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therma-cel[®]

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YOUR RESOURCE FOR ELASTOMERIC AND POLYOLEFIN INSULATION PRODUCT

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therma-cel Pipe
therma-cel Seam-Seal
therma-cel Sheet
Accessories

therma-cel[®] Seam-Seal Pipe Insulation

Available in both black and white.



Made in America



[Click here to view or download the full product sheet](#)

DESCRIPTION

therma-cel[®] Seam-Seal is a self-sealing, flexible, polyolefin, thermal insulation. It is black in color, marked in yellow ink and available in wall thicknesses of 3/8", 1/2", 3/4" and 1", in sizes ranging from 3/8" to 4" IPS.

APPLICATIONS

therma-cel[®] Seam-Seal is used to retard heat gain and prevent condensation or frost formation on cold water plumbing, chilled water and air conditioning lines. therma-cel[®] Seam-Seal also retards heat loss on hot water plumbing.

therma-cel[®] Seam-Seal has a low thermal conductivity and very low water vapor transmission rate. This low density product demonstrates excellent thermal, physical and chemical resistant properties and has a broad service temperature range between -160°F and 200°F (-105°C and 92°C). It can be installed in commercial, industrial and residential insulation projects. Acceptable for use with heat tracing/heat tape.

INSTALLATION

therma-cel[®] Seam-Seal is pre-slit with factory applied adhesive (PSA) to both seam surfaces and has convenient built-in release tabs for easy installation: slip on the tube, pull the tab, and pinch it shut. It can be easily pushed around P-traps and fittings, though mitering is recommended for complex joints. All butt joints should be sealed with R-320 or R-620 (black) Contact Adhesive or other approved sealing system. It is easily cut with a sharp knife. therma-cel[®] Seam-Seal is available in a wide range of I.D.s and is sized to fit over copper couplings and fittings. It should be installed on pipes that have been pre-tested for leaks, are not presently hot, and have application temperatures that will not exceed 200°F (92°C).

OUTDOOR APPLICATIONS

therma-cel[®] Seam-Seal Pipe Insulation is made from UV resistant polyolefin resins. For moderate UV exposure, no additional protection is needed. However, for severe UV exposure (rooftop applications) or where optimum performance is required, a protective coating (high quality exterior acrylic latex paint) should be applied. For high abuse areas, a protective jacketing (PVC) should be used. Coatings do not adhere well to polyolefin insulation. Refer to installation guidelines for specific instructions.

UNDERGROUND

For buried lines above the water table, use a clean fill such as sand (3"-5" layer) to protect therma-cel[®] Seam-Seal before backfilling. It is recommended that materials to be buried are properly sealed at all seams and joints with an approved contact adhesive. For optimum performance, the lines should be encased in a conduit to protect them from problems associated with ground water. Refer to Technical Bulletin for temperature limitations and size recommendations.

RESISTANCE TO MOISTURE VAPOR FLOW

The closed-cell structure and unique formulation of therma-cel[®] Seam-Seal effectively retards the flow of moisture vapor and is considered a low transmittance vapor retarder. For most indoor applications, therma-cel[®] Seam-Seal needs no additional protection.

Additional vapor barrier protection may be necessary for therma-cel[®] Seam-Seal when installed on low temperature surfaces that are exposed to continuous high humidity.

FLAME AND SMOKE RATING

therma-cel® Seam-Seal in wall thicknesses of 1" (25 mm) and below has a flame spread rating of 25 or less and a smoke development rating of 50 or less as tested by ASTM E 84 Method of Testing entitled: "Surface Burning Characteristics of Building Materials." therma-cel® Seam-Seal is acceptable for use in duct/plenum applications meeting the requirements of NFPA 90A/90B.

Numerical flammability ratings alone may not define the performance of products under actual fire condition. They are provided only for use in the selection of products to meet limits specified, when compared to a knc standard.

SPECIFICATION COMPLIANCE

ASTM C 1427

New York City MEA 305-92-M Vol. IV

USDA Requirements

ASTM E 84 1" 25/50-tested according to UL 723 and NFPA 255

Complies with requirements of CAN/ULC S102-M88

Meets requirements of NFPA 90A/90B

CFC/HCFC Free

Halogen Free

Non-porous

Fiber Free

Resistant to mold growth STC=11 at 1" per ASTM E 90

Physical Properties

		therma-cel® Seam-Seal Insulation	Test Methods
Thermal Conductivity (K)	90°F (32°C) Mean Temp	.255 (.037)	ASTM C 17
BTU -in/hr - Ft² - °F (W/mK)	75°F (24°C) Mean Temp	.250 (.036)	ASTM C 17
	50°F (10°C) Mean Temp	.245 (.035)	ASTM C 17
Operating Temperature Range Flexible to -100°F (-73°C)	Upper	200°F (92°C)	
	Lower	-160°F (-105°C)	
Water Vapor Permeability Dry Cup. Perm-In		.05	ASTM E 96
Ozone Resistance		Pass	ASTM D 117
Chemical/Solvent Resistance		Good	
Mildew Resistance/Air Erosion		Pass	UL 181

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