



TYPICAL PROPERTIES

NON-RESPIRABLE FIBER PAPER

**LDF (large diameter fiber)
Ceramic Fiber-free**

LYTHERM LDF PAPER is a lightweight insulating material composed of large diameter, inorganic, high temperature fibers processed into a highly flexible sheet. It is recommended for intermittent use at temperatures up to 1500°F (815°C) with a continuous use of 1400°F (760°C), in applications requiring an alternative to man-made vitreous blown or spun fiber products.

LYTHERM LDF PAPER contains no shot or unfiberized particles, which results in an extremely clean paper with very low thermal conductivity and a smooth, homogenous surface. LYTHERM LDF PAPER was designed specifically for use in the appliance, automotive, and consumer equipment industries where these ceramic-free papers offer the advantage of high insulating efficiency, a clean shot-free surface, and less irritation during handling.

LYTHERM LDF PAPER contains an organic binder to provide increased handling strength at room temperature. It possesses good chemical stability and resists attack from most corrosive agents. If it becomes wet due to water, steam, or oil, its thermal and physical properties will return upon drying.

Advantages

- Easy to cut wrap or form
- Temperature stability
- Low thermal conductivity
- Non irritating
- Resilient
- Light weight
- Thermal shock resistant
- High heat reflectance
- High tensile strength
- Ceramic fiber alternative

Applications

- Ceramic fiber paper and blanket alternative
- Anode baking pit expansion joints
- Automotive heat shield insulation
- Aircraft thermal barriers
- Sound absorption
- Molten metal filter gaskets
- Appliance insulation

Available Roll Sizes and Thicknesses

Available Widths: 24", 36", 48"
(Other Widths Available up to 72" Maximum)

1/16" ' "	#10	#25	MR
1/8"	#10	#25	MR
1/4"	#10	#25	MR
3/8"	#10	#25	MR

All data and statements concerning these products may be considered as being indicative of representative properties and characteristics obtainable. Since industry practices vary, we make no warranty, express or implied, concerning their use, nor do we accept responsibility for any misapplications of these products, or their use under any conditions.



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Technical Data

Melting Point	1550°F (850°C)
Maximum Use Temperature	1500°F (800°C)

Typical Chemical Analysis:

Al₂O₃	14.8%
SiO₂	54.3%
CaO	17.4%
TiO₂	0.6%
MgO	4.9%
Others	8.0%
LOI	7%
Density lbs/ft³ (kg/m³)	5-7 (80-112)

Thermal Conductivity

Mean Temperature	BTU-in/hr/ft²/°F
°F (°C)	(w/m°C)
400 (204)	.333 (.048)
800 (427)	.596 (.085)
1200 (650)	1.047 (.150)
1450 (788)	1.456 (.210)

HEALTH AND SAFETY SUMMARY

Because LYTHERM LDF PAPER is processed from Non-Respirable fibers with an average diameter greater than 6 micron, this product does not fall in the same Health and Safety category as Refractory Ceramic Fiber products. The evidence from human as well as animal studies was evaluated as insufficient to classify continuous filament fibers as a possible, probable, or confirmed hazardous material. LYTHERM LDF PAPER is listed as an IARC Class III material, and carries no warning label.

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