

EAGLE-PICHER INDUSTRIES, INC.

high temperature fibers, boards, sheets and insulations--also specially shaped insulations for o.a.m. users

FOR APPLICATIONS UP TO 2200° F

481434

Temperature Range

to 1800° F
to 1000° F
to 1600° F
to 2100° F
to 2000° F
to 1050° F

to 1900° F
to 1600° F
to 100° F
to 600° F
to 1200° F
to 600° F
to 250° F
to 1800° F

to 1200° F
to 1600° F
to 600° F
to 1200° F
from 32° F to 490° F
(cont) --120° F to 1000° F

to 1200° F
to 1300° F
to 2100° F

to 400° F & to 400° F
to 240° F
to 300° F & to 400° F
or black insulation

to 1000° F
to 1000° F
to 1200° F

onboard from 32° F to 170° F

to 60° F
to 200° F
to 1000° F

COMPANY
Trenton, Ohio

Block Insulation

HE-1-0086, Form A-1 Type II

PHYSICAL PROPERTIES

Since these blocks are water repellent, suitable replacements can be poured at the job site on the "HY" Superamp Blocks without degrading the physical strength of either the concrete or the block.

Because they are usually handled in large sizes (up to 36" x 24" x 5"), the sludge layer construction minimizes application costs and haulage.

These "ply" Superwrap Blocks are lightweight and have good handling properties; they are easily fabricated on the job site. These blocks are easily cut with a hand or 4 ft freemaster saws and can be installed over a pile or tie. This ease of application, added with its other special features, makes it a superior thermal insulation with a low installation cost.

Example: Plaster "PVC" Supertemp Blocks are widely used, in part or full, for thermal insulation in equipment operating at high temperatures, such as all types of furnaces, kilns, ovens, converters, boiler walls, and other similar equipment.

THERMAL CONDUCTIVITY (Btu-in./hr./ft.²/°F)

400°	Mica	Terrestrial		Al
300°	Mica	Terrestrial		Al
200°	Mica	Terrestrial		Al
100°	Mica	Terrestrial		Al



This combination material is produced from PV Superdri[®] Block and B-7-2 Base[®]ri, formulated to form an efficient, extruded insulating material. Standard sizes are 12 x 30 and 24 x 30. Other sizes available on request. Thicknesses follow those of PV Block shown above.

Length Thickness.....	PACKAGING									
	BUNDLED WITH PAPER CARTON									
	1"	1 1/4"	2"	2 1/2"	3"	3 1/2"	4"	4 1/2"	5"	5 1/2"
12 x 1 1/2	42	43	43	43	45	45	47	48	48	49 1/2
12 x 1 1/4	42	43	43	43	45	45	47	48	48	49 1/2
12 x 1 1/8	42	43	43	43	45	45	47	48	48	49 1/2
12 x 1 1/4	42	43	43	43	45	45	47	48	48	49 1/2
12 x 1 1/8	42	43	43	43	45	45	47	48	48	49 1/2
12 x 1 1/4	42	43	43	43	45	45	47	48	48	49 1/2
12 x 1 1/8	42	43	43	43	45	45	47	48	48	49 1/2
12 x 1 1/4	42	43	43	43	45	45	47	48	48	49 1/2
12 x 1 1/8	42	43	43	43	45	45	47	48	48	49 1/2
12 x 1 1/4	42	43	43	43	45	45	47	48	48	49 1/2
12 x 1 1/8	42	43	43	43	45	45	47	48	48	49 1/2

