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| --- | --- | --- | --- |
| **S.no** | **Description** | **UOM** | **Specification** |
|  | Physical State / Color | - | Powder / Brass yellow |
|  | Assay Content | % | 97±1 |
|  | Grade | - | NA |
|  | Mol. Wt. | g/mol | 120 |
|  | **Element** | **%** | **Percentage** |
|  | Iron (Fe4+) | % | 44 to 46 |
|  | Sulphur (S2-) | % | 49 to 51 |
|  | Silica (SiO2) | % | 0.5 to 1 |
|  | Lead (Pb) | % | 0.001 to 0.002 |
|  | Copper (Cu) | % | 0.05 to 0.07 |
|  | Cobalt (Co) | % | 0.5 to 1 |
|  | Melting point | °C | 1194 |
|  | Particle size distribution | µm | 200 – 350 |
|  | Bulk density | kg/m3 | 5020 |
|  | Specific heat | J/ (mol °C) | 25.418 |
|  | Supplier |  | Jainson Lab India |
|  | MSDS no. | - | XXX |
|  | CAS no. | - | 12068-85-8 |
|  | **Acceptance Criteria** | | |
|  | Visual Acceptance | - | Brass yellow power |
|  | Assay Content | % | 97±1 |
|  | Melting point | °C | 1194±2 |
|  | **Properties** | **Test Method** | **Test Agency** |
|  | Quantitative & qualitative analysis | ICPMS/XRD/ED-XRF | NABL, IIT-HYD, CMET |
|  | Particle size distribution | Sieving & others | RES, NABL, SRR labs |
|  | Specific heat & Thermal Conductivity | DSC/TGA | NABL, IIT-HYD, CMET |