 93.73  | 107.04 | 64.78            | 134.15            |
| IOPI65         | 65% Fe Fines | 844                                       | -34    | -3.9%    | 877 | 1062 | 811              | 1265              | 112.88  | -4.82  | -4.1%    | 119.39 | 151.56 | 111.38           | 187.25            |

## IRON ORE SEABORNE INDEX (IOSI)

| Sep 21st, 2022 |              | CFR Qingdao, USD/dry tonne |        |          |        |        |                  |                   | MARKET COMMENTARY  |  |  |  |  |  |  |  |
|----------------|--------------|----------------------------|--------|----------|--------|--------|------------------|-------------------|--|--|--|--|--|--|--|--|
| Index          | Fe Content   | Price                      | Change | Change % | MTD    | YTD    | Low <sup>2</sup> | High <sup>2</sup> | DCE iron ore futures declined by 0.92% today, the main contract closed 703.5. Some traders were general attitude to sell. More steel mills tended to wait and see, and purchasing enthusiasm is not high. Total transactions returned to positive PBF at Shandong port dealt 735-745 yuan/mt, decreased 5-10 yuan/mt than yesterday. PBF at Tangshan port dealt 735-738 yuan/mt, decrease 15-20 yuan/mt. According to the SMM survey, on September 21, the operating rate of the blast furnace calculated by SMM was 93.61%, with a decrease of 0.74% on a weekly basis; According to the estimation of the sample steel plants, the average daily hot metal output of the national steel plants is 2.6627 million tons, a decrease of 24800 tons on a weekly basis. This week, the maintenance of blast furnaces in steel plants increased, and the recovery plan of some steel plants was delayed due to the epidemic affecting the transportation of finished products. Moreover, the current profits of steel plants are poor, the enthusiasm for production is general, and the expectation of demand increase in peak season has not been reflected. It is expected that the short-term iron ore price will continue to operate in a weak and volatile manner. |  |  |  |  |  |  |  |
| IOSI62         | 62% Fe Fines | 99.05                      | -1.39  | -1.38%   | 107.25 | 131.09 | 93.75            | 159.45            |  |  |  |  |  |  |  |  |
| IOSI65         | 65% Fe Fines | 110.30                     | -0.25  | -0.23%   | 117.82 | 152.23 | 102.05           | 185.82            |  |  |  |  |  |  |  |  |

## IRON ORE PORT LUMP INDEX (IOPLI)

| Week Ending Sep 16th, 2022 |               | 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 | 875                                       | 5     | 0.6%     | 889 | 1111 | 730              | 1405              | 113.18  | 0.65  | 0.58%    | 116.18 | 152.24 | 101.00           | 199.00            |

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

| Week Ending Sep 16th, 2022 |         |                    |       | 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   | 909                                    | 1.0%     | 779              | 1645              | 131.52                                 | 0.98%    | 110.31           | 255.69            |
| Hebei                      | Qian'an | 65% Fe Concentrate | Dry   | 905                                    | 2.3%     | 780              | 1630              | 130.95                                 | 2.24%    | 110.51           | 251.57            |
| Liaoning                   | Anshan  | 65% Fe Concentrate | Wet   | 710                                    | 0.0%     | 620              | 1310              | 102.73                                 | -0.02%   | 87.40            | 202.32            |
| Shandong                   | Zibo    | 65% Fe Concentrate | Dry   | 932                                    | 1.0%     | 800              | 1752              | 134.85                                 | 0.96%    | 122.55           | 272.32            |

Week Ending Sep 16th, 2022

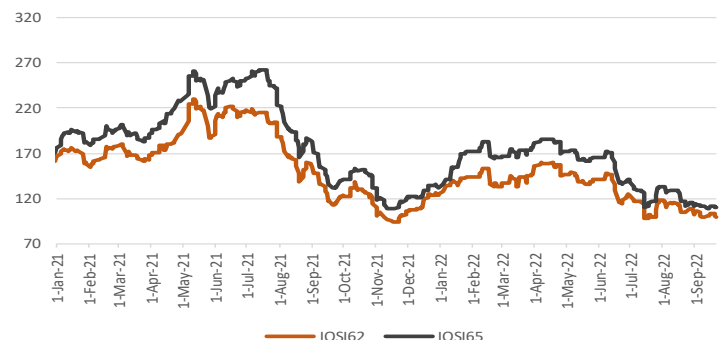
| This week                                      | Change % | Low <sup>2</sup> | High <sup>2</sup> |         |
|--|----------|------------------|-------------------|---------|
| China Mines Concentrate Composite Index RMB/WT | 835.90   | 1.17%            | 706.36            | 1511.22 |

