

RAIGLASS® with improved resistance to high temperatures up to 800°C.



RAITHERM® WF-800 fabric is composed of textured "E" type fiberglass coated with RAITHERM® mineral mica, making it a high-performance thermal insulation material. It is manufactured from fiberglass yarns that have been textured to trap a greater amount of air, significantly improving its thermal insulation properties compared to standard continuous yarns.

Subsequently, RAITHERM® WF-800 fabric is treated with a special RAITHERM® mica coating, resistant to oxidation at high temperatures. This coating disperses heat evenly across the fabric's surface, increases its resistance to high temperatures, improves its abrasion resistance, and provides greater protection against sparks and molten metal splashes.

RAITHERM® WF-800 is a 100% asbestos-free material.

Main Features:

- **High thermal resistance:** Withstands significantly higher temperatures than untreated fiberglass.
- **Excellent insulation:** The textured yarn reduces thermal conductivity.
- **Abrasion protection:** The vermiculite film creates a protective shield that extends the material's lifespan against constant friction.
- **Spark resistance:** Highly effective against welding slag and molten metal spatter.
- **Easy handling:** It is flexible and can be easily cut and sewn to manufacture custom pieces.

Common Applications

- **Welding blankets and fire curtains:** For protecting personnel and equipment from severe sparks and slag in heavy-duty welding operations.
- **Non-metallic expansion joints:** In exhaust gas duct systems and boilers.
- **Removable thermal insulation:** Manufacturing jackets and covers for valves, flanges, turbines, and exhaust systems.
- **Pipe and cable protection:** Protective enclosures for areas exposed to extreme radiant heat or potential fire.
- **Industries:** Metallurgy, foundry, petrochemical, marine, power generation, and automotive.

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

TECHNICAL DATA:

Properties:	RAITHERM® WF-800	Cloth
Composition:	RAIGLASS® E + RAITHERM® Coating (Texturized type "E" Glass Fiber)	
Temperature, Max:	1,472	°F (peak)
Temperature, Continuous:	1,202	°F
Heat Shrinkage:	3	%
Tensile strength, µ:	9-11	
Availability:	RAITHERM® WF-800	Cloth
Shape:	Flat Tape	
Thickness / Width / Length:	1/16" / 39.4" / 98 ft	
	1/8" / 39.4" / 98 ft	
	1/4" / 39.4" / 49 ft	
Tolerances:	±10	%

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

