

MMi Dashboard

Iron Ore Price Indices





731

9 1.25%

August 14th 2019

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



823

8 0.98%

August 14th 2019

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

668

0 0.00%

August 14th 2019

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



90.70

0.95 1.06%

August 14th 2019

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



102.95

0.55 0.54%

August 14th 2019

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



4.77%

Week Ending August 9th, 2019

Exchange Traded Contracts

DCE Iron Ore 62% Fines 12001 (Jan) RMB/t



631.50

4.00 0.64%

August 14th 2019

(3pm close)

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



88.26

2.04 2.37%

August 14th 2019 (6.00 pm Print)

SHFE Rebar RB1910 (Oct) RMB/t



3670

-7.00 -0.19%

August 14th 2019

(3pm close)

Freight Rates

C3, Tubarao - Qingdao USD/t



August 13th, 2019

21.82

0.47 2.19%

C5, W. Australia - Qingdao USD/t



9.78

0.56 6.06%

August 13th, 2019

Steel Rebar (China Domestic) RMB/t

Steel Price



3700

-160 -4.15%

Week Ending August 9th, 2019

Inventory Levels

Iron Ore Inventory at Chinese Ports (35) million tonnes



107.84

-1.30 -1.19%

Week Ending August 9th, 2019

Steel Inventory in China million tonnes



14.83

0.28 1.93%

Week Ending August 9th, 2019

Steel Price

Steel HRC (China Domestic) RMB/t

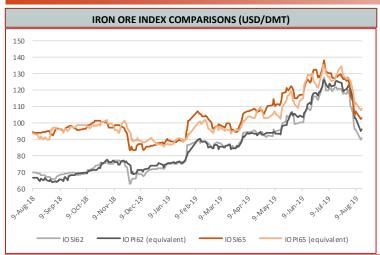


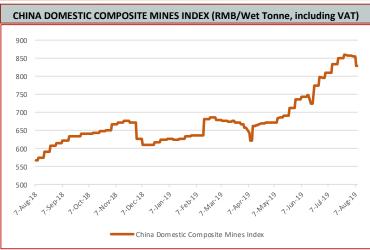
3650

-120 -3.18%

Week Ending August 9th, 2019

| MMi D | aily Iron | Ore I | ndex | Report | | | | | | | | | | | Augus | t 14th 2 | 2019 |
|--|---------------|-------------------------------|-----------|-------------------|-----------------|-----------------|--------------------------|------------------|---------------------------------------|----------|---------------------|------------------|---------------|---|------------------------|---------------------|-------------------|
| | | | | | | | IRON OR | E PORT ST | TOCK INDEX | (IOP | 1) | | | | | | |
| August 14 | th 2019 | | | FOT C | Qingdao | (inc. 13% VA |), RMB/wet | tonne | | | CFR C | Qingdao E | quivale | nt (exc. 13% | 6 VAT), USD, | dry tonne | 1 |
| Index | Fe Conte | nt P | rice | Change | Change | e % MTD | YTD | Low ² | High ² | Pr | ice Cha | inge Ch | ange % | MTD | YTD | Low ² | High ² |
| IOPI62 | 62% Fe Fi | nes 7 | 731 | 9 | 1.2% | 797 | 724 | 492 | 928 | 96 | .17 1. | 25 | 1.3% | 106.09 | 97.37 | 63.83 | 126.12 |
| IOPI58 | 58% Fe Fi | nes 6 | 668 | 0 | 0.0% | 741 | 634 | 347 | 823 | 88 | .52 0. | 02 | 0.0% | 99.37 | 85.38 | 43.55 | 112.44 |
| IOPI65 | 65% Fe Fi | nes 8 | 823 | 8 | 1.0% | 861 | 798 | 654 | 992 | 108 | 3.76 1 . | 12 | 1.0% | 114.85 | 107.68 | 85.47 | 135.34 |
| | | | IRC | ON ORE SEA | ABORN | E INDEX (IOS | 5I) | | | | | | MARK | ET COMMI | ENTARY | | |
