

MMi Dashboard

Iron Ore Price Indices





648

2.69% **17**

March 1st, 2019

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



714

14 2.00%

March 1st, 2019

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

563

0 0.00%

March 1st, 2019

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



86.90

1.75 2.06%

March 1st, 2019

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



96.90

0.25 0.26%

March 1st, 2019

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



864

-0.12%

Week Ending March 1st, 2019

Exchange Traded Contracts

DCE Iron Ore 62% Fines 11905 (May) RMB/t



625.50

16.00 2.63%

March 1st, 2019

(3pm close)

SGX Iron Ore (CFR Qingdao) 62% Fe Fines Mar'19 USD/dmt



85.95

2.98 3.59%

(6pm Print) March 1st, 2019

SHFE Rebar RB1905 (May) RMB/t



65.00 1.73%

(3pm close)

-0.64%

March 1st, 2019

Freight Rates

C3, Tubarao - Qingdao USD/t



12.49

-0.11 -0.87%

February 28th, 2019

C5, W. Australia - Qingdao USD/t



4.87

-0.12 -2.46%

February 28th, 2019

Steel Rebar (China Domestic) RMB/t

Steel Price



3855

Week Ending February 22nd, 2019

Inventory Levels

Iron Ore Inventory at Chinese Ports (35) million tonnes



133.57

1.25 0.94%

Week Ending March 1st, 2019

Steel Inventory in China million tonnes



17.96

1.81 11.23%

Week Ending February 22nd, 2019

Steel Price

Steel HRC (China Domestic) RMB/t

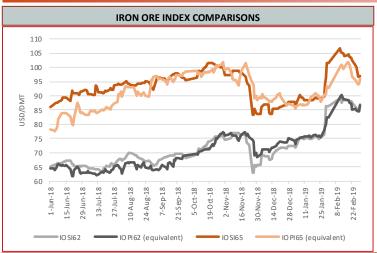


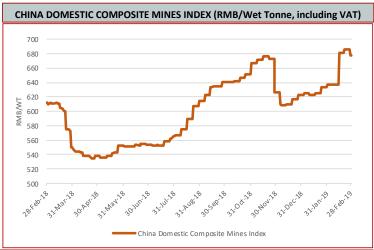
3802

34 0.90%

Week Ending February 22nd, 2019

| MMID | aily Iron O | re Inde | x Report | | | | | | | | | | March | 1st, 20 |)19 |
|---------------------|--|-----------------------|-------------------------------------|-----------------------|------------------------------------|------------------------|--|---|---|------------------------|-----------------------------------|----------------------------|------------------------|--|-----------------------|
| | | | | | | IRON OF | RE PORT S | TOCK INDEX | X (IOPI) | | | | | | |
| March 1s | t 2019 | | FOT Oin | gdao (i | nc. 16% VAT |) RMR/w | et tonne | | CERO | ingdan F | nuivalen | t (exc. 169 | κ VAT) IIS | D/dry tor | nne 1 |
| Index | Fe Content | Price | Change | | | YTD | Low 2 | High ² | | Change (| | | YTD | Low 2 | High ² |
| IOPI62 | 62% Fe Fines | 648 | 17 | 2.7% | | 611 | 443 | 681 | 86.77 | 2.31 | 2.7% | 86.77 | 80.76 | 61.36 | 90.41 |
| IOPI58 | 58% Fe Fines | 563 | 0 | 0.0% | | 499 | 304 | 588 | 74.87 | -0.06 | -0.1% | 74.87 | 65.24 | 40.67 | 78.17 |
| IOPI65 | 65% Fe Fines | 714 | 14 | 2.0% | | 696 | 541 | 784 | 96.00 | 1.88 | 2.0% | 96.00 | 92.56 | 75.83 | 101.79 |
| | | | PON OPE SEA | | INDEX (IOSI | 1 | | | | | MADE | ET COMME | | | |
| March 1st | 2019 | <u>"</u> | NON ORL 3LA | | ingdao, USD/o | | | | Daily iron ore deliver | ies leaving Chine | | | | s the upcoming tw | vo political |
| | Fe Content | Duine | Change | | | | Low ³ | High ³ | sessions in Beijing an impact transportation | nd ongoing level : | 1 emergency me | asures against heav | y pollution in Tang | shan would erode | demand and |
