



SuperMag[®] 2200

Low Biopersistence Fiber Blanket

SuperMag 2200 blankets are 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). The strong needling of **SuperMag 2200** blankets results in a completely inorganic, binder-free product that produces no smoke/outgassing.

SuperMag 2200 is 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 the European Directive 1272/2008 for biosolubility

Key Features

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

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



Physical Properties

Color	White
Maximum Use Temperature	2200°F (1200°C)
Continuous Use Temperature	2150°F (1177°C)
Shrinkage @ 2200°F/24 hrs	0-1.5%
Specific Heat (BTU/lb°F)	0.27
Average Fiber Diameter	3-4 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•ft²•°F (W/mK)

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)

AVERAGE TENSILE STRENGTH

6.6 psi	8.7 psi	10.3 psi	12 psi
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Standard Sizes *For availability on custom specifications, please contact your NUTEC Sales Engineer

THICKNESS	DENSITY (lb/ft ³)	WIDTH	LENGTH
½"	8	24"	600"
½"	6	8	24"
1"	8	24"	300"
1"	6	24"	300"
1"	8	48"	300"
1"	8	48"	600"
1½"	6	24"	300"
2"	6	8	24"
2"	6	48"	150"

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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SuperMag 2200 blanket products, and all competitive products of similar chemistry, exhibit a loss of tensile strength when exposed to moisture. The extent of this loss depends on levels of exposure and conditions of storage. We recommend that these products be put into service as soon as possible after receipt, and that their use after six (6) months is undertaken only after thorough inspection of the blanket. **The purchaser assumes all responsibility for fitness of application**

