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| --- | --- | --- | --- |
| **Sno** | **Description** | **UOM** | **Specification** |
| 1 | Physical State / Color | - | Solid / Silver grey |
| 2 | Assay Content | % | 98 |
| 4 | Grade | - | NA |
| 5 | Mol. Wt. | g/mol | 40 |
| 6 | **Element** | **%** | **Percentage** |
|  | Ca | % | 98 |
|  | Ni | % | 0.001 |
|  | Fe | % | 0.008 |
|  | Mn | % | 0.02 |
|  | Mg | % | 0.33 |
|  | Al | % | 0.25 |
|  | Si | % | 0.005 |
| 7 | Melting point | °C | 842 |
| 8 | Boiling point | °C | 1484 |
| 9 | Particle size distribution | µm | XXX |
| 10 | Surface Area | cm3 | XXX |
| 11 | Bulk density | g/cm3 | XXX |
| 12 | Specific heat | J/g K | 0.6 |
| 13 | Supplier |  | Shanghai Ca Metal Limited |
| 14 | MSDS no. | - | XXX |
| 15 | CAS no. | - | 7440-70-2 |
| 16 | **Acceptance Criteria** | | |
|  | Visual Acceptance | - | Silver grey |
|  | Assay Content | % | 98 |
|  | Melting point | °C | 842±2 |
| 17 | **Properties** | **Test Method** | **Test Agency** |
|  | Quantitative & qualitative analysis | ICPMS/XRD/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 |