

## Binderless Paper

### Features/Advantages

- Easy to cut wrap or form
- 3000°F Temperature stability
- Low thermal conductivity
- Low heat storage
- Resilient and flexible
- Light Weight
- Thermal shock resistant
- Good electric strength
- High fired tensile strength
- Good flame resistance

### Applications

- Vacuum Heat Treat applications above 2600°F
- Powdered metal sintering
- Tray and basket liner
- Separating media to prevent sticking and contamination
- Heat Treating for military, aerospace, nuclear, and medical industries
- Parting agent in brazing, heat treating, and metal forming processes
- Applications requiring low silica content

### Available Roll Sizes and Thicknesses

1/32"	#15
1/16"	#15
1/8"	#15

Available Widths: 12", 24"

LyTherm® 3000-LH paper does not contain organic binders, which must be subsequently burned off, and is manufactured using a patented process that provides high tensile handling strength.

3000-LH Papers are designed specifically for use in high temperature heat treating of alloys, ceramics, and powdered metals, where silica contamination, excessive shrinkage, and surface cleanliness are problems. 3000-LH Papers can be cut and handled without tearing and have a clean dust-free surface, which eliminates metal pitting. Their binderless formulation prevents carbon pick up and surface discoloration.

LyTherm® 3000-LH Binderless Paper possesses excellent chemical stability and resists attack from most corrosive agents. Exceptions are hydrofluoric and phosphoric acids and concentrated alkalis. Because of its high purity chemistry, LyTherm® 3000-LH Paper resists both oxidation and reduction.

	3000-LAH	3000-LFH	3000-LJH
<b>Tensile Strength – gms/inch</b>			
Machine Direction	100	200	400
Cross Direction	75	150	300
<b>Thickness Specifications:</b>			
Nominal	1/32" (0.80mm)	1/16" (0.60mm)	1/8" (3.20mm)
Uncompressed (in. @ 4psf)	0.032 (0.80mm)	0.063 (2.54mm)	0.125 (3.20mm)

### Technical Data

<b>Melting Point</b>	3600°F (1982°C)
Maximum Use Temperature	3000°F (1650°C)
Typical Chemical Analysis:	
Al <sub>2</sub> O <sub>3</sub>	97.0%
Silica	2.8%
<b>Other Oxides</b>	.2%
Density lbs/ft <sup>3</sup> (kg/m <sup>3</sup> )	6-8(96-128)