SuperMag EVO 2200

Low Biopersistence Fiber Blanket

SuperMag EVO 2200 is a new and enhanced low biopersistence fiber blanket. It is produced from pure raw materials to provide exceptional performance and outstanding insulating properties in high-temperature applications. It is a more robust fiber – with better mechanical properties and resilience – than the regular **SuperMag** and **SuperMag HI** fibers. It is also characterized by lower thermal conductivity and lower shrinkage.

SuperMag EVO 2200 has excellent thermal stability up to its recommended continuous limit temperature, and it is resistant to chemical attack except phosphoric acid, fluoric acid, and strong alkalis such as NaOH and KOH. **SuperMag EVO 2200** is a binder-free product that produces no smoke/outgassing at first firing.

SuperMag EVO 2200 is rated to **2200°F** (1200°C) with a maximum continuous limit temperature of 2012°F (1100°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 Biopersistence Fiber
- Low Thermal Conductivity & Shrinkage
- Low Heat Storage
- High Tensile Strength
- Thermal Shock Resistance
- Chemical Corrosion Resistant
- Completely Inorganic. No Organic Binders
- Flexible and Resilient Fibers

Visit nutec.com for more information

SuperMag EVO **2200**

Low Biopersistence Fiber Blanket

Technical Data Sheet Rev. 7 (3/14/2024)

Product Properties	
Color	White
Maximum Use Temperature	2200°F (1200°C)
Continuous Use Temperature	2012°F (1100°C)
Typical Shrinkage @ 2200°F / 24 hrs	1%
Specific Heat (BTU/lb°F)	0.27
Average Fiber Diameter	2.7 Microns

Chemical Composition* (%)	
SiO_2	62-68
CaO	26-32
MgO	3-7
Others	Less than 1%

**Chemical Analysis, %, Weight Basis After Firing*

SuperMag EVO **2200**	**6#**	**8#**
NOMINAL DENSITY lb/ft³ (kg/m³)	6 (96)	8 (128)

Thermal Conductivity BTU•in/hr•ft²•°F (W/mK) **ASTM C201**

MEAN TEMPERATURE	**DENSITY 6#**	**DENSITY 8#**
392°F (200°C)	0.35 (0.05)	0.35 (0.05)
752°F (400°C)	0.55 (0.08)	0.49 (0.07)
1112°F (600°C)	0.97 (0.14)	0.83 (0.12)
1472°F (800°C)	1.39 (0.20)	1.11 (0.16)
1832°F (1000°C)	2.01 (0.29)	1.67 (0.24)

Standard Sizes *For availability on custom specifications, please contact your **NUTEC** Sales Engineer

THICKNESS	**DENSITY** (lb/ft³)		**WIDTH**		**LENGTH**
½"	6	8		48"	600"
1"	6	8		48"	300"
1"	6	8	24		300"
1"	6	8		48"	300"
2"	6	8	24"		150"

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.

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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