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| **Sno** | **Description** | **UOM** | **Specification** |
| 1 | Physical State / Color | - | Solid Powder / White |
| 2 | Assay Content (w.r.t MgO) | % | 97 |
| 4 | Grade | - | Extra Pure |
| 5 | Mol. Wt. | g/mol | 40.03 |
| 6 | **Element & Its Percentages.** | **%** | **Percentage** |
| **a.** | SO3 | % | ≤ 1 |
| **b.** | Acid Insoluble Matter | % | ≤ 0.1 |
| **c.** | Calcium (Ca) | % | ≤ 1.1 |
| **d.** | Heavy metal (Pb) | % | ≤ 0.002 |
| **e.** | Iron (Fe) | % | ≤ 0.05 |
| **f.** | Residual Solvents | % | Complies |
| 7 | Melting point | °C | 2852 |
| 8 | Boiling point | °C | 3600 |
| 9 | Particle size distribution | µm | 50 - 90 |
| 10 | Surface area | m/g | 133 |
| 11 | Bulk density | kg/m3 | 550 |
| 12 | Specific heat | J/ (kg K) | 0.928 |
| 13 | Supplier | - | Elegance Scientific |
| 14 | MSDS no. | - | XXX |
| 15 | CAS no. | - | 1309-48-4 |
| 16 | **Acceptance Criteria** | | |
| **a.** | Assay Content | % | 97±1 |
| **b.** | Visual Acceptance | - | White Solid Powder |
| **c.** | Specific Heat | J/ (kg K) | 0.928 |
| **d.** | Melting point | °C | 2852±2 |
| 17 | **Properties** | **Test Method** | **Test Agency** |
| **a.** | Quantitative & qualitative analysis | ICPMS/XRD | NABL, IIT-HYD, CMET |
| **b.** | Particle size distribution | Sieving & others | RES |
| **c.** | Specific heat & Thermal Conductivity | DSC/TGA | NABL, IIT-HYD, CMET |