



Silica Sand Data Sheet

MICROSILICA DSF92

1. Product Identification:

- **Product Name:** Silica Sand
- **Chemical Name:** Silicon Dioxide (SiO₂)
- **CAS Number:** 14808-60-7
- **HS Code:** 2505.10
- **Appearance:** White to light brown granular material
- **Odor:** Odorless

2. Typical Chemical Composition:

PARAMETER	STANDARD	RESULT	ASTM C 1240-05
Silicon Dioxide (SiO ₂)	92%min	92.13%	90%min
Moisture	3%max	1.200%	3%max
Loss on Ignition (LOI)	4%max	2.85%	4%max
Sodium oxide (Na ₂ O)	2%max	0.45%	2%max
Iron Oxide (Fe ₂ O ₃)	1%max	0.05%	--
Potassium oxide (K ₂ O)	1%max	0.21%	--
Magnesium Oxide (MgO)	1%max	0.53%	--
Calcium Oxide (CaO)	1%max	0.23%	--
Cl	1%max	0.001%	--

3. Physical Properties:

PARAMETER	STANDARD	RESULT	ASTM C 1240-05
Silicon Dioxide (SiO ₂)	<10%	3.12%	10%max
Moisture	<5%	2.01%	5%max
Loss on Ignition (LOI)	>105%	108%	105%min
Sodium oxide (Na ₂ O)	15-27m2/g min	20.00	15m2/g min
Iron Oxide (Fe ₂ O ₃)	550-700 kg/m ³	650 kg/m ³	550-700 kg/m ³



4. Applications:

- Glass manufacturing
- Foundry casting
- Construction (concrete, mortars)
- Ceramics and refractories
- Water filtration
- Oil and gas fracking
- Paints and coatings
- Abrasive blasting

5. Packaging & Storage:

- **Packaging:** 25 kg bags, 50 kg bags, 1-ton jumbo bags
- **Storage:** Store in a dry, well-ventilated area, away from moisture
- **Shelf Life:** Indefinite under proper storage conditions

6. Health & Safety Information:

- **Hazard Classification:** May cause respiratory irritation if inhaled
- **PPE Required:** Use NIOSH-approved respirator, gloves, and safety goggles
- **Handling Precautions:** Avoid inhalation of dust; ensure proper ventilation
- **First Aid Measures:**
 - **Inhalation:** Move to fresh air and seek medical attention if breathing difficulty occurs
 - **Skin Contact:** Wash with soap and water
 - **Eye Contact:** Rinse with water for several minutes
 - **Ingestion:** Seek medical attention if large quantities are ingested

7. Regulatory Information:

- Complies with ISO standards for industrial silica sand
- OSHA PEL: 50 µg/m³ (Respirable crystalline silica)
- REACH and RoHS compliant

8. Supplier Information:

- **Company Name:** Basekim Chemical Production Co.
- **Contact:** 0097142369830
- **Website:** www.basekim.com
- **Date:** 23.01.2025