| Index IOSI62 | 62% Fe Fines | Price 86.90 | Change 1.75 | Change 2.06% | | YTD 81.31 | 62.95 | March 1, up some 70,000 mt from the previous week, SMM data showed. Steel mills stepped up iron ore procurement prices of futures rallied slightly in the second half of the week. This bolstered deliveries leaving major ports. SMM data: | | | | curement after | | | |
| IOSI65 | 65% Fe Fines | 96.90 | 0.25 | 0.26% | | 95.64 | 83.20 | 106.85 | showed that stocks of March 1, down 14.43 | of iron ore across | those ports exp | anded 1.25 million r | mt from a week ag | | |
| 103.03 | 037016111163 | 30.30 | 0.25 | U.LU7 | 50.50 | | | JMP INDEX | (IOBLI) | | | | | | |
| Week Endir | ng March 1st, | | | | | | | JIVIP IINDEX | | | | | | | 1 |
| 2019 | | | | | inc. 16% VAT), | - | | | | | | nt (exc. 16% | | | |
| Index | Fe Content | Price | W-o-W | Change | | YTD | Low ³ | High ³ | | | Change % | MTD | YTD | Low ³ | High ³ |
| IOPLI62 | 62.5% Fe Lump | 864 | -1 | -0.1% | 864 | 815 | 565 | 865 | 112.12 | 0.19 | 0.2% | 112.12 | 104.54 | 76.63 | 112.12 |
| | | | IROI | N ORE D | OMESTIC CO | NCENTRA | TE SPOT P | RICE ASSES | SMENTS AND | СОМРО | SITE INDE | X | | | |
| Week End | ing February 22 | nd, 2019 | | | | RMB/to | onne (exclu | ding tax) 4 | | | | USD/tonne | (excluding t | ax) ⁴ | |
| Province | Region | Produc | t : | Basis | This week | Chang | e % | Low ² | High ² | This v | veek | Change % | Low | , 2 | High ² |
| Hebei | Hanxing | 66% Fe | Concentrate | Dry | 788 | -1.7 | % | 579 | 802 | 116 | .83 | -1.43% | 91.9 | 97 | 118.53 |
| Hebei | Qian'an | 65% Fe | Concentrate | Dry | 775 | 0.09 | % | 630 | 815 | 114 | .91 | 0.32% | 100. | 26 | 117.34 |
| Liaoning | Anshan | 65% Fe | Concentrate | Wet | 595 | 3.59 | % | 445 | 745 | 88. | 22 | 3.81% | 68.2 | 21 | 88.22 |
| Shandong | Zibo | 65% Fe | Concentrate | Dry | 840 | -2.3 | % | 620 860 12 4 | | 124 | .54 | -2.02% | 99.7 | 75 | 127.11 |
| Week Endin | g February 22nd, | 2019 | | This | week Char | ıge % | Low ⁵ | High ⁵ | | | | Since March 1 ³ | | | |
| China Mines | Concentrate Con | nposite Inc | lex RMB/WT | 685 | 5.87 0.0 | 5% | 534.50 | 685.87 | weekiy excilari | ge rate applied | I. KIVIB/USD 6.7 | 446 Last 12 IIIOII | iuis | | |
| | IRON ORE PORT INDEX, FOT QINGDAO (RMB/WT) IRON ORE SEABORNE INDEX, CFR QINGDAO (USD/DMT) | | | | | | | | | | | | | | |
| 850 — | 850 | | | | | | | | | | | | | | |
| 750 — | | | _ ~~ | | ~~ | | M. | 105 —— | | | | ~ | | | ~~ |
| 650 — | | | | | اس | ~~~ | ~ | 95 — | 4-1- | ~~ | ~~ | | 1 | لـــــــــــــــــــــــــــــــــــــ | |
| 550 | ~~~~ | V | | | /~~~ | | | 85 | | | | _ | W~~ | | |
| 450 | | ~~~ | ~~~~ | | | | | 75 | | ~~ | | وللكوم | \~~ | | |
| 350 | | ~~~ | | | | | | 55 — | | | | | • | | |
| 250 | | 0 00 00 | | | | | | 45 | | | | | | | |
| 2-Apr-18 | 1/-Apr-18 2-May-18 17-May-18 1-Jun-18 | 1-Jul-18 16-Jul-18 | 31-Jul-18 15-Aug-18 30-Aug-18 | 29-Sep-18 14-Oα-18 | 29-Od-18 13-Nov-18 28-Nov-18 | 28-Dec-18 12-Jan-19 | 2 7-34 II-15 11-Feb-19 26-Feb-19 | 1-Jun-18 | 29-Jun-18 13-Jul-18 27-Jul-18 | 10-Aug-18 24-Aug-18 | 7-Sep-18 21-Sep-18 5-Oct-18 | 19-0d-18 2-Nov-18 | 30-Nov-18 14-Dec-18 | 28-Dec-18 11-Jan-19 25-Jan-19 | 8-Feb-19 22-Feb-19 |
