PLAINTIFF'S
EXHIBIT
KN-369

# industrial insulations

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854508

# BALDWIN-HILL

## Industrial Insulations

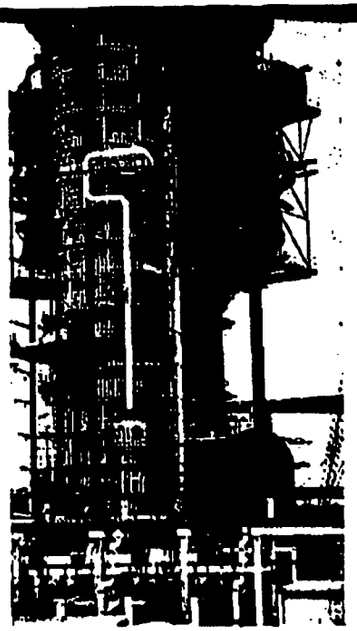
## FOR DEPENDABLE TEMPERATURE CONTROL

The Baldwin-Hill Company manufactures a complete line of industrial insulations and has four plants conveniently located to serve you. Baldwin-Hill helped develop the new spinning process for making mineral wool insulation and has the most modern production lines for producing this high quality material.

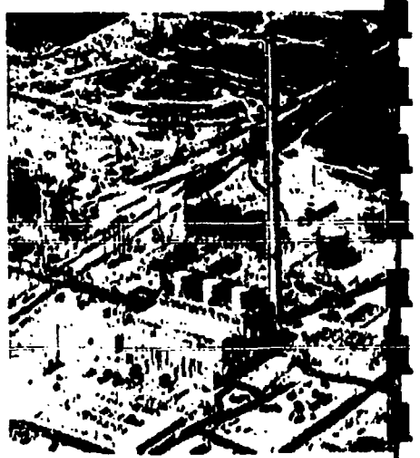
Baldwin-Hill spun mineral wool offers you the advantages of increased fiber length in products having inherently better tensile strength, lighter weight, easier cutting, lower density and improved "K" factor.

### SERVICE

The diversification of B-H products enables you to use Baldwin-Hill as a single source for all your insulation needs. Our sales department is at your service—phone, write or call the office nearest to you. We have teletype connection between all plants and offices and can assure prompt attention to your orders. For address and telephone number of office nearest you, see back cover.



World's largest Catalytic cracking unit at Tidewater's new Delaware Refinery—insulated with B-H Mono-Block and Super Powerhouse Cement.



Delaware Power and Light Company's new Delaware City Station . . . outstanding three Ridge Stoker boilers fully insulated with B-H Mono-Block and Super Powerhouse Cement.



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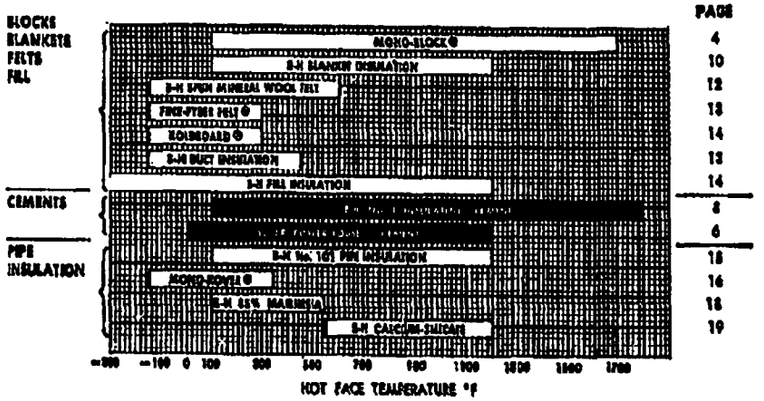
## TEMPERATURE SELECTION GUIDE AND INSULATION SPECIFICATIONS

### TEMPERATURE GUIDE FOR BALDWIN-HILL INSULATION SELECTION

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OTHER PRODUCTS: BOND-TITE, WEATHERSEAL AND BLAKE CRIX CEMENT SEE PAGE 14

