

## CONTRACT SPECIFICATIONS – FUTURES

| FUTURES CONTRACT             | COPPER   | GOLD   | PLATINUM  | SILVER   | PALLADIUM  |
|------------------------------|--|--|---|--|--|
| <b>Trading system code</b>   | COPP   | GOLD   | PLAT  | SILV   | PALL   |
| <b>Trading hours</b>         | 08h30 to 17h00 South African time. Admin period from 17h00 to 17h15. (Monday to Friday except South African National Holidays)   |  |   |  |  |
| <b>Underlying instrument</b> | A copper futures contract meeting all specifications as listed and traded on NYMEX through its COMEX Division, a subsidiary of the CME Group Inc. The JSE reserves the right to amend the contract specifications including settlement methodology should this be amended by the reference exchange. | A gold futures contract meeting all specifications as listed and traded on NYMEX through its COMEX Division, a subsidiary of the CME Group Inc. The JSE reserves the right to amend the contract specifications including settlement methodology should this be amended by the reference exchange. | A platinum futures contract meeting all specifications as listed and traded on NYMEX, a subsidiary of the CME Group Inc. The JSE reserves the right to amend the contract specifications including settlement methodology should this be amended by the reference exchange. | A silver futures contract meeting all specifications as listed and traded on NYMEX through its COMEX Division, a subsidiary of the CME Group Inc. The JSE reserves the right to amend the contract specifications including settlement methodology should this be amended by the reference exchange. | A palladium futures contract meeting all specifications as listed and traded on NYMEX, a subsidiary of the CME Group Inc. The JSE reserves the right to amend the contract specifications including settlement methodology should this be amended by the reference exchange. |
| <b>Contract months</b>       | March, June, September and December.   | March, June, September and December.   | March, June, September and December.  | March, June, September and December.   | March, June, September and December.   |
| <b>Contract size</b>         | 1 contract = 2500 pounds. (or 1,134 metric tons)   | 1 contract = 10 troy ounces.   | 1 contract = 10 troy ounces.  | 1 contract = 500 troy ounces.  | 1 contract = 10troy ounces   |
| <b>Quotations</b>            | In South African Rand per pound.   | In South African Rand per troy ounce.  | In South African Rand per troy ounce.   | In South African Rand per troy ounce.  | In South African Rand per troy ounce.  |

| FUTURES CONTRACT  | COPPER  | GOLD                | PLATINUM           | SILVER                   | PALLADIUM          |     |     |     |     |     |     |  |            |                |     |     |     |     |     |     |     |     |  |            |                    |     |     |     |     |     |     |     |     |  |            |                  |     |     |     |     |     |     |     |     |  |            |                     |     |      |     |     |     |     |     |     |
|---|---|---------------------|--------------------|--------------------------|--------------------|-----|-----|-----|-----|-----|-----|--|------------|----------------|-----|-----|-----|-----|-----|-----|-----|-----|--|------------|--------------------|-----|-----|-----|-----|-----|-----|-----|-----|--|------------|------------------|-----|-----|-----|-----|-----|-----|-----|-----|--|------------|---------------------|-----|------|-----|-----|-----|-----|-----|-----|
| <b>Minimum price movement</b>   | 0.05 ZAR per pound.   | 1.00 ZAR per ounce. | 1.00 ZAR per ounce | 0.05 ZAR per troy ounce. | 1.00 ZAR per ounce |     |     |     |     |     |     |  |            |                |     |     |     |     |     |     |     |     |  |            |                    |     |     |     |     |     |     |     |     |  |            |                  |     |     |     |     |     |     |     |     |  |            |                     |     |      |     |     |     |     |     |     |
| <b>Listing programme</b>  | Ensure a minimum of two expiries are always available for trade.  |                     |                    |                          |                    |     |     |     |     |     |     |  |            |                |     |     |     |     |     |     |     |     |  |            |                    |     |     |     |     |     |     |     |     |  |            |                  |     |     |     |     |     |     |     |     |  |            |                     |     |      |     |     |     |     |     |     |
