

PC® 700K system

PC® 700K system combines the benefits of FOAMGLAS® ONE™ Insulation with a two-component inorganic mortar and a glass fabric reinforcement for superior high temperature or cyclical performance.

The mortar is based on a specially formulated glass powder, fillers and a modified silica dispersion. The cloth is a wide-mesh, alkaline-resistant glass fabric. These fabric and mortar components are offered by Pittsburgh Corning, or are available as pre-applied system.

Applications

- Petrochemical installations
- Farmaceutical installtions
- Oil and Gas processing
- Food processing
- Hot oil pipework

Typical properties

Type	Two component inorganic mortar and glass fabric with styrolaclylate
Service temperature range	-196°C to +320°C (-320°F to 608°F)
Colour	dark grey
Density	1.43 kg/dm ³ (91 lbs/ft ³)
Compressive strength	> 10 MPa (>1450 psi)
Tensile strength	> 0.5 MPa (> 72 psi)
Modulus of elasticity	at ambient temperature: 800 MPa (1.1 x 10 ⁵ lbs/in ²) at 120°C (248°F): 1100 N/mm ² (1.6 x 10 ⁵ lbs/in ²)
Linear coefficient of thermal expansion	from +20 to -120°C (from 68°F to -184°F) 8 x 10 ⁻⁶ °C ⁻¹ (4.5 x 10 ⁻⁶ °F ⁻¹)
Fire resistance	non-flammable
Combustibility	incombustible

System components:

FOAMGLAS® ONE insulation
PC® 150 Fabric
PC® 80 Mortar

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