### INSULATION SPECIFICATIONS

| Federal | type | class | |
|---|---|---|---|
| HH-C-166 | | | B-H No. 1 insulating cement |
| HH-I-551c | I | A | B-H spun felt (7½ lb. density) |
| | | B | B-H batts (paper-backed one side only) |
| | | C | B-H batts (paper enclosed) |
| | II | | B-H loose wool |
| | III | | B-H granulated wool |
| HH-I-543 | I | A,B,C | B-H blanket |
| | II | D | B-H spun felt |
| HH-I-564 | form | A,B,C,D | B-H mono-block |
| HH-I-562 | I | I | B-H boardboard |
| HH-P-325 | II | C | B-H No. 100 pipe insulation |
| HH-I-552 | I | B | B-H mono-lover pipe insulation |
| HH-I-552 | II | | B-H No. 100 pipe insulation |
| HH-I-542 | I | | B-H fire-fyber felt |
| | II | | B-H spun felt (all densities) |
| HH-I-551 | II | | B-H 85% magnesia pipe insulation |
| HH-I-558 c | | II | B-H calcium silicate pipe insulation |

| Military | | |
|---|---|---|
| MIL-C-3241 | | B-H No. 1 insulating cement |
| MIL-I-2811 | | B-H blanket |
| MIL-I-16032 | | B-H spun felt |

| U.S. Maritime Commission | |
|---|---|
| TF-ALC-1 | B-H spun felt (3 lb. to 8 lb. density) |
| ASTM | |
| C-165 | B-H No. 1 insulating cement |
| C-163 | B-H blanket |
| C-264 | B-H spun felt—low temperature |
| C-332 | B-H spun felt for elevated temperatures |
| C-372 | B-H boardboard |
| C-300 | B-H mono-lover |
| C-302 | B-H mono-block |
| C-533 | B-H No. 100 pipe insulation |
| C-370 | B-H 85% magnesia pipe insulation |
| C-545 | B-H calcium silicate pipe insulation |

| Commercial Standard (U.S. Dept. of Commerce) | | |
|---|---|---|
| CS-117 | B-H loose | |
| | B-H granulated | B-H mono-block |
| | B-H felt | B-H No. 100 pipe insulation |
| | B-H blanket | B-H No. 1 insulating cement |
| CS-109 | B-H loose | B-H felt |
| | B-H granulated | B-H boardboard |

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## MONO-BLOCK
*and Improved*
## SUPER POWERHOUSE CEMENT

B-H Improved Super Powerhouse Cement used in conjunction with B-H Mono-Block is the most economical and efficient insulating combination possible. The low material cost and reduced thickness permitted by the combination of these products; together with the simplified installation of a single layer of block and single coat of cement makes for low installation costs.

Easily trowelled on Mono-Block without special preparation, Super Powerhouse Cement forms a smooth, monolithic finish of good appearance. The excellent adhesive properties developed at the bond line of Mono-Block and Super Powerhouse speed application since no intermediary bonding surface is required. As the cement hardens, its adhesive action becomes further pronounced becoming a permanent bond.

The diagrams below illustrate the installation economies possible through the use of both Mono-Block and Super Powerhouse. Note the savings in both installation time and material cost. Not so evident, but equally valuable are such savings as less scaffolding, less time for drying of cement, and freedom from cement drying shrinkage cracks and attendant returns for patching and pointing.

Mono-Block and Improved Super Powerhouse Cement, together with the complete line of insulations in all bases as shown in this catalog, are available to suit all types and conditions of application.

