



# therma-cel®

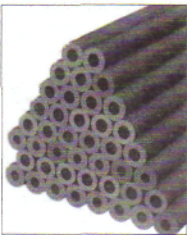
## Pipe Insulation

Flexible Closed Cell Insulation



Approved

Made in America



### DESCRIPTION

**therma-cel** Pipe Insulation is a flexible, polyethylene, thermal insulation. It is black in color, marked in white ink, and available in semi-slit and unslit tubular form in wall thicknesses of 3/8", 1/2", 3/4" and 1", in sizes ranging from 3/8" to 4" IPS.

### APPLICATIONS

**therma-cel** Pipe Insulation is used to retard heat gain and prevent condensation or frost formation on cold water plumbing, chilled water and air-conditioning lines. **therma-cel** Pipe Insulation also retards heat loss on hot water plumbing.

**therma-cel** Pipe Insulation has low thermal conductivity and a 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.

### INSTALLATION

**therma-cel** Pipe Insulation slides easily over pipe or tubing for quick installation. When applied to existing lines, tubing is slit lengthwise and snapped into place. All seams and butt joints should be adhered with Rubatex Contact Adhesive, making sure both surfaces to be joined are coated with adhesive. Fittings can be fabricated from miter-cut tubular sections. **therma-cel** Pipe Insulation is easily cut with a sharp knife.

### OUTDOOR APPLICATIONS

Outdoor applications require a protective coating (high quality exterior acrylic latex paint) for optimum performance. For best appearance, two coats are recommended.

### UNDERGROUND

For buried lines above the water table, use a clean fill such as sand (3"-5" layer) to protect **therma-cel** Pipe Insulation before backfilling. It is recommended that materials to be buried are properly sealed at all seams and butt joints with Rubatex Contact Adhesive. For optimum performance, the lines should be encased in a conduit to protect them from problems associated with ground water.

### RESISTANCE TO MOISTURE VAPOR FLOW

The closed-cell structure of

**therma-cel** Pipe Insulation effectively retards the flow of moisture vapor, and is considered a low transmittance vapor retarder. For most applications, **therma-cel** Pipe Insulation needs no additional protection.

Additional vapor barrier protection may be necessary for **therma-cel** Pipe Insulation when installed on low temperature surfaces or where it is exposed to continuous high humidity.

### FLAME AND SMOKE RATING

**therma-cel** Pipe insulation in wall thicknesses of 1" (25mm) 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."

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

### SPECIFICATION COMPLIANCE

Complies with requirements of CAN/ULC S102-M88  
MEA 305-92-M Vol. IV (New York City)  
ASTM E 84 1" 25/50—tested according to UL 723 and NFPA 255

Sect. 2.3.3 for Supplementary Materials for Air Distribution Systems

Meets requirements of UL 181 sections 11.0 and 16.0

**6.0 SPECIAL PROTECTION INFORMATION**

<b>RESPIRATORY PROTECTION:</b>	Not required under normal conditions of use.
<b>ENGINEERING CONTROLS:</b>	Local exhaust ventilation is recommended for control of airborne dust, fumes and vapors in confined areas.
<b>PERSONAL PROTECTION EQUIPMENT:</b>	Recommend light to medium duty cloth or leather gloves and approved safety glasses.

**7.0 STORAGE, SPILLS AND DISPOSAL INFORMATION**

<b>STORAGE:</b>	Store at temperatures below 60°C (140°).
<b>SPILLS:</b>	Practice good housekeeping procedures.
<b>DISPOSAL:</b>	Not a RCRA hazardous waste. Dispose of in accordance with local, state and federal regulations.

**8.0 HEALTH RELATED DATA**

<b>ACUTE</b>	<b>INHALATION:</b> May cause choking if swallowed. <b>EYE CONTACT:</b> N/E <b>SKIN CONTACT:</b> No known hazard.
<b>CHRONIC</b>	<b>INHALATION &amp; INGESTION:</b> N/E <b>EYE CONTACT:</b> N/E <b>SKIN CONTACT:</b> N/E
<b>FIRST AID</b>	<b>INHALATION:</b> No adverse effects anticipated by this route of exposure <b>INGESTION:</b> No adverse effects anticipated by this route of exposure <b>EYE CONTACT:</b> Flush with water. If irritation persist, get medical attention. <b>SKIN CONTACT:</b> No adverse effects anticipated by this route of exposure.

**CARCINOGENICITY:** NTP? Yes  No  IARC? Yes  No  OSHA? Yes  No

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** N/E

**CODES USED:** N/A - NOT APPLICABLE N/E - NOT ESTABLISHED

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