

# Technical Overview

## Heat Insulation Ceramic Fiber Woven Tape

High-temperature ceramic fiber woven tape designed for thermal insulation, sealing, and protection in extreme heat industrial environments.

|                             |                                     |
|-----------------------------|-------------------------------------|
| Base material               | Alumino-silicate ceramic fiber yarn |
| Reinforcement               | High-temperature fiberglass         |
| Construction                | Woven tape                          |
| Color                       | White                               |
| Maximum service temperature | Up to 2300°F (1260°C)               |
| Primary function            | Thermal insulation and sealing      |

### Product purpose

Heat Insulation Ceramic Fiber Woven Tape is intended for applications requiring reliable thermal insulation, flame resistance, and dimensional stability under sustained high-temperature exposure. It is commonly used for wrapping, sealing, and gasketing in industrial thermal systems.

### Typical applications

- Furnace and kiln insulation and sealing
- Expansion joint and gasket wrapping
- Exhaust system and duct insulation
- Boilers, heaters, and industrial ovens
- Foundry, metallurgy, and heat treatment equipment

### Thermal performance characteristics

Ceramic fiber woven tape maintains structural integrity and insulation performance under direct heat and flame exposure. The alumino-silicate fiber composition provides excellent resistance to thermal shock and rapid temperature changes.

### Material behavior and handling

The woven tape construction provides flexibility for installation around irregular surfaces. The tape can be cut to length using appropriate tools while maintaining fiber integrity.

### Limitations and selection considerations

This product is not designed for structural reinforcement or pressure containment. Abrasion resistance is lower than coated or metal-reinforced tapes, and direct contact with molten metal should be evaluated carefully.

## RFQ information

For accurate quotation and lead time, please provide application details including operating temperature, tape width and thickness, length per roll, reinforcement requirement, and estimated quantity.

## Reference product page

[https://www.pkfiresleeve.com/heat-insulation-ceramic-fiber-woven-tape\\_p39.html](https://www.pkfiresleeve.com/heat-insulation-ceramic-fiber-woven-tape_p39.html)

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