| August 14 | th 2019 | | | | CFR C | Qingdao, USD, | dry tonne | | | | | | | r a second straight w ia and Brazil in recen | | | |
| Index | Fe Conte | nt P | rice | Change | Change | e % MTD | YTD | Low ² | High ² | Arrivals | shrank 2.31 million | mt in the previo | us week. La | ring August 4-10, do st week, iron ore del | liveries leaving Austr | alian ports grew 61 | 0,000 mt from the |
| IOSI62 | 62% Fe Fir | nes 9 0 | 0.70 | 0.95 | 1.069 | 100.65 | 96.32 | 62.95 | 127.50 | stock qu | otes by 5-10yuan/n | mt during the mo | orning as tra | ders were active and | d some mills replenis | hed stocks .Accord | |
| IOSI65 | 65% Fe Fir | nes 10 | 2.95 | 0.55 | 0.549 | % 109.51 | 109.50 | 83.20 | 137.95 | | | red on account o | r tne rast-ra | lling iron ore prices a | and relatively firm st | eel prices | |
| Week Endin | ng August 9t | h | | | | | | | JMP INDEX | (IOPL | <u> </u> | | | | | | • |
| 2019 | | | _ | | | (inc. 16% VAT | | | | | | | - | nt (exc. 16% | | | |
| Index | Fe Conte | | rice | W-o-W | Change | | YTD | Low ² | High ² | Pri | | | ange % | | YTD | Low ² | High ² |
| IOPLI62 | 62.5% Fe Lu | ımp 9 | 958 | -48 | -4.89 | | 908 | 618 | 1051 | 119 | | | 5.17% | 123.55 | 116.37 | 80.29 | 133.81 |
| Week Ending August 9th, 2019 RMB/tonne (excluding tax) 3 USD/tonne (excluding tax) 3 USD/tonne (excluding tax) 3 | | | | | | | | | | | | | | | | | |
| | | | | | Pasis | This work | | • | ding tax) ³ | | iah 2 | This was | | | • | | High ² |
| Province | Regi | | roduct | `ancontrato | Basis | This week | Change | | | | igh ² | This wee | | Change % | Low | | - |
| Hebei | Han | • | | Concentrate | ' | 994 925 | -0.8% -3.6% | | 630 690 | | 032 960 | 142.37 132.49 | | -2.11% -4.92% | 91.9 | | 150.03 139.35 |
| Hebei | Qian | | | Concentrate | ' | 720 | | | 465 | | 745 | | | | 100. | | |
| Liaoning | Ansl | | | Concentrate | | 950 | 0.0% -6.9% | | 690 | | | 103.13 136.07 | | -1.32% -8.10% | 68.2 | | 104.66 151.33 |
| | g August 9th | | 3% FE C | .oncenti ate | | | -0.97 ange % | Low ² | | | | | | 7.5 | 131.33 | | |
| China Mines Concentrate Composite Index RMB/WT 829.53 -3.3% 567.06 859.50 | | | | | | | | | | | | | | | | | |
| IRON ORE PORT INDEX, FOT QINGDAO (RMB/WT) IRON ORE SEABORNE INDEX, CFR QINGDAO (USD/DMT) | | | | | | | | | | | | | | | | | |
| 1050 — | 1050 | | | | | | | | | | | | | | | | |
| 950 — | | | | | | | | 1 | 135 | | | | | | | \sim | ~~ |
| 850 — | | | | | | ~ ~ / | | ~\f | 125 —— 115 —— | | | | | | ~4~ | $^{\prime}$ | mi |
| 750 — 650 — | ~~~~ | ~ | m. | ~~/ | ~~~ | ~~~~ | 1 | 1/2 | 105 — 95 ~ | ~ | <u>~~</u> | ` | | لهمسم | | سمم | ~ |
| 550 | | ~~~ | ~ | ~~~/ | لتتم | ~~~ | | | 85 — | _ | | 1 | لسبر | | | | |
| 450 — | | | ~~ | | | | | | 75 65 | | ومسر | J~~ | | | | | |