<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 = 6.91125

## 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 21st, 2022 |              | 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 | 981                                       | 934  | 770  | 781    | 772 | 771 | 902  | 136.86   | 130.13 | 106.01 | 106.64 | 104.74 | 105.20 | 128.05 |
| IOPI58         | 58% Fe Fines | 841                                       | 823  | 682  | 685    | 687 | 685 | 752  | 118.11   | 115.45 | 94.43  | 94.05  | 93.73  | 93.98  | 107.04 |
| IOPI65         | 65% Fe Fines | 1152                                      | 1086 | 915  | 878    | 877 | 890 | 1062 | 161.44   | 151.89 | 126.73 | 120.31 | 119.39 | 122.05 | 151.56 |

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

| Sep 21st, 2022 |              | CFR Qingdao, USD/dry tonne |        |        |        |        |        |        | FREIGHT RATES - DRY BULK US\$/wet tonne |             |        |          |                  |                   |       |
|----------------|--------------|----------------------------|--------|--------|--------|--------|--------|--------|---|-------------|--------|----------|------------------|-------------------|-------|
| Index          | Fe Content   | May                        | June   | July   | August | MTD    | QTD    | YTD    | Route                                   | Designation | Change | Change % | Low <sup>2</sup> | High <sup>2</sup> |       |
| IOSI62         | 62% Fe Fines | 141.17                     | 131.96 | 110.07 | 110.64 | 107.25 | 108.26 | 131.09 | W. Australia - Qingdao                  | C5          | 10.35  | 1.50     | 16.95%           | 3.57              | 16.77 |
| IOSI65         | 65% Fe Fines | 166.30                     | 154.17 | 124.60 | 112.53 | 117.82 | 120.24 | 152.23 | Tubarao - Qingdao                       | C3          | 23.71  | 1.79     | 8.19%            | 6.70              | 36.40 |

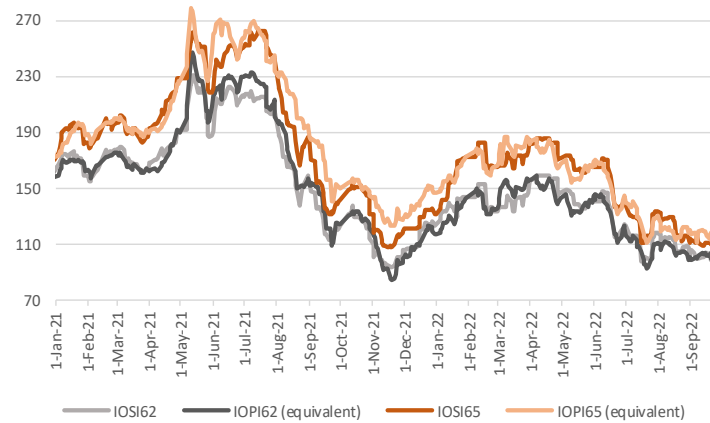
## IRON ORE PORT LUMP INDEX MONTHLY, QUARTERLY AND YEAR-TO-DATE AVERAGES

| Week Ending Sep 16th, 2022 |               | 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 | 1232                                      | 1189 | 906  | 900    | 889 | 896 | 1111 | 164.53  | 159.78 | 120.36 | 118.50 | 116.18 | 117.92 | 152.24 |

## IRON ORE INDEX PREMIUMS/DISCOUNTS

| Sep 21st, 2022 |              | PORT STOCK INDEX (RMB/WT) |                    | Sep 21st, 2022 |              | 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 | -48                       | -6.43%             | IOSI65         | 65% Fe Fines | 11.25                    | 11.36%             |
| IOPI65         | 65% Fe Fines | 98                        | 13.14%             |                |              |                          |                    |