| 5- | 17-7 1-2 17-1 17-1 1-1 | 1 16 | 31, 15-, 15-, 30-, 14- | 29- | 29-13-1 | 28 28 12. | 2.7. 11- 26- | 4 4 | 29- 29- 13- | 10- <i>p</i> | 21-9 | 19-1 2-1 | 30-N | 28-[11 25 | 8-1 |
| | | 101 | PI 62 IC |) PI 58 = | IO PI 65 | | | | | _ | IO SI62 | — IO SI | 165 | | |
| | | | IRC | ON ORE | PORT STOCK | INDEX M | ONTHLY, C | QUARTERLY | AND YEAR-T | O-DATE A | VERAGE | S | | | |
| March 1s | t, 2019 | | FOT Qi | ngdao (| inc. 16% VA1 | T), RMB/w | et tonne | | CFR C | Qingdao I | Equivaler | nt (exc. 169 | % VAT), US | D/dry ton | ne ¹ |
| Index | Fe Content | Novemb | erDecember | Januai | ry February | MTD | QTD | YTD | NovemberDe | ecember | January | February | MTD | QTD | YTD |
| IOP162 | 62% Fe Fines | 564 | 559 | 580 | 654 | 648 | 611 | 611 | 65.25 | 72.55 | 76.16 | 87.09 | 86.77 | 80.76 | 80.76 |
| IOPI58 | 58% Fe Fines | 401 | 392 | 448 | 569 | 563 | 499 | 499 | 45.84 | 50.47 | 57.99 | 75.22 | 74.87 | 65.24 | 65.24 |
| IOPI65 | 65% Fe Fines | 760 | 681 | 670 | 733 | 714 | 696 | 696 | 92.13 | 99.05 | 88.65 | 98.08 | 96.00 | 92.56 | 92.56 |
| IRO | N ORE SEABO | RNE INDI | EX MONTHLY | , QUAR | RTERLY AND Y | EAR-TO-D | ATE AVER | RAGES | | | FF | REIGHT RAT | ΓES | | |
| March 1st, | 2019 | | | CFR C | Qingdao, USD/o | dry tonne | | | February 28th, 2 | 019 | | FREIGHT RA | ATES - DRY BUI | .K US\$/wet to | nne |
| Index | Fe Content | Novemb | er December | Januar | y February | MTD | QTD | YTD | Route | Designa | ation | Change | Change % | Low 5 | High ⁵ |
| IOSI62 | 62% Fe Fines | 72.91 | 69.96 | 76.09 | 87.39 | 86.90 | 81.31 | 81.31 | W. Australia - Qing | gdao C5 | 4.87 | -0.12 | -2.46% | 4.81 | 10.00 |
| IOSI65 | 65% Fe Fines | 94.05 | 85.95 | 89.92 | 102.56 | 96.90 | 95.64 | 95.64 | Tubarao - Qingdao | СЗ | 12.49 | -0.11 | -0.87% | 12.49 | 24.76 |
| | | | IRC | ON ORE | PORT LUMP | INDEX MO | ONTHLY, Q | UARTERLY | AND YEAR-TO | D-DATE A | VERAGES | ; | | | |
| Week Endin | g February | | FOT | Qingdao | (inc. 16% VAT) | , RMB/wet | tonne | | CF | FR Qingda | o Equivale | nt (exc. 16% | VAT), USD | dry tonne | 1 |
| 22nd, 2019 Index | Fe Content | Novemb | er December | | | - | QTD | YTD | November D | | | February | MTD | QTD | YTD |
| IOPLI62 | 62.5% Fe Lump | 771 | 749 | 782 | | 864 | 815 | 815 | 96.21 | 94.22 | 99.57 | 108.63 | 112.12 | 104.54 | 104.54 |
| | | | | | | | | MIUMS/DI | | | | | | | |
| March 1st | 2019 | | | DODT C | TOCK INDEX (RI | | DEA FILE | 1 | | | | CEAROR | NE INDEA (1 ic | CD/DN/IT\ | |
| March 1st, | Fe Content | | Spread | to IOPI62 | | Spread to I | IOPI62 | March 1st, 2 | Fe Content | | Spre | ad to IOSI62 | NE INDEX (US | % Spread to | iOSI62 |
| | 58% Fe Fines | | | 85 | ŕ | -13.12% | | Spread to 103102 // Spread to 103102 | | | | | | | |
| | 65% Fe Fines | | | 56 | | 10.19% | ś | | 65% Fe Fines | | | 10 | | 11.51 | % |
| | | | | | | | - 2/6 | | | | | | | | |

