

ACCS Ltd
Industrial Protective
Linings

Unit 6, Scott Lidgett Industrial Estate
Scott Lidgett Road, Longport
Stoke On Trent
Staffs
ST6 4NQ

Tel: +44 (0) 1782 817 107
Fax: +44 (0) 1782 824 979
Email: support@accsltd.co.uk

www.protectivelinings.co.uk

Product Information Sheet

Ceramic Paper

Description

- Ceramic fibre paper is a free thickness paper made from high purity ceramic fibres with a small amount of organic binder.
- Advanced production techniques ensure a highly uniform structure throughout which is characterised by low thermal conductivity, good handling strength and good dielectric strength.
- Easily cut with standard equipment, ceramic fibre paper can be wrapped or rolled around most shapes to provide highly effective thermal insulation in a variety of applications.
- Ceramic fibre paper exhibits excellent chemical stability, resisting attack from most corrosive agents.
- Exceptions are hydrofluoric and phosphoric acids and concentrated alkalis. If wetted by water or steam, thermal and physical properties are completely restored upon drying.

General Characteristics

Ceramic fibre paper has these outstanding characteristics:

- High temperature stability
- Low heat storage
- Lightweight
- Resiliency
- Thermal shock
- Good dielectric strength
- Good chemical stability
- Flexibility in use

Chemical Analysis (Fibre wt.%)

SiO ₂	48.0 - 54.0
Al ₂ O ₃	46.0 - 52.0
Alkalis	<0.25
Fe ₂ O ₃	<0.1
Binder content	≤10.0%

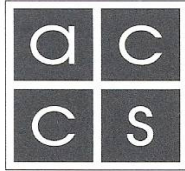
Typical Physical Properties

Colour	White
Classification	Temp* 1250 °C
Melting Point	1800 °C
Fibre Diameter	2.0 - 3.0 microns (mean)
Product Density	180 - 240 kg/m ³
Tensile Strength	>550 kPa

Thermal Conductivity Data (based on CEN draft method ASTM C-201) (W/m²K)

600 °C Mean Temp.	0.08
800 °C Mean Temp.	0.11
1000 °C Mean Temp.	0.16





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Permanent Linear Shrinkage 1250°C

24 hour soak 3.59%

*Classification temperature is the reference temperature at which permanent linear shrinkage does not exceed 4% during 24 hours continuous exposure (ref. CEN draft recommendation)

Typical Applications

- Industrial and domestic appliance gasketing
- Ingot mould liners
- Hot top liners
- Parting medium in brazing, welding and soldering
- Liquid metal back-up insulation
- tap out plug covers
- Expansion joints

Availability

Thickness Range: 1mm 2mm 3mm 4mm 5mm 6mm 7mm 8mm

<u>Width</u>	<u>Roll Length (m)</u>							
610mm	125	60	35	25	20	15	15	10
1000mm	380	185	110	80	65	60	50	40
1220mm	380	185	110	80	65	60	50	40

Special Roll sizes to order.

Handling Information

A Material Safety Data Sheet has been issued describing the health, safety and environmental properties of this product, identifying the potential hazards and giving advice on handling precautions and emergency procedures. This must be consulted and fully understood before handling, storage or use.