## IRON ORE INDEX COMPARISONS (USD/DMT)



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



## IRON ORE BRAND SPOT PRICE ASSESSMENTS

| Sep 21st, 2022          |       |        |                | PORT STOCK INDEX (RMB/WT) |       |        |                       | Sep 21st, 2022          |       |        |                       | SEABORNE INDEX (USD/DMT) |       |        |                |
|-------------------------|-------|--------|----------------|---------------------------|-------|--------|-----------------------|-------------------------|-------|--------|-----------------------|--------------------------|-------|--------|----------------|
|                         | Price | Change | Diff to IOPI62 |                           | Price | Change | Diff to IOPI58        |                         | Price | Change | Diff to IOSI62        |                          | Price | Change | Diff to IOSI62 |
| Roy Hill                | 689   | -34    | -57            | SSF                       | 698   | -8     | 0                     | Roy Hill                | 94.55 | -1.40  | -4.50                 | Roy Hill                 | 94.55 | -1.40  | -4.50          |
| SIMEC Fines             | 616   | -34    | -130           | FMG Blended Fines         | 707   | -8     | 9                     | SIMEC Fines             | 91.05 | -1.40  | -8.00                 | SIMEC Fines              | 91.05 | -1.40  | -8.00          |
| PB Fines                | 715   | -34    | -31            | Robe River                | 707   | -8     | 9                     | PB Fines                | 95.30 | -1.40  | -3.75                 | PB Fines                 | 95.30 | -1.40  | -3.75          |
| Newman Fines            | 714   | -34    | -32            | Western Fines             | 710   | -8     | 12                    | Newman Fines            | 98.20 | -1.40  | -0.85                 | Newman Fines             | 98.20 | -1.40  | -0.85          |
| MAC Fines               | 696   | -34    | -50            | Atlas Fines               | 704   | -8     | 6                     | MAC Fines               | 95.30 | -1.40  | -3.75                 | MAC Fines                | 95.30 | -1.40  | -3.75          |
| Jimblebar Blended Fines | 610   | -34    | -136           | Yandi                     | 691   | -8     | -7                    | Jimblebar Blended Fines | 87.70 | -1.40  | -11.35                | Jimblebar Blended Fines  | 87.70 | -1.40  | -11.35         |
| Carajas Fines           | 926   | -34    | 180            |                           |       |        | Carajas Fines         | 128.60                  | -1.40 | 29.55  | Carajas Fines         | 128.60                   | -1.40 | 29.55  |                |
| Brazilian SSF           | 707   | -35    | -39            |                           |       |        | Brazilian SSF         | 102.80                  | -1.40 | 3.75   | Brazilian SSF         | 102.80                   | -1.40 | 3.75   |                |
| Brazilian Blend Fines   | 729   | -34    | -17            |                           |       |        | Brazilian Blend Fines | 104.45                  | -1.35 | 5.40   | Brazilian Blend Fines | 104.45                   | -1.35 | 5.40   |                |
| RTX Fines               | 628   | -35    | -118           |                           |       |        | RTX Fines             | 88.95                   | -1.35 | -10.10 | RTX Fines             | 88.95                    | -1.35 | -10.10 |                |
| West Pilbara Fines      | 658   | -34    | -88            |                           |       |        | West Pilbara Fines    | 93.30                   | -1.40 | -5.75  | West Pilbara Fines    | 93.30                    | -1.40 | -5.75  |                |

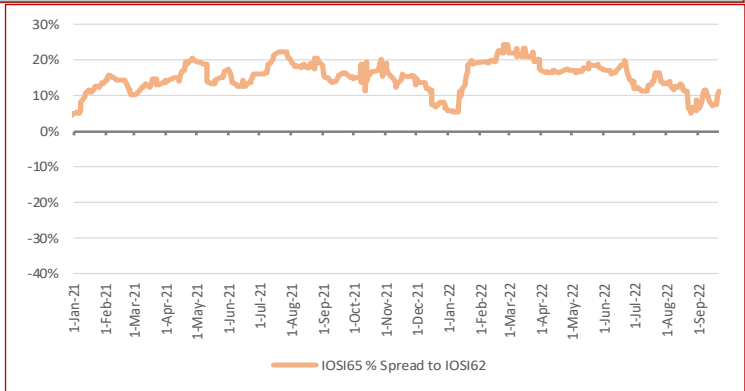
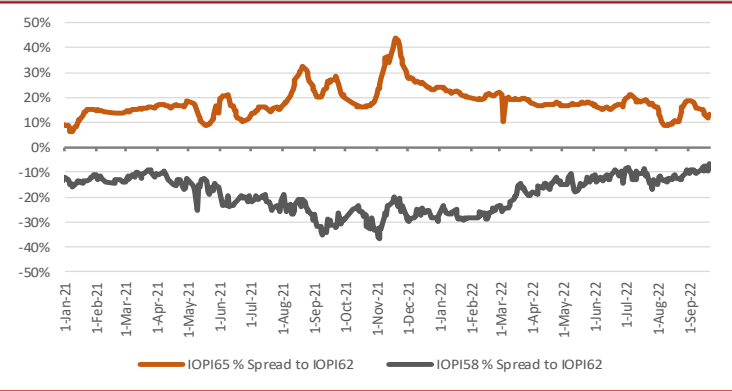
## IRON ORE INDEX NORMALISATION DIFFERENTIALS