Printed in steel, corrected conditions

Block insulation

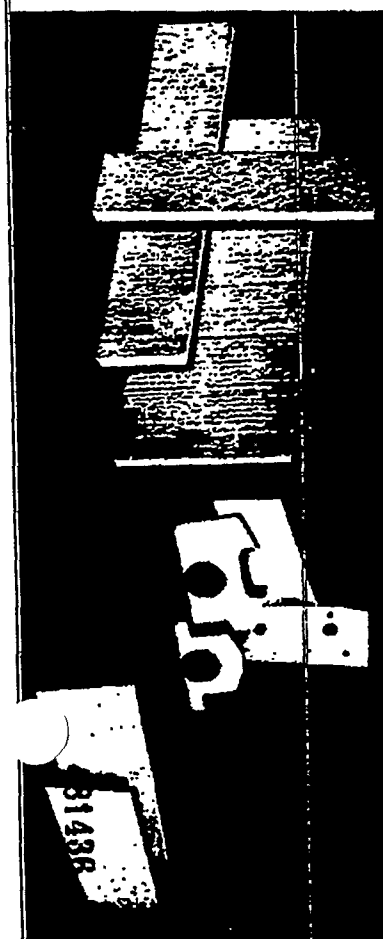
RECOMMENDED USE

In fabricating the "self-bonded" construction, Eagle-Picher has developed the block composites so that both layers have a uniformly low shrinkage at elevated temperatures. This eliminates any stress development in the combined material.

Because such a composite is very light in weight, it has low heat storage. Due to its low heat storage and reflectivity, very evaluations fabricated with this ATB laminate require very little heat-up time, and can sustain repeated heating and cooling cycles without thermal shock or peeling of the material, even in direct fire applications.

PHYSICAL PROPERTIES OF HTS LAYERS

Medium Screen Temperature	Control Fiber Stock	FV Spinning Stock
Density 1lb/ft ³	3000°F	1600°F
24-hour Spinnings	Approx. 11 Dn/ft ³	Approx. 17 lb/ft ³
at 300°F	None	None
at 1800°F	None	Approx. 1.4%
at 3200°F	Less than 0.2%	Does not spin
Radicals Absorption	Practically nil	Practically nil
Water Absorption	None	None
Conductance	None	None
Fiber Resistance	Insensitizable	Insensitizable
Resistivity of Knapers (A/C)	600 psl	415 psl
Compressive Strength	Approx. 3000 psi	Approx. 3000 psi
at 10% Deformation		



THERMAL CONDUCTIVITY (Btu-in./hr/ft²/°F)

	Center Temperature	Top Block	Bottom Block
400 Mean Temperature.....	80	47	
600 Mean Temperature.....	63	47	
800 Mean Temperature.....	55	44	
1600 Mean Temperature.....	70	48	
1800 Mean Temperature.....	80		
1400 Mean Temperature.....	51		
1000 Mean Temperature.....	101		

STANDARD SIZE
15" wide x 36" long
Note: Other sizes available upon request.

EAGLE-PICHER



Insulating Board

SUPERLIGAS® 1800 BOARD to 1800°F

Meets (15) specifications Federal Spec. EEE-144—Form II—All Classes

Can be Quickly Fabricated on Job Site

Eagle-Picher Superligas 1800 Board is produced from super-ligas, chemically bonded Superligas fiber. It is an extremely versatile insulation and meets many knitted insulation requirements.

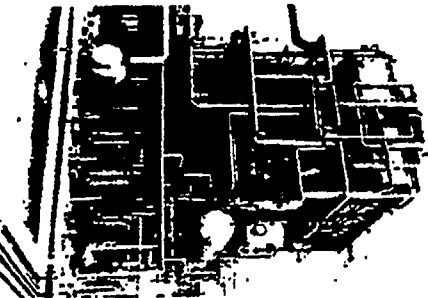
Superligas 1800 Board is resistant and provides a continuous service temperature ranging up to 1800°F. It is a high strength and can be quickly fabricated (pocket knife, etc. cut, etc.) on the job site and has superior thermal properties compared to the conventional thermal insulations. It has very low heat storage and, consequently, it requires but little heat-up time, and can also be repaired fast, having no cooling cycle without any heat exothermic of the material.

RECOMMENDED USES

Combustion chamber insulation; Protection of boiler, heat exchanger, etc.; Guards for furnaces and boiler industry and other high temperature applications; General high temperature insulation; Liner for fire screens, partitions and electrical appliances; Radiator high temperature applications.