| <b>Expiry dates &amp; times</b> ( see the <b>product trading calendar on the web page</b> <a href="http://www.jse.co.za/commodities">www.jse.co.za/commodities</a> for the detailed trading calendar) | <p>Expiry dates will mirror the JSE currency futures contract. In terms of the CME expiry months referenced for market making purposes, the following will be used:</p> <table border="1" data-bbox="320 802 633 1018"> <thead> <tr> <th>JSE Expiry</th> <th>Copper Reference</th> </tr> </thead> <tbody> <tr> <td>Mar</td> <td>May</td> </tr> <tr> <td>Jun</td> <td>Jul</td> </tr> <tr> <td>Sep</td> <td>Dec</td> </tr> <tr> <td>Dec</td> <td>Mar</td> </tr> </tbody> </table>   | JSE Expiry          | Copper Reference   | Mar                      | May                | Jun | Jul | Sep | Dec | Dec | Mar | <p>Expiry dates will mirror the JSE currency futures contract. In terms of the CME expiry months referenced for market making purposes, the following will be used:</p> <table border="1" data-bbox="656 778 958 994"> <thead> <tr> <th>JSE Expiry</th> <th>Gold Reference</th> </tr> </thead> <tbody> <tr> <td>Mar</td> <td>Apr</td> </tr> <tr> <td>Jun</td> <td>Aug</td> </tr> <tr> <td>Sep</td> <td>Oct</td> </tr> <tr> <td>Dec</td> <td>Feb</td> </tr> </tbody> </table> | JSE Expiry | Gold Reference | Mar | Apr | Jun | Aug | Sep | Oct | Dec | Feb | <p>Expiry dates will mirror the JSE currency futures contract. In terms of the CME expiry months referenced for market making purposes, the following will be used:</p> <table border="1" data-bbox="1003 778 1305 994"> <thead> <tr> <th>JSE Expiry</th> <th>Platinum Reference</th> </tr> </thead> <tbody> <tr> <td>Mar</td> <td>Apr</td> </tr> <tr> <td>Jun</td> <td>Jul</td> </tr> <tr> <td>Sep</td> <td>Oct</td> </tr> <tr> <td>Dec</td> <td>Jan</td> </tr> </tbody> </table> | JSE Expiry | Platinum Reference | Mar | Apr | Jun | Jul | Sep | Oct | Dec | Jan | <p>Expiry dates will mirror the JSE currency futures contract. In terms of the CME expiry months referenced for market making purposes, the following will be used:</p> <table border="1" data-bbox="1364 778 1666 994"> <thead> <tr> <th>JSE Expiry</th> <th>Silver Reference</th> </tr> </thead> <tbody> <tr> <td>Mar</td> <td>May</td> </tr> <tr> <td>Jun</td> <td>Jul</td> </tr> <tr> <td>Sep</td> <td>Dec</td> </tr> <tr> <td>Dec</td> <td>Mar</td> </tr> </tbody> </table> | JSE Expiry | Silver Reference | Mar | May | Jun | Jul | Sep | Dec | Dec | Mar | <p>Expiry dates will mirror the JSE currency futures contract. In terms of the CME expiry months referenced for market making purposes, the following will be used:</p> <table border="1" data-bbox="1769 778 2072 994"> <thead> <tr> <th>JSE Expiry</th> <th>Palladium Reference</th> </tr> </thead> <tbody> <tr> <td>Mar</td> <td>June</td> </tr> <tr> <td>Jun</td> <td>Sep</td> </tr> <tr> <td>Sep</td> <td>Dec</td> </tr> <tr> <td>Dec</td> <td>Mar</td> </tr> </tbody> </table> | JSE Expiry | Palladium Reference | Mar | June | Jun | Sep | Sep | Dec | Dec | Mar |
| JSE Expiry  | Copper Reference  |                     |                    |                          |                    |     |     |     |     |     |     |  |            |                |     |     |     |     |     |     |     |     |  |            |                    |     |     |     |     |     |     |     |     |  |            |                  |     |     |     |     |     |     |     |     |  |            |                     |     |      |     |     |     |     |     |     |
| Mar   | May   |                     |                    |                          |                    |     |     |     |     |     |     |  |            |                |     |     |     |     |     |     |     |     |  |            |                    |     |     |     |     |     |     |     |     |  |            |                  |     |     |     |     |     |     |     |     |  |            |                     |     |      |     |     |     |     |     |     |
| Jun   | Jul   |                     |                    |                          |                    |     |     |     |     |     |     |  |            |                |     |     |     |     |     |     |     |     |  |            |                    |     |     |     |     |     |     |     |     |  |            |                  |     |     |     |     |     |     |     |     |  |            |                     |     |      |     |     |     |     |     |     |
| Sep   | Dec   |                     |                    |                          |                    |     |     |     |     |     |     |  |            |                |     |     |     |     |     |     |     |     |  |            |                    |     |     |     |     |     |     |     |     |  |            |                  |     |     |     |     |     |     |     |     |  |            |                     |     |      |     |     |     |     |     |     |
| Dec   | Mar   |                     |                    |                          |                    |     |     |     |     |     |     |  |            |                |     |     |     |     |     |     |     |     |  |            |                    |     |     |     |     |     |     |     |     |  |            |                  |     |     |     |     |     |     |     |     |  |            |                     |     |      |     |     |     |     |     |     |
| JSE Expiry  | Gold Reference  |                     |                    |                          |                    |     |     |     |     |     |     |  |            |                |     |     |     |     |     |     |     |     |  |            |                    |     |     |     |     |     |     |     |     |  |            |                  |     |     |     |     |     |     |     |     |  |            |                     |     |      |     |     |     |     |     |     |
