

Shu Powders Africa PTY. LTD  
 Logra Industrial Park, No.40 Track 94040, Harrison Flats  
 Old Main Road, Cato Ridge, KwaZulu Natal 3680 South Africa  
 Postnet Suite 10015, Private Bag X7005, Hillcrest, 3650

Vat No: 4150236521 CK No: 2007/000865/07

## SOFT GRANULATED SUB MICRON COBALT POWDER - IGI

| SHU CODE   | REVISION | DATE        |
|------------|----------|-------------|
| S-GSMS-IGI | 2        | Feb 7, 2024 |

| Physical and chemical data:  | Chemical Analysis  |                  |
|--|--|------------------|
|  | <ul style="list-style-type: none"> <li>◇ Appearance: Granules made from sub-micron cobalt powder and an organic binder</li> <li>◇ Atomic weight : 58.93</li> <li>◇ Atomic number : 27</li> <li>◇ Insoluble in water</li> <li>◇ Soluble in acids</li> </ul> | Co%              |
| <b>Packing:</b> <ul style="list-style-type: none"> <li>◇ Steel drums, with inner bag, palletized</li> <li>◇ standard packaging<br/>20 Kg net</li> <li>◇ optional packaging<br/>1000 Kg net in customers' IBC</li> <li>◇ Strip on Drum - Peach</li> </ul> | Element  | Typical Unit (%) |
|  | Al   | 0.002            |
|  | Ca   | 0.002            |
|  | C  | 0.040            |
|  | Cu   | 0.002            |
|  | Cr   | 0.002            |
|  | Fe   | 0.002            |
|  | Mg   | 0.002            |
|  | Mn   | 0.001            |
|  | Na   | 0.003            |
|  | Ni   | 0.003            |
|  | Si   | 0.003            |
|  | Zn   | 0.002            |
|  | S  | 0.003            |
|  | Oxygen   | 0.5 – 0.6        |
|  | <b>Physical Analysis</b>   |                  |
|  | FSSS   | 0.7 -0.9 μm      |
|  | Wax  | 5.5%-6.5%        |
| <b>Material Safety Data Sheet:</b> <ul style="list-style-type: none"> <li>◇ Available upon request.</li> </ul>   |  |                  |

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## SOFT GRANULATED SUB MICRON COBALT POWDER - PEG

| SHU CODE  | REVISION | DATE        |
|-----------|----------|-------------|
| G-SMS-PEG | 2        | Feb 7, 2024 |

| Physical and chemical data:               | Chemical Analysis   |                     |
|---|---|---------------------|
|   | ◇ Appearance: Granules made from sub-micron cobalt powder and an organic binder | Co%<br>Main content |
| ◇ Atomic weight : 58.93                   | Element   | Typical Unit (%)    |
| ◇ Atomic number : 27                      | Al  | 0.002               |
| ◇ Insoluble in water                      | Ca  | 0.002               |
| ◇ Soluble in acids                        | C   | 0.040               |
|   | Cu  | 0.002               |
|   | Cr  | 0.002               |
|   | Fe  | 0.002               |
|   | Mg  | 0.002               |
|   | Mn  | 0.001               |
|   | Na  | 0.003               |
|   | Ni  | 0.003               |
|   | Si  | 0.003               |
|   | Zn  | 0.002               |
|   | S   | 0.003               |
|   | Oxygen  | 0.5 – 0.6           |
|   | Physical Analysis   |                     |
|   | FSSS  | 0.7 -0.9 μm         |
|   | PEG   | 5.5%-6.5%           |
| <b>Packing:</b>                           |   |                     |
| ◇ Steel drums, with inner bag, palletized |   |                     |
| ◇ standard packaging                      |   |                     |
| 20 Kg net                                 |   |                     |
| ◇ optional packaging                      |   |                     |
| 1000 kg net in customer's IBC             |   |                     |
| ◇ Strip on Drum – Light Blue              |   |                     |
| <b>Material Safety Data Sheet:</b>        |   |                     |
| ◇ Available upon request.                 |   |                     |