

# Fiberglass Insulation Inserts Product Datasheet

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Resilient, flexible and installation ready, our preformed formaldehyde free Fiber Glass Inserts save you time and labor. The product is designed to withstand extreme temperatures, offers low combustibility and is corrosion and fungi resistant. Its proprietary binder chemistry exceeds the demands of PVC operating systems, while complying with ASTM, fire safety, energy-saving, and toxicity standards.

SPEC	CIFICATION COMPLIANCE
ASTM	C547 (Mineral fiber pipe specification)
	C665 (Corrosion on plain steel - test method)
	C1338 (Fungi resistance - test method)
	C1617 (Corrosion on plain steel - test method)
	C795 (for use on austenitic stainless steel)
ASHRAE	90.1 (Energy requirements for pipe insulation for commercial buildings.
CANADA	CAN/ULC S102 (Tunnel test for flame and smoke - test method (Canadian version))
Fire Safety	Meets most requirements of federal, state, and local codes. Accepted for commercial, institutional, industrial, and residential projects in all parts of the U.S. The fiber glass inserts have ASTM E84 25/50 rating.



#### **FEATURES**

- Soft fibers easy to install and less irritating than comparable products
- Emission-friendly odorless & compliant with low levels of volatile organic compounds
- Thick & resilient high tensile strength and thickness control
- Preformed efficiently and completely fills PVC elbow cavities
- Thermal value smart meets/exceeds corresponding fiberglass pipe insulation thermal value
- Density 1 PCF, up to 2" thick

### **USES & RECOMMENDATIONS**

- Insulate PVC operating systems from sub-zero to 1000°F temperatures
- Household, commercial, institutional and laboratory settings
- Recommended installation: one Proto insert for each inch of corresponding pipe insulation



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ASHRAE 90.1 2019 REQUIREMENTS								
Nominal Pipe Size								
Fluid T	emp Range	<1"	1" to 1.5"	1.5" to <4"	4" to <8"	≥8"	Thermal Conductivity	
Cold	<40°F	.5"	1"	1"	1"	1.5"	.2026	
Cold	40°F - 60°F	.5"	.5″	1"	1"	1"	.2127	
105°F -	140°F	1"	1″	1.5"	1.5″	1.5"	.2228	
141°F -	200°F	1.5"	1.5"	2"	2"	2"	.2529	
201°F -	250°F	2.5"	2.5"	3"	3"	3"	.2730	
251°F -	350°F	3"	4"	4.5"	4.5"	4.5"	.2932	
>350°F	-	4.5"	5"	5"	5"	5"	.3234	

PHYSICAL PROPERTY DATA							
Property	Test Method	Value					
Operating Temperature Range	ASTM C411	Up to 1000°F (538°C)					
Corrosion Resistance	ASTM C665 & C1617	Meets Requirements					
Fungi Resistance	ASTM C1338	Meets Requirements					
Odor	ASTM C1304	No objectionable odor					
Moisture Sorption	ASTM C1104	<3% by weight					
Surface Burning Characteristics	ASTM E84, CAN/ULC-S102	≤25/50 rating					
Limited Combustibility		<3500 BTU/LB					

COMPRESSED THERMAL CONDUCTIVITY							
Mean Temp.		K Value					
°F	°C	BTU•in/(hr • ft² • F°)	W/M • °C				
75	24	.23	.033				
150	66	.27	.039				
300	149	.40	.058				







The physical and chemical properties of the Fiber Glass Insulation Inserts listed herein represent typical, average values obtained in accordance with accepted test methods and are subject to normal manufacturing variations. They are supplied as technical service and are subject to change without notice. Numerical flame spread and smoke developed ratings are not intended to reflect hazards presented by these or any other materials under actual fire conditions. Please contact customer service at 800.875.7768 to assure current information.