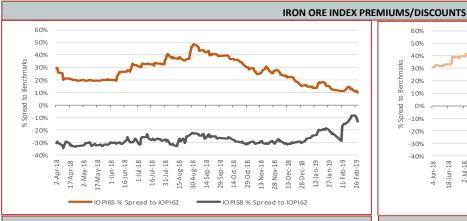




| | IRON ORE BRAND SPOT PRICE ASSESMENTS | | | | | | | | | | | | |
|-------------------------|--------------------------------------|----------------|----------------|-------------------------|-------|----------------|----------------|--|--|--|--|--|--|
| March 1st, 2019 | PORT | STOCK INDEX (R | MB/WT) | March 1st, 2019 | SEABO | ORNE INDEX (US | D/DMT) | | | | | | |
| | Price | Change | Diff to IOPI62 | | Price | Change | Diff to IOSI62 | | | | | | |
| Roy Hill | 626 | 18 | -22 | Roy Hill | 82.26 | 2.32 | -4.64 | | | | | | |
| SIMEC Fines | 606 | 25 | -42 | SIMEC Fines | 79.11 | 2.85 | -7.79 | | | | | | |
| PB Fines | 632 | 16 | -16 | PB Fines | 86.24 | 2.00 | -0.66 | | | | | | |
| Newman Fines | 661 | 17 | 13 | Newman Fines | 89.15 | 1.63 | 2.25 | | | | | | |
| MAC Fines | 627 | 20 | -21 | MAC Fines | 82.81 | 2.40 | -4.09 | | | | | | |
| Jimblebar Blended Fines | 601 | 17 | -47 | Jimblebar Blended Fines | 79.24 | 2.98 | -7.66 | | | | | | |
| Carajas Fines | 724 | 14 | 76 | Carajas Fines | 96.95 | 0.98 | 10.05 | | | | | | |
| Brazilian SSF | 640 | 21 | -8 | Brazilian SSF | 86.90 | 2.38 | 0.00 | | | | | | |
| Brazilian Blend Fines | 646 | 18 | -2 | Brazilian Blend Fines | 88.77 | 1.87 | 1.87 | | | | | | |
| RTX Fines | 612 | 19 | -36 | RTX Fines | 80.16 | 2.25 | -6.74 | | | | | | |

| SSF FMG Blended Fines Robe River Western Fines Atlas Fines | PORT | PORT STOCK INDEX (RMB/WT) | | | | | | |
|--|-------|---------------------------|----------------|--|--|--|--|--|
| | Price | Change | Diff to IOPI58 | | | | | |
| SSF | 493 | 1 | -70 | | | | | |
| FMG Blended Fines | 563 | 0 | 0 | | | | | |
| Robe River | 512 | 0 | -51 | | | | | |
| Western Fines | 497 | 0 | -66 | | | | | |
| Atlas Fines | 496 | 0 | -67 | | | | | |
| Yandi | 559 | -5 | -4 | | | | | |