PHYSICAL PROPERTIES

Service Temperature	1800°F
Density	13 to 14 lb./ft. ³
1/2" x 1/2" x 1/2"	11 to 12 lb./ft. ³
1/2" x 1/2" x 1/2"	9 to 11 lb./ft. ³
Linear Expansion (calculated)	None
1800°F	1.6%
Thermal Resistance	Insufficiently
Chemical Stability	Acid—up to pH 12.5
Molecular Absorption	Practically negligible
Water Absorption	None
Corrosion	None



Superligas 1800 Board is installed in 10" furnace and retaining insulation at the hot surface, inside, outside, steam line.

THEMAL CONDUCTIVITY (Btu-in./hr./ft.²/°F)

400° Mean Temperature	27
600° Mean Temperature	27
800° Mean Temperature	27
1000° Mean Temperature	27

STANDARD SIZES

48" wide x 36", 48" long—1/2", 3/4", 1" and 1 1/2" thicknesses
24" wide x 36" long—1/2", 3/4", 1" and 1 1/2" thicknesses
Other sizes available upon request.

EAGLE-PICHER



Moldable Felt

MOLDABLE FELT to 1800°F

Has All the Advantages of Flexibility and Efficiency

Eagle-Picher Moldable Felt is a flexible, high-temperature insulating material designed primarily for applications where a high degree of flexibility together with the ease of cutting and shaping is desired on the site or shop fabrication. Such a moldable felt is made of super-ligas, chemically bonded. The sheets are bonded together with an organic-inorganic binder system which permits flexibility during application.

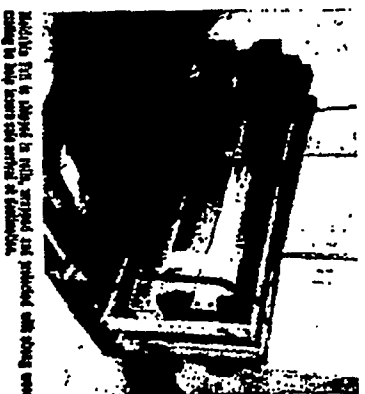
In the application process, the moldable felt is wrapped around or applied to complex shapes and are allowed to cure on the job at a temperature higher than 1800°F. The time required for curing depends on the temperature of curing. As curing progresses with time and temperature, the moldable sheet becomes increasingly harder and permanently set but retaining some flexibility up to 1800°F.

RECOMMENDED USES

Combustion chamber back-up insulation; Protection of boiler, heat exchanger, etc.; Expansion joints for furnaces and boiler industries and high temperature parts; General high-temperature insulation for complex contours; Thermal shock absorber in form glass type insulation; Lining linings.

PHYSICAL PROPERTIES

Service Temperature	1800°F
Apparent Density (calculated)	14 lb./cu. ft.
Corrosion	Corrosion no corrosive promoting agent
Expansion	None
1800°F	1.6%
Thermal Resistance	Insufficiently
Chemical Stability	Acid—up to pH 12.5
Molecular Absorption	Practically negligible
Water Absorption	None
Corrosion	None



Moldable Felt is applied in felt, wrapped and provided with strong steel casing to help secure and protect at installation.

THEMAL CONDUCTIVITY (Btu-in./hr./ft.²/°F)

400° Mean Temperature	27
600° Mean Temperature	27
800° Mean Temperature	27
1000° Mean Temperature	27

STANDARD SIZES

48" wide x 36", 48" long—1/2", 3/4", 1" and 1 1/2" thicknesses
24" wide x 36" long—1/2", 3/4", 1" and 1 1/2" thicknesses
Other sizes available upon request.

EAGLE-PICHER



Insulating Boards

MT® (Medium Temperature) INSULATING BOARDS to 800°F

Meets these specifications: Commercial Standard CS-108

ASTM Spec. C-292

C-294 Type II, Class 4, 5

Federal Spec. C-292

HH-1481, Type I, Class A

HH-1482, Type II

HH-1483, Type II, Class D

HH-1484, Form A, Type II

HH-1485, Form A, Type I, All Classes

Maritime Spec. 22-MAC-22-MC1

Will Retain Original Shape and High Heat Resistance

Eagle-Picher MT Boards are produced to meet the maximum temperature requirements up to 800°F or as a back-up insulation in equipment operating at elevated temperatures for high thermal efficiencies. They are lightweight and are standard in various sizes. They are easily cut to shape and can be quickly fabricated on the job site. Though they are organically bonded, the sheets in the MT Boards are interlocked so that, even after the binder disappears from the hot face, the product retains its original shape and integrity at the installation.

