**Technical Data & Specification Sheet**

**MSI 70-200 Silica**

MSI 70-200 Silica is a naturally-occurring high grade, whole-grain quartz sand. The sand is mined from the Hartselle Sandstone and Pride Mountain Shale formations. High purity quartz sand is mined, washed, attrition scrubbed, dried and screened to size.

Advantages

|  |  |
| --- | --- |
| * High purity, greater than 99% SiO2
* Silica has been scrubbed and attritioned providing a very clean raw material
 | * Dried to less than 0.25% moisture
* Versatile size and characteristics provide use in multiple industries
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Physical and Chemical Properties

|  |  |
| --- | --- |
|  |   |
|  | **Mineral** |  | **Alpha Quartz** |
|  | **Color** |  | **Light Tan to White** |
|  | **Silicon Dioxide (SiO2)** | **Minimum** | **99%** |
|   | **Trace Elements** | **Maximum** |  **0.40%** |
|  | **Moisture Content** | **Maximum** | **0.25%** |
|  | **Loss of Ingnition (LOI)** | **Maximum** | **0.20%** |
|  | **pH** |  |  |
|  | **Water Soluble** |  | **N/A** |
|   | **Density** | **Bulk:**  | **1.32 g/cm3**  |
|  | **Specific Gravity** |  | **2.66**  |
|  | **Hardness (Mho)** |  | **7** |
|  | **Melting Point** |  | **1713 ºC** |

Particle Size Distribution

|  |  |
| --- | --- |
| **U.S Sieve Size** |   |
|  |  | **Retained (%)** | **Cumulative (%)** |
|  | **60** | **0.0** | **0.0** |
|  | **70** | **0.7** | **0.7** |
|  | **80** | **18.2** | **18.9** |
|  | **100** | **19.0** | **37.9** |
|  | **120** | **14.0** | **51.9** |
|  | **140** | **20.6** | **72.5** |
|  | **170** | **14.5** | **87.0** |
|  | **200** | **11.4** | **98.4** |
|  | **230** | **1.6** | **100.0** |

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