### METHODS



OLD METHOD
3 steps

1 Mineral wool block
2 Wire mesh
3 Insulating Cement
4 Hot-set Firebrick Cement
5 Second coat Insulating Cement

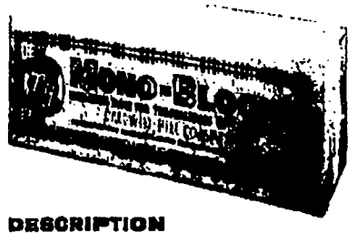


NEW METHOD

1 [illegible]
2 [illegible]
3 [illegible]



## MONO-BLOCK
**one block insulation**
**for service up to 1700°F.**




### DESCRIPTION

Mono-Block is a felted block made of spun mineral wool by means of a patented B-H process. This process felts long, straight fibers into interwoven layers. As a result, it is light, resilient and porous—containing millions of tiny dead air cells which make possible its unusually high insulating qualities.

Stability under severe temperature conditions is assured and due to their composition, the fibers are unaffected by exposure to moisture or high heat.

### USES

steam boilers
boiler water walls
ducts and breechings
fire linings
feed water heaters
oil refinery towers
tanks
drying ovens
core ovens
heat treating ovens
annealing furnaces
enameling ovens
chemical treating tanks
brick kilns
waste heat flues, etc.

### SIZES

length: 36 inches
width: 6, 12 inches
thickness: 1, 1½, 2, 2½, 3, 3½, 4 inches
other sizes available at slight additional cost.

### RECOMMENDED THICKNESSES

| hot face temps. | thickness, in. | hot face temps. | thickness, in. |
|---|---|---|---|
| up to 400 F | 1 to 1½ | 800 to 1000 F | 4 |
| 400 to 700 F | 2 | 1000 to 1200 F | 4½ |
| 700 to 800 F | 3 | 1200 to 1400 F | 5 |
| 800 to 800 F | [illegible] | 1400 to 1700 F | 6 |

### PACKAGING

[illegible] corrugated boxes

[illegible]



### FEATURES

***quick to apply:*** Light weight and easy to handle, B-H Mono-Block is easily cut with a knife. Its felted surface yields to projections such as rivet heads so a snug fit is obtained without cracking or breaking. Readily conforms to slight curvatures.

***high strength:*** B-H Mono-Block is stronger because of its long-fibered mineral wool and its unique, felted construction. This extra strength means negligible breakage loss.

***highly efficient:*** Over fifteen years of use have proven that Mono-Block provides superior service. Mono-Block insulates over the complete temperature range to 1700°F, eliminating the need for stocking and installing two types of block.

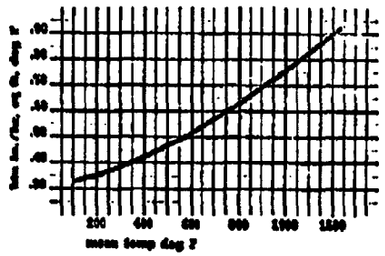
***non-corrosive, moisture resistant:*** Mono-Block offers excellent resistance to moisture and destructive chemicals. Will not contribute to the corrosion of metal surfaces.

***excellent surface for finishing:*** The Mono-Block surface is ideal for the direct application of B-H Super Powerhouse Insulating-Finishing Cement.

***low lineal shrinkage:*** Use of Mono-Block assures tight joints and helps prevent cracks in the finishing cement or weatherproofing.

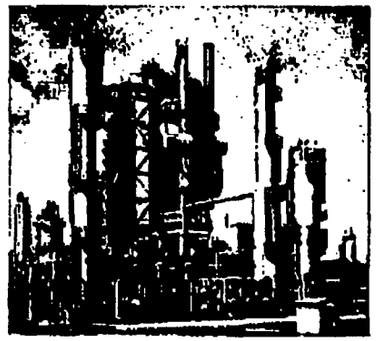
***density:*** Approximately 15 lbs per cu ft—a low weight for high temperature insulating materials.

### thermal conductivity






Felted surface of Mono-Block yields to projections without breaking.



World's largest catalytic cracking unit at Tidewater's new Delaware Refinery insulated with B-H Mono-Block.

### APPLICATION

*preparation*

All vertical surfaces to have angle supports equal in size to thickness of insulation, welded to the surface of the vessel and spaced 6 ft apart, starting at bottom.