| 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%       | 4.00  | 0.00   | 1% Fe  | High Grade Fe 60 - 63%       | 4.00  | 0.00   |
|  | High Grade Fe 63 - 64%       | 38.00 | 1.00   |  | High Grade Fe 63 - 64%       | 0.75  | 0.25   |
|  | High Grade Fe 64 - 65%       | 38.00 | 1.00   |  | High Grade Fe 64 - 65%       | 0.75  | 0.25   |
|  | High Grade Fe 65 - 65.5%     | 38.00 | 1.00   |  | High Grade Fe 65 - 65.5%     | 0.75  | 0.25   |
| 1% Alumina   | Low Grade Fe                 | 11.00 | 0.00   | 1% Alumina   | High Fe Grade Al <2.25%      | 0.50  | 0.00   |
|  | High Fe Grade Al <2.25%      | 7.00  | -1.00  |  | High Fe Grade Al 2.25-4%     | 2.50  | 0.00   |
|  | High Fe Grade Al 2.25-4%     | 5.00  | 0.00   |  |                              |       |        |
|  | Low Fe Grade Al <2.25%       | 24.00 | 0.00   |  |                              |       |        |
| 1% Silica  | Low Fe Grade Al 2.25-4%      | 10.00 | 0.00   | 1% Silica  | High Fe Grade Si <4%         | 2.75  | 0.25   |
|  | High Fe Grade Si <4%         | 5.00  | 0.00   |  | High Fe Grade Si 4 - 6.5%    | 2.25  | 0.25   |
| 0.01% Phosphorus                                       | High Fe Grade Si <4%         | 5.00  | 0.00   | 0.01% Phosphorus                                     | High Fe Grade 0.09%<P<0.115% | 1.75  | 0.00   |
|  | High Fe Grade Si 4-6.5%      | 21.00 | 0.00   |  | High Fe Grade 0.115%<P<0.15% | 3.25  | 0.00   |
|  | High Fe Grade 0.09%<P<0.115% | 7.00  | 0.00   |  | Low Fe Grade 0.09%<P<0.1%    | 5.00  | 0.00   |

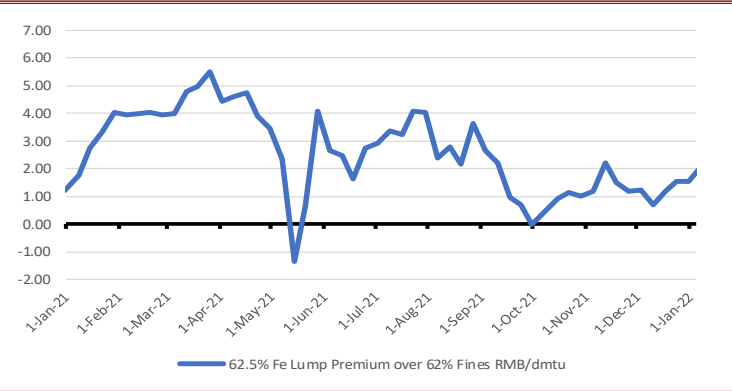
## Port Stock Price Differentials to Qingdao Port for PB Fines (RMB/wet tonne)

| 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 | -10.00  | 0.00   | Jingtang  | -5.00  | 0.00   | Majishan    | 0.00  | 0.00   | Taichang | -40.00 | 0.00   |
| Dalian     | 0.00    | 0.00   | Lanqiao   | 0.00   | 0.00   | Qingdao     | 0.00  | 0.00   | Tianjin  | -20.00 | 0.00   |

