

# Technical Overview

## Silicone Coated Fiberglass Tape

High-temperature insulation and protection tape designed for wrapping, sealing, and thermal management in industrial environments.

Base material	Woven fiberglass fabric
Coating	Silicone rubber
Continuous temperature rating	Up to 260°C (500°F)
Primary functions	Thermal insulation, sealing, surface protection
Key properties	Flexible, flame-retardant, non-conductive

### Product purpose

Silicone coated fiberglass tape is intended for applications requiring reliable thermal insulation, mechanical durability, and resistance to environmental exposure. The combination of a fiberglass substrate and silicone rubber coating provides stable performance under continuous heat, vibration, and handling.

### Typical applications

- Wrapping and insulation of hoses, pipes, and tubing
- Protection of electrical wires and cable assemblies
- Sealing and insulation in engines, generators, and industrial equipment
- Automotive, aerospace, electrical, and manufacturing environments

### Performance characteristics

The fiberglass base fabric provides strength and temperature resistance, while the silicone coating improves flexibility, abrasion resistance, and protection against moisture, oil splash, and common industrial chemicals.

### Installation and handling

The tape can be wrapped tightly around components and overlapped to achieve the required insulation thickness. Non-fraying edges support clean installation and repeated handling during maintenance operations.

### Limitations and selection considerations

This product is not intended for direct flame exposure without additional fire protection. Chemical compatibility should be verified for aggressive fluids, and the tape is not designed as a structural or pressure-containing material.

### RFQ information

For accurate quotation and lead time, please provide application details including operating temperature, tape width and thickness, roll length, environmental exposure, and required quantity.

### Reference product page

[https://www.silicasleeve.com/silicone-coated-fiberglass-tape\\_p145.html](https://www.silicasleeve.com/silicone-coated-fiberglass-tape_p145.html)

Engineering disclaimer: Final performance depends on application conditions, installation quality, and operating environment.