



SuperMag 2200

Low Biopersistence Fiber Blanket

SuperMag 2200 blanket is made from long strand spun, fine low biopersistent (LBP) fibers with lower shot content forming a flexible needled product with high strength and superior thermal properties at temperatures up to **2200°F** (1200°C).

SuperMag 2200 blankets are completely inorganic, binder-free products that produces no smoke/outgassing.

SuperMag 2200 blankets are considered a cost-effective alternative to Refractory Ceramic Fiber (RCF) products for applications up to **2200°F** (1200°C), and is available in a range of thicknesses and densities.

 This product meets Note Q of the European Directive 1272/2008 for biosolubility

Key Features

- Low Thermal Conductivity & Shrinkage
- Low Heat Storage
- High Tensile Strength
- Thermal Shock Resistance
- Chemical Corrosion Resistance
- Completely Inorganic
- Contains no Asbestos
- Excellent Sound Absorption
- Flexible, Lightweight & Easy to Install

Visit [nutec.com](https://www.nutec.com) for more information



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Technical Data Sheet Rev. 14 (3/19/2024)

Physical Properties	
Color	White
Maximum Use Temperature	2200°F (1200°C)
Continuous Use Temperature	2012°F (1100°C)
Typical Shrinkage @ 2200°F / 24 hrs	1.2%
Specific Heat (BTU/lb°F)	0.27
Average Fiber Diameter	3.5 Microns

Chemical Composition (%)	
SiO ₂	60-70
CaO	25-35
MgO	3-7
Trace Elements	Less than 1%
LOI	0

SuperMag 2200	4#	6#	8#	10#
NOMINAL DENSITY lb/ft ³ (kg/m ³)	4 (64)	6 (96)	8 (128)	10 (160)

Thermal Conductivity BTU•in/hr•ft ² •°F (W/mK) ASTM C201				
MEAN TEMPERATURE	DENSITY 4#	DENSITY 6#	DENSITY 8#	DENSITY 10#
392°F (200°C)	0.42 (0.06)	0.347 (0.05)	0.416 (0.06)	0.347 (0.05)
752°F (400°C)	0.90 (0.13)	0.694 (0.10)	0.694 (0.10)	0.61 (0.09)
1112°F (600°C)	1.67 (0.24)	1.25 (0.18)	1.11 (0.16)	0.97 (0.14)
1472°F (800°C)	2.78 (0.4)	2.01 (0.29)	1.80 (0.26)	1.53 (0.22)
1832°F (1000°C)	4.09 (0.59)	2.78 (0.40)	2.78 (0.40)	2.29 (0.33)

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

Please refer to the product Safety Data Sheet (SDS) for recommended work practices and other product safety information.



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Standard Roll Sizes *For availability on custom specifications, please contact your NUTEC Sales Engineer					
THICKNESS		DENSITY (lb/ft ³)		WIDTH	LENGTH
¼"		8		24"	600"
½"		8		24"	600"
½"		6	8	24"	600"
1"		8		24"	300"
1"		6	24"		300"
1"		8		48"	300"
1"		8		48"	600"
1½"		6	24"		300"
2"		6	8	24"	150"
2"		6	48"		150"

Strip Sizes by Order *Minimum order applies. Please consult with your NUTEC Sales Engineer							
THICKNESS	DENSITY (lb/ft ³)				WIDTH	LENGTH	
1/4"	6 8				1" - 48"	600"	
1/2"	4	6	8	10	1" - 48"	300"	600"
3/4"	4	6	8	10	1" - 48"	150"	300"
1"	4	6	8	10	1" - 48"	150"	300"
1 1/2"	4	6	8		1" - 48"	150"	300"
2"	4	6	8		1" - 48"	150"	300"

NUTEC's **SuperMag** low biopersistence (LBP) fibers are not classified as carcinogenic under various international regulations. SuperMag LBP fibers do not require warning labels under the Globally Harmonized System (GHS) regarding the classification and labeling of chemicals.

SuperMag LBP fibers meet the *Note Q* requirements of European Regulation EC 1272/2008 and as such are exonerated from classification and labeling as hazardous substances in Europe.

NUTEC Inc.

11830 Mt Holly-Huntersville Rd
Huntersville
NC 28078
USA

1 (704) 946-2427
info@nutec.com

