**Technical Data & Specification Sheet**

**MSI 40-70 Silica**

**AMP**

MSI 40-70 is a high purity silica 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

|  |  |
| --- | --- |
| * Greater than 99% SiO2 content.
* No impurities that diminish the performance of the well
 | * The high purity SiO2 is compatible with hydraulic fracturing chemicals
* Quality ensures better porosity and permeability of the well
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Physical and Chemical Properties

|  |  |
| --- | --- |
| **ISO 13503 API RP 19C** |   |
|  | **Crush Resistance (K-Value)** |  | **5K** |
|  | **Krumbein Shape Factors** | **Sphericity:**  | **0.7** |
|  |  | **Roundness:** | **0.5** |
|   | **Acid Solubility** |  |  **0.4%** |
|  | **Turbidity** |  | **110 NTU** |
|   | **Density** | **Bulk:**  | **1.32 g/cm3**  |
|  |  | **Particle:** | **2.66 g/cm3** |
|  | **Median Diameter** |  | **0.261 mm** |

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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