| 350 ²⁵⁰ | | | | | | | | | 55 —— 45 —— | | | | | | | | |
| 250 24 AUB 18 | aser 18 JAOE. | 2 VAMON 18 | ADec.18 | Jarlania Jarkabia | 14.Mar.19 | AROTIS ANDVIS | Alunda Janulaa | AAU8:19 | Jarne Je | 200 | 4.18 JOHOV. 18 | onecite vale | n.19 10/re | 10 Mar. 19 | ADL'IS NONSY'IS | Toming John, | 10 Aug 19 |
| \ \rangle \rangle \ \rangle \rangle \ \rangle \rangl | λ. <i>λ</i> . | ~u ^ | — 10 PI 6 | | OPI58 = | IO PI 65 | , , , , | ~ | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | | <i>√</i> ° <i>√</i> | | | | | · | ~ |
| | | | IOPIG | | | | | | | | · | | 10 SI62 | | 105 | | |
| August 14 | h 2010 | | | | | (inc. 13% VA | | | QUARTERLY | AND | | | | 5 ent (exc. 13% | V VAT\ LISD | /dry tonno | |
| Index | Fe Conte | ent A | April | May | June | - | MTD | QTD | YTD | Aı | | | June | July | MTD | QTD | YTD |
| IOPI62 | 62% Fe Fi | | 675 | 729 | 825 | 909 | 797 | 875 | 724 | 1 ' | | • | 11.42 | 123.29 | 106.09 | 118.08 | 97.37 |
| IOPI58 | 58% Fe Fi | | 600 | 637 | 726 | 809 | 741 | 788 | 634 | | | | 98.60 | 110.47 | 99.37 | 107.11 | 85.38 |
| IOPI65 | 65% Fe Fi | nes 7 | 753 | 812 | 901 | 954 | 861 | 926 | 798 | 95 | .78 110 | 0.00 1 | 21.97 | 129.53 | 114.85 | 125.08 | 107.68 |
| IROI | N ORE SEA | BORNE | INDEX | MONTHLY | Y, QUAI | RTERLY AND | YEAR-TO-D | ATE AVER | AGES | | | | FI | REIGHT RA | TES | | |
| August 14 | th 2019 | | | | CFR (| Qingdao, USD, | dry tonne | | | Augus | t 13th, 2019 | | | FREIGHT R | ATES - DRY BUI | LK US\$/wet to | |
| Index | Fe Conte | ent A | April | May | June | July | MTD | QTD | YTD | Route | | Designation | ו | Change | Change % | Low ² | High ² |
| IOSI62 | 62% Fe Fi | | 3.42 | 98.68 | 108.5 | | 100.65 | 115.62 | 96.32 | | tralia - Qingdao | C5 | 9.78 | 0.56 | 6.06% | 4.39 | 11.15 |
| IOSI65 | 65% Fe Fi | nes 10 | 06.75 | 115.53 | 124.4 | | 109.51 | 124.36 | 109.50 | | o - Qingdao | C3 | 21.82 | | 2.19% | 11.61 | 27.52 |
| Wook Endi- | g August 9t | h | | | | PORT LUMI | | | UARTERLY | AND Y | | | | | | | |
| 2019 | 1 | | | | | (inc. 16% VA | | | | - | | | - | ent (exc. 16% | •• | • | |
| Index | Fe Conte | | /larch | April | Ma | • | MTD | QTD | YTD | | | pril | May | June | MTD | QTD | YTD |
| IOPLI62 | 62.5% Fe Li | ump | 858 | 872 | 919 | | 1006 | 1038 | 908 | | | 1.03 1 | 17.12 | 128.00 | 123.55 | 129.84 | 116.37 |
| | | | | | | | IRON ORE I | NDEX PRE | 1 | | NTS | | | | | | |
| August 14th | | e Conten | | Curani | | STOCK INDEX (F | RMB/WT) % Spread to K | ODICO | August 14th Index | 2019 | Fe Conte | nt | Cm- | SEABOR ad to IOSI62 | NE INDEX (US | SD/DMT) % Spread to | IUSIES |
| Index IOPI58 | | e Conten 3% Fe Fine | | • | to IOPI6: 63 | _ | -8.62% | | niue A | | i e conte | | 3hi e | 10 103102 | | ,₀ spiedu (C | |
| | | 5% Fe Fine | es | 9 | 92 | | 12.59% | | IOSI65 | | 65% Fe Fir | nes | | 12.25 | | 13.51 | % |