RECOMMENDED USES

Eagle-Picher MT Boards are widely used in part or full for thermal insulation in installations such as:

- Boiler Walls
- Boiler Headers
- Boiler Tubes
- Boiler Supports
- Boiler Foundations

PHYSICAL PROPERTIES

Service Temperature..... 800°F up to 4" thickness
Density..... Approx. 4 lb./ft.³
MT-4..... Approx. 9 lb./ft.³
MT-5..... Approx. 8 lb./ft.³
MT-10..... Approx. 10 lb./ft.³
Moisture Absorption..... Less than 1% by weight at 150°F and 100% RH for 48 hours
Water Absorption..... None
Compressive Strength at 100% Deformation..... 15 psi (MT-4) 18 psi (MT-10) 350 psi

THERMAL CONDUCTIVITY (k=—in./hr./ft.²/°F)

Mean Temp °F	MT-4	MT-5	MT-6	MT-10
100	.28	.28	.28	.28
200	.28	.29	.29	.28
300	.28	.29	.29	.28
400	.28	.29	.29	.28

STANDARD SIZES

Width..... 36"
Length..... 48"
Thickness..... 1" to 4" in 1/4" increments

PACKAGING

25 lb. x 48 in. Cases Size

Thickness	Pieces per carton	Square feet per carton
1 in.	20	100
1 1/4 in.	12	80
2 in.	10	80
2 1/4 in.	8	80
3 in.	8	80
3 1/4 in.	8	80
4 in.	8	80
4 1/4 in.	4	80

Carton quantity—Custom—25,000 BF
Bricks—50,000 BF

*See specification sheet for Eagle-Picher MT Boards for details of properties and for Eagle-Picher Board of General Engineering and Research Division for full performance.

EAGLE-PICHER



Blanket Insulation

MINERAL FIBER BLANKETS to 1200°F

Meets these specifications:

ASTM Spec. C-292

HH-1481, Type I, All Classes

HH-1482, Form B, All Types A, Class

HH-1483, Form C, Type VIII

HH-1484, Form B, Type IV

Maritime Spec. 22-MAC-22-MC1

Factory-Made with Various Combinations of Metal Fabrics

Eagle-Picher Mineral Fiber Blankets are made of long fibered fibers and secured between various combinations of metal fabrics. They can be tightly and effectively backed together for corrosion, insulating on flat or slightly curved surfaces of equipment operating at temperatures of up to 1200°F for thermal efficiencies.

These blankets strongly resist the degrading effect of water, steam, or moisture; they withstand normal vibration and wear-in-service, or service at the operating temperatures without losing their heat-sealing efficiency.

RECOMMENDED USES

Boiler Walls
Boiler Headers
Boiler Tubes
Boiler Supports
Boiler Foundations

PHYSICAL PROPERTIES

Service Temperature..... 1200°F
Density..... Approx. 8 lb./ft.³
No. 9 Mineral Fiber Blanket..... Approx. 6 lb./ft.³
Largest Blanket at 1200°F..... None
Moisture Absorption..... Incombustible
Water Absorption..... None
Corrosion..... None

THERMAL CONDUCTIVITY (k=—in./hr./ft.²/°F)

No. 9	No. 8
300° Mean Temperature..... .28	.31
400° Mean Temperature..... .28	.40
600° Mean Temperature..... .28	.44

TYPICAL PERFORMANCE

Temperature	Thickness	Temperature	Thickness
300-500°F	1 in.	700-900°F	3 in.
501-600°F	1 1/4 in.	901-1100°F	3 1/4 in.
601-700°F	2 in.	1101-1200°F	4 in.

