LyTherm®
A Lydall Engineered Product

Grade 880-LH

Binderless Grade Paper

LyTherm® 880-LH Binderless Grade Paper is a 100% inorganic material processed from washed, spun, high purity alumina-silica fibers. It is recommended for continuous use at temperatures up to 2600°F (1427°C) in applications where off-gassing of the organic binder cannot be tolerated.

Features/Advantages

- Easy to cut, wrap or form
- Temperature stability
- Low thermal conductivity
- Low heat storage
- Resilient and Flexible
- Light Weight
- Thermal shock resistant
- Good dielectric strength
- High fired tensile strength
- Good flame resistance

Applications

- Vacuum Heat Treat applications above 2300°F
- Powdered metal sintering
- Tray and basket liner
- Separating media to prevent sticking
- Military, aerospace, nuclear, and medical industries
- Parting agent in brazing, heat treating, and metal forming processes
- Applications requiring low silica content

LyTherm® 880-LH Paper does not contain organic binders, which must be subsequently burned off, but is manufactured using a patented process that provides high tensile handling strength. Because it is processed from higher alumina content fibers, LyTherm 880-LH Paper has a higher use temperature, is less chemically reactive, and has lower thermal shrinkage. It is a clean, low shot content paper with extremely low thermal conductivity.

880-LH Papers are engineered primarily for applications in the heat treat industry above 2300°F, where silica contamination, shrinkage, and tensile strength are problems. 880-LH Papers can be cut and handled without tearing, have a clean dust-free surface which eliminates metal pitting, and their binderless formulation prevents carbon pick up and surface discoloration.

LyTherm 880-LH Binderless Paper possesses excellent chemical stability and resists attack from most corrosive agents. Exceptions are hydrofluoric and phosphoric acids and concentrated alkalies.

	880-LAH	880-LFH	880-LJH
Tensile Strength – gms/inch			
Machine Direction	432	696	900
Thickness Specifications:			
Nominal	1/32″ (0.80mm)	1/16″ (0.60mm)	1/8″ (3.20mm)
Uncompressed (in. @ 4psf)	0.032	0.063	0.125

Available Roll Sizes and Thicknesses

1/32″	#15
1/16″	#15
1/8″	#15

Available Widths: 12″, 24

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Technical Data

Melting Point	3500°F (1927°C)
Maximum Use Temperature	2600°F (1427°C)
Typical Chemical Analysis:	
Al_2O_3	55.00%
$S1O_2$	43.70%
Fe_2O_3	0.08%
Others	1.22%
LOI	0%
Density lbs/ft³ (kg/m³)	9(144)
Dielectric Strength (Volts/mil)	50

Thermal Conductivity

Mean Temperature °F(°C)	BTU-in/hr/ft²/°F(w/m°C)
500 (260)	.39 (.057)
800 (427)	.55 (.079)
1300 (704)	.87 (.126)
1600 (871)	1.05 (.152)

Thermal Conductivitv
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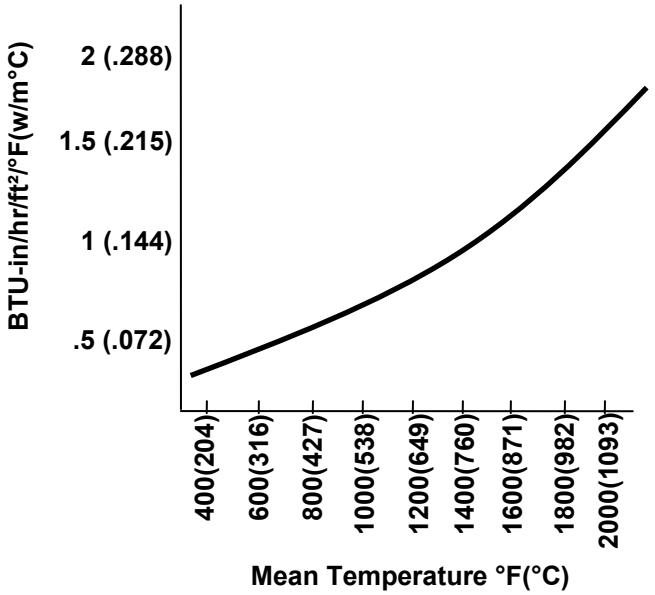

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