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| --- | --- | --- | --- |
| **Sno** | **Description** | **UOM** | **Specification** |
|  | Physical State / Color | - | Solid/ Greyish White |
|  | Assay Content | % | 99 |
|  | Grade | % | SS-304 |
|  | **Element** | **%** | **Percentage** |
|  | Iron (Fe) | % | 66.5 |
|  | Chromium (Cr) | % | 18 - 20 |
|  | Nickel (Ni) | % | 8.0 – 10.5 |
|  | Manganese (Mn) | % | 2.00 |
|  | Silicon (Si) | % | 1.00 |
|  | Sulphur (S) | % | 0.03 |
|  | Phosphorus (P) | % | 0.045 |
|  | Carbon (C) | % | 0.08 |
|  | Ultimate Tensile Strength (kg/mm2) | MPa | 515 |
|  | Yield Point(kg/mm2) | MPa | 205 |
|  | Elongation on 50mm GL | % | 40 |
|  | Hardness RB |  | 88 |
|  | Specific heat | J/kg K | 490 |
|  | Thermal Conductivity | W/m-K | 16.2 |
|  | Thickness | mm | 1.0±0.09 |
|  | Melting point | °C | 1400 - 1450 |
|  | MSDS no. | - | XXX |
|  | CAS no. | - | 65997-19-5 |
|  | **Acceptance Criteria** | | |
|  | Visual Acceptance | - | Solid Greyish White |
|  | Assay Content | % | 99 ± 2 |
|  | Thermal Conductivity | W/m-K | 16.2 ± 2 |
|  | Dimensions | - | Drawing No. |
|  | Melting point | °C | 1400 - 1450 |
|  | **Properties** | **Test Method** | **Test Agency** |
|  | Quantitative & qualitative analysis | ICPMS/ED-XRF | NABL, IIT-HYD, CMET |
|  | Morphology & Particle size distribution | Scanning electron microscope (SEM) | NABL, SRR labs |
|  | Specific heat & Thermal Conductivity | DSC/TGA | NABL, IIT-HYD, CMET |
|  | Salt Corrosion Resistance | Salt Corrosion Resistance | NABL |