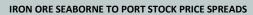
| | | | | IRON ORE II | NDEX NORMA | ALISATION DIFFER | ENTIALS | | | | |
|------------|---------------|---|------------|--------------------|-----------------|----------------------|---|--|---|---------------|--------|
| Por | t Stock Index | Product Differ | entials (R | MB/wet tonne |) | Se | aborne Inde | x Product Di | fferentials (l | JDS/dry tonne | :) |
| | Арі | plicable range | | Value | Change | | А | pplicable ran | ge | Value | Change |
| | High Grade | e Fe 60 - 63% | | 10.00 | 0.00 | | High Grad | de Fe 60 - 63 | % | 3.00 | -0.25 |
| | High Grade | e Fe 63 - 64% | | 20.00 | 0.00 | | High Grad | de Fe 63 - 649 | % | 2.00 | -0.25 |
| 1% Fe | High Grade | High Grade Fe 64 - 65% | | 20.00 | 0.00 | 1% Fe | High Grad | High Grade Fe 64 - 65% High Grade Fe 65 - 65.5% | | 2.00 | -0.25 |
| | High Grade | e Fe 65 - 65.5% | | 20.00 0.00 | | | High Grad | | | 2.00 | -0.25 |
| | Low Grade Fe | | | 19.00 | 0.00 | | | | | | |
| | High Fe Gra | rade Al <2.25% | | 13.00 -3.00 | | | High Fe G | rade Al <2.25 | 5% | 1.50 | 0.00 |
| 40/ 41 . | High Fe Gra | ade Al 2.25-4% | . | 15.00 | 0.00 | 40/ 41 | High Fe G | rade Al 2.25 | -4% | 1.25 | -0.50 |
| 1% Alumina | Low Fe Gra | de Al <2.25% | | 40.00 | -5.00 | 1% Alumina | | | | | |
| | Low Fe Gra | de Al 2.25-4% | | 33.00 | 0.00 | | | | | | |
| | High Fe Gra | ade Si <4% | | 2.00 | 0.00 | | High Fe G | rade Si <4% | | 0.75 | 0.00 |
| 1% Silica | High Fe Gra | High Fe Grade Si 4-6.5% | | 15.00 | -3.00 | 1% Silica | High Fe G | rade Si 4 - 6. | 5% | 0.75 | -0.25 |
| | Low Fe Gra | Low Fe Grade | | | 0.00 | | | | | | |
| 0.040/ | High Fe Gra | ade 0.09% <p<0< td=""><td>0.115%</td><td>2.00</td><td>0.00</td><td>0.01%</td><td colspan="2">High Fe Grade 0.09%<p<0.115%< td=""><td>P<0.115%</td><td>0.00</td><td>0.00</td></p<0.115%<></td></p<0<> | 0.115% | 2.00 | 0.00 | 0.01% | High Fe Grade 0.09% <p<0.115%< td=""><td>P<0.115%</td><td>0.00</td><td>0.00</td></p<0.115%<> | | P<0.115% | 0.00 | 0.00 |
| 0.01% | High Fe Gra | ade 0.115% <p<< td=""><td>0.15%</td><td>2.00</td><td>0.00</td><td>Phosphorus</td><td>High Fe G</td><td>rade 0.115%</td><td><p<0.15%< td=""><td>1.00</td><td>0.00</td></p<0.15%<></td></p<<> | 0.15% | 2.00 | 0.00 | Phosphorus | High Fe G | rade 0.115% | <p<0.15%< td=""><td>1.00</td><td>0.00</td></p<0.15%<> | 1.00 | 0.00 |
| Phosphorus | Low Fe Gra | de 0.09 <p<0.19< td=""><td>%</td><td>2.00</td><td>0.00</td><td></td><td></td><td></td><td></td><td></td><td></td></p<0.19<> | % | 2.00 | 0.00 | | | | | | |
| | | | Port S | tock Price Differe | ntials to Qingo | lao Port for PB Fine | s (RMB/wet t | onne) | | | |
| Port | Value | Change | Port | Value | Change | Port | Value | Change | Port | Value | Change |
| Bayuquan | -35.00 | 0.00 | Fangchen | g -5.00 | 0.00 | Lanshan | 0.00 | 0.00 | Qingdao | 0.00 | 0.00 |
| Beilun | 5.00 | 0.00 | Jiangyin | -15.00 | 0.00 | Lianyungang | 0.00 | 0.00 | Rizhao | 0.00 | 0.00 |
| Caofeidian | -5.00 | 0.00 | Jingtang | 0.00 | 0.00 | Majishan | 0.00 | 0.00 | Shekou | 0.00 | 0.00 |
| Dalian | -15.00 | 0.00 | Lanqiao | -5.00 | 0.00 | Nantong | -15.00 | 0.00 | Tianjin | -15.00 | 0.00 |

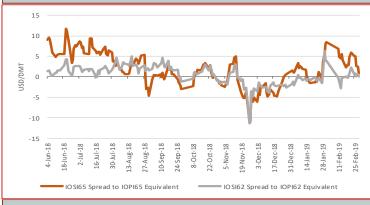




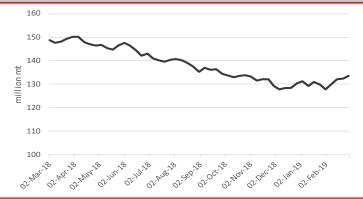
WEEKLY IRON ORE PORT STOCK LUMP PREMIUM (62.5% FE LUMP—62% FE FINES)