*application of block*

Apply specified thickness of Mono-Block directly to metal surface, cutting to fit snugly all around supports, openings, etc. Apply a thin coat of B-H Bond-Tite to the surface of the block and press it firmly to the surface of the vessel. After the entire circumference has been filled, apply galvanized steel bands. Spacing of these bands is to be approximately 8 in. on centers. On vessels over 6 ft. in diameter, use 3 in. wide bands 6 in. on centers. Space bands on circular heads 18 in. on centers at outside circumference.

Apply a ¾ in. thick coat of B-H Super Powerhouse Cement directly to the Mono-Block surface, filling all cracks and bringing to a level, true surface. Trowel smooth with a steel trowel. On surfaces subject to vibration or undue thermal expansion or contraction use 1 inch woven wire mesh reinforcing before applying Super Powerhouse Cement.

All insulation units exposed to weather or excessive humidity should be protected as follows: After the finish layer of B-H Super Powerhouse Cement has dried, stretch poultry netting over it and cover with ½ in. of B-H Weathercoat, which when dried should not be less than ⅛ in. thick.

354592

# IMPROVED SUPER POWERHOUSE CEMENT
## White Insulating-Finishing Cement



### DESCRIPTION

New Improved B-H Super Powerhouse Cement is a dry mixture of high temperature-resisting aprun mineral wool, a hydraulic-setting binder and other ingredients. Mixed with water it can be troweled on any surface with a minimum of effort. It sets quickly to form a smooth, white, glazed surface. It may be painted without further treatment. Weatherproofing may be applied directly for outdoor service.

New Improved B-H Super Powerhouse Cement incorporates the qualities of extremely easy troweling, application of finish in one coat, quick hydraulic set and freedom from drying shrinkage cracks. The excellent adhesive qualities of B-H Super Powerhouse Cement make it popular with workers since it does not fall off during application.

### USES

Universal finishing cement over other types of insulations. Insulating cement for valves, flanges, elbows and other irregular surfaces.

### RECOMMENDED THICKNESSES

For finishing one single 3 to ½ in. coat.

For insulating and finishing in same thickness as adjoining pipe covering.

### PACKAGING

Packed in 80 lb. multiwall paper bags.

### FEATURES

***one coat is enough*** Because so many features have been "built-in" to Super Powerhouse Cement, pointing, sealing, insulating and a smooth, white surface are all accomplished with one coat. It may be applied in thicknesses up to one inch, depending upon the insulating value required.

***clean, white surface*** Initial troweling produces a satisfactory white surface. Steel troweling approximately 30 minutes after application results in a glazed white surface, ideal for fittings, elbows and flanges as well as large flat areas. This same surface may easily be painted with oil-base or water-base paints if desired. Water-base paints may be applied before drying of Super Powerhouse is complete.

***dries without cracking*** Apply it when your equipment is shut down or operating, as long as the surface to which the Super Powerhouse Cement is applied does not exceed 150 F. Since Super Powerhouse Cement has negligible linear shrinkage, drying-shrinkage cracks do not appear.

***figure it as insulation*** B-H Super Powerhouse is more than a fine finishing cement. The chart below shows that its thermal conductivity is comparable to that of many insulating cements. No need for a second coat—providing further savings. Figure its thickness as part of your insulation.

***no weather worries*** When B-H Super Powerhouse Cement is applied outdoors, it will withstand a drenching rain, sleet or snow within two hours after application. This means no extra expense for tarpaulin coverings or delays for drying. For permanent weather protection, cover with B-H Weatherseal over wire mesh.

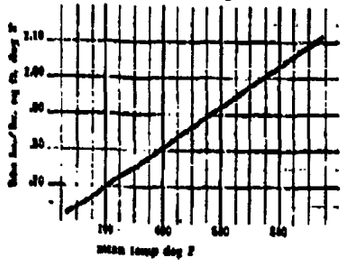
***wire mesh saving*** For many installations, wire mesh reinforcing may be eliminated when Super Powerhouse is applied to insulating block surfaces.