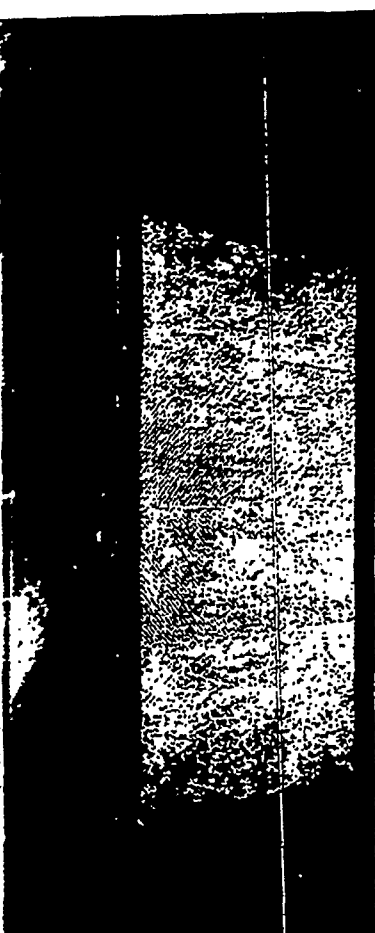
STANDARD SIZES

Width..... 36"
Length..... 48"
Thickness..... 1" to 4" in 1/4" increments

STANDARD STYLES

Style Number	Description
300	1" wide web on both sides
300-A	Sheet laid on both sides
300-B	Sheet laid and expanded both
301	1" wide web and expanded both
301-A	Expanded both on both sides
302	Sheet laid and 3/4" rib both
303	Sheet laid and 3/4" rib both
303-A	Sheet as 303 except rib turned out
303-B	1" mesh and 3/4" rib both
303-C	Sheet as 303-B except rib turned out

*Special styles (see spec. sheet) with metal fabric made at request or customer's request. Prices are quoted on request.



EAGLE-PICHER

SUPER "66"® HIGH TEMPERATURE INSULATING CEMENT to 1700°F

Meets or exceeds these specifications:

Commercial Standard CS-117-40, CS-111-40
ASTM Spec. C118
Federal Spec. HH-140000, Type III
HH-C-148
Military Spec. MIL-C-2801, Type B

Here is one of America's Largest Selling Mineral Fiber Insulating Cements!

Eagle-Picher Super "66" is a versatile and efficient thermal insulating cement. It has many superior properties and therefore it is so widely used in many applications that it is one of the largest selling mineral fiber insulating cements. The most important feature of Eagle-Picher Super "66" is its "spreading" ball" nodular structure. These are small resilient insulating nodules interspersed with "dead air" cells, which make Super "66" extremely effective thermal insulator. It has excellent wet and dry adhesive strength and clings firmly on any surface to be insulated.

In formulating Super "66" chemicals have been incorporated for fast setting so that it can be applied in thicknesses from 1/8" to 1" in a single coat. This superior insulating cement is also provided with rust inhibiting chemicals and, as a result, protects iron or steel surfaces from rusting or corroding. Super "66" is highly compressible; it covers more surface area per unit weight than most similar products. Super "66" forms a one-piece monolithic insulating structure without any joint or lap to allow escape of heat. It withstands severe thermal shock without cracking or spalling of the insulating structure.

Unlike most ordinary hydraulic setting cements, Super "66" has unlimited shelf-life under normal storage conditions. It can be re-mixed and re-used without losing its firming and rust inhibiting properties, provided it has not been dried higher than 200-300°F.

RECOMMENDED USES

Super "66" is recommended for a variety of industrial applications especially at high temperatures such as:

7-10-10-10



Insulating Cement

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EAGLE-PICHER



Insulating and Finishing Cement

EAGLE-PICHER



Insulating and Finishing Cement

HYLO® CEMENT (continued)

RECOMMENDED USES

Eagle-Picher Hylo Cement is recommended for a variety of industrial applications operating at high temperatures, such as:

- At Fire-Heaters
- Refractory Exposed Areas
- Boiler Accessories
- and Highly Vapors
- Storage Tanks
- Aberrant Insulations

