THERMALJACS547™

THERMALJACS547®

FIBERGLASS PIPE INSULATION

PRODUCTION DESCRIPTION

ThermalJacs547® fiberglass pipe insulation is made from glass fibers bonded together using a special high-temperature binder and fabricated to fit most standard and custom pipe dimensions designed for application temperatures 0°F to 850°F (-18°C to 454°C).

Each section is factory-applied with ASJ (All-Service Jacket)—a smooth, durable, and wrinkle-resistant polymer film exterior. The ASJ finish is cleanable, resists water staining, and does not support mold or mildew growth, providing a professional and long-lasting appearance suitable for both exposed and concealed installations.

PRODUCT APPLICATION

ThermalJacs547® fiberglass pipe insulation is suitable for installation over hot, cold, concealed, and exposed piping systems with operating temperatures up to 850°F (454°C). For outdoor applications, weather-protective jacketing is required.

The insulation is manufactured in standard 36" (914 mm) sections for Iron Pipe Sizes (IPS) 3"to 72" and over NPS (Nominal Pipe Size).

- Single-layer thicknesses: 1" to 4"
- Double-layer thicknesses: From 2½" to ½" nominal increments
- Fabricated in accordance with ASTM C585

THERMAL CONDUCTIVITY

MEAN TEMP.	°F	100	200	300	400	500
	°C	38	93	149	204	260
Btu.in/ hr.ft².	°F	0.25	0.31	0.38	0.45	0.52
W/m.	°C	0.036	0.045	0.055	0.064	0.075

Test method ASTM C335/C335M | Calculations as per ASTM C1045

ADVANTAGES

- Designed to maximize control of heat loss, enhance thermal performance, and support energy efficiency by helping reduce overall operating costs.
- Can be shipped flat from the factory to significantly reduce freight costs, or shipped pre-formed for ease of installation or preference.
- Finished goods are manufactured in accordance with ASTM C585 pipe dimensional standards, ensuring a precise fit on all standard and custom pipe sizes.
- Advanced manufacturing technologies ensure dimensional consistency and accuracy, helping to prevent gaps at joints that could lead to costly thermal breaks.
- Easy to handle, install, and fabricate, with clean-cutting properties ideal for creating fittings or cutouts on site.
- The factory-applied ASJ (All-Service Jacket) does not support mold or mildew growth, as tested per ASTM C1338.
- The premium ASJ jacket offers excellent vapor permeability resistance (WVTR) in accordance with ASTM E96, and supports corrosion control through the performance of the vapor retarder as tested in accordance with ASTM C1258.

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PRODUCTS & INSULATION SPECIFICATION COMPLIANCE

Standard of Compliance	Description	Compliance
ASTM C547	Standard Specification for Mineral Fiber Preformed Pipe Insulation; Type I, Grade A	Pass
ASTM C411	Standard Test Method for Hot-Surface Performance of High Temperature Insulation	In Accordance
ASTM C795/C871 NUCLEAR REGULATORY GUIDE# 1.36	Standard Test Methods for Chemical Analysis of Thermal Insulation Materials for Leachable Chloride, Fluoride, Silicate, and Sodium Ions	Conforms
ASTM C795	Standard Specification for Thermal Insulation for Use in Contact with Austenitic Stainless Steel	Pass
CAN/CGSB-51.10; TYPE, CLASS 1	Canadian standard for mineral fiber board thermal insulation	Conforms

PHYSICAL PROPERTIES

Property	Test Method	Value
HOT SURFACE PERFORMANCE	ASTM C411	Up to 850°F (454°C) Maximum thickness 6" (152mm) Up to 650°F (343°C) Maximum thickness 8" (203mm)
COMPRESSIVE STRENGTH AT 10% DEFORMATION AT 20% DEFORMATION	ASTM C165	90lb/ft² (1309 Pa) 130lb/ft² (6225 Pa)
NOMINAL DENSITY	ASTM C303	3.0pcf (48kg/m³)
WATER VAPOR SORPTION	ASTM C1104	<2.0% by weight, at 120°F (49°C), 95% R.H.
SURFACE BURNING CHARACTERISTICS	ASTM E84, or CAN/ ULC-S102	Flame Spread <25 Smoke Developed <50

CERTIFICATIONS AND SUSTAINABLE FEATURES (FIBERGLASS)

- Certified by SCS Global Services to contain an average of 53% recycled glass content, 31% pre-consumer, and 22% post consumer
- Environmental Product Declaration (EPD)

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IDEAL PRODUCTS

CANADA 1.800.299.0819

EDMONTON. ALBERTA
715 76 Avenue
T6P 1P2

STONEY CREEK. ONTARIO
870 Arvin Avenue,
Unit No 2
L8E 5P2

USA 1.888.877.7685

MALVERN. PENNSYLVANIA
3239 Phoenixville Pike,
Building 3
19355

PASADENA. TEXAS
3007 Pasadena Freeway,
Suite 100
77503