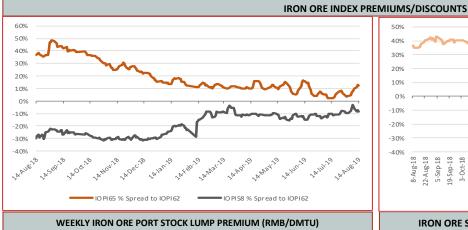




| IRON ORE BRAND SPOT PRICE ASSESMENTS | | | | | | | | | | |
|--------------------------------------|-------|----------------|----------------|-------------------------|--------|--------------------------|----------------|--|--|--|
| August 14th 2019 | PORT | STOCK INDEX (R | MB/WT) | August 14th 2019 | SEABC | SEABORNE INDEX (USD/DMT) | | | | |
| | Price | Change | Diff to IOPI62 | | Price | Change | Diff to IOSI62 | | | |
| Roy Hill | 694 | 9 | -37 | Roy Hill | 86.30 | 1.55 | -4.40 | | | |
| SIMEC Fines | 649 | 9 | -82 | SIMEC Fines | 83.32 | 2.07 | -7.38 | | | |
| PB Fines | 717 | 9 | -14 | PB Fines | 89.42 | 1.37 | -1.28 | | | |
| Newman Fines | 735 | 9 | 4 | Newman Fines | 92.81 | 0.82 | 2.11 | | | |
| MAC Fines | 705 | 9 | -26 | MAC Fines | 85.07 | 2.32 | -5.63 | | | |
| Jimblebar Blended Fines | 677 | 9 | -54 | Jimblebar Blended Fines | 74.37 | 3.60 | -16.33 | | | |
| Carajas Fines | 836 | 9 | 105 | Carajas Fines | 103.11 | 0.17 | 12.41 | | | |
| Brazilian SSF | 687 | 9 | -44 | Brazilian SSF | 92.26 | 1.57 | 1.56 | | | |
| Brazilian Blend Fines | 737 | 9 | 6 | Brazilian Blend Fines | 93.39 | 1.08 | 2.69 | | | |
| RTX Fines | 681 | 9 | -50 | RTX Fines | 81.27 | 2.30 | -9.43 | | | |
| West Pilbara Fines | 690 | 9 | -41 | West Pilbara Fines | 84.80 | 1.65 | -5.90 | | | |

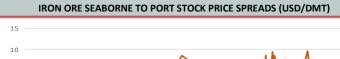
| August 14th 2019 | PORT | PORT STOCK INDEX (RMB/WT) | | | | | |
|-------------------|-------|---------------------------|----------------|--|--|--|--|
| | Price | Change | Diff to IOPI58 | | | | |
| SSF | 651 | 3 | -17 | | | | |
| FMG Blended Fines | 679 | 1 | 11 | | | | |
| Robe River | 649 | 2 | -19 | | | | |
| Western Fines | 656 | 2 | -12 | | | | |
| Atlas Fines | 643 | 1 | -25 | | | | |
| Yandi | 664 | -4 | -4 | | | | |

