

Soluble Fiber Supermag* 1200



Nutec Fibratec Supermag* blanket is a high temperature body soluble fiber that utilizes a unique spinning technology to create a special fiber with superior thermal and mechanical properties. This special fiber is made from a blend of calcium, silica and magnesium having the ability to support maximum temperatures up to 1200°C

Nutec Fibratec Supermag* products are produced in our ISO-9001:2000 certified facility where bulk, double needled blanket and modules are manufactured. The Nutec Fibratec Supermag* family of products can be used in a variety of applications including refractory linings, thermal insulation, metals transfers and fire protection.

Features

- Low thermal conductivity
- Very low heat storage.
- Very high tensile strength
- Thermal shock resistance.
- Low weight
- Excellent corrosion resistance.

Typical Applications

- Aluminum homogenizing furnace linings
- Back up insulation for dense refractory
- Annealing furnace linings
- Stress relieving blankets
- Heat treating furnace linings
- Crude heater linings
- Co-generation duct linings
- Reusable insulating pads
- Expansion joints

* This product is manufactured in Mexico by Nutec under patent license (US Patent Nos. 5332699, 5714421, 5994247, 6180546, 7259118 and equivalent patents elsewhere)

Technical Specifications	Supermag* Blanket	Supermag* Board	Supermag* Bulk
Density, lb,ft³ (kg/m³)	4,6,8,10 (64, 96,128,160)	25 – 25 (336 – 400)	---
Max. Short term exposure °F(°C)	2192 (1200)	2192 (1200)	2192 (1200)
Continuous Use Limit, F (°C)	1832 (1000)	1832 (1000)	1832 (1000)
Melting Point, °F (°C)	2320 (1275)	2320 (1275)	2320 (1275)
Fiber Length, in (mm)	8 (203)	8 (203)	8 (203)
Typical Chemical Analysis, %			
SiO₂	62 – 67	65 – 72	62 – 67
CaO	28 – 33	24 – 29	28 – 33
MgO	1 – 6	3 – 5	1 – 6
Others	0 – 1	0 – 1	0 – 1
Thermal Conductivity, BTU-in/hr-ft²-°F (W/m-°K)			
Mean Temperature, 8 lb/ft³ (128 kg/m³)			
500 °F (260 °C)		0.42 (0.06)	
1000 °F (538°C)		0.82 (0.12)	
1500 °F (816°C)		1.32 (0.19)	
1800 °F (982°C)		1.67 (0.24)	
2000 °F (1093°C)		1.92 (0.28)	
Mean Temperature, 6 lb/ft³ (96 kg/m³)			
500 °F (260 °C)		0.48 (0.07)	
1000 °F (538°C)		0.97 (0.14)	
1500 °F (816°C)		1.57 (0.23)	
1800 °F (982°C)		1.98 (0.29)	
2000 °F (1093°C)		2.27 (0.33)	
Linear Shrinkage			
24 Hr @ 2012 °F (1100°C)	1.2	1.2	1.2
Fiber Diameter, Microns	3.0	3.0	3.0
Color	Blue / White	Blue / White	Blue / White
Blanket Dimensions		Board Dimensions	
Standard (in)	Europe (mm)	Standard (in)	Europe (mm)
¼ x 24 x 600	6 x 610 x 21960	½ x 24 x 36	Ancho:
½ x 24 x 600	12.5 x 610 x 14640	1 x 24 x 36	610 & 1000
¾ x 24 x 300	19 x 610 x 9640	1 ½ x 24 x 36	Espesor:
1 x 24 x 300	25 x 610 x 7320	2 x 24 x 36	10, 25, 38, 50
1 ½ x 24 x 150	38 x 610 x 4800		Largo:
1 ¾ x 24 x 150	50 x 610 x 3660		1000 & 1220
2 x 24 x 150			