



Characteristics

- ▶ Low thermal conductivity
- ▶ Will not burn or smolder
- ▶ Low stretch or shrinkage at elevated temperatures
- ▶ 3000°F maximum temperature
- ▶ Over 50% strength after 1000 hours at 2200°F
- ▶ Resistant to thermal shock
- ▶ High dielectric strength/low constants
- ▶ Chemical-resistant and non-hygroscopic
- ▶ Excellent flexibility up to 2200°F

Chemical Composition

Aluminum Oxide	62%
Boron Oxide	14%
Silicone Dioxide	24%

Typical Applications

- ▶ Furnace curtains and linings
- ▶ Duct linings
- ▶ Expansion joints
- ▶ Flexible high-temperature seals
- ▶ Sewn refractory parts and shapes
- ▶ Tadpole gasket jacketing
- ▶ Thermocouple insulation
- ▶ Available as cloth, tape, sleeving, or rope

Nextel fibers and fabrics are compatible with silicone, epoxy, phenolic, and polyimide materials. Fire barriers constructed using Nextel fibers are lighter weight than metallic materials and have passed FAA 2000°F 15 minute flame penetration tests.

Applicable Standards

U.S.C.G. subpart 164.009

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