Technical Overview

Carbon Fiber Felt Welding Blanket

High-temperature thermal protection blanket designed for welding, brazing, glassworking, and industrial heat management applications.

Base material	Carbon fiber felt
Maximum heat resistance	Up to 1800°F (approx. 980°C)
Primary function	Thermal insulation and heat shielding
Key properties	Low thermal conductivity, non-conductive, flexible
Form	Felt blanket / sheet

Product purpose

The Carbon Fiber Felt Welding Blanket is intended for use in applications where conventional fiberglass or silica blankets do not provide sufficient thermal insulation. It offers stable heat resistance and material flexibility for localized high-temperature exposure.

Typical applications

• Welding and brazing operations
• Glassworking and hot forming processes
• Thermal shielding for industrial equipment
• Furnace openings and temporary heat barriers
• Laboratory and prototype heat protection

Thermal performance characteristics

Carbon fiber felt provides low thermal conductivity, helping to reduce heat transfer to adjacent components. The felt structure tolerates rapid heating and cooling cycles, supporting resistance to thermal shock.

Material behavior and handling

The felt construction allows the blanket to be easily cut, shaped, and fitted around work areas or equipment. It remains lightweight and flexible, supporting repeated handling in workshop and production environments.

Limitations and selection considerations

Carbon fiber felt is not intended for prolonged exposure to high-temperature oxidizing environments. It is not designed for direct molten metal splash protection or use as personal protective equipment.

Reference product page

https://www.silicasleeve.com/carbon-fiber-felt-welding-blanket_p150.html

Engineering disclaimer: Performance depends on application conditions, atmosphere, and installation method.