| Mar   | Apr   |                     |                    |                          |                    |     |     |     |     |     |     |  |            |                |     |     |     |     |     |     |     |     |  |            |                    |     |     |     |     |     |     |     |     |  |            |                  |     |     |     |     |     |     |     |     |  |            |                     |     |      |     |     |     |     |     |     |
| Jun   | Aug   |                     |                    |                          |                    |     |     |     |     |     |     |  |            |                |     |     |     |     |     |     |     |     |  |            |                    |     |     |     |     |     |     |     |     |  |            |                  |     |     |     |     |     |     |     |     |  |            |                     |     |      |     |     |     |     |     |     |
| Sep   | Oct   |                     |                    |                          |                    |     |     |     |     |     |     |  |            |                |     |     |     |     |     |     |     |     |  |            |                    |     |     |     |     |     |     |     |     |  |            |                  |     |     |     |     |     |     |     |     |  |            |                     |     |      |     |     |     |     |     |     |
| Dec   | Feb   |                     |                    |                          |                    |     |     |     |     |     |     |  |            |                |     |     |     |     |     |     |     |     |  |            |                    |     |     |     |     |     |     |     |     |  |            |                  |     |     |     |     |     |     |     |     |  |            |                     |     |      |     |     |     |     |     |     |
| JSE Expiry  | Platinum Reference  |                     |                    |                          |                    |     |     |     |     |     |     |  |            |                |     |     |     |     |     |     |     |     |  |            |                    |     |     |     |     |     |     |     |     |  |            |                  |     |     |     |     |     |     |     |     |  |            |                     |     |      |     |     |     |     |     |     |
| Mar   | Apr   |                     |                    |                          |                    |     |     |     |     |     |     |  |            |                |     |     |     |     |     |     |     |     |  |            |                    |     |     |     |     |     |     |     |     |  |            |                  |     |     |     |     |     |     |     |     |  |            |                     |     |      |     |     |     |     |     |     |
| Jun   | Jul   |                     |                    |                          |                    |     |     |     |     |     |     |  |            |                |     |     |     |     |     |     |     |     |  |            |                    |     |     |     |     |     |     |     |     |  |            |                  |     |     |     |     |     |     |     |     |  |            |                     |     |      |     |     |     |     |     |     |
| Sep   | Oct   |                     |                    |                          |                    |     |     |     |     |     |     |  |            |                |     |     |     |     |     |     |     |     |  |            |                    |     |     |     |     |     |     |     |     |  |            |                  |     |     |     |     |     |     |     |     |  |            |                     |     |      |     |     |     |     |     |     |
| Dec   | Jan   |                     |                    |                          |                    |     |     |     |     |     |     |  |            |                |     |     |     |     |     |     |     |     |  |            |                    |     |     |     |     |     |     |     |     |  |            |                  |     |     |     |     |     |     |     |     |  |            |                     |     |      |     |     |     |     |     |     |
| JSE Expiry  | Silver Reference  |                     |                    |                          |                    |     |     |     |     |     |     |  |            |                |     |     |     |     |     |     |     |     |  |            |                    |     |     |     |     |     |     |     |     |  |            |                  |     |     |     |     |     |     |     |     |  |            |                     |     |      |     |     |     |     |     |     |
| Mar   | May   |                     |                    |                          |                    |     |     |     |     |     |     |  |            |                |     |     |     |     |     |     |     |     |  |            |                    |     |     |     |     |     |     |     |     |  |            |                  |     |     |     |     |     |     |     |     |  |            |                     |     |      |     |     |     |     |     |     |
