**Technical Data & Specification Sheet**

**MSI 40-70 Silica**

MSI 40-70 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**  |
|  | **Silicon Dioxide (SiO2)** | **Minimum** | **99%** |
|   | **Trace Elements** | **Maximum** |  **0.40%** |
|  | **Moisture Content** | **Maximum** | **0.25%** |
|  | **Loss of Ignition (LOI)** | **Maximum** | **0.20%** |
|  | **pH** |  | **7** |
|  | **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** |   |
|  | **US Sieve Size** | **Retained (%)** | **Cumulative (%)** |
|  | **30** | **0.0** | **0.0** |
|  | **40** | **0.0** | **0.7** |
|  | **45** | **4.1** | **18.9** |
|  | **50** | **15.2** | **37.9** |
|  | **60** | **34.9** | **51.9** |
|  | **70** | **40.9** | **72.5** |
|  | **80** | **4.8** | **87.0** |
|  | **100** | **0.0** | **98.4** |

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