

**ManniGlas® 1900****ManniGlas® 1902**

THERMAL INSULATION PAPERS

Partners  
in performance

### Non-Respirable Glass Fiber Paper for Outstanding Thermal Insulation

*ManniGlas® 1900* is a premium grade, non-respirable glass alternative to silicone and ceramic fiber gasketing materials. *ManniGlas® 1900* grades excel in applications requiring superior thermal resistance where space is limited. *ManniGlas® 1902* has the same, outstanding characteristics as *ManniGlas 1900*, yet is BLACK for applications where white insulation is not desired. *ManniGlas 1900* and *1902* are comprised of E (electrical) grade glass and offer:

- Ability to withstand continuous operating temperatures up to 1100°F (640°C), excursion 1200°F (649°)
- Meets UL 94V-0 (excludes certain specialty grades)
- Highly uniform surface and excellent thickness control
- Non formaldehyde-based binders
- Outstanding dimensional stability
- Excellent die-cutting properties for intricate shapes
- Flexibility and Strength
- Excellent compression resistance
- Low LOI to satisfy low smoke & odor requirements
- ISO-9001:2008 certified
- RoHS Compliant
- REACH Compliant\*

To meet your thermal requirements in critical thermal barrier applications, trust *ManniGlas 1900* Family of fiberglass papers.

\*This product is an article and not subject to registration

Material Property	Standard Thickness, in (mm)			
	0.030 (0.76)	0.060 (1.52)	0.125 (3.18)	0.250 (6.36)
Thickness Measurement Gauge, psi (kPa)	7.3 (50)	7.3 (50)	0.5 (3.4)	0.5 (3.4)
Density - Post Compression, pcf (g/cc)	11.5 (0.18)	11.5 (0.18)	7 (0.12)	7 (0.12)
Basis Weight, lb/2880 ft <sup>2</sup> (g/m <sup>2</sup> )	79 (134)	165 (275)	219 (383)	451 (760)
LOI, % by wt	6	6	6	6
Machine Direction Tensile Strength, lb/in (kg/25 mm)	17 (8)	30 (13)	40 (18)	80 (36)
Cross Directional Tensile Strength, lb/in (kg/25mm) (g/cc)	15 (7)	30 (13)	30 (13)	70 (31)
Color Availability	White Black	White Black	White Black	White Black

Mean Temperature, °F (°C)	Thermal Conductivity* BTU in/hr ft <sup>2</sup> °F (W/mK)
75 (24)	0.23 (0.033)
300 (149)	0.32 (0.046)
600 (316)	0.48 (0.070)
900 (482)	0.74 (0.106)
1100 (593)	0.98 (0.141)

\*Per ASTM C177 @ 0.125" thickness

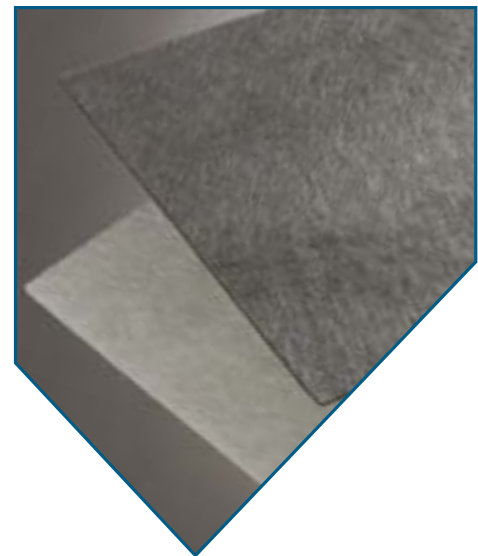
Product Availability	
Standard Roll Width, in (mm)	51 (1295)
Custom Roll Width, in (mm) Range	2 (51) - 104 (2642)
Standard Core Diameter — ID, in (mm)	3 (76)
Standard Roll Diameter — OD, in (mm)	40 (1016)
Slitting	Custom
Palletizing	Available upon request
Packaging	Stretched - wrapped

### Typical Markets

- Automotive
- Boilers & Furnaces
- Hearth Products
- Lighting
- Steam Trace Lines
- Stoves
- Water Heaters

### Typical Applications

- Provides thermal insulation where space is at a premium
- High temperature gaskets and seals
- Laminated with foil for use as a thermal shield
- PSA-coated and slit into strips to act as seals and protect thermal breaks
- Laminated/Mechanically attached to other substrates to create unique thermal 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.

