|  |  |  |  |
| --- | --- | --- | --- |
| **Sno** | **Description** | **UOM** | **Specification** |
|  | Physical State / Color | - | Solid/ Silvery White |
|  | Assay Content | % | 98 |
|  | 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) | % | 0.75 |
|  | Nitrogen (N) | % | 0.10 |
|  | Phosphorus (P) | % | 0.045 |
|  | Carbon (C) | % | 0.03 |
|  | Ultimate Tensile Strength | MPa | 505 |
|  | Yield Point | MPa | 205 |
|  | Specific heat | J/kg K | 490 |
|  | Thermal Conductivity | W/m-K | 16.2 |
|  | Melting point | °C | 1400 - 1450 |
|  | Supplier | - | Nivee metal products |
|  | MSDS no. | - | XXX |
|  | CAS no. | - | 65997-19-5 |
|  | **Acceptance Criteria** | | |
|  | Visual Acceptance | - | Silvery White |
|  | Assay Content | % | 98 ± 1 |
|  | Thermal Conductivity | W/m-K | 16.2 ± 2 |
|  | Melting point | °C | 1400 - 1450 |
|  | **Properties** | **Test Method** | **Test Agency** |
| 1. **`** | Quantitative & qualitative analysis | ICPMS/ED-XRF | NABL, IIT-HYD, CMET |
|  | Specific heat & Thermal Conductivity | DSC/TGA | NABL, IIT-HYD, CMET |
|  | Tensile strength | - | CITD |
|  | Yield point | COC | - |
|  | Salt Corrosion Resistance | Salt Corrosion Resistance | NABL |