



Ceramic Fiber Paper Insulation

Product Description:

MaxPly2600 is a ceramic fiber paper manufactured from high index, high purity, spun fiber with an acrylic latex binder forming a uniform, strong, flexible, lightweight sheet. High index, spun fiber technology increases both the paper green strength as well as retained strength after binder removal.

Nutec's high index fiberization process eliminates coarse shot normally associated with high temperature fibers, without the costly step of pre-washing the fiber. The result is a 30% decrease in thermal conductivity as compared to standard high shot fiber papers with a reduction of nuisance dust and cutting tool abrasion.

High temperature stability combined with extremely low thermal conductivity make **MaxPly2600** the perfect solution for many applications including thermal insulators, heat shields, gaskets and seals.

Features and benefits:

- High temperature stability.
- Low thermal conductivity.
- Low heat storage.
- Lightweight, strong, flexible.
- Easy to fabricate, low dust.
- High compressive strength.

Markets & Applications:

MaxPly2600 papers are commonly used in demanding applications where thin, lightweight, high temperature materials are needed:

- **Automotive:** Exhaust heat shields, airbags inflators, electric vehicle lithium battery separators
- **Appliances:** Ovens, stoves, electric heaters, boilers
- **Industrial Heat processing:** Ceramic & Glass, Petrochemical, Steel, Non-Ferrous Metals
- **Fire Protection**
- **Aerospace**



PRODUCT INFORMATION SHEET

Paper Properties: (Typical)

Color: White
Density: 10-12 PCF
Fiber Index: 65%
LOI (Organic Binder): 8-10%

Chemical Composition: (fiber)

Al₂O₃: 50% (approx.)
SiO₂: 50% (approx.)
Other: less than 1%

Product Availability:

Thickness

- MP-175F-1/16" (0.0625")
- MP-350J-1/8" (0.125")
- MP-700K-1/4" (0.250")

Standard widths: 24" & 48"

Non-standard widths from 1" to 72" available upon request.

Standard lengths; approx. weight: 24" & 48"

MP-175F = 200 LF/roll, 25 lbs., 50 lbs.
MP-350J = 100 LF/roll, 25 lbs., 50 lbs.
MP-700K = 50 LF / roll, 25 lbs., 50 lbs.

Temperature Rating:

| | (°F) | (°C) |
|----------------------------|------|------|
| Maximum Use Temperature | 2600 | 1425 |
| Continuous Use Temperature | 2450 | 1343 |
| Melting Point: | 3260 | 1793 |

Thermal Conductivity (ASTM C-201)

| Mean Temp | BTU-in/ft ² -hr-°F | W/m K |
|-----------------|-------------------------------|-------|
| 500°F (260°C) | 0.40 | 0.06 |
| 1000°F (538°C) | 0.63 | 0.09 |
| 1500°F (815°C) | 0.95 | 0.14 |
| 2000°F (1100°C) | 1.38 | 0.20 |

Tensile strength: 50 – 100 psi (0.34 MPa – 0.69 MPa)

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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