

**TYPE: Pipe Covering**

**TEMPERATURE: to 1200° F.**

**Description:** Eagle-Picher EPITHERM 1200 is a molded pipe insulation composed of high temperature mineral fiber bonded together with heat resistant organic binder for all standard nominal pipe sizes up to 24" in diameter. Long, interlaced fibers are coated uniformly with binder and precision molded in 3-ft. long half sections for ease of application. The fibers are oriented parallel to the direction of the pipe to provide high insulating efficiency and high compressive strength.

**Uses:** Eagle-Picher EPITHERM 1200 Pipe Insulation is designed to insulate heated piping operating at temperatures up to 1200°F. EPITHERM is especially recommended for use in the power generation and process industries.

### **Advantages:**

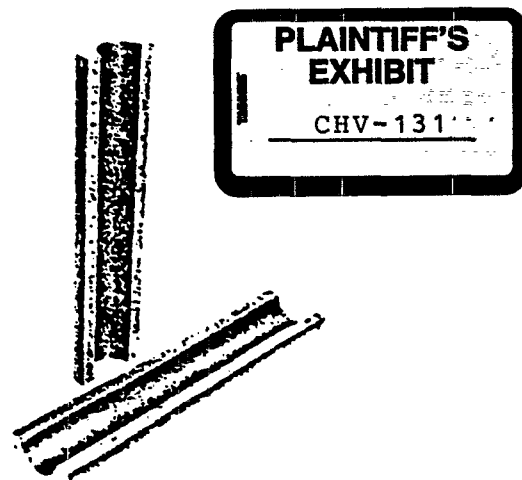
**Thermal Efficiency:** EPITHERM 1200 has a superior "K" Factor compared to other existing types of pipe insulations.

**Asbestos-Free:** EPITHERM 1200 is a completely asbestos-free molded pipe insulation.

**Handleability:** This pipe insulation is produced from long, interlaced mineral fibers and molded in 3-ft. sections for ease of handling. Being resilient, it will withstand normal mechanical abuse and equipment vibration. Due to the unique physical make-up of the product, breakage in transit or at the jobsite is minimal.

**Installation:** This light weight, tough, precision molded covering can be applied with minimum effort at reduced installation cost. The insulation can be easily cut with regular applicator's tools in the field to form mitered sections for insulating flanges and valves. On steam and electrical traced lines, the covering can be installed in the same manner generally followed for other rigid type pipe insulation.

## **EAGLE-PICHER** **epitherm 1200**



**High Temperature Stability:** EPITHERM 1200 does not shrink, warp, degrade or oxidize at elevated temperatures. As the insulation retains resiliency at the maximum service temperature limit, it absorbs the expansion and contraction of the pipe, thus eliminating open air gaps at the longitudinal and circumferential joints. Being a fibrous insulation, the covering withstands extreme thermal shock without cracking or loss of thermal efficiency.

**Corrosion:** The pH value of the material is approximately neutral, therefore, it does not cause or accelerate corrosion on metallic pipes.

**Stress Corrosion:** EPITHERM 1200 can be manufactured to meet Specification MIL-I-24244 (Ships) for application on austenitic stainless steel.

**Moisture Resistant:** This pipe insulation will resist mildew, mold or bacteria attack.

**Acoustical Efficiency:** Having excellent sound absorption properties, the product is highly recommended to control noise generated by mechanical equipment and air movement in the pipe.

**Nesting Sizes:** EPITHERM 1200 is manufactured in accordance with the Simplified Dimensional Standards to allow nesting sizes for multi-layer applications.



**Superglas® INSULATION**

# EAGLE-PICHER

## epitherm 1200

### Physical Properties:

|                             |                                    |
|-----------------------------|------------------------------------|
| Service Temperature         | ..... to 1200°F.                   |
| Density                     | ..... Nominal 10 lbs./cu. ft.      |
| Moisture Absorption         | ..... Nil                          |
| Water Absorption            | ..... None                         |
| Corrosion                   | ..... Does not cause or accelerate |
| Fire Resistance             | ..... Incombustible                |
| Linear Shrinkage at 1200°F. | ..... None                         |
| pH                          | ..... Approximately Neutral        |
| Compressive Strength*       |                                    |
| At 5% Deformation           | ..... 620 lbs./sq. ft.             |
| 10% Deformation             | ..... 690 lbs./sq. ft.             |
| Breaking Strength           | ..... 23.25 lbs.                   |
| Modulus of Rupture          | ..... 33.5 lbs./sq. in.            |

\* Based on 2" thickness of board.

Average values obtained in accordance with accepted test methods.

### Thermal Conductivity:

| Mean<br>Temperature<br>°F. | "K"<br>BTU-in./hr./<br>sq. ft./°F. |
|----------------------------|------------------------------------|
| 100                        | .215                               |
| 200                        | .250                               |
| 300                        | .300                               |
| 400                        | .365                               |
| 500                        | .440                               |
| 600                        | .510                               |

### Standard Sizes:

|           |                         |
|-----------|-------------------------|
| Length    | ..... 36"               |
| Pipe Size | ..... ½" to 24"         |
| Thickness | ..... 1", 1½" and 2"*** |

| Pipe Size                                           | Thickness   |
|-----------------------------------------------------|-------------|
| ½", ¾"                                              | 1", 1½"     |
| 1", 1¼", 1½", 2", 2½"                               | 1", 1½", 2" |
| 3", 3½", 4", 4½", 5", 6"                            |             |
| 7", 8", 9", 10", 11", 12", 14"                      | 1½", 2"     |
| 15", 16", 17", 18", 19", 20",<br>21", 22", 23", 24" |             |

\*\*\*Pipe Insulation wall thickness is manufactured to fit double and triple layer nesting as specified in ASTM Recommended Practice C585-68.

### Applicable Specifications:

|                     |                                                              |
|---------------------|--------------------------------------------------------------|
| Commercial Standard | CS-117                                                       |
| ASTM Spec.          | C547-67                                                      |
| Federal Specs.      | HH-1-558B, Form D,<br>Type III, Class 12, 13                 |
| Military Specs.     | MIL-I-2781D, Grade II,<br>Class C, MIL-I-24244<br>(Ships)*** |

\*\*\*Requires certification, chemical analysis and special handling.



Since 1843

Manufactured by  
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