



DESCRIPTION

AES wool Flexiform shapes and felts are manufactured from Insulfrax or Isofrax alkaline earth silicate wools or mineral wool, which have high solubility in simulated body fluids and hence carry no hazard classification. These wools are blended with specially selected organic binders to give flexible insulating shapes with exceptional characteristics. The vacuum forming manufacturing method permits considerable freedom to vary shape, thickness, density and hardness. Flexiform shapes and felts often provide the most economical answer to producing large quantities of parts in simple or complex configurations for a wide range of applications up to 1200°C.

GENERAL CHARACTERISTICS

AES wool Flexiform shapes and felts have the following outstanding characteristics:

- High temperature stability
- Low thermal conductivity
- Resistance to thermal shock
- Lightweight
- Complex shape capability

TYPICAL APPLICATIONS

- Gaskets
- Walking beam furnace - skid rails insulation rings
- Expansion joints

Information on other applications available upon request. 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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AES WOOL FLEXIFORM SHAPES AND FELTS

Mineral wool, Insulfrax and Isofrax Flexiform shapes and felts are highly flexible products containing selected organic binders. This high degree of flexibility gives excellent compressive recovery characteristics and ease of installation in applications where a rigid shape would prove unsuitable. Various formulations are available to cover a range of application temperatures and requirements. For specific customer requirements it may be possible to offer a combination of both rigid and flexible properties combined in one product.



TYPICAL PRODUCT PARAMETERS

Flexiform	70	Insulfrax 110	Isofrax 120
Typical Chemical Analysis (wt. %) +/- 10%			
SiO ₂	39.0	65.0	75.0
CaO	-	27.0 - 33.0	-
MgO	-	2.5 - 6.5	18.0 - 27.0
CaO + MgO	39.0	-	-
Al ₂ O ₃	18.6	-	-
Other	<4.0	<1.0	<4.0
Physical Properties			
Colour	Grey	White	White
Product Density (kg/m ³) *	<350	<350	<350
Use Limit (°C) *	700	1100	1200
Loss on ignition (wt.%)	<10.0	<10.0	<10.0
Thermal Conductivity (W/mK)			
Mean Temp.			
400 °C	-	-	-
600 °C	-	0.12	0.13
800 °C	-	0.18	0.18
1000 °C	-	0.25	0.25
Permanent Linear Shrinkage (%) 24 Hour Soak			
600 °C	0.44	-	-
700 °C	0.53	-	-
1000 °C	-	1.8	2.0
1100 °C	-	2.2	2.4

*Use limit refers to the maximum short term temperature limit. The maximum continuous use limit for these products depends upon application conditions. For certain applications continuous use temperature limits may be significantly reduced. For assistance or clarification please contact your nearest Unifrax Engineering office.

*Density is indicative and relates to product characteristics before any secondary treatment. Actual density is dependent on piece size and geometry.

Where appropriate Physical Properties data measured according to EN 1094-1.

AVAILABILITY

Flexiform shapes and felts are engineered to specific customer requirements and are therefore made to order. Please contact your local Unifrax sales office to discuss your particular requirements.

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.

Supplied by: