

THERMALJACS547® INSULATION



THERMALJACS 547®

PRODUCT DESCRIPTION

ThermalJacs547® Preformed pipe insulation is Precision Fabricated from premium quality mineral wool bonded together with a high temperature binder. Advanced manufacturing technology ensures consistent product quality, with high fiber density and low shot content, for excellent performance in thermal control and fire resistance applications. ThermalJacs547® pipe insulation is manufactured to form all standard and custom pipe dimensions.

PRODUCT APPLICATION

ThermalJacs547® Preformed pipe insulation is produced to precisely fit NPS & tubing sizes for commercial and industrial applications at temperatures ranging from -20°F to 1200°F (-29°C to 650°C). ThermalJacs547® Preformed pipe insulation is manufactured in 36" sections for iron pipe sizes 1 1/2" to 72"+ NPS. ThermalJacs547® is available in single layer thickness from 1 1/2" to 3" and double layered thickness from 3 1/2" in 1/2" nominal increments per ASTM C 585.

ADVANTAGES

Shipped flat from the factory until formed on site and manufactured in accordance to ASTM C 585, ThermalJacs547® drastically reduces costly freight charges when shipping. Ideal Products ThermalJacs547® Preformed pipe insulation holds very low in-service shrinkage, preventing gaps from forming at the joints and costly thermal leaks. Thermal Performance and good thermal conductivity values help maximize control of heat loss, contributing to reduced operating costs and greater energy savings. Light Weight, Low Dust, Protected Outer Surface. Easy to handle and fabricate, ThermalJacs547® pipe insulation can be easily cut with a knife. Clean handling properties and factory applied facers also help reduce skin irritation and minimize job cleanup time and expense. ThermalJacs547®. Mold Resistant pipe insulation does not support the growth of fungi.

AVAILABLE FORMS & SIZES STANDARD THICKNESSES

SINGLE LAYER	1 1/2" – 3" thick
DOUBLE LAYER	≥ 3 1/2" in 1/2" increments

manufactured in 36" sections
available for pipe sizes 1 1/2" – 72"+ | available in iron and copper tubing sizes

FACINGS AVAILABLE

STANDARD: fiberglass mat
available with ASJ/SSL (self-sealing lap) and FSK upon request

NOTE: Ideal Products of Canada Ltd. strives to manufacture the highest quality of mineral fiber pipe cover, and a variety of other materials used in the mechanical insulation industry. The physical and chemical properties presented herein represent typical, average values obtained in accordance with accepted test methods and are subject to normal manufacturing variations. They are supplied as a technical service and are subject to change without notice. As Ideal Products has no control over installation, design, workmanship, accessory materials, or application conditions, Ideal Products does not warrant the performance results of any installation containing our products. Ideal Products overall liability and the remedies available are limited by the general terms and conditions of sale. For any further technical inquiries or up to date information, please send your inquiries to customerservice@idealproducts.ca.

PRODUCT & INSULATION SPECIFICATION COMPLIANCE

Standard of Compliance	Description	Compliance
ASTM C547	Standard Specification for Mineral Fibre Preformed Pipe Insulation; Type III	Pass
ASTM C411	Standard Test Method for Hot-Surface Performance of High Temperature Insulation	In Accordance
ASTM C447	Maximum Service Temperature	1200°F (650°C)
ASTM C585	Standard Practice for Inner and Outer Diameters of Thermal Insulation for Nominal Sizes of Pipe and Tubing	Conforms
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 C692/C795	Stress Corrosion Evaluation on external stress corrosion cracking tendency of austenitic stainless steel	Pass
ASTM C1045	Standard Practice for Calculating Thermal Transmission Properties Under Steady-State Conditions	In Accordance

FUNGI AND BACTERIA The insulation material does not promote the growth of fungi or bacteria. Lab results are available upon request.

PRODUCT CHARACTERISTICS

Standard of Compliance	Description	Compliance
ASTM C356	Linear Shrinkage at 1200°F (649°C)	<1%
ASTM C1104	Water Sorption by Volume & Weight	<1%
ASTM C1335	Shot Content	<20%
ASTM E84	Surface Burning Characteristics of Building Materials	25/50 or less
Recovery ASTM C165	After 25% compression	100%
PSA* WORKABILITY	Product must be brought back to workability temperature for adhesive to re-activate if ambient temperatures fall below +5C° (41°F)	≥ +5°C (41°F)

*PSA: Pressure Sensitive Adhesive

THERMAL CONDUCTIVITY

MEAN TEMP.	°F	100	200	300	400	500	600	700
	°C	38	93	149	204	260	316	371
Btu.in/hr.ft²	°F	0.25	0.30	0.35	0.41	0.48	0.56	0.65
W/m.	°C	0.035	0.043	0.051	0.059	0.069	0.080	0.093

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

Safer. Smarter. Faster.