| | | | | IRON ORE II | NDEX NORMA | ALISATION DIFFER | ENTIALS | | | | |
|------------|---------------|---|------------|---------------------|-----------------|--|--------------|--|----------|--------|--------|
| Por | t Stock Index | Product Differ | entials (R | MB/wet tonne |) | Seaborne Index Product Differentials (USD/dry tonne) | | | | | |
| | Арі | plicable range | | Value | Change | | А | pplicable ran | ge | Value | Change |
| | High Grade | e Fe 60 - 63% | | 6.00 | 0.00 | | High Grad | de Fe 60 - 639 | % | 2.75 | -0.25 |
| | High Grade | e Fe 63 - 64% | | 20.00 | 0.00 | | High Grad | de Fe 63 - 649 | % | 2.25 | -0.25 |
| 1% Fe | High Grade | e Fe 64 - 65% | | 20.00 | 0.00 | 1% Fe | High Grad | de Fe 64 - 659 | % | 2.25 | -0.25 |
| | High Grade | High Grade Fe 65 - 65.5% | | | 0.00 | | High Grad | de Fe 65 - 65. | 5% | 2.25 | -0.25 |
| | Low Grade Fe | | | 8.00 | 0.00 | | | | | | |
| 1% Alumina | High Fe Gra | High Fe Grade Al <2.25% | | | 0.00 | | High Fe G | rade Al <2.25 | 5% | 2.75 | 0.00 |
| | High Fe Gra | High Fe Grade Al 2.25-4% | | 21.00 | 0.00 | 10/ 11 | High Fe G | rade Al 2.25- | 4% | 3.00 | -1.00 |
| | Low Fe Gra | de Al <2.25% | | 11.00 | -6.00 | 1% Alumina | | | | | |
| | Low Fe Gra | de Al 2.25-4% | | 4.00 | -3.00 | | | | | | |
| | High Fe Gra | ade Si <4% | | 10.00 | 0.00 | | High Fe G | rade Si <4% | | 1.25 | 0.00 |
| 1% Silica | High Fe Gra | High Fe Grade Si 4-6.5% | | | 36.00 0.00 | | High Fe G | High Fe Grade Si 4 - 6.5% | | 0.75 | -0.25 |
| | Low Fe Gra | de | | 10.00 | 0.00 | | | | | | |
| 0.01% | High Fe Gra | ade 0.09% <p<0< td=""><td>.115%</td><td>0.00</td><td>0.00</td><td>0.01%</td><td>High Fe G</td><td>rade 0.09%<</td><td>P<0.115%</td><td>0.50</td><td>-0.25</td></p<0<> | .115% | 0.00 | 0.00 | 0.01% | High Fe G | rade 0.09%< | P<0.115% | 0.50 | -0.25 |
| | High Fe Gra | ade 0.115% <p<< td=""><td>0.15%</td><td>6.00</td><td>0.00</td><td>Phosphorus</td><td>High Fe G</td><td colspan="2">High Fe Grade 0.115%<p<0.15%< td=""><td>1.25</td><td>0.25</td></p<0.15%<></td></p<<> | 0.15% | 6.00 | 0.00 | Phosphorus | High Fe G | High Fe Grade 0.115% <p<0.15%< td=""><td>1.25</td><td>0.25</td></p<0.15%<> | | 1.25 | 0.25 |
| Phosphorus | Low Fe Gra | de 0.09 <p<0.19< td=""><td>%</td><td>0.00</td><td>0.00</td><td></td><td></td><td></td><td></td><td></td><td></td></p<0.19<> | % | 0.00 | 0.00 | | | | | | |
| | | | Port S | itock Price Differe | ntials to Qingo | lao Port for PB Fines | s (RMB/wet t | onne) | | | |
| Port | Value | Change | Port | Value | Change | Port | Value | Change | Port | Value | Change |
| Bayuquan | -25.00 | 0.00 | Fangchen | g -5.00 | 0.00 | Lanshan | 0.00 | 0.00 | Qingdao | 0.00 | 0.00 |
| Beilun | 5.00 | 0.00 | Jiangyin | -40.00 | 0.00 | Lianyungang | 0.00 | 0.00 | Rizhao | 0.00 | 0.00 |
| Caofeidian | -20.00 | 0.00 | Jingtang | -20.00 | 0.00 | Majishan | 0.00 | 0.00 | Shekou | 0.00 | 0.00 |
| Dalian | -40.00 | 0.00 | Lanqiao | 0.00 | 0.00 | Nantong | -40.00 | 0.00 | Tianjin | -35.00 | 0.00 |

