



## COREPLUS 1200 PIPE INSULATION

COREPLUS is a 1200° premolded mineral fiber insulation product designed for mechanical piping systems. It provides superior thermal, acoustical, and personnel protection properties.

COREPLUS 1200 is manufactured to precise engineering tolerances using state of the art patented technology. It assures predictable performance and ease of installation.

The pipe covering consists of cylindrical sections measuring 36" (915mm) in length and are conveniently hinged to form a one piece pipe up to and including 14" O.D. or two piece - half sectional from 14" O.D. through 28" O.D.



### FEATURES

- Superior thermal conductivity
- Wide range of service temperatures
- Lightweight, easy to fabricate, and applicator friendly
- Low in-service shrinkage (0% at 1,050°F (551°C))
- Non-wicking
- Less dusty — user friendly
- Good compressive strength
- Proven acoustical performance

### BENEFITS

- Energy conservation — personnel protection
- Continuous service (subambient to 1,200°F (649°C))
- Saves installation time, cuts with a knife, and is less irritating
- Butted joints knit well together, thus creating fewer gaps at elevated operating temperatures
- Good water-shedding properties
- Good handling and application capabilities
- Solid-resilient for banding and jacketing needs
- Enhanced sound absorption characteristics

### GENERAL INFORMATION

Standard sizes:	1/2" through 24" IPS (13mm to 610mm)
Standard thicknesses:	1" to 4" in 1/2" increments (25mm to 102mm in 13mm increments)
Service temperatures:	-120° to 1,200°F (-84 to 649°C); phased heatup not required
Linear shrinkage:	0% @ 1,050°F (551°C); <1% @ 1,200°F (649°C)
Water vapor sorption:	<1% inorganic; will not mildew
Wicking characteristics:	<1% after 24 hours in water
Asbestos:	None
Stress corrosion:	Does not promote or contribute to corrosion
Resistance to fungi:	Does not promote growth
Combustibility:	Non-combustible
Chemistry:	Chemistry analysis available on request
Material safety data sheet:	MSDS included in every shipment
Surface burning characteristics:	Flame spread 5
(Unjacketed)	Smoke developed 0



## COREPLUS 1200 PIPE INSULATION

### SPECIFICATION COMPLIANCE

COREPLUS 1200 specification approvals and standard test methods are listed below. Data and independent test results are available (where applicable) upon request.

- ASTM C 302 - Density of Preformed Pipe Insulation
- ASTM C 335 - Steady-State Heat Transfer Properties
- ASTM C 356 - Linear Shrinkage of High Temperature Insulation
- ASTM C 411 - Hot Surface Performance of High Temperature Insulation
- ASTM C 447 - Estimating Maximum Use Temperatures
- ASTM C 547 - Mineral Fiber Preformed Pipe Insulation Specification Types I, II
- ASTM C 585 - Inner and Outer Diameters of Pipe Insulation
- ASTM C 795 - Insulation for Use Over Austentic Stainless Steel
- ASTM C 871 - Chemical Analysis
  - NRC 1.36 - Stress Corrosion and Chemical Analysis
- MIL-I-24244C - Insulation Material Special Corrosion Requirements
- ASTM E 136, CAN4-S114 - Non-Combustibility
- ASTM E 84, CAN4-S102 - Surface Burning Characteristics
- Canadian Coast Guard F1-260 {R1} - Non-Combustibility
- CAN/CGSB-51.9-92 - Mineral Fiber Thermal Insulations for Piping
- ASTM E 1222-90 - Standard Test Method for Insertion Loss of Pipe Lagging Systems
- ASTM C 1104 - Water Vapor Sorption

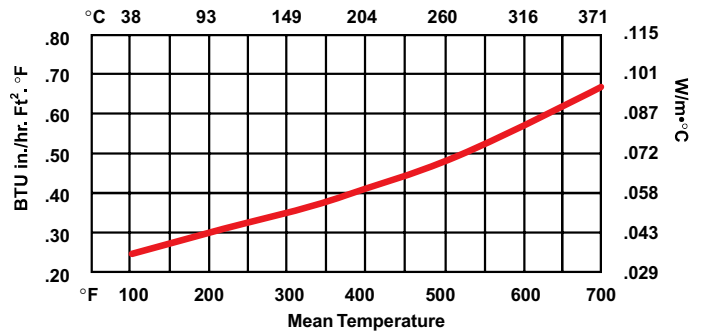
### RECOMMENDED THICKNESS

Fibrex can provide a confidential computer analysis for heat loss, surface temperature, and personnel protection requirements for all types of insulations. Calculations are performed according to the method described in ASTM C 680.

### THERMAL PERFORMANCE

ASTM C 335 (pipe insulation test method):

MEAN TEMP DEG. F	"K" BTU·IN/HR FT²·°F	MEAN TEMP DEG. C	"K" W/M DEG. C
100	0.252	38	0.036
200	0.294	93	0.042
300	0.354	149	0.051
400	0.409	204	0.059
500	0.482	260	0.070
600	0.562	316	0.081
700	0.652	371	0.093



### ACOUSTICAL PERFORMANCE

ASTM E 1222 (Insertion Loss) (dB)

Pipe Size Tested	800 Hz	1000 Hz	2000 Hz	4000 Hz	5000 Hz
12X2	0	9	18	28	33
12X2.5	6	10	16	29	35
12X3	8	14	19	30	33



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