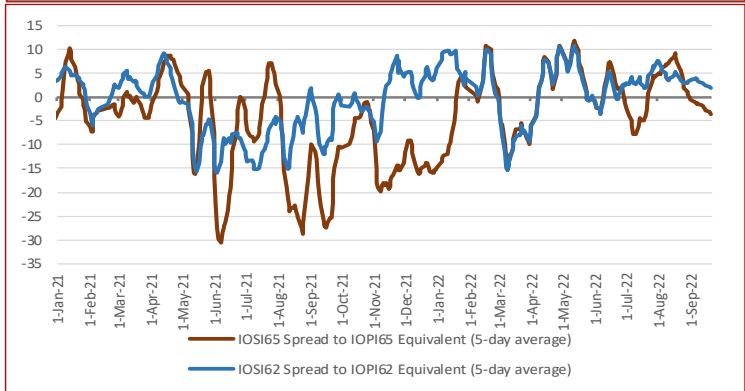
IRON ORE INDEX PREMIUMS/DISCOUNTS



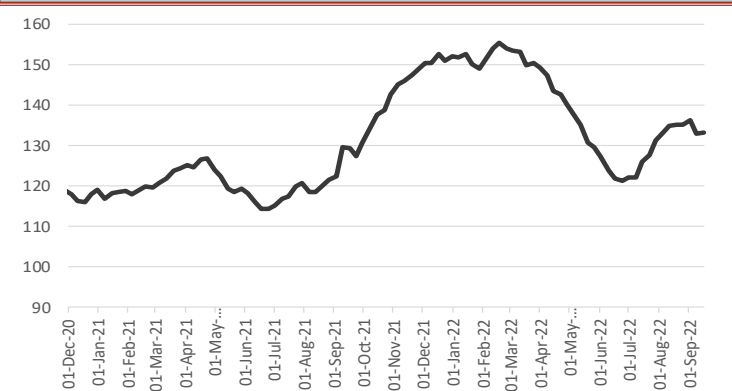
WEEKLY IRON ORE PORT STOCK LUMP PREMIUM (RMB/DMTU)



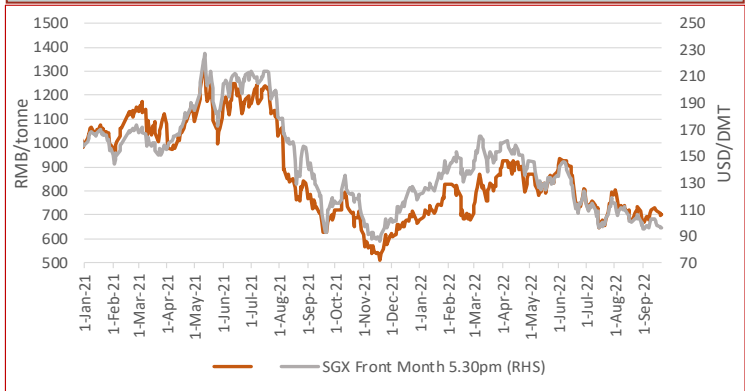
IRON ORE SEABORNE TO PORT STOCK PRICE SPREADS (USD/DMT)



TOTAL IRON ORE INVENTORIES AT CHINA PORTS (MILLION TONNES)



FUTURE TRADING—FRONT MONTH CLOSING PRICE



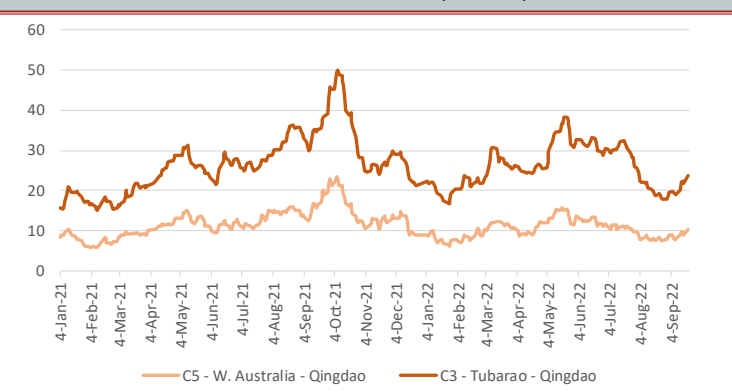
IRON ORE PORT INVENTORIES (MILLION TONNES)

