MICRO-LOK® HP E³ COMPRESSION PACK®

HIGH-PERFORMANCE FIBERGLASS PIPE INSULATION

DATA SHEET

DESCRIPTION

Micro-Lok® HP E³ Compression Pack® is available in plain unjacketed pipe sections and is specifically designed to address certain application needs. The package is designed to reduce space during shipping and handling, while ensuring a stronger more resilient product. The package is made from 100% recyclable materials, providing an efficient, economical and environmentally friendly package.

USES

Micro-Lok® HP E³ Compression Pack® is suitable for installation over hot, cold, concealed and exposed piping systems with operating temperatures up to 850°F (454°C). Weather-protective jacketing is required for outdoor applications. Pipes operating below ambient temperatures require the system to be fully sealed. Please refer to JM.com for more literature on sealing below ambient systems.

Operating Temperature Limits: 0°F to 850°F (-18°C to 454°C)

SPECIFICATION COMPLIANCE

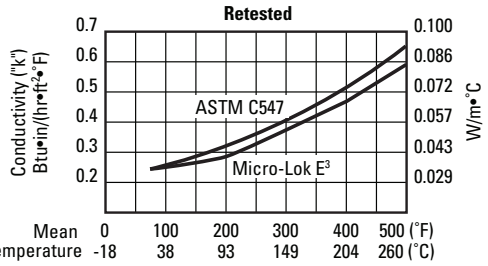
- ASTM C 547 Type I
- ASTM C 585 – Dimension Standard
- MIL-DTL-32585 Type 1, Form 4, Facing A (unjacketed only)
- MIL-I-22344D, MIL-PRF-22344E
- Coast Guard/IMO Approved 164.109/56/0 (plain, excluding ⅛ x ½ [22 mm x 13 mm], ½ x ½ [13 mm x 13 mm])
- NRC 1.36, ASTM C 795, MIL-I-24244C, MIL-DTL-24244D*

*When ordering material to comply with these specifications, a statement of that fact must appear on the purchase order. Specific lot testing will be conducted, and a certification of compliance can be provided.

PHYSICAL PROPERTIES

Service Temp. Range (ASTM C 411)	0°F to 850°F (-18°C to 454°C)
Moisture Sorption	<5% by weight
Corrosivity (ASTM C 665)	Does not accelerate
Shrinkage (ASTM C 356)	None
Microbial Growth (ASTM C 1338)	Does not promote microbial growth
Surface Burning Characteristics	Composite FHC 25/50 per ASTM E84, NFPA 255, CAN/ULC S102.2

THERMAL CONDUCTIVITY ("K") *



Mean Temperature	°F	75	100	200	300	400	500
	°C	24	38	93	149	204	260
Btu•in/(hr•ft²•°F)		0.23	0.24	0.28	0.34	0.44	0.55
W/m•°C		0.034	0.035	0.040	0.049	0.063	0.079

* Apparent thermal conductivity values are determined by applying procedures dictated per ASTM C1045 on test data obtained using ASTM Test Method C335. All values are based on nominal manufacturing and testing parameters, are subject to normal variation, and are not guaranteed for specification purposes or otherwise.

SUSTAINABLE BUILDING ATTRIBUTES

Manufacturing Location	Defiance, Ohio (43512)
Recycled Content (glass only)	41%
LEED® Credits LEED-NC	To see LEED info call technical support

CERTIFIED RECYCLED CONTENT SCS GLOBAL SERVICES
AVERAGE 28% RECYCLED CONTENT POST-CONSUMER

C ETL LISTED US Intertek

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SIZE AVAILABILITY

Insulation Thickness		Iron Pipe Size Range		Copper Tubing Size Range	
in.	mm	in.	mm	in.	mm
1	25	2 – 20	51 – 508	2⅛ – 6⅛	54 – 156
1½	38	2 – 20	51 – 508	2⅛ – 6⅛	54 – 156
2	51	2 – 20	51 – 508	2⅛ – 6⅛	54 – 156
2½	64	2 – 20	51 – 508	2⅛ – 6⅛	54 – 156
3	76	2 – 20	51 – 508	2⅛ – 6⅛	54 – 156

Within the ranges stated not all pipe sizes and insulation thickness combinations may be available. Please consult with your local Insulation Systems Market Development Manager for a list of all available sizes.

QUALIFICATIONS FOR USE

A sufficient thickness of insulation must be used to keep the maximum surface temperature of Micro-Lok® HP E³ Compression Pack® below 150°F (66°C). In addition, at operating temperatures above 500°F (260°C), Micro-Lok® HP E³ Compression Pack® must be applied in a thickness ranging from 2 inches (51 mm) minimum to 6 inches (152 mm) maximum.

During initial heat-up to operating temperatures above 350°F (177°C), an acrid odor and some smoke may be given off as the organic binders used in the fiber glass pipe insulation begin to decompose. When this occurs, caution should be exercised to ventilate the area well. This loss of binder does not directly affect the thermal performance of the pipe insulation, but the compressive strength and resiliency of the product are reduced. For applications with excessive physical abuse or vibration at high temperatures, consult your local Insulation Systems Market Development Manager for alternate material recommendations.

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