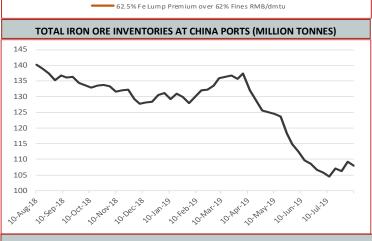










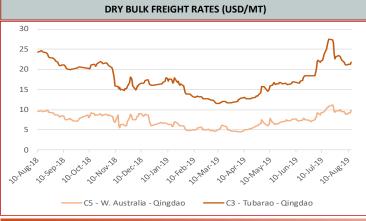




| l | IRON ORE PORT INVENTORIES (MILLION TONNES) | | | | | | | | | | |
|------------------------------|--|----------|------------------|-------------------|--|--|--|--|--|--|--|
| Week Ending August 9th, 2019 | | | | | | | | | | | |
| Province | This week | Change % | Low ² | High ² | | | | | | | |
| Jingtang | 12.30 | -2.92% | 10.80 | 16.70 | | | | | | | |
| Qingdao | 13.07 | 3.16% | 12.38 | 19.01 | | | | | | | |
| Caofeidian | 14.61 | -4.01% | 14.48 | 20.10 | | | | | | | |
| Tianjin | 7.04 | 2.92% | 6.39 | 10.40 | | | | | | | |
| Rizhao | 11.81 | -4.91% | 11.65 | 17.39 | | | | | | | |
| Total (35 Ports) | 107.84 | -1.19% | 104.40 | 140.16 | | | | | | | |
| | | | | | | | | | | | |

| | D | CE (RMB/WN | IT) | SGX (USD/DMT) | | | |
|----------------------------|--------|--------------|----------|------------------|--------|----------|--|
| Closing Date | Au | g 14th 3pm c | lose | Aug 14th 5.30 pm | | | |
| Contract | 12001 | Change | Change % | Sep'19 | Change | Change % | |
| Closing Price | 631.50 | 4.0 | 0.64% | 88.26 | 2.04 | 2.37% | |
| Vol traded ('000 lots) | 278.38 | -12.1 | -4.16% | 16.79 | -4.29 | -20.35% | |
| Open positions ('000 lots) | 134.94 | -5.6 | -3.97% | 160.70 | -4.36 | -2.64% | |
| Day Low | 624.0 | 8.0 | 1.30% | 88.18 | 2.85 | 3.34% | |
| Day High | 646.0 | 3.0 | 0.47% | 90.25 | 2.21 | 2.51% | |

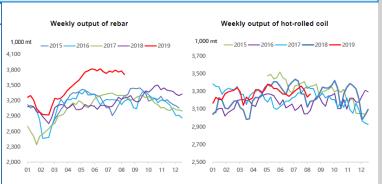
IRON ORE FUTURES CONTRACTS





STEEL SPOT MARKET PRICES—CHINA

| Steel Spot Market RMB/tonne | | | | | | | | | |
|---------------------------------|----------|--------|----------|--|--|--|--|--|--|
| Product | 9/8/2019 | Change | Change % | | | | | | |
| ReBar HRB400 ¢18mm | 3,700.0 | -160 | -4.15% | | | | | | |
| Wirerod Q300 φ6.5mm | 3,960.0 | -160 | -3.88% | | | | | | |
| HRC Q235/SS400 5.5mm*1500*C | 3,650.0 | -120 | -3.18% | | | | | | |
| CRC SPCC/ST12 1.0mm*1250*2500 | 4,220.0 | -20 | -0.47% | | | | | | |
| Medium & Heavy Plate Q235B 20mm | 3,820.0 | -50 | -1.29% | | | | | | |
| GI ST02Z 1.0mm*1000*C | 4,520.0 | -30 | -0.66% | | | | | | |
| Colour Coated Plate | 7,100.0 | 50 | 0.71% | | | | | | |



