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| --- | --- | --- | --- |
| **Sno** | **Description** | **UOM** | **Specification** |
|  | Physical State / Color | - | Powder /Greyish Brown |
|  | Assay Content | % | 98 |
|  | Grade |  | XXX |
|  | Mol. Wt. | g/mol | 56 |
|  | **Element** | **%** | **Percentage** |
|  | Total iron content | % | 98 |
|  | Metal iron content (Fe) | % | ≥ 97 |
|  | Melting point | °C | 1535 |
|  | Particle size distribution | µm | 2 – 30 |
|  | Bulk density | kg/m3 | 2380 |
|  | Burning Speed (Fe: KClO4 = 87:13) | mm/sec | 138 |
|  | Specific heat | J/ (g °C) | 0.451 |
|  | Calorific value (Fe: KClO4 = 87:13) | Cal/gm | 260 |
|  | Supplier |  | Gelon Energy Corp |
|  | MSDS no. | - | XXX |
|  | CAS no. | - | 7439-89-6 |
|  | **Acceptance Criteria** | | |
|  | Visual Acceptance | - | Greyish brown powder |
|  | Assay Content | % | 97 ± 1 |
|  | Melting point | °C | 1535 ± 2 |
|  | Burning Speed (Fe: KClO4 = 87:13) | mm/sec | 138 ±2 |
|  | Calorific value (Fe: KClO4 = 87:13) | Cal/gm | 260 ±2 |
|  | **Properties** | **Test Method** | **Test Agency** |
|  | Quantitative & qualitative analysis | ICPMS/ED-XRF | NABL, IIT-HYD, CMET |
|  | Particle size distribution | PSD & Sieving | RES, NABL, SRR labs |
|  | Specific heat & Thermal Conductivity | DSC/TGA | NABL, IIT-HYD, CMET |