

FIBERFRAX[®] MOIST-PAK D

Fiberfrax Moist-Pak D is made from ceramic fiber blanket and inorganic bonding agents resulting in a flexible insulation that air-dries to a hard, rigid structure.

Fiberfrax Moist-Pak D is ideal for insulation of complex shapes and for service under conditions of high hot gas velocities. Fiberfrax Moist-Pak possesses low thermal conductivity, low heat storage, and good thermal reflectance. It is low in density and display excellent resistance to thermal shock and chemical attack.

General Characteristics

Fiberfrax Moist-Pak has the following benefits:

- Flexible, easily moulded to complex shapes
- Excellent resistance to hot gas erosion
- Resistant to chemical attack
- Low thermal conductivity
- Excellent thermal shock

Storage and Drying

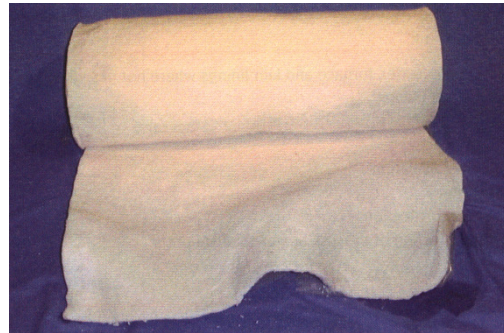
The material is packaged in a clear polyethylene bag to retain the wet binder during shipment and storage. Care should be taken to prevent freezing of the product.

Curing of the product can be accomplished by air drying for several days or by immediate temperature exposure in the application.

Curing is merely a function of removal of the water in the inorganic binder.

Chemical Analysis (wt.%)

Al ₂ O ₃	34.5%
SiO ₂	62.8%
Fe ₂ O ₃	0.64-0.80%
TiO ₂	0.54-1.37%
Alkali	0.23%



Typical Applications

- Hot face layer of Fiberfrax heater, furnace and kiln lining where hot gas velocities exceed 12.2 m/sec
- Hot gas duct, flue and stack linings
- Recuperator linings
- Blow pipe linings
- External and internal pipe insulation
- Reformer header insulation
- process furnace tube weld protection
- Thermal and corrosion protection of process heater tube supports.

Availability

- Moist-Pak D Rolls 6 mm or 13 mm thickness - 610 x 3810 mm
- Moist-Pak D Sheets 6 mm or 13 mm thickness - 610 x 900 mm

Physical Properties

Colour	White
Basic Composition	Alumina-silica
Continuous Use Limit	1100°C
Melting Point	1790°C
Typical Dry Density	190-290 kg/m
Specific Heat 1093°C	1130 J/kg °C
Tensile Strength 6.4 mm thickness	Wet = 1.2 x 10 ⁵ N/m Dry = 3.5 x 10 ⁵ N/m
Hot Gas Erosion Resistance	Over 30.5 m/sec
Normal Shelf Life	>1 year

Data are average results conducted under standard procedures and are subject to variation. Results should not be used for specification purposes.