| Week Ending Sep 16th, 2022 |               |              |                  |                   |
|----------------------------|---------------|--------------|------------------|-------------------|
| Province                   | This week     | Change %     | Low <sup>2</sup> | High <sup>2</sup> |
| Jingtang                   | 12.27         | -1.52%       | 9.84             | 19.20             |
| Qingdao                    | 24.95         | 1.63%        | 9.41             | 26.24             |
| Caofeidian                 | 12.50         | 2.46%        | 9.05             | 16.29             |
| Tianjin                    | 10.28         | -2.84%       | 7.14             | 12.97             |
| Rizhao                     | 18.15         | -1.89%       | 9.44             | 19.26             |
| <b>Total (35 Ports)</b>    | <b>133.24</b> | <b>0.27%</b> | <b>98.80</b>     | <b>155.39</b>     |

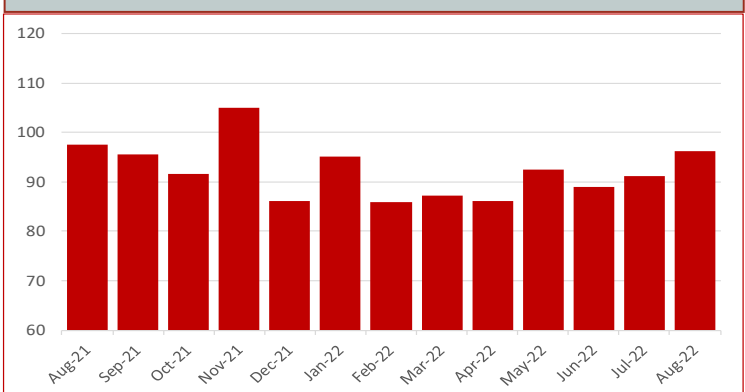
IRON ORE FUTURES CONTRACTS

| Closing Date               | DCE (RMB/WMT)       |        |          | SGX (USD/DMT)    |        |          |
|----------------------------|---------------------|--------|----------|------------------|--------|----------|
|                            | Sep 21st, 3pm close |        |          | Sep 21st, 5:30pm |        |          |
| Contract                   | I2301               | Change | Change % | Oct. 22          | Change | Change % |
| Closing Price              | 703.50              | 7.50   | 1.08%    | 95.95            | -0.05  | -0.05%   |
| Vol traded ('000 lots)     | 82.62               | 3.85   | 4.88%    | 4.19             | 0.92   | 27.91%   |
| Open positions ('000 lots) | 72.29               | -1.99  | -2.67%   | 28.09            | -0.16  | -0.56%   |
| Day Low                    | 686.5               | -9.00  | -1.29%   | 94.05            | -1.90  | -1.98%   |
| Day High                   | 705.5               | -14.50 | -2.01%   | 96.40            | -2.70  | -2.72%   |

DRY BULK FREIGHT RATES (USD/MT)



TOTAL CHINA IRON ORE IMPORT VOLUMES (MILLION TONNES)



STEEL SPOT MARKET PRICES—CHINA

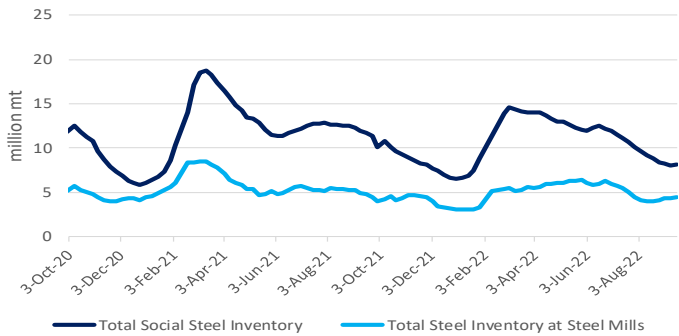
| Steel Spot Market RMB/tonne     |           |        |          |
|---------------------------------|-----------|--------|----------|
| Product                         | 2022/9/16 | Change | Change % |
| ReBar HRB400 φ18mm              | 3,950     | -60    | -1.50%   |
| Wirerod Q300 φ6.5mm             | 4,210     | -70    | -1.64%   |
| HRC Q235/SS400 5.5mm*1500*C     | 3,900     | -30    | -0.76%   |
| CRC SPCC/ST12 1.0mm*1250*2500   | 4,350     | -10    | -0.23%   |
| Medium & Heavy Plate Q235B 20mm | 4,090     | 0      | 0.00%    |
| GI ST02Z 1.0mm*1000*C           | 4,650     | 10     | 0.22%    |
| Colour Coated Plate             | 7,550     | 0      | 0.00%    |

