

High-temperature silicone cover.
 Ideal for protection against hot slag splashes.



RAIGLASS® WF-280SC is a textured Type E fiberglass fabric with a silicone rubber coating on both sides. It is a high-performance composite material. Its core is a woven fabric of textured fiberglass yarns that provide excellent thermal insulation and mechanical strength.

The specially formulated silicone rubber coating applied to both sides of RAIGLASS® WF-280SC fabric seals it, making it impermeable to water, oil, and gases. This coating also significantly increases its resistance to abrasion, tearing, and chemicals, providing a flexible, slip-resistant, and easy-to-clean surface, ideal for demanding industrial environments.

Chemical and Environmental Properties

- **Fluid Resistance:** Impermeable to water and vapor. Excellent resistance to industrial oils, greases, and moderate solvents.
- **Weather Resistance:** Excellent resistance to UV rays, ozone, and aging from environmental exposure. Chemical Resistance: High resistance to corrosion from weak acids and alkalis.
- **Health and Safety:** Free of asbestos, halogens, and heavy metals. Non-irritating to the skin during handling thanks to fiber encapsulation.

Key Features

- **Fluid and Gas Blockage:** The double-sided coating creates a complete barrier against fumes, hot gases, and liquids.
- **High Flexibility:** It does not crack or split when bent, even at low temperatures, facilitating the fabrication of complex parts.
- **Superior Mechanical Strength:** The silicone coating acts as a shock absorber, dramatically improving resistance to abrasion, wear, and punctures.
- **Easy Cleaning:** Non-stick surface repels dirt and simplifies maintenance.
- **Spark Protection:** Repels light welding slag and sparks (for heavy slag, the raw glass or vermiculite side is recommended).

Common Applications

- **Removable thermal jackets:** Ideal outer and inner material for insulation covers on valves, flanges, pumps, and turbines due to its impermeability to weather and oils.
- **Fabric expansion joints and bellows:** In piping systems and ventilation ducts to absorb vibrations and thermal expansion.
- **Fire and smoke curtains:** In warehouses and theaters to contain the spread of smoke and flames.
- **Lightweight welding blankets:** Protection against splashes and sparks in work areas.
- **Industries:** Aerospace, petrochemical, power generation, chemical processing, and marine/automotive exhaust systems.

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

TECHNICAL DATA:

Properties:	RAIGLASS® WF-280sc	Cloth
Composition:	RAIGLASS® E + Silicone Coating (Texturized type "E" Glass Fiber, Silicone coating both sides)	
Temperature, Max:	572	°F
Temperature, Continuous:	482	°F
Heat Shrinkage:	3	%
Tensile strength, µ:	9-11	
Availability:	RAIGLASS® WF-280sc	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%****