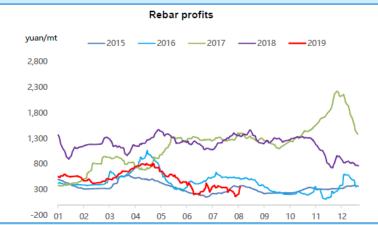
| CHINESE STEEL MILL PROFITABILITY | | | | | | | | | |
|--|-------|--------------|---|--|--|--|--|--|--|
| SMM Tracking of Steel Mill P&L - Rebar and Hot-rolled Coil (RMB/tonne) | | | | | | | | | |
| Category | Price | Change (WoW) | Note | | | | | | |
| MMi (Fe 62%), USD/mt exluding tax | 95.80 | -21.95 | Mmi CFR Equivalent index for 1st Feb | | | | | | |
| Coke | 2,010 | 0 | 2nd grade met coke, Tangshan, incl. tax | | | | | | |
| Steel Scrap | 2,360 | -60 | steel scrap (6mm) in Zhangjiagang, exl. tax | | | | | | |
| Billet Cost | 3,160 | -420 | Q234, incl. tax | | | | | | |
| Rebar cost - Blast furnace | 3,411 | -222 | calculated based on theoretical weight, incl. tax | | | | | | |
| Rebar profit - Blast furnace | 259 | 92 | based on Shanghai prices, incl. tax | | | | | | |
| Hot-rolled coil cost - Blast furnace | 3,477 | -252 | based on actual w eight, incl. tax | | | | | | |
| Hot-rolled coil proft - Blast furnace | 173 | 132 | based on Shanghai prices, incl. tax | | | | | | |
| | | | | | | | | | |

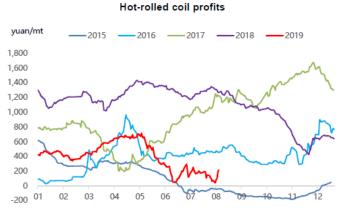
Note: 1 Costs in the table are caluclated based on todays market prices and facout our management, sales, financial and depreciations fees.

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

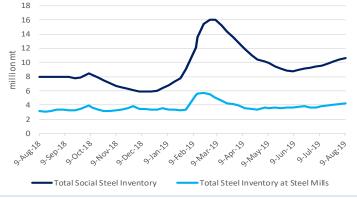


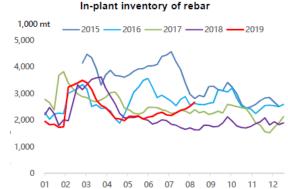
CHINESE STEEL MILL PROFITABILITY





CHINESE STEEL INVENTORIES





| IRON ORE INDEX SPECIFICATIONS. | COMPILATION RATIONALE AND DATA EXCLUSIONS |
|--------------------------------|---|
| | |