TOTAL IRON ORE INVENTORIES AT CHINA PORTS



| FUTURE TRADING—FRONT MONTH CLOSING PRICE | | | |
|---|-----------------------|----|-----------|
| 650 | 4 | 93 | |
| 600 — | V | 88 | |
| ₩ 550 | ry | 83 | ne |
| 888 (40 mg 200 m | | 78 | USD/tonne |
| £ 500 | | 73 | USD |
| 450 | | 68 | |
| No Mar Control | | 63 | |
| 400 | 6 6 | 58 | |
| 5-Apr-18 20-Apr-18 20-May-18 20-May-18 19-Jun-18 4-Jul-18 19-Jul-18 3-Aug-18 17-Cep-18 2-Cet-18 17-Cep-18 | 14-Feb-19 1-Mar-19 | | |
| 5-7-20-0-20-0-20-0-20-0-20-0-20-0-20-0-2 | 14-I 1-N | | |

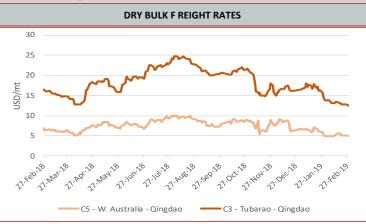
SGX Front Month 6pm (RHS)

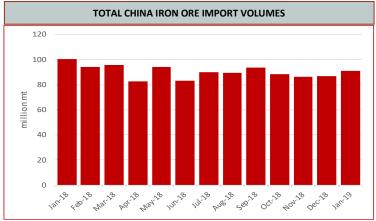
| | IRON ORE PORT INVENTORIES | | | | | | | | | | |
|------------------|--|----------|------------------|-------------------|--|--|--|--|--|--|--|
| | Week Ending March 1st, 2019 (million tonnes) | | | | | | | | | | |
| Province | This week | Change % | Low ⁴ | High ⁴ | | | | | | | |
| Jingtang | 14.34 | -1.10% | 13.29 | 19.00 | | | | | | | |
| Qingdao | 18.81 | 5.26% | 16.09 | 19.97 | | | | | | | |
| Caofeidian | 17.15 | -2.56% | 16.30 | 25.30 | | | | | | | |
| Tianjin | 9.18 | 1.10% | 8.50 | 11.00 | | | | | | | |
| Rizhao | 16.68 | 1.40% | 14.00 | 19.00 | | | | | | | |
| Total (35 Ports) | 133.57 | 0.94% | 127.72 | 150.04 | | | | | | | |

| | | DCE | | SGX | | | | |
|----------------------------|--------|--------------|----------|------------------|--------|----------|--|--|
| Closing Date | 1s | t Mar 3pm cl | ose | 1st mar Feb 6 pm | | | | |
| Contract | 11905 | Change | Change % | Mar'19 | Change | Change % | | |
| Closing Price | 625.5 | 16.0 | 2.63% | 85.95 | 2.98 | 3.59% | | |
| Vol traded ('000 lots) | 150.22 | -28.0 | -15.72% | 10.22 | -2.74 | -21.17% | | |
| Open positions ('000 lots) | 109.50 | 2.0 | 1.83% | 121.60 | -0.95 | -0.78% | | |
| Day Low | 608.0 | 12.0 | 2.01% | 83.21 | 1.27 | 1.55% | | |
| Day High | 628.0 | 17.0 | 2.78% | 85.95 | 2.97 | 3.58% | | |

IRON ORE FUTURES CONTRACTS

Dalian 3pm Close





STEEL SPOT MARKET PRICES—CHINA

| Steel Spot Market RMB/tonne | | | |
|---------------------------------|-----------|--------|----------|
| Product | 22/2/2019 | Change | Change % |
| ReBar HRB400 ф18mm | 3,855.0 | -25 | -0.64% |
| Wirerod Q300 ¢6.5mm | 3,942.0 | -34 | -0.86% |
| HRC Q235/SS400 5.5mm*1500*C | 3,802.0 | 34 | 0.90% |
| CRC SPCC/ST12 1.0mm*1250*2500 | 4,326.0 | 50 | 1.17% |
| Medium & Heavy Plate Q235B 20mm | 3,966.0 | 0 | 0.00% |
| GI ST02Z 1.0mm*1000*C | 4,670.0 | 40 | 0.86% |
| Billet Q235 150*150mm | 3,420.0 | 30 | 0.88% |