PHYSICAL PROPERTIES

Setting Temperature..... Up to 1800°F
Dry Coverage (Bd. Ft./100 Lbs.)..... Approx. 35
Dry Shrinkage..... Negligible
Compressive Strength at 10%..... 500 psi
Adhesive Strength..... Exceptionally good on porous, velour, aluminite, and ferrous

Green Set..... (Depending on application conditions)

PHYSICAL PROPERTIES (continued)

Density (Unstaked)..... Approx. 88 lb./ft.³
Fire Resistance..... Noncombustible
Acid and Water Resistance..... Yes
Corrosion (Steel)..... None
Steel Life..... Approx. four months

THERMAL CONDUCTIVITY (Ktu-in./hr./sq. ft./°F)

200° Mean Temperature..... .40
400° Mean Temperature..... .28
600° Mean Temperature..... .27
800° Mean Temperature..... .21

PACKAGING

Shipped in 50-lb. 8-ply Kraft Paper Bag with a vapor barrier liner film.
For maximum efficiency, use as follows: colors, and other grades, see Eagle-Picher Hylo-Cement.

EAGLE-PICHER

HI-STICK® CEMENT to 1200°F

Meets or exceeds these specifications:

ASTM Spec. C-419-57T
Military Spec. MIL-C-2500A, Type II
Federal Spec. SS-C-140, Type III, Grade F
No Stress Corrosion on Austenitic Stainless Steel.

Ideal Insulation for Valves, Fittings and Other Irregular Surfaces

Eagle-Picher Hi-Stick Cement is a new insulating cement specially formulated to give maximum adhesion to valves and fittings. It is a hot-mastic setting cement, which insulates, seals, and protects in one application.

The dry cement is relatively tough, smooth, and can be painted. It has exceptionally high dry coverage and negligible shrinkage. Heat of set, it has good resistance with fast setting, ease of mixing, and quick application.

RECOMMENDED USES

Eagle-Picher Hi-Stick Cement is recommended for insulating valves and fittings.

PHYSICAL PROPERTIES

Setting Temperature..... 1500°F
Dry Coverage (Bd. Ft./100 Lbs.)..... Approx. 32
Dry Shrinkage..... Negligible
Adhesive Strength..... Exceptionally good on all surfaces

PHYSICAL PROPERTIES (continued)

Installed Density..... 40 lb./ft.³
Compressive Strength at 10%..... 500 psi
Green Set..... (4) minutes or longer
Fire Resistance..... (depending on application conditions)
Acid and Water Resistance..... Noncombustible
Corrosion (Steel)..... None
Steel Life..... Approx. four months

THERMAL CONDUCTIVITY (Ktu-in./hr./sq. ft./°F)

200° Mean Temperature..... .40
400° Mean Temperature..... .28
600° Mean Temperature..... .27
800° Mean Temperature..... .21

PACKAGING

Shipped in 50-lb. 8-ply Kraft Paper Bag with a vapor barrier liner film.

EAGLE-PICHER

"43" FINISHING CEMENT to 1000°F

Meets these specifications:

ASTM Spec. C-114
Military Spec. MIL-C-3008

Dries to Hard, Tough White Finish

A hard, white finish coating for indoor insulation that will not disintegrate. Resists abrasion and will not crack or check even on pipes of small diameter. Light reduction of over 65% not affected by acids or vapors. Because "43" Finishing Cement is hydraulic setting, it has a thick film of approximately 100 mils.

COVERAGE

Approximately 110 sq. ft. 1/2 in. thick per 100 lb.

PACKAGING

50-lb. 8-ply Kraft Paper Bag with a vapor barrier liner film.

"43" INSULATING CEMENT to 1800°F

Meets these specifications:

ASTM Spec. C-114-41
Military Spec. MIL-P-2395
Federal Spec. HES-4-0550, Type IV

Stays "Put" Even on Rough Masonry Surfaces

Dries to form bright white, widely used in the steel industry. It has exceptional adherence to masonry surfaces.

PACKAGING

50-lb. 8-ply Kraft Paper Bag.

