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| --- | --- | --- | --- |
| **S.no** | **Description** | **UOM** | **Specification** |
|  | Physical State / Color | - | Solid Powder / Yellow |
|  | Assay Content | % | 98 |
|  | Grade | - | NA |
|  | Mol. Wt. | g/mol | 253 |
|  | **Element** | **%** | **Percentage** |
|  | BaCrO4 | % | 98 |
|  | Soluble in water | % | 0.05 |
|  | Soluble in HCl | % | 0.03 |
|  | Carbonates (CO3-) | % | 0.03 |
|  | Chlorides (Cl) | % | 0.0001 |
|  | Melting point | °C | 1380 |
|  | Particle size distribution | µm | 50 - 200 |
|  | Bulk density | g/cm3 | 2.523 |
|  | Calorific Value (BaCrO4: Zr = 76:24) | Cal/g | 430 |
|  | Supplier | - | Voxco Pigments |
|  | MSDS no. | - | XXX |
|  | CAS no. | - | 10294-40-3 |
|  | **Acceptance Criteria** | | |
|  | Visual Acceptance | - | Yellow Powder |
|  | Assay Content | % | 97 ± 1 |
|  | Burning Speed | mm/sec | - |
|  | Calorific Value (BaCrO4: Zr = 76:24) | Cal/g | 430 |
|  | **Properties** | **Test Method** | **Test Agency** |
|  | Quantitative & qualitative analysis | ICPMS | NABL, IIT-HYD, CMET |
|  | Particle size distribution | PSD | RES, NABL, SRR labs |
|  | Calorific Value | Bomb Calorimeter | RES |
|  | Thermal Conductivity | DSC/TGA | NABL, IIT-HYD, CMET |