| | CHINESE STEEL EXPORT PRICES | | | | | | | | | | |
|---------------------------|-------------------------------|--------------------------------|-----------|--------|--|--|--|--|--|--|--|
| China Export Prices USD/t | China Export Prices USD/tonne | | | | | | | | | | |
| Product | Specification | Export tax (+)/Vate rebate (-) | | Change | | | | | | | |
| | | | 22/2/2019 | | | | | | | | |
| Rebar | BS4449 460B 12-25mm, + chrome | -13% | 525 | 0 | | | | | | | |
| Wire Rod | SAE1008 6.5-10mm +chrome | -9% | 535 | 0 | | | | | | | |
| Hot-rolled coil | SS400/Q235 4.0-10.mm | -9% | 525 | 0 | | | | | | | |
| Cold-rolled coil | SPCC 1.0mm | -13% | 565 | 0 | | | | | | | |
| Medium & Heavy plate | A-level Shipe plate 12-25mm | 0% | 530 | 0 | | | | | | | |
| Galvanised | ST02Z/SGCC 1.0mm | -13% | 580 | 0 | | | | | | | |

Note: Calculation formula for converting export prices of rebar, cold-rolled steel and galvanizing into prices in China's spot market = FOB* exchange rate*15/(15-0.5); Calculation formula for converting export prices of wire rod and hot-rolled steel into prices in hina's spot market = FOB* exchange rate *15/(115-0.09); Calculation formula for converting export prices of medium-thick plate into prices in China's spot market = FOB* exchange rate

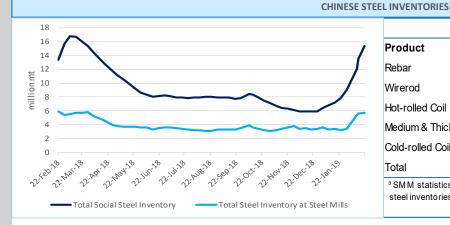


CHINESE STEEL MILL PROFITABILITY

| SMM Tracking of | Steel Mill P8 | L - Rebar and Ho | t-rolled Coil (RMB/tonne) |
|---------------------------------------|---------------|------------------|--|
| Category | Price | Change (WoW) | Note |
| MMi (Fe 62%), USD/mt exluding tax | 85.12 | -3.56 | Mmi CFR Equivalent index for 1st Feb |
| Coke | 2,070 | 100 | 2nd grade met coke, Tangshan, incl. tax |
| Steel Scrap | 2,210 | 0 | steel scrap (6mm) in Zhangjiagang, exl. tax |
| Billet Cost | 3,025 | 8 | Q234, incl. tax |
| Rebar cost - Blast furnace | 3,279 | 7 | calculated based on theoretical w eight, incl. tax |
| Rebar profit - Blast furnace | 481 | -7 | based on Shanghai prices, incl. tax |
| Hot-rolled coil cost - Blast furnace | 3,350 | 8 | based on actual w eight, incl. tax |
| Hot-rolled coil proft - Blast furnace | 430 | 62 | 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 fees.

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



| Steel Inve | ntories³ (unit: | 1000 tonnes | ;) | |
|----------------------|-----------------|-------------|--------|----------|
| Product | 22/2/2019 | 15/2/2019 | Change | Change % |
| Rebar | 9,634 | 8,304 | 1,330 | 16.02% |
| Wirerod | 3,052 | 2,725 | 327 | 12.00% |
| Hot-rolled Coil | 2,725 | 2,588 | 137 | 5.29% |
| Medium & Thick Plate | 1,351 | 1,321 | 30 | 2.27% |
| Cold-rolled Coil | 1,201 | 1,081 | 120 | 11.10% |
| Total | 17,964 | 16,151 | 1,813 | 11.23% |

³ SMM statistics cover inventories of major steel products in China's major markets: hot-rolled steel inventories in 33 major cities; rebar and wire inventories in 35 major cities; cold-rolled steel and medium-thick plate inventories in 31major cities. **Pricing Point**

Payment Terms

Timing (Seaborne)

