FIBERFRAX® DURAFELT LD

INSULCON
LEADER IN HIGH TEMPERATURE SOLUTIONS

Fiberfrax® Durafelt products are manufactured from Fiberfrax® refractory ceramic fibres, blended with specially selected organic binders to give flexible felts with exceptional characteristics.

Our advanced felting process ensures a lightweight, high strength product enhanced by low thermal conductivity and exceptional handling characteristics. The various blends of refractory fibres used in the manufacturing process, provides a comprehensive range of felts with operating temperature limits up to 1400°C. Fiberfrax® Durafelt products are available in a wide range of sizes and thicknesses.

General Characteristics

Fiberfrax® Durafelt products have these outstanding characteristics:

- High temperature stability
- Low thermal conductivity
- High resiliency
- Lightweight
- Excellent flexibility
- Easy to wrap, cut and shape

Typical Applications

- High temperature gaskets and seals
- Ingot mould liners
- Molten metal transfer systems (back-up insulation)
- Expansion joints

Any new and/or special use of these products, whether or not in an application listed in our literature, must be submitted to our technical department for their prior written approval.

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.

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TECHNICAL DATASHEET

Form: A1-082
Effective: 03012022/es
Supersedes: 09032017/CD/ka
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LD: U112012

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Typical Product Parameters

Typical Chemical Analysis (fibre wt. %)

SiO2	48,0 – 54,0
Al2O3	46,0 – 52,0
ZrO2	–
Alkalis	< 0,25

Physical Properties

Colour	White
Melting Point	1800°C
Product Density	110-190 kg/m3
Tensile Strength (kPa)	> 170
Classification Temp.	1250°C
Loss on Ignition (wt. %)	< 10,0

Thermal Conductivity (W/mK) @ Mean Temp.

600°C	0,08
800°C	0,12
1000°C	0,16
1200°C	-

Permanent Linear Shrinkage (%) 24 Hour Soak

1250°C	< 4,0
1400°C	-
1500°C	-

*Classification Temperature is not a definition of the operational limit of these products, especially when long term physical or dimensional stability is a factor. For certain applications continuous use temperature limits may be significantly reduced. For assistance or clarification please contact us. Where appropriate Physical Properties data measured according to EN 1094-1.

Availability

Thickness (mm)	LD	Roll Length (m)		Sheets per Carton
Roll Width (mm)		610	1220	1250 x 1000
3	✓	30	90	32
6	✓	15	45	16
9	✓	10	30	10
12	✓	10	10	8

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