| Jun   | Jul   |                     |                    |                          |                    |     |     |     |     |     |     |  |            |                |     |     |     |     |     |     |     |     |  |            |                    |     |     |     |     |     |     |     |     |  |            |                  |     |     |     |     |     |     |     |     |  |            |                     |     |      |     |     |     |     |     |     |
| Sep   | Dec   |                     |                    |                          |                    |     |     |     |     |     |     |  |            |                |     |     |     |     |     |     |     |     |  |            |                    |     |     |     |     |     |     |     |     |  |            |                  |     |     |     |     |     |     |     |     |  |            |                     |     |      |     |     |     |     |     |     |
| Dec   | Mar   |                     |                    |                          |                    |     |     |     |     |     |     |  |            |                |     |     |     |     |     |     |     |     |  |            |                    |     |     |     |     |     |     |     |     |  |            |                  |     |     |     |     |     |     |     |     |  |            |                     |     |      |     |     |     |     |     |     |
| JSE Expiry  | Palladium Reference   |                     |                    |                          |                    |     |     |     |     |     |     |  |            |                |     |     |     |     |     |     |     |     |  |            |                    |     |     |     |     |     |     |     |     |  |            |                  |     |     |     |     |     |     |     |     |  |            |                     |     |      |     |     |     |     |     |     |
| Mar   | June  |                     |                    |                          |                    |     |     |     |     |     |     |  |            |                |     |     |     |     |     |     |     |     |  |            |                    |     |     |     |     |     |     |     |     |  |            |                  |     |     |     |     |     |     |     |     |  |            |                     |     |      |     |     |     |     |     |     |
| Jun   | Sep   |                     |                    |                          |                    |     |     |     |     |     |     |  |            |                |     |     |     |     |     |     |     |     |  |            |                    |     |     |     |     |     |     |     |     |  |            |                  |     |     |     |     |     |     |     |     |  |            |                     |     |      |     |     |     |     |     |     |
| Sep   | Dec   |                     |                    |                          |                    |     |     |     |     |     |     |  |            |                |     |     |     |     |     |     |     |     |  |            |                    |     |     |     |     |     |     |     |     |  |            |                  |     |     |     |     |     |     |     |     |  |            |                     |     |      |     |     |     |     |     |     |
| Dec   | Mar   |                     |                    |                          |                    |     |     |     |     |     |     |  |            |                |     |     |     |     |     |     |     |     |  |            |                    |     |     |     |     |     |     |     |     |  |            |                  |     |     |     |     |     |     |     |     |  |            |                     |     |      |     |     |     |     |     |     |
| <b>Determination of final cash settlement value</b>   | <p>The final settlement price for <b>cash settlement</b> of the contract will require two components, a CME Group settlement value and a Dollar Rand exchange rate.</p> <p>The CME Group settlement value will refer to an average of <b>15 iterations</b> referencing trades in the underlying derivative contract, taken every 1 minute for a period of 15 minutes ending 10h00 New York time (SA Summer: 16h46 – 17h00 and SA Winter: 15h46 – 16h00) on the business day aligned to the currency futures expiry date.</p> <p>The Dollar Rand exchange rate required to determine the final settlement price in South African Rands will be the same rate as calculated for the applicable currency futures contract, namely: a 5 minute process with iterations recorded every 30 seconds where the last spot trade within the 30 second interval will be recorded and then averaged over the 5 minute period. The close out process will run from 09h55 to 10h00 New York time. The expiry day will be two business days prior to the 3rd Wednesday of the expiry month (or the previous business day if that day is a public holiday).</p> <p>The two variables are calculated to 4 decimals and rounded off to 2 decimals for the final Rand settlement value.</p> <p>The final calculated Rand settlement value will be publish via the trading system (NUTRON) and included in the end of day settlement prices <u>on expiry day</u>.</p> |                     |                    |                          |                    |     |     |     |     |     |     |  |            |                |     |     |     |     |     |     |     |     |  |            |                    |     |     |     |     |     |     |     |     |  |            |                  |     |     |     |     |     |     |     |     |  |            |                     |     |      |     |     |     |     |     |     |