***setting time*** The wet cement remains workable for 2 hours after mixing and sets within a few hours.

***coverage*** Excellent coverage—1 bag (80 lbs.) covers: 72 sq. ft., ½ in. thick
36 sq. ft., 1 in. thick

***drying shrinkage*** For finish coats ¼ to ½ in. thick, linear shrinkage is negligible.

### thermal conductivity

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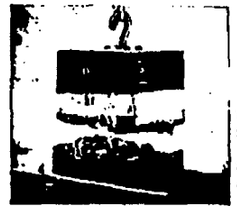
## HIGH ADHESION
### the Bond is stronger than the Block



1. Upper bonding plate
2. Improved Super Powerhouse Cement
3. Tested 85% magnesia block
4. Lower bonding plate



1. Upper bonding plate
2. Improved Super Powerhouse Cement
3. Mineral wool block
4. Lower bonding plate



B-H Super Powerhouse Cement provides a smooth, white, glazed surface.



B-H Super Powerhouse Cement may be painted with water based paints after initial set or with oil based paints once surface has dried.

### APPLICATION

***preparation***

All surfaces of equipment to be insulated should be thoroughly cleaned. Remove all dirt, oil, loose scale, rust or paint.

***water/cement ratio (by wt.)***

| surface or application | water/cement ratio | gals. per 80 lb. bag | cement thickness, in. |
|---|---|---|---|
| Mineral wool blocks, dried insulating cement, brickwork. | 1.5 | 9.0 | ¾ to 1 |
| Steel and thick layers or monolithic walls. | 1.5 | 9.0 | ¾ to 1 |

Recommended water cement ratio is 1.5 (9 gallons per bag). Before applying cement to highly absorbent insulation such as magnesia, fine-silica or diatomaceous earth, moisten the block surfaces.

Mix thoroughly with clean water measured for the correct water/cement ratio. Allow to soak 10 to 15 minutes before using, but use entire quantity within 2 hours. Do not mix new cement with old, partially set material. Always clean mixing box and tools thoroughly from previously set cement before mixing new batch.

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***application of cement***

Apply as an insulation and finishing coat ¾ to 1 in. thick over any type of insulating block, dried insulating cement, refractory or firebrick. It may be applied directly to expanded metal lath, woven wire mesh and irregular metal surfaces. Reinforcing wire mesh is not required for many applications. Highly suitable for monolithic construction.

For overhead application, a maximum of 1 in. thickness may be applied in one layer to expanded metal lath or other firm base. When weatherproofing materials are to be used over B-H Super Powerhouse Cement, its surface is best prepared with a wood float. Contact nearest sales office for detailed application specification.

***painting***

The smooth, white, glazed cement is a fine finish. However, if a colored finish is desired, the cement provides a suitable painting surface. Water-base paints may be applied before drying is complete. Let surface dry before applying oil base paint.

# NO. 1 INSULATING CEMENT

**for large or small irregular surfaces**
**for service up to 1800° F**




## DESCRIPTION

B-H No. 1 Insulating Cement is a plastic insulation produced from high temperature-resisting, spun B-H mineral wool combined with high-grade long-fiber asbestos and a colloidal clay. It is effective up to 1800° F. and reclaimable where temperatures have not exceeded 1200° F.

Its reclaimability feature, ease of application and the fact that it can be stocked without breakage or loss, make B-H No. 1 Insulating Cement ideal for maintenance work.

## USES

Any hot surface within prescribed temperature limits

## RECOMMENDED THICKNESSES

| hot surface temperature | thickness, in. | hot surface temperature | thickness, in. |
|---|---|---|---|
| 100 to 175 F. | 1 | 970 to 1100 F. | 4 |
| 175 to 425 F. | 1½ | 1100 to 1300 F. | 4½ |
| 425 to 550 F. | 2 | 1300 to 1500 F. | 5 |
| 550 to 750 F. | 2½ | 1500 to 1700 F. | 5½ |
| 750 to 970 F. | 3 | | |

## FEATURES

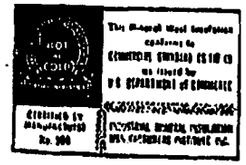
***high insulating efficiency*** When mixed with water to a trowelable consistency, the nodules of B-H mineral wool retain their physical properties, and the dead air cells confined in these nodules provide maximum insulating efficiency and light weight.

