

supermag soluble wool products

Nutec™ Supermag 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 fiber is made from a blend of calcium, silica and magnesium and can be exposed to temperatures up to 2192 °F (1200°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 ft ³ /lb (m ³ /Kg) | 4, 6, 8, 10 (64, 96, 128, 160) | 21 - 25 (336 - 400) | --- |
| Max. Short Term Exposure °F (°C) | Up to 2192 (1200) | Up to 2192 (1200) | Up to 2192 (1200) |
| Continuous Use Limit, °F (°C) | 1832 (1000) | 1832 (1000) | 1832 (1000) |
| Melting Point, °F (°C) | 2320 (1270) | 2320 (1270) | 2320 (1270) |
| Typical Chemical Analysis, % | | | |
| SiO ₂ | 60 - 67 | 65 - 72 | 60 - 67 |
| CaO | 28 - 33 | 24 - 29 | 28 - 33 |
| MgO | 1 - 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 | |

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

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 Material Safety Data Sheet (MSDS) for other recommended product safety information.