

Fiberfrax® Durafelt™ products are manufactured by an advanced felting process to form the most comprehensive range of refractory ceramic fibre felts available.

They are easily cut with standard tools and die-cutting equipment. These high strength felts are made from blends of various refractory fibres with a small amount of organic binder, offering light weight, low thermal conductivity and exceptional handling characteristics.

With a wide thickness range and operating temperatures up to 1500°C, Fiberfrax Durafelt products provide one of the most flexible product families available.



GENERAL CHARACTERISTICS

Fiberfrax Durafelt products have these outstanding characteristics:

- High temperature stability (up to 1500°C)
- Low thermal conductivity
- Lightweight
- Resiliency
- Exceptional flexibility
- Extensive thickness range
- Easy to wrap, shape and cut

Typical Chemical Analysis (fibre wt.%)

Durafelt	LD	HD	Z	1500
SiO ₂	48.0-54.0	50.0-58.0	52.0-56.0	33.0-37.0
Al ₂ O ₃	46.0-52.0	42.0-50.0	28.0-32.0	53.0-57.0
ZrO ₂			14.0-18.0	8.0-12.0
Alkalis	<0.25	<0.25	<0.25	<0.25
Fe ₂ O ₃ + TiO ₂	<0.20	<0.20	<0.20	<0.20
Loss on ignition	<10%	<10%	<10%	<10%

TYPICAL PRODUCT PARAMETERS

Physical Properties

Durafelt	LD	HD	Z	1500
Colour	White	White/beige	White/beige	White/beige
Classification Temp.	1250°C	1250°C	1400°C	1500°C
Melting Point	1800°C	1800°C	1740°C	1740°C
Product Density	110-150 kg/m ³	200-300 kg/m ³	220-320 kg/m ³	110-200 kg/m ³
Tensile Strength	>350kPa	>100kPa	>50kPa	>50kPa

Thermal Conductivity Data (W/mK)

Mean Temp.	Durafelt			
	LD	HD	Z	1500
600°C	0.080	0.108		
800°C	0.115	0.143	0.150	
1000°C	0.160	0.192	0.212	0.208
1200°C			0.292	0.281
1400°C				0.384

Permanent Linear Shrinkage

1250°C	3.48%	3.95%		
1400°C			3.35%	
1500°C				3.75%

Where appropriate Physical Properties and Thermal Conductivity Data measured according to ENV 1094 - 7:1994

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

Information contained in this publication is for illustrative purposes only and is not intended to create any contractual obligation.

Typical Applications

- High temperature industrial gasketing
- Ingot mould liners
- Foundry ladle back-up insulation
- Back-up insulation in liquid metal transport systems
- Expansion joints

Availability

Fiberfrax Durafelt LD							
Thickness range (mm)	3	6	9	12			
Width	Standard roll length (m)						
610 mm	30	15	10	10			
1220 mm	90	45	30	10			
Fiberfrax Durafelt HD, Z, 1500							
	Standard sheet size 1000mm x 1250mm						
Thickness range (mm)	3*	6	9	12	18	25	30
Sheets per carton	32	16	10	8	5	4	3
Durafelt HD	✓	✓	✓	✓	✓	✓	
Durafelt Z	✓	✓	✓	✓	✓	✓	
Durafelt 1500							✓

*Also available in rolls of 1000mm x 12m and 1000mm x 25m

Other thicknesses and roll/sheet sizes available on request subject to minimum order requirements

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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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Further information and advice on specific details of the products described should be obtained in writing from a Unifrax Corporation company (Unifrax Benelux, Unifrax España, Unifrax France, Unifrax GmbH, Unifrax Italia, Unifrax Limited).

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