



### Characteristics

- ▶ Low thermal conductivity up to 2000°F
- ▶ Will not burn, smolder, or melt
- ▶ Low stretch or shrinkage at elevated temperatures
- ▶ Transparent to U.V. radiation (2000A +)
- ▶ 850,000 psi filament tensile strength
- ▶ Resistant to thermal shock
- ▶ Low dielectric loss properties
- ▶ Chemical-resistant and non-hydroscopic
- ▶ Excellent flexibility up to 2200°F

### Chemical Composition

Silicone Dioxide	99.95%
Pure Fused Silica	

### Typical Applications

- ▶ Cable tray insulation
- ▶ Aerospace ablative
- ▶ Expansion joints
- ▶ Flexible high-temperature seals
- ▶ Sewn refractory parts and shapes
- ▶ Tadpole gasket jacketing
- ▶ Radome and antenna

Quartz fibers and fabrics are compatible with silane, epoxy, phenolic, and polyimide matrix materials. Fire barriers constructed using Quartz fibers are lighter weight than metallic materials. Quartz is available as cloth, tape, mat, and thread.

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