

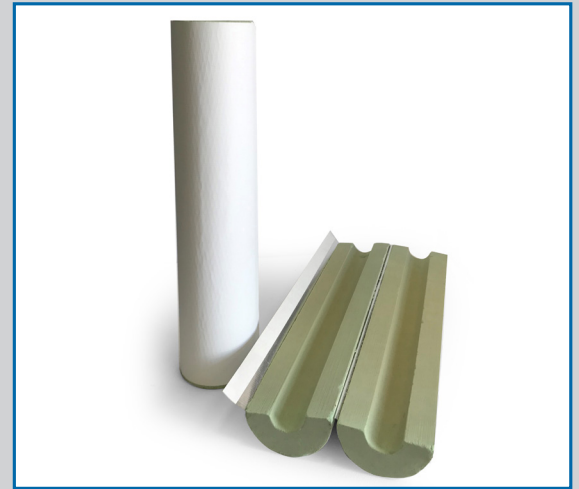
TECHNICAL INFORMATION

THERMALLY EFFICIENT INSULATION FOR PIPING APPLICATIONS.

Phenolic Insulation is a closed-cell rigid foam insulation, supplied in the form of large buns for fabrication into pipe shells, curved segments, sheets, tank and vessel coverings, and other shapes for a variety of thermal insulation applications. Available in a variety of densities ranging from 2.5# to 7.5#.

Features:

- 100% CFC, HCFC and Halogen free
- ASTM E84 25/50 flame/smoke rated up to 3 inches thick
- Listed in Canada to CAN/ULC-S102 regulation up to 3 inches thick
- Consistent aged K factor of .18 BTU .in/hr.ft²
- Minimum 92% closed cell content
- Saves energy and reduces CO² emissions
- Jacketing options of ASJ, VentureWrap and VentureClad



Foam Density	Pipe Size
2.5#	4" and smaller
3.75#	5" to 10"
5.0#	12" to 20"
7.5#	24" and larger

PROPERTIES	STANDARD	UNITS
COLOR		Green
NOMINAL DENSITY	ASTM D-1622	2.5 lb/ft ³
THERMAL CONDUCTIVITY	ASTM C-518	0.15 Btu-in./hr-ft ² ·°F@75°F
TEMPERATURE LIMITS		-290°F to +250°F
SPECIFIC HEAT		0.45 Btu/lb.°F
COMPRESSIVE STRENGTH	ASTM D-1621	
- Parallel to rise		29 lb/in ² +/-10%
- Perpendicular to rise		17.5 lb/in ² +/-10%
TENSILE STRENGTH	ASTM D-1623	
- Parallel to rise		35 lb/in ² +/-10%
- Perpendicular to rise		26 lb/in ² +/-10%
SHEAR STRENGTH	ASTM C-273	
- Perpendicular to rise		18 lb/in ² +/-10%
THERMAL AND HUMID AGING	ASTM D-2126-87	
	-110°F for 7 days	1" dim. 0.40 4" dim. 0.10
	-156°F for 7 days and 100% RH	1" dim. 1.20 4" dim. 1.00
	+267°F for 7 days	1" dim. 2.60 4" dim. 1.00
CLOSED CELL CONTENT	ASTM D-2856	minimum 92%
WATER ABSORPTION	ASTM C-209 ASTM D-2842	0.5% by volume 0.10 lb/ft ²
FLAME SPREAD AND SMOKE EMISSION	Exceeds the requirements of ASTM E84 25/50 flame and smoke testing from 1 inch up to 3 inch thickness unfaced and faced	
	Phenolic meets the requirement of the revised ASTM C1126 Type II and III Grade 1 specification for faced or unfaced rigid cellular thermal insulation for publication in 2009.	