COVERAGE

Approximately 15-25 sq. ft. 1/2 in. thick per 100 lb.



EAGLE-PICHER

SUPERGLAS® INORGANIC BULK FIBERS

A Basic Ingredient That Imparts Strength and Toughness

Superglas Bulk Fiber is a superstrong and clean inorganic glass fiber. It is basically a complex silicate containing calcium, aluminum, and various oxides. It does not contain any organic matter and is non-flammable.

RECOMMENDED USES

Long-term Paper
Adhesives for Organic Papers
Base Stock for Gaskets

CHEMICAL ANALYSIS

Alumina..... (80%)	35-40%
Alumina..... (Al ₂ O ₃)	10-12%
Iron Oxide..... (FeO)	50-55%
Calcium Oxide..... (CaO)	15-20%
Magnesium Oxide..... (MgO)	5-10%
Lead Oxide..... (PbO)	10-15%
Zinc Oxide..... (ZnO)	5-10%

CHEMICAL ANALYSIS (continued)

Iron Loss..... (at 1000°F)	None
Moisture..... (at 212°F)	0.05%

PHYSICAL PROPERTIES

Color.....	Dark Gray
Fiber Diameter.....	8-6 mils
Fiber Length.....	1/2" to 1/4"
Dry Bulk Density (as packaged).....	Approx. 6-8 lbs./cu. ft.
pH.....	Neutral
Specific Gravity.....	2.5
Refractive Index.....	1.75
Hardness—Mohs Scale.....	6-7
Melting Point.....	1800°F
Maximum Service Temperature—Fiber Alone (reducing or inert atmosphere).....	1800°F
Outfiring Atmosphere.....	1800°F

PACKAGING

Shipped in 20 lb. Metal-Well Kraft Paper Bags.



Bulk Fibers

EAGLE-PICHER

SUPERGLAS® and HYLO® INSULATION PRODUCTS

"ONE-PIECE" PIPE INSULATION

For indoor or outdoor lines up to 400°F operating temperature

Meets these specifications:

Test Spec. HY-152 Insulation, Type 700, 701, 702 and 703. Thermal and mechanical properties meet or exceed those of Type 1, Class A and B. Insulation Type 700, 701, 702 and 703 meet or exceed those of Type 1, Class A and B. Insulation Type 700, 701, 702 and 703 meet or exceed those of Type 1, Class A and B.

INSULATION THICKNESSES

1/2 in. 1 in. 1 1/2 in. 2 in. 2 1/2 in. 3 in. 4 in. 5 in. 6 in. 8 in. 10 in. 12 in. 14 in. 16 in. 18 in. 20 in. 22 in. 24 in. 26 in. 28 in. 30 in. 32 in. 34 in. 36 in. 38 in. 40 in. 42 in. 44 in. 46 in. 48 in. 50 in. 52 in. 54 in. 56 in. 58 in. 60 in. 62 in. 64 in. 66 in. 68 in. 70 in. 72 in. 74 in. 76 in. 78 in. 80 in. 82 in. 84 in. 86 in. 88 in. 90 in. 92 in. 94 in. 96 in. 98 in. 100 in. 102 in. 104 in. 106 in. 108 in. 110 in. 112 in. 114 in. 116 in. 118 in. 120 in. 122 in. 124 in. 126 in. 128 in. 130 in. 132 in. 134 in. 136 in. 138 in. 140 in. 142 in. 144 in. 146 in. 148 in. 150 in. 152 in. 154 in. 156 in. 158 in. 160 in. 162 in. 164 in. 166 in. 168 in. 170 in. 172 in. 174 in. 176 in. 178 in. 180 in. 182 in. 184 in. 186 in. 188 in. 190 in. 192 in. 194 in. 196 in. 198 in. 200 in. 202 in. 204 in. 206 in. 208 in. 210 in. 212 in. 214 in. 216 in. 218 in. 220 in. 222 in. 224 in. 226 in. 228 in. 230 in. 232 in. 234 in. 236 in. 238 in. 240 in. 242 in. 244 in. 246 in. 248 in. 250 in. 252 in. 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