CHINESE STEEL MILL PROFITABILITY

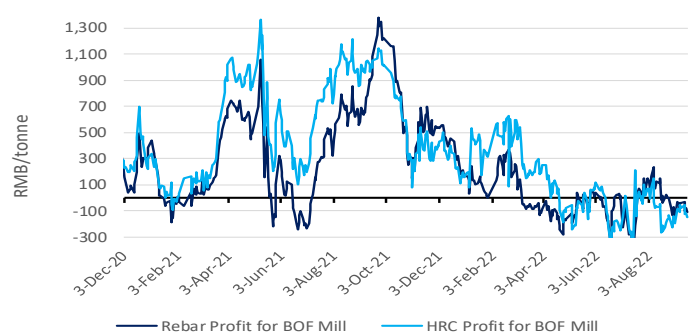
| SMM Tracking of Steel Mill P&L - Rebar and Hot-rolled Coil (RMB/tonne) |        |              |   |
|--|--------|--------------|---|
| Category   | Price  | Change (WoW) | Note  |
| MMi (Fe 62%), USD/mt excluding tax                                     | 103.50 | 4            | Mmi CFR Equivalent index for 1st Feb              |
| Coke   | 2,910  | 0            | 2nd grade met coke, Tangshan, incl. tax           |
| Steel Scrap  | 3,140  | 0            | steel scrap (6mm) in Zhangjiagang, ext. tax       |
| Billet Cost  | 3,565  | 20           | Q234, incl. tax                                   |
| Rebar cost - Blast furnace   | 4,062  | 23           | calculated based on theoretical weight, incl. tax |
| Rebar profit - Blast furnace   | -112   | -73          | based on Shanghai prices, incl. tax               |
| Hot-rolled coil cost - Blast furnace                                   | 4,028  | 22           | based on actual weight, incl. tax                 |
| Hot-rolled coil profit - Blast furnace                                 | -148   | -72          | 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

