Aerolite®
SEALING MATERIALS

Ceramic Fibre Tape



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Basis

Aerolite® Ceramic Fibre Tape is a woven fabric made from high-quality ceramic fibre yarn. It can be used for high temperature applications up to 1260 °C (2,300 °F). The tape is reinforced with fibreglass filament, and optional Inconel/alloy steel wire. The tape contains a certain amount of binder material which is normally burned at lower temperature and does not affect the insulation property.

Key Features & Benefits

- Recommended working temperature: 982 °C continuous; 1260 °C maximum
- Woven from high quality ceramic fibre yarn
- Reinforced with fibreglass filament, with optional Inconel/alloy steel wire
- Binder burns off at lower temperature and does not affect the insulation property

Applications

- Welding and foundry works
- Aluminium and steel mills
- Boiler insulation and seal
- Shipyards and refineries
- Power plants and chemical plants

Technical Data

Part 1: Ceramic Fibre

Parameter	Specification
Colour	White
Chemical composition	SiO_2 53%, Al_2O_3 46%, Fe_2O_3 0.8%, Na_2O + K_2O 0.2%
Diameter of fibre	3 – 4 micron
Ignition loss	18%
Thermal conductivity	< 0.18 W/m·K at 1000°C
Working temperature	982 °C (1,800 °F) continuous; 1260 °C (2,300 °F) maximum

Part 2: Ceramic Fibre Tape

Parameter	Specification
Width	15 – 150 mm
Thickness	1.5 – 10 mm
Length	25 m, 30 m or 50 m
Reinforcement	Fibreglass filament; optional Inconel/alloy steel wire

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