Supermag
Low Bio-Persistence products

Nutec™ Supermag is a high temperature body low bio-persistence fiber that utilizes a unique spinning technology to create a special fiber with superior thermal and mechanical properties. This fiber is made from a blend of calcium, silica and magnesium and can be exposed to temperatures up to 2018 °F (1103 °C).

Nutec™ Supermag products are produced in our ISO-9001: 2008 certified facility where bulk, double needled blanket and modules are manufactured. The Nutec™ Supermag family of products can be used in a variety of applications including refractory linings, thermal insulation, and fire protection.

Typical Physical Properties	Supermag Blanket	Supermag Board	Supermag Bulk
Density lb/ft³ (kg/m³)	4, 6, 8, 10 (64, 96, 128, 160)	21 - 25 (336 - 400)	---
Max. Short Term Exposure °F (°C)	Up to 2018 (1103)	Up to 2192 (1200)	Up to 2192 (1200)
Continuous Use Limit, °F (°C)	2012 (1100)	1832 (1000)	1832 (1000)
Melting Point, °F (°C)	2320 (1270)	2320 (1270)	2320 (1270)
Typical Chemical Analysis, %			
SiO_2	60 - 70	65 - 72	60 - 67
CaO	25 - 35	24 - 29	28 - 33
MgO	3 - 7	3 - 5	1 - 7
Others	0 - 1	0 - 1	0 - 1
Linear Shrinkage			
24 Hr @2012 °F (1100°C)	1.2	1.2	1.2
Color	White	White	White

Blanket Dimensions

Standard (in)	Europe (mm)
1/2 x 24 x 600	12.5 x 610 x 14640
3/4 x 24 x 300	19 x 610 x 7320
1 x 24 x 300	25 x 610 x 7320
1 1/2 x 24 x 150	38 x 610 x 4800
1 3/4 x 24 x 150	50 x 610 x 3660
2 x 24 x 150	

Board Dimensions

Standard (in)	Europe (mm)
1/2 x 24 x 36	Width: 610 & 1000
1 x 24 x 36	Thickness: 10, 25, 38, 50
1 1/2 x 24 x 36	Length: 1000 & 1220
2 x 24 x 36	

FEATURES

- Low Thermal Conductivity
- Low Heat Storage
- High Tensile Strength
- Thermal Shock Resistance
- Lightweight
- Excellent Corrosion Resistance

TYPICAL APPLICATIONS

- Aluminum Homogenizing Furnaces
- Back-Up Insulation
- Annealing Furnaces
- Stress Relieving
- Heat Treating Furnaces
- Crude Heaters
- Co-Generation Ducts
- Insulating Pads
- Expansion Joints

Health and Safety information: Supermag products by Nutec™ meet European regulatory requirement Directive 97/69/EC, and possess a fiber chemistry within the regulatory definition of a "man-made vitreous (silicate) fiber with random orientation with alkaline oxide and alkaline earth oxide content greater than 18% by weight". Please Refer to the product Safety Data Sheet (SDS) for other recommended product safety information.