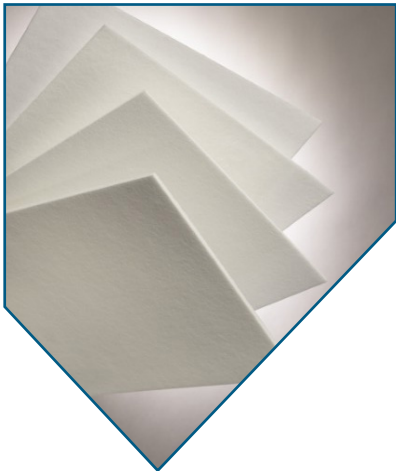


# LYTHERM® 1530

HIGH TEMPERATURE CERAMIC PAPERS

Partners  
in performance



## Premium Grade Paper

*LyTherm*® 1530-L premium grade paper is a lightweight refractory material processed from highly washed, spun, high purity alumina-silica fibers formed into a highly flexible sheet. It is recommended for continuous use at temperature up to 2300°F (1260°C) in applications requiring high strength, resiliency, and excellent thermal properties.

Because it is formulated with a low content of unfiberized particles, *LyTherm* 1530 paper offers an extremely low thermal conductivity and a dust-free surface. It was designed specifically for applications where low shot content, compression recovery, low thermal conductivity, and minimum shrinkage are of critical importance.

*LyTherm* 1535-GC is a lightweight refractory composite composed of an inner core of alumina-silica paper quilted with a durable textile cladding. *LyTherm* 1535-GC is designed for use in applications where abrasion resistance is of the utmost importance.

- High tensile strength
- Low shot content
- Protection against corrosion
- Reduced heat loss and skulling
- Minimal shrinkage
- Chemical stability
- ISO 9001: 2008 Certified

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

**LYTHERM® 1530 Typical Properties**

Physical Properties	1530-L	1535-GC
Melting Point, °F (°C)	3200 (1760)	3200 (1760)
Use Limit, °F (°C)	2300 (1260)	2300 (1260)
LOI, %	8-10	10
Density, lb/ft <sup>3</sup> (kg/m <sup>3</sup> )	6-9 (96-144)	10-12 (160-192)
Dielectric Strength, V/mil	55	-
Mullen Burst, psi	27	46

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

Tensile Strength lb/in (kg/25mm)	1530-L	1535-GC
Machine Direction Tensile	26.46 (11.81)	28.77 (12.84)
Cross Direction Tensile	13.23 (5.90)	17.64 (7.87)

**Apparent Thermal Conductivity**

Mean Temperature, °F (°C)	Thermal Conductivity* BTU in/hr ft <sup>2</sup> °F (W/mK)
260 (500)	0.062 (0.43)
426 (800)	0.082 (0.57)
704 (1300)	0.120 (0.83)
870 (1600)	0.141 (0.98)

\*Per ASTM C177

**Product Availability**

Grade	1530-L	1535-L	1535-GC
Normal Thickness in (mm)	1/32, 1/16, 1/18 (0.8, 1.60, 3.20)	1/4 (6.35)	1/4 (6.35)
Stand Widths in (mm)	12, 24, 36, 48 (305, 610, 915, 1220)	12, 24, 36, 48 (305, 610, 915, 1220)	24 (610)
Custom Widths in (m)	< 72 (< 1.8)		

**Applications**

- Parting plane in refractory linings
- Combustion chamber liners
- Backup lining for metal troughs
- Hot top linings
- Thermal and electrical insulation
- Refractory backup insulation
- Coke oven door shock absorption medium
- Kiln car deck covering

**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.