| | IRON ORE INDEX SPECIFICATIONS, COMPILATION RATIONALE AND DATA EXCLUSIONS | | | | | | | | | | | | |
|-------------------|--|-----------------------|--------------------|----------------------------|--|----------------------|-----------------------|------------------|--|--|--|--|--|
| | Iron Ore | Index Specifications | (Port and Seaborne |) | Iron Ore Ind | ex Compilation | Rationale and Da | ata Exclusions | | | | | |
| | 65% Fe Fines | 62% Fe Fines | 58% Fe Fines | 62.5% Fe Lump | MMi iron ore indice | es are compiled fron | n data provided by co | mpanies that are | | | | | |
| Fe % | 65.00 | 62.00 | 58.00 | 62.50 | 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 | | | | | | | | |
| Alumina % | 1.40 | 2.25 | 2.25 | 1.50 | these companies. This data is normalised to the appropriate specifications and | | | | | | | | |
| Silica% | 1.50 | 4.00 | 5.50 | 3.50 | screened to remove outliers before volume-weighted average prices are 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 | | | | | | | | |
| Sulphur % | 0.01 | 0.02 | 0.02 | 0.02 | published on our website at: www.mmiprices.com | | | | | | | | |
| Moisture % | 8.00 | 8.00 | 9.00 | 4.00 | | | | | | | | | |
| | Granular size he | elow 10mm for at lea | ist 90% of cargo. | Size below 6.3mm max 15% | | Data Ex | clusions* | 65% | | | | | |
| Sizing | | ım of 40% below 150 | • | Size above 31.15mm max 25% | Port Index Seaborne index | 0 | 0 | 0 0 | | | | | |
| Pricing Point | Qingdao Port (FOT and CFR respectively) | | | FOT Qingdao Port | Lump Index 62.5 | 0 | | | | | | | |
| Timing (Seaborne) | Loading withi | n 4 weeks, Delivery v | vithin 8 weeks | Delivery within 2 weeks | * Number of price submissions for iron ore indices that were excluded from | | | | | | | | |
| Payment Terms | L/C at sight L/C at sight or CAD index calculations today as they were anomalous and could not | | | | | | 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.

| | | SSESSMEN | TS | | | | | | | | |
|-------------------------|---------|----------------|------------|-------------|----------|-------------------------|---------|---------------|------------|-------------|----------|
| | PORT | STOCK BRAN | IDS | | | SEABORNE BRANDS | | | | | |
| August 14th 2019 | Specifi | cations applie | ed for 62% | brand asses | sments | | Specifi | cations appli | ed for 62% | brand asses | sments |
| | Fe | Alumina | Silica | Phos | Moisture | | Fe | Alumina | Silica | Phos | Moisture |
| Roy Hill | 61.16% | 2.25% | 4.61% | 0.052% | 9.35% | 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 | 61.49% | 2.36% | 3.83% | 0.100% | 9.38% | PB Fines 62% | 62.00% | 2.60% | 4.30% | 0.090% | 10.00% |
| Newman Fines | 62.54% | 2.26% | 4.00% | 0.081% | 7.87% | Newman Fines | 62.80% | 2.20% | 4.30% | 0.080% | 6.40% |
| MAC Fines | 60.86% | 2.24% | 4.64% | 0.080% | 7.59% | MAC Fines | 61.00% | 2.70% | 4.70% | 0.110% | 9.30% |
| Jimblebar Blended Fines | 60.83% | 2.99% | 4.45% | 0.114% | 7.34% | Jimblebar Blended Fines | 59.50% | 3.70% | 5.80% | 0.135% | 8.30% |
| Carajas Fines | 65.57% | 1.24% | 1.39% | 0.068% | 8.37% | 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 | 63.04% | 1.56% | 4.36% | 0.078% | 8.71% | 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% |
| 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% |
| August 14th 2019 | Specifi | cations appli | ed for 58% | brand asses | sments | | | | | | |
| | Fe | Alumina | Silica | Phos | Moisture | | | | | | |
| SSF | 56.66% | 3.08% | 6.34% | 0.059% | 8.26% | | | | | | |
| FMG Blended Fines | 58.22% | 2.58% | 5.47% | 0.061% | 7.65% | | | | | | |
| Robe River | 56.28% | 2.91% | 5.58% | 0.035% | 9.29% | | | | | | |
| Western Fines | 57.88% | 2.87% | 7.50% | 0.062% | 7.45% | | | | | | |
| Atlas Fines | 56.59% | 2.55% | 7.14% | 0.080% | 8.46% | | | | | | |
| Yandi | 57.32% | 1.50% | 6.32% | 0.041% | 8.83% | | | | | | |

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

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