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EAGLE-PICHER INDUSTRIES, INC.

CHEMICALS AND FIBERS DIVISION • AMERICAN BUILDING • CINCINNATI, OHIO 45202

Dear Sir:

Thank you for your recent request for data on Eagle-Picher Industrial Insulations. We are enclosing the data you requested, and hope that it gives you the information you want.

If you have further questions on any of the Eagle-Picher Insulations, please do not hesitate to call on us. We are eager to help you in every possible way.

Very truly yours,

CHEMICALS and FIBERS DIVISION
EAGLE-PICHER INDUSTRIES, INC.

Lowell D. Graves
Vice President - Sales
Fibers Department

TYPE: Pipe Covering
TEMPERATURE: to 1200° F.

EAGLE-PICHER
epitherm 1200

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.

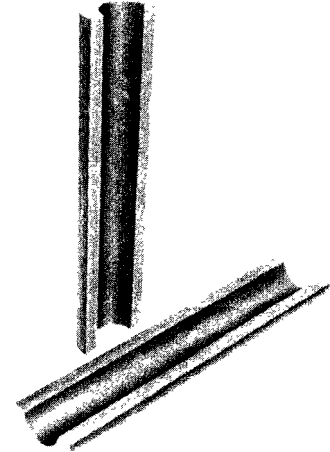
Advantages:

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.



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 Temperature °F.	"K" BTU-in./hr./ 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", 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,
 Type III, Class 12, 13
 Military Specs. MIL-I-2781D, Grade II,
 Class C, MIL-I-24244
 (Ships)***

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



Since 1843

Manufactured by
EAGLE-PICHER INDUSTRIES, INC.
 Fibers Department
 American Building Cincinnati, Ohio 45202