

The standard for protecting equipment, cables and hoses at temperatures up to 1,200°C.



Ceramitex® WF-5100s is a woven fabric made of refractory ceramic fiber based on aluminum silicate. With a reinforcing agent (high-temperature fiberglass) and a 316ss stainless steel yarn, the fiber is used to manufacture industrial textiles: fabrics, tapes, twisted cords, and braided cords. Ceramitex® Ri withstands temperatures up to 1,260°C.

It is a lightweight material with very low thermal conductivity. It provides excellent thermal protection in high-temperature applications, as well as resistance to commonly used corrosive chemicals such as alkalis and acids.

Ceramitex® WF-5100s offers excellent performance in:

- **Excellent thermal stability:** Low thermal conductivity and low heat storage capacity.
- **Chemical resistance:** Excellent resistance to most corrosive agents (except hydrofluoric and phosphoric acids and concentrated alkalis).
- **Mechanical Resistance:** 316SS stainless steel offers superior corrosion resistance compared to Inconel steel in certain industrial environments.

Ceramitex® WF-5100s offers excellent performance in:

- **Pipe insulation:** High-pressure steam wraps.
- **Furniture curtains:** Protection against molten metal splashes and radiant heat.
- **Expansion joints:** Manufacturing of textile gaskets to compensate for thermal movement.
- **Cable protection:** Heat shields for hydraulic hoses and critical wiring.

TECHNICAL DATA:

Properties:	CERAMITEX® WF-5100s Cloth
Composition:	CERAMITEX® Ri Fiber (Ceramic fiber w/ Inorganic carrier reinforced with Inconel)
Chemical Composition:	Al ₂ O ₃ y SiO ₂ Total: >97% (Al ₂ O ₃ :47%) Fe ₂ O ₃ :<1.1%
Temperature, Max:	2,300 °F
Temperature, Continuous:	1,832 °F
Shrinking @ 1796°F, 3hr:	4-6 %
Ignition, Weight loss @ 1796°F:	6-8 %
Tensile strength, μ:	2-6
Availability:	CERAMITEX® WF-5100s Cloth
Shape:	Flat Tape
Thickness / Width / Length:	1/16" / 39.4" / 98 ft 1/8" / 39.4" / 98 ft
Tolerances:	±10 %

****Thickness tolerance: ±10%** **Length tolerance: ±5%****

** Above 200°C, the product may smoke, due to the degradation of organic components, without altering its functioning.