| FUTURES CONTRACT                                  | COPPER   | GOLD                  | PLATINUM             | SILVER              | PALLADIUM            |
|---|--|-----------------------|----------------------|---------------------|----------------------|
|   | In the event that any of the reference markets are not available to determine the final settlement value, the JSE will consider all relevant facts, information and circumstances to determine the final cash settlement value in order to ensure that it reflects a fair market value.  |                       |                      |                     |                      |
| <b>Settlement method</b>                          | Cash settled in South African Rands (ZAR).   |                       |                      |                     |                      |
| <b>Initial margin requirements</b>                | As per the JSE margining methodology, for the latest initial margin requirements per contract please visit the products page on the web: <a href="https://www.jse.co.za/downloadable-files?RequestNode=/Safex/APD%20Margin%20Requirements">https://www.jse.co.za/downloadable-files?RequestNode=/Safex/APD%20Margin%20Requirements</a>   |                       |                      |                     |                      |
| <b>Daily mark-to-market</b>                       | As determined by the JSE, a snapshot from trading activity in the last 5 minutes will be considered for the daily m-t-m.   |                       |                      |                     |                      |
| <b>Exchange fees (incl. VAT)</b>                  | R 10.70 per contract   | R 13.90 per contract. | R 13.90 per contract | R13.90 per contract | R 13.90 per contract |
| <b>Daily price limits</b>                         | No price limits will be applicable   |                       |                      |                     |                      |
| <b>Position limits</b>                            | No position limits in South Africa however the JSE reserves the right to implement such.   |                       |                      |                     |                      |
| <b>Volatility scanning range</b>                  | 3.5  |                       |                      |                     |                      |
| <b>Qualifying audience allowed to participate</b> | <ul style="list-style-type: none"> <li>• Individuals and Foreigners have no limits.</li> <li>• Corporate entities have no limits.</li> <li>• Retirement funds and long term insurance companies subject to their 25% foreign allocation limits.</li> <li>• Investment managers and registered collective investment schemes subject to their 35% foreign allocation limits.</li> </ul> |                       |                      |                     |                      |
| <b>Trade types accommodated</b>                   | All trading activity (bids and offers) must be entered onto the central order book during trading hours however the JSE will accommodate the following report only trade types provided they meet the existing criteria:   |                       |                      |                     |                      |

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|------------------|--|------|----------|--------|-----------|
|                  | <ul style="list-style-type: none"> <li>• Exchange for Risk (EFR's).</li> <li>• Net-off of positions applicable to the same legal entity.</li> </ul> <p>The JSE will accept transactions specific to the contract outside of the standard trading hours as agreed between registered counterparties. A minimum contract volume of 30 contracts will be required in order for this transaction to be processed. These transactions must be reported to the JSE before 07h30 the following morning and must be market related – the transactions will then be entered into the order book by the JSE before market opens.</p> |      |          |        |           |

#### CONTRACT SPECIFICATIONS – OPTIONS

| OPTIONS CONTRACT             | COPPER   | GOLD                          | PLATINUM                        | SILVER                         | PALLADIUM                        |
|------------------------------|--|-------------------------------|---------------------------------|--------------------------------|----------------------------------|
| <b>Trading system code</b>   | COPP   | GOLD                          | PLAT                            | SILV                           | PALL                             |