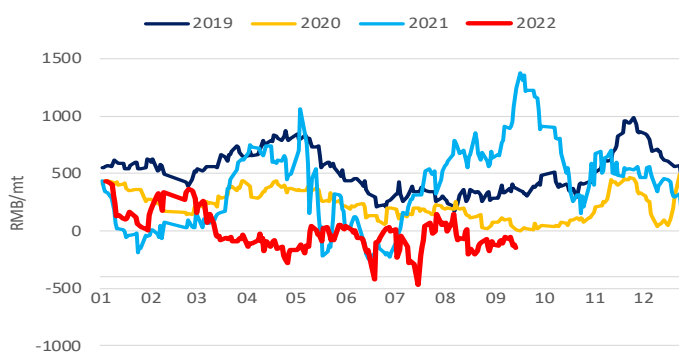
CHINESE STEEL INVENTORIES



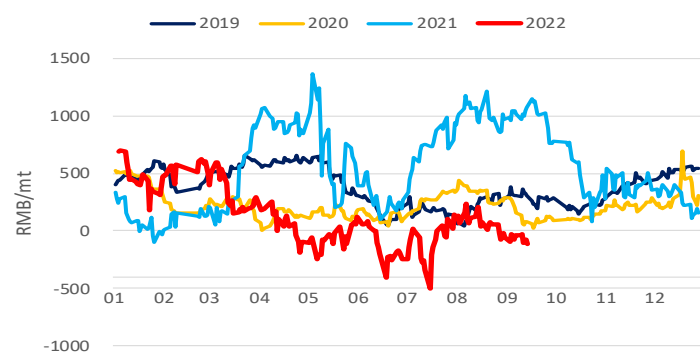
CHINESE STEEL MILL PROFITABILITY



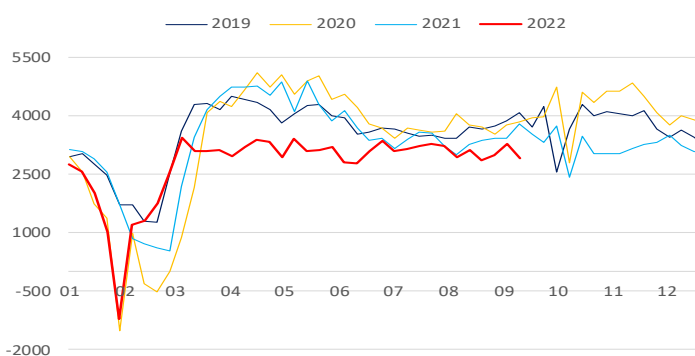
CHINESE STEEL MILL PROFITABILITY—Rebar



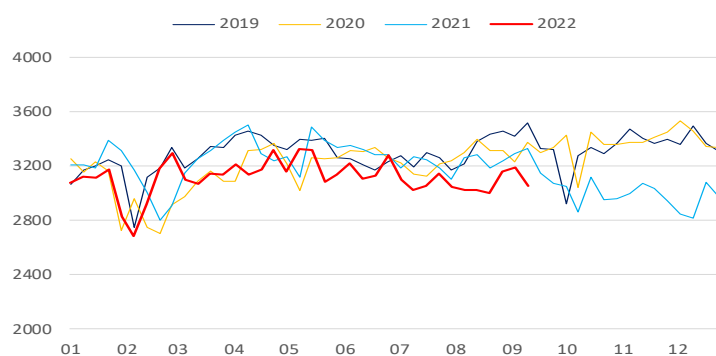
CHINESE STEEL MILL PROFITABILITY—Hot-rolled Coil



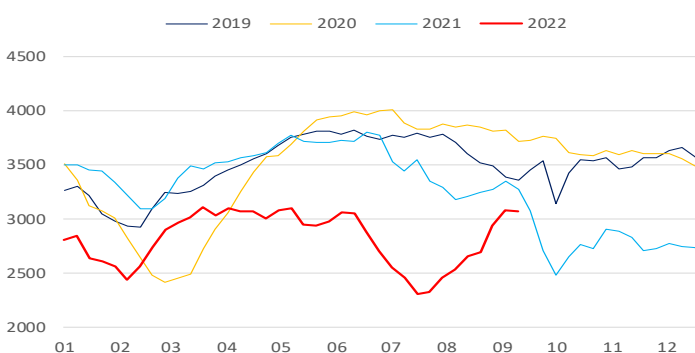
CHINESE STEEL CONSUMPTION—Rebar



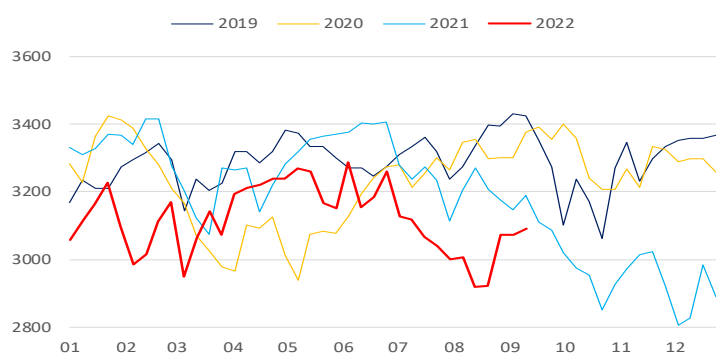
CHINESE STEEL CONSUMPTION—Hot-rolled Coil



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   |
|--|---|--------------|--------------|--|--|
|  | 65% Fe Fines  | 62% Fe Fines | 58% Fe Fines | 62.5% Fe Lump  |  |
| Fe %   | 65.00   | 62.00        | 58.00        | 62.50  | 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.<br><br>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> |
| 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%<br>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                                    |  |
| <b>Data Exclusions*</b>  |   |              |              |  |  |
| Port Index   | 0   | 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       |  |         |        |        |          | SEABORNE BRANDS         |  |         |        |        |          |
|-------------------------|--|---------|--------|--------|----------|-------------------------|--|---------|--------|--------|----------|
| Sep 21st, 2022          | 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 21st, 2022          | Specifications applied for 58% brand assessments |         |        |        |          |                         | Specifications applied for 58% brand assessments |         |        |        |          |
|                         | Fe   | Alumina | Silica | Phos   | Moisture |                         | 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.