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Fire Protection & Insulation Solutions

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DCF3/WR Ceramic Fibre Insulation Fabric

Description

Ceramic fibre fabric is used as a high-temperature insulation and protective material, creating furnace linings, heat shields, gaskets, and wraps for extreme heat environments. Industries like metal processing, power plants, and shipbuilding, as well as for DIY projects like pizza ovens. Due to its excellent resistance to intense heat (up to 1260°C+) and chemicals, low thermal conductivity, and flexibility.

Applications

- **Industrial Insulation:** Furnace linings, kiln insulation, boiler seals, and hot gas duct linings for steel, aluminum, and chemical plants.
- **Protective Gear & Barriers:** Welding blankets, heat shields, safety curtains, molten metal splash protection, and pipe/cable wraps.
- **Sealing & Gaskets:** High-temperature gaskets, expansion joints, and seals for industrial equipment.
- Thermal Management: Thermal insulation layers in electronics, automotive mufflers, and conveyor belts.
- **DIY Projects:** Insulation for pottery kilns and pizza ovens.

Key Properties

- **Extreme Heat Resistance:** Withstands continuous temperatures over 1000°C (up to 1260°C or higher with reinforcement).
- **Chemical Resistance:** Resists acids and alkalis.
- **Lightweight & Flexible:** Easy to cut, shape, and install, making it versatile.
- **Low Thermal Conductivity:** Conserves energy by reducing heat loss.
- **Reinforcement Options:** Often reinforced with stainless steel wire for increased strength or fiberglass for better alkali resistance.

Technical Data	
Reinforcement	Glass filament and Stainless Steel wire
Thickness **mm**	3.0
Weave	Plain
Width **mm**	1000 up to 1500
Available treatments	Heat cleaned, Aluminium Foil Facing
Weight **g/m²**	1500 for Untreated & ave. 1200 for Heat Treated
Continuous temperature **°C**	1000
Short time temperature **°C**	1260
Moisture content **%**	≤2
Loss on ignitions **%**	≤18
Tensile strength | Warp | N/5cm	≥1000
Tensile strength | WEFT | N/5cm	≥550

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