

LYTHERM® ROLLBOARD

HIGH TEMPERATURE CERAMIC PAPERS

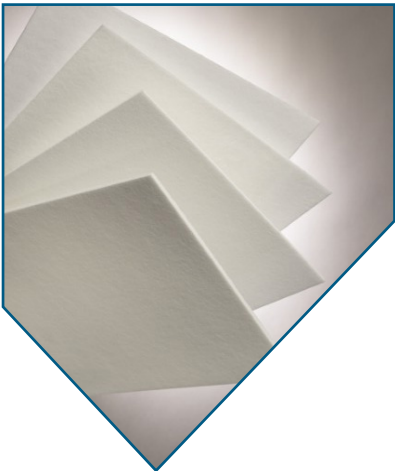
Partners
in performance



High Temperature Thermal Barrier

LyTherm® Rollboard paper is a lightweight refractory material processed from a blend of high purity alumina-silica fibers into a highly flexible, uniform insulation media. It is recommended for continuous use at temperatures up to 2300 °F (1260°C).

LyTherm Rollboard is a utility grade paper that has low shrinkage, good handling strength, and low thermal conductivity. It contains a small amount of organic binder for processing, which makes it flexible, yet reduces off gassing and odor during use. It's flexibility allows it to be wrapped or rolled to fit most complex configurations.



- Easy to cut, wrap, or form
- Temperature stability
- Low thermal conductivity
- Low heat storage
- Resilient
- Light Weight
- Thermal Shock resistant
- High heat reflectance
- Excellent corrosion resistance
- Good dielectric strength
- High fired tensile strength
- Good flame resistance
- ISO 9001: 2008 Certified

For outstanding thermal barrier's at high temperatures, trust the LYTHERM® family of ceramic papers.

LYTHERM® Rollboard Typical Properties

Physical Properties	
Melting Point, °F (°C)	3200 (1760)
Use Limit, °F (°C)	2300 (1260)
LOI, %	6
Density, lb/ft ³ (kg/m ³)	10 (160)
Dielectric Strength, V/mil	50
Mullen Burst, psi	-

Chemical Properties %	
Al ₂ O ₃	47.00
SiO ₂	52.62
Na ₂ O	0.18
Fe ₂ O ₃	0.03
Others	0.17

Tensile Strength lb/in (kg/25mm)	Roll 1/8"	Roll 1/16"
Machine Direction Tensile	9.92 (4.43)	5.51 (2.46)
Cross Direction Tensile	8.81 (3.94)	5.51 (2.46)

Apparent Thermal Conductivity

Mean Temperature, °F (°C)	Thermal Conductivity* BTU in/hr ft ² °F (W/mK)
75 (167)	0.300 (0.043)
177 (350)	0.390 (0.056)
260 (500)	0.468 (0.068)
343 (650)	0.548 (0.079)

*Per ASTM C177 at 1/8" Rollboard

LYTHERM® Rollboard Product Availability

Standard Product Sizes	
Normal Thickness in (mm)	1/16, 1/8 (1.60, 3.20)
Stand Widths in (mm)	24", 48" (610, 1220)
Custom Widths in (m)	< 72 (< 1.8)

Applications

- Asbestos paper replacement
- Investment cast mold wrap insulation
- One-time consumable insulating applications
- Backup lining for metal troughs
- Hot top linings
- Applications where low binder content is required
- Thermal and electrical insulation
- Upgrade for fiberglass paper and blanket products

Testing/Engineering Services

- Thermal imaging for performance validation
- Thermal conductivity for material characterization
- Thermal modeling for engineering solutions

Note: All product data is nominal and does not represent a specification.

All data and statements concerning these products may be considered as being indicative of representative properties and characteristics obtainable. We make no warranty, expressed or implied, concerning actual use or results because of industry specific influences.

