

THERMOGLASS

TECHNICAL TEXTILES IN EXTREME APPLICATIONS

Special textiles made of E-glass and silicate developed for technical applications mostly in high temperature ranges from 300 °C (570 °F) to 1200 °C (2200 °F).

Our thermoglass fabrics can be purchased made from staple fibres, texturized and non-texturized glass filaments, with or without steel reinforcement as raw fabrics.

Weight ranges from 200 to 2000 g/m² in standard widths of 1000-2000 mm. By using functional finishings, coatings and laminations, our fabrics can be optimized for specific requirements of customer and application.

Textiles for fire and smoke protection, battery safety, radiant heat protection, insulation material for thermal insulation of pipelines, air conditioning ducts, turbines and engines in ships, power plants and industrial plants.

- MED-/ US-Coast Guard Certification
- EN 1634-1 Fire-resistance class >EW60
- EN 45545 Railway Vehicles
- WiWeB/ Military Certification



THERMOGLASS FABRICS

The raw fabric is suitable for an application temperature of up to 500 °C (930 °F) and possesses good chemical resistance and high strength values.

The textured fabric has improved insulating properties.



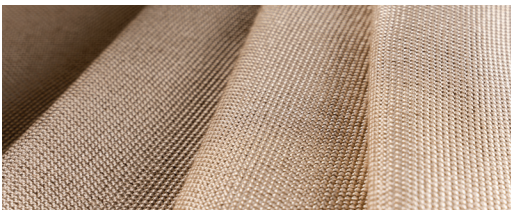
THERMOGLASS NIRO FABRICS

Woven-in metal threads give the raw fabric increased temperature stability, high mechanical strength, and good vibration resistance.



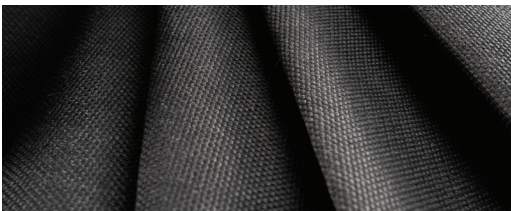
SILICATE FABRICS

Silicate as a high-performance material is suitable for an operating temperature of up to 1000 °C (1840 °F) without any appreciable loss of strength.



THERMAL TREATMENTS

The thermal surface treatment achieves a residual sizing content of <0,2% to minimize the smoke property.



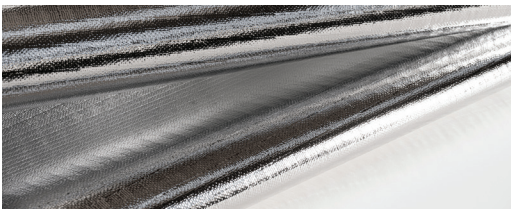
FINISHINGS

Our high-temperature treatments strengthen the temperature resistance of the raw fabrics and offer advantages such as processing optimization, fume/flue gas suppression and colour variations.



COATINGS

The fabric surface can be functionalized with PU/PVA, PTFE and silicone according to customer requirements to induce or enhance specific properties.



LAMINATIONS

Radiant heat can be specifically reflected via the aluminization of the fabric surface with the help of transfer, polyester and aluminium foil.



THERMOFELTS

The composite material of preox felt and glass fabric features good thermal insulation properties with simultaneous high mechanical strength.