



Characteristics

- ▶ Low thermal conductivity
- ▶ Will not burn or smolder
- ▶ Will not stretch or shrink
- ▶ 2000°F continuous and 3000°F melt
- ▶ High-strength-to-weight ratio
- ▶ Highly resistant to molten metals
- ▶ High dielectric strength/low constants
- ▶ Resistant to most chemicals
- ▶ Excellent flexibility up to 2300°F

Chemical Composition

Silicon Dioxide	98.85%
Titanium Dioxide	0.80%
Aluminum Oxide	0.71%
Calcium Oxide	0.23%
Magnesium Oxide	0.17%
Boric Oxide	0.16%
Sodium Oxide	0.03%
Iron Oxide	0.01%
Zirconium Oxide	0.01%
Chromium Oxide	<0.01%
Copper Oxide	<0.01%
Nickel Oxide	<0.01%

Applicable Standards

Mil-I-24244

Refractory silica products have been developed to replace asbestos in applications where protection against extreme heat is required. Ultisil fabrics are ideal for furnace curtains, stress relief blankets, expansion joints, gaskets, seals, and encapsulation of refractory wools.

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