O

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 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 Fe % 65.00 62.00 58.00 62.50 indices are calculated using detailed transaction-level data submitted to MMi by 1.40 2.25 2.25 1.50 these companies. This data is normalised to the appropriate specifications and Alumina % screened to remove outliers before volume-weighted average prices are Silica% 4.00 3.50 1.50 5.50 calculated from the remaining core set of data. Phosphorus % 0.06 0.09 0.05 0.08 For more details on MMi's iron ore methodology please download the guide published on our website at: www.mmiprices.com Sulphur % 0.01 0.02 0.02 0.02 Moisture % 8.00 8.00 9.00 4.00 Data Exclusions* Granular size below 10mm for at least 90% of cargo; Size below 6.3mm max 15% 65% Sizing

FOT Qingdao Port

Delivery within 2 weeks

Port Index Seaborne index Lump Index 62.5

Number of price submissions for iron ore indices that weeks

IRON ORE DOMESTIC CONCENTRATE INDEX CALCULATION METHODOLOGY

L/C at sight or CAD

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 BRAN | IDS | | | SEABORNE BRANDS | | | | | | |
| March 1st, 2019 | Specifi | cations appli | ed for 62% | brand asses | sments | | Specifi | Specifications applied for 62% brand assessments | | | | |
| | Fe | Alumina | Silica | Phos | Moisture | | Fe | Alumina | Silica | Phos | Moisture | |
| Roy Hill | 60.76% | 2.35% | 4.31% | 0.057% | 8.58% | 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 | 61.63% | 2.37% | 3.62% | 0.101% | 9.29% | PB Fines 62% | 62.00% | 2.60% | 4.30% | 0.090% | 10.00% | |
| Newman Fines | 62.79% | 2.15% | 3.94% | 0.087% | 7.50% | Newman Fines | 62.80% | 2.20% | 4.30% | 0.080% | 6.40% | |
| MAC Fines | 60.77% | 2.34% | 4.93% | 0.087% | 7.00% | MAC Fines | 61.00% | 2.70% | 4.70% | 0.110% | 9.30% | |
| Jimblebar Blended Fines | 61.01% | 3.08% | 4.23% | 0.118% | 7.23% | Jimblebar Blended Fines | 61.79% | 2.67% | 4.08% | 0.115% | 7.16% | |
| Carajas Fines | 65.45% | 1.22% | 1.54% | 0.066% | 8.12% | 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 | 62.55% | 1.57% | 4.86% | 0.071% | 8.49% | Brazilian Blend Fines | 62.50% | 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% | |
| March 1st, 2019 | Specifi | cations appli | ed for 58% | brand asses | sments | | | | | | | |
| | Fe | Alumina | Silica | Phos | Moisture | | | | | | | |
| SSF | 56.63% | 3.17% | 6.19% | 0.052% | 9.00% | | | | | | | |
| FMG Blended Fines | 58.19% | 2.66% | 5.47% | 0.061% | 7.57% | | | | | | | |
| Robe River | 56.64% | 2.91% | 5.58% | 0.035% | 9.29% | | | | | | | |
| Western Fines | 58.00% | 3.08% | 7.84% | 0.070% | 7.52% | | | | | | | |
| Atlas Fines | 56.59% | 2.55% | 7.14% | 0.080% | 8.46% | | | | | | | |
| Yandi | 57.08% | 1.41% | 6.58% | 0.032% | 8.71% | | | | | | | |

| | | BLOOMBE |
|--------------------|-----------------------------|--|
| PORT STOCK INDICES | | |
| | FOT Qingdao (RMB/wet tonne) | CFR Qingdao Equivalent (USD/dry tonne) |
| IOPI62 | IRCNQ001 | IRCNQ004 |
| IOPI58 | IRCNQ002 | IRCNQ005 |
| IOPI65 | IRCNQ003 | IRCNQ006 |

maximum of 40% below 150 micron

Qingdao Port (FOT and CFR respectively)

Loading within 4 weeks, Delivery within 8 weeks

L/C at sight

CONTACT US

RG TICKERS

MMI Singapore Office Details: Level 28, Manulife Tower, 8 Cross Street Singapore. Tel: + 65 6850 7629 E: jarek@mmiprices.com
SMM Singapore Office Details: Level 28, Manulife Tower, 8 Cross Street Singapore. Tel: + 65 6850 7630 E: 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

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^{*} Number of price submissions for iron ore indices that were excluded from index calculations today as they were anomalous and could not be verified