

NUPLY™ Papers

SuperPly2 High Temperature Insulation

Product Description:

SuperPly2 is a high temperature paper manufactured from a high index, low bio-persistent spun fiber with an acrylic latex binder to form a uniform, strong, flexible, light-weight sheet.

The high temperature stability combined with extremely low thermal conductivity make **SuperPly2** the perfect solution for many different applications as a thermal insulator, heat shield, gasket or seal.

This high temperature paper uses the new high index, spun fiber technology adding to both the green strength as well as the retained strength after the binders are removed.

Nutec's "high index" fiberization technology eliminates the course shot fraction 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 the standard high shot fiber papers. In addition, it eliminates nuisance dust and reduces abrasion on cutting tools.

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:

SuperPly2 papers are commonly used throughout industry where thin, light-weight, high temperature materials are needed:

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

Temperature Rating:

	(F)	(C)
Maximum Temp:	2200	1200
Continuous:	2100	1150
Melting Point:	2300	1250

SuperPly2 Paper Properties: (Typical)

Color: White

Density: 12 PCF

Fiber Index: 65%

LOI (Organic Binder): 10%

Chemical Composition: (fiber)

Calcium Oxide: 50% (approx.)

Silica Oxide: 50% (approx.)

Magnesium Oxide: 6% (approx.)

Other: less than 1%

SuperPly2 availability:

(2) standards basis weight/ calipers

- SP2-175F-1/16" (0.625")
- SP2-350J-1/8" (0.125")
- SP2-700K-1/4" (0.250")

(2) Standard widths: 24" & 48"

non-standard widths from 1" to 72"
available upon request

Standard lengths; approx. weight 24" & 48"

SP2-175F = 200 LF/roll, 25 lbs., 50 lbs.

SP2-350J = 100 LF/roll, 25 lbs., 50 lbs.

SP2-700K = 50 LF / roll, 25 lbs., 50 lbs.

*Health & Safety Information: SuperPly2 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 Safety Data Sheet (SDS) for recommended work practices and other product safety information