



DESCRIPTION

Fiberfrax Acoustic Blankets are lightweight, needled insulating blankets, manufactured from Fiberfrax refractory ceramic fibres, and are specifically engineered to provide superior acoustic properties. These blankets are totally binder free, display excellent chemical resistance and do not induce corrosion in metal structures. The long, interlocking spun fibres ensure excellent handling strength and resistance to vibration. During the manufacturing process, various fibre properties are controlled to optimise the sound attenuation properties of the blanket.

GENERAL CHARACTERISTICS

Fiberfrax Acoustic Blanket products have the following outstanding characteristics:

- High temperature stability
- High tensile strength & resiliency
- Resistance to chemical attack
- Good vibration resistance
- Enhanced acoustic properties

TYPICAL APPLICATIONS

- Thermal and acoustic insulation
- Gas turbine exhaust duct linings
- Silencer pillow insulation

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.

*Start saving energy now.
Contact your local distributor.*

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TYPICAL PRODUCT PARAMETERS

	Durablanket AC	Durablanket AC ₂
Typical Chemical Analysis (wt.%)		
SiO ₂	53.0 - 58.0	52.0 - 58.0
Al ₂ O ₃	42.0 - 47.0	-
Al ₂ O ₃ + ZrO ₂	-	42.0 - 48.0
Alkalis	<0.25	<0.25
Fe ₂ O ₃ + TiO ₂	<0.2	<0.2
Physical Properties		
Colour	White	White
Product density (kg/m ³)	64	56
Classification Temperature (°C) *	1250	1250
Melting Point (°C)	1760	1740
Tensile Strength (kPa)	30	30
Airflow Resistance (mks rays/m)	15,000 - 30,000	15,000 (max)
Thermal Conductivity (W/mK)		
Mean Temp.		
400 °C	0.12	0.14
600 °C	0.19	0.20
800 °C	0.31	0.30
Permanent Linear Shrinkage (%) 24 hour soak		
1250 °C	<4.0	<4.0

*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 your nearest Unifrax Engineering office. Where appropriate Physical Properties data measured according to EN 1094-1.

AVAILABILITY

Thickness (mm)	Durablanket AC	Durablanket AC ₂	Roll Length (m)
38	✓	✓	5.00
50	✓	✓	3.66

Standard roll width is 610mm

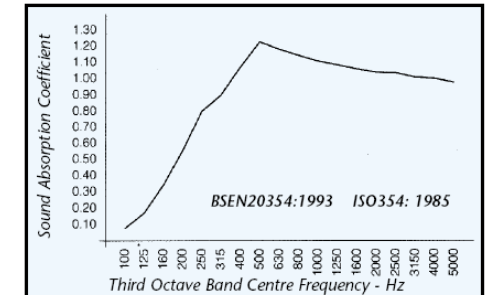
HANDLING INFORMATION

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.

GRAPHS

Typical Acoustic Properties (Durablanket AC).

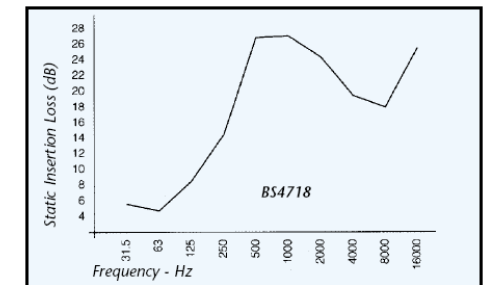
Random Incidence Sound Absorption Coefficient



Frequency Hz	125	250	500	1000	2000	4000	NRC*
Absorption Co-efficient	0.19	0.81	1.22	1.11	1.04	1.00	1.05

Measured on 50mm product *(ASTM C423-66)

Static Insertion Loss on Attenuator Samples



Frequency Hz	31.5	63	125	250	500	1000	2000	4000	8000	16000
Static Insertion Loss dB	5.7	4.8	8.5	14.5	26.9	27.1	24.2	19.4	18.0	25.5

Supplied by:

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