

Utility Grade Paper

Features/Advantages

- Easy to cut wrap or form
- Temperature stability
- Low thermal conductivity
- Low heat storage
- Resilient
- Light Weight
- Thermal shock resistant
- High heat reflectance
- Good dielectric strength
- Excellent corrosion resistance

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

LyTherm® 550-L Utility Grade Paper is processed from unwashed spun, high purity alumina-silica fibers formed into a highly flexible sheet. It is recommended for continuous use at temperatures up to 2300°F (1260° C) in applications where insulating efficiency is not critical. LyTherm® 550-L is designed for use primarily in applications where thermal stability and high temperature protection up to 2300°F (1260°C) are most important, such as high temperature parting plane in refractory linings or as an expansion joint.

Lytherm® 550-L Utility Paper contains organic binder to provide increased handling strength at room temperature. It possesses excellent chemical stability and resists attack from corrosive agents. Exceptions are hydrophilic and phosphoric acids and concentrated alkalis. Because of its high-purity chemistry, LyTherm® 550-L Utility Paper resists both oxidation and reduction. If it becomes wet due to water, steam or oil, its thermal and physical properties will return upon drying.

| | 550-LF | 550-LJ |
|--|-------------------|------------------|
| Tensile Strength – gms/inch | | |
| Machine Direction | 3500 | 5800 |
| Cross Direction | 2400 | 5000 |
| Mullen Burst – lbs/in² (kg/cm²) | | |
| | 8 (0.56) | 22 (1.55) |
| Thickness Specifications: | | |
| Nominal | 1/16" (1.60mm) | 1/8" (3.20mm) |
| Uncompressed (in. @ 4psf) | 0.085 | 0.160 |

Available Roll Sizes and Thicknesses

| | | | |
|-------|-----|-----|----|
| 1/16" | #10 | #25 | MR |
| 1/8" | #10 | #25 | MR |

Available Widths: 12", 24", 36", 48"

(Other Widths Available up to 72" Maximum)

Technical Data

| | |
|--|-----------------|
| Melting Point | 200°F (1760°C) |
| Maximum Use Temperature | 2300°F (1260°C) |
| Typical Chemical Analysis: | |
| Al2O3 | 47.00% |
| SiO2 | 52.62% |
| Na2O | 0.18% |
| Fe2O3 | 0.03% |
| Others | 0.17% |
| LOI | 8% |
| Density lbs/ft³ (kg/m³) | 6-9 (96-144) |
| Dielectric Strength (Volts/mil) | 50 |

Thermal Conductivity

| Mean Temperature °F(°C) | BTU-in/hr/ft ² /°F(w/m°C) |
|-------------------------|--------------------------------------|
| 500 (260) | .47 (.067) |
| 800 (427) | .71 (.102) |
| 1300 (704) | 1.19 (.172) |
| 1600 (871) | 1.67 (.240) |