| <b>Trading hours</b>         | 08h30 to 17h00 South African time. Admin period from 17h00 to 17h15. (Monday to Friday except South African National Holidays) |                               |                                 |                                |                                  |
| <b>Underlying instrument</b> | A JSE Copper Futures contract  | A JSE Gold Futures contract   | A JSE Platinum futures contract | A JSE Silver Futures Contract  | A JSE Palladium futures contract |
| <b>Options Type</b>          | American style options   |                               |                                 |                                |                                  |
| <b>Contract size</b>         | One contract = 2500 pounds   | One contract = 10 troy ounces | One contract = 10 troy ounces   | One contract = 500 troy ounces | One contract = 10 troy ounces    |

| OPTIONS CONTRACT                                  | COPPER   | GOLD  | PLATINUM  | SILVER  | PALLADIUM   |
|---|--|---|---|---|---|
| <b>Contract months</b>                            | March, June, September and December  | March, June, September and December   | March, June, September and December   | March, June, September and December   | March, June, September and December   |
| <b>Price Quotation</b>                            | Options will be quoted in Rands (ZAR) <b>per contract</b>  |   |   |   |   |
| <b>Strike price intervals</b>                     | R1.00 per pound strike price intervals   | R100.00 per ounce strike price intervals  | R100.00 per ounce strike price intervals.   | R10.00 per ounce strike price intervals.  | R100.00 per ounce strike price intervals.   |
| <b>Expiration of trading</b>                      | Options will expire on the same day as the listed futures contract and reference the published closing price in order to determine if the option strike is in the money.   |   |   |   |   |
| <b>Exercise Criteria</b>                          | Options are American style with the long position holder able to exercise the option position at any time during trading hours up to and including the expiration date. All in the money options will be automatically exercised by the JSE at expiration. |   |   |   |   |
| <b>Daily Mark-to-market</b>                       | The JSE will determine the daily m-t-m in accordance with the defined processes. The JSE reserves the right to introduce a volatility surface.   |   |   |   |   |
| <b>Settlement Method</b>                          | Cash settled in South African Rand (ZAR).  |   |   |   |   |
| <b>Exchange Fees</b>                              | R6.41 per contract (incl Vat), all options exercised into futures will not be charged a JSE fee, if exercised early the trades should not be included in any post trade activity to realise this benefit.  | R8.55 per contract (incl Vat), all options exercised into futures will not be charged a JSE fee, if exercised early the trades should not be included in any post trade activity to realise this benefit. | R8.55 per contract (incl Vat), all options exercised into futures will not be charged a JSE fee, if exercised early the trades should not be included in any post trade activity to realise this benefit. | R8.55 per contract (incl Vat), all options exercised into futures will not be charged a JSE fee, if exercised early the trades should not be included in any post trade activity to realise this benefit. | R8.55 per contract (incl Vat), all options exercised into futures will not be charged a JSE fee, if exercised early the trades should not be included in any post trade activity to realise this benefit. |
| <b>Qualifying audience allowed to participate</b> | <ul style="list-style-type: none"> <li>• Individuals and Foreigners have no limits.</li> <li>• Corporate entities have no limits.</li> <li>• Retirement funds and long term insurance companies subject to their 25% foreign allocation limits.</li> </ul> |   |   |   |   |

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|---------------------------------|--|------|----------|--------|-----------|
|                                 | <ul style="list-style-type: none"> <li>Investment managers and registered collective investment schemes subject to their 35% foreign allocation limits.</li> </ul>   |      |          |        |           |
| <b>Trade types accommodated</b> | <p>All trading activity (bids and offers) must be entered onto the central order book during trading hours however the JSE will accommodate the following report only trade types provided they meet the existing criteria:</p> <ul style="list-style-type: none"> <li>Exchange for Risk (EFR's).</li> <li>Net-off of positions applicable to the same legal entity.</li> </ul> <p>The JSE will accept transactions specific to the contract outside of the standard trading hours as agreed between registered counterparties. A minimum contract volume of 30 contracts will be required in order for this transaction to be processed. These transactions must be reported to the JSE before 07h30 the following morning and must be market related – the transactions will then be entered into the order book by the JSE before market opens.</p> |      |          |        |           |