

TYPICAL PROPERTY SHEET

Heat Trace Series

THERMAL INSULATION PAPERS

ManniGlas
THERMAL INSULATION PAPERS

Excellent Thermal Insulation for Heat Trace Application

Alkegen engineers a series of ManniGlas glass fiber nonwovens for heat trace insulation application in various industries, including refining, power generation petrochemical and chemical processing. These products offer:

- Ability to withstand continuous operating temperatures up to 1100°F (593°C), excursions to 1200°F (649°)
- Humidity resistance
- Highly uniform surface and excellent thickness control
- Superior thermal resistance in restricted spaces
- Flexibility and Strength
- Excellent compressibility
- ISO-9001:2015 certified
- RoHS Compliant
- REACH Compliant*

*This product is an article and not subject to registration

Typical Applications

- Spiral or parallel wrapping of hot and cold transfer piping
- Provide thermal insulation where space is at a premium
- Laminated to foil for use as a thermal shield

Testing/Engineering Services

- Thermal imaging for performance validation
- Thermal conductivity for material characterization
- Thermal modeling for engineering solutions



To meet your thermal requirements in critical heat trace applications, trust ManniGlas® 1905 /1906 ST fiberglass papers.

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Material Property	0.040" ManniGlas® 1905ST	0.065" ManniGlas® 1905ST	0.250" ManniGlas® 1906ST
Thickness, in (mm)	0.040 @ 7.3 psi (1.0) @ 50 kPa	0.065 @ 7.3 psi (1.65) @ 50 kPa	0.250 @ 0.5 psi (6.35) @ 3.4 kPa
Density - Post Compression, lb/ft ³ (g/cc)	12.7 (0.20)	12.4 (0.20)	8.12 (0.13)
Basis Weight, lbs/2880 ft ² (g/m ²)	120 (203)	188 (319)	496 (841)
LOI, %	10	10	10
Machine Direction Tensile, lb/in (kg/25mm)	35 (16)	53 (23)	40 (18)
Machine Direction Stiffness, lb (mg)	0.006 (2945)	0.013 (5865)	-
Finch Edge Tear, Lb/15mm (kg/15mm)	24 (11)	39 (18)	-
Capillary Rise, in/5 min (mm/5 min)	0	0	0
Soluble Chlorides, ppm	<30	<100	<30

**Thermal Conductivity, BTU*in / hr*ft²*°F (W/mk)

Mean Temperature, °F (°C)	ManniGlas® 1905ST	ManniGlas® 1906ST
75 (24)	0.23 (0.034)	0.22 (0.031)
300 (149)	0.37 (0.053)	0.31 (0.045)
600 (316)	0.49 (0.071)	0.51 (0.074)
900 (482)	0.77 (0.111)	0.83 (0.120)
1100 (593)	1.04 (0.150)	1.15 (0.166)

**Per ASTM C177

Product Availability

Standard Roll Width, in (mm)	51 (1295)
Custom Roll Width Range, in (mm)	2 (51) - 104 (2642)
Standard Core Diameter-- ID, in (mm)	3 (76)
Standard Roll Diameter-- ID, in (mm)	40 (1016)
Slitting	Custom
Palletizing	Available upon request
Packaging	Stretch-Wrapped

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.

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