***rust resistance*** B-H No. 1 Insulating Cement contains a rust inhibitor that resists corrosive action whether the cement dries out immediately on a hot surface, or air dries.

***easy to apply*** The high adhesion of B-H No. 1 Insulating Cement makes it easy to apply over brick or metal surfaces. It does not "roll up" behind the trowel or "slide off" the surface. Simply add water according to directions, mix to a trowelable consistency and the cement forms a plastic mass that is ready for fast and easy application.

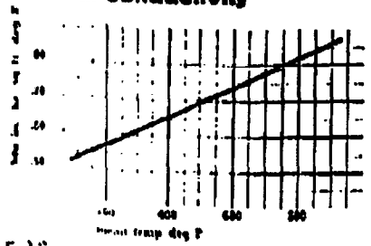
***ready to use*** For maintenance and repair work, a bag of B-H No. 1 Insulating Cement can be mixed with water and applied without delay.

## CERTIFIED



***certified*** B-H No. 1 Insulating Cement is authorized by the Industrial Mineral Insulation Manufacturers Institute Inc. to use the Certification label. This label assures you that the product has passed stringent laboratory tests and meets requirements of Commercial Standard CS-117 as promulgated by the National Bureau of Standards.

## thermal conductivity










B-H No. 1 Cement 1½ in. thick being packed on curved surface of steam turbine. Hand-packing develops high adhesion of the cement to metallic surfaces. Only equipment required for this application is rubber bucket and rubber gloves.

## COVERAGE

B-H No. 1 Insulating Cement is a remarkably economical material. In actual use it has a proven wet coverage up to 50 and 53 sq. ft., 1 in. thick, per 100 lbs. Its dry coverage is approximately 45 sq. ft.

## PACKAGING

Packed in 50 lb. multiwall paper bags.

## APPLICATION

**preparation**

All surfaces of equipment to be insulated should be thoroughly cleaned. Remove all dirt, oil, loose scale, rust or paint. If it is not possible to remove old paint or other foreign material, apply a layer of 1-inch mesh woven wire reinforcing, galvanized, to the bare surface of the vessel to establish the proper bond.

**application of cement**

Apply B-H No. 1 Cement to the vessel by spotting on the first coat to a thickness of approximately ½ in. After this coat has dried, the next coat can be roughed on or troweled out to a smooth finish, depending upon the thickness of cement to be applied. Leave the surface of each layer of insulation rough to provide a good adhesion surface for the next layer.

After the second coat has been applied, a layer of 1-inch woven wire mesh is then tightly stretched over the dry cement, and the edges securely fastened with 16 ga. soft annealed galvanized wire. Additional coats of B-H No. 1 Cement are applied in similar manner and reinforced with galvanized wire for each 1½ in. layer until the required insulation thickness is built up.



Heating equipment and ducts can be effectively and economically insulated using B-H Mono-Block and two layers of B-H No. 1 Insulating Cement. No further covering was used in this application.

Vessels insulated with B-H No. 1 Cement that are exposed to weather conditions or excessive humidity, can be weatherproofed with B-H Weatherseal in the following manner:

After the last coat of B-H No. 1 Insulating Cement has been applied and thoroughly dried, a layer of 1-inch woven wire mesh is stretched and laced tightly, covered by a ½ in. coat of B-H Weatherseal. Thickness of Weatherseal when dried is to be not less than ⅛ in.

354598

# BLANKET INSULATION

## for service up to 1200° F



### DESCRIPTION

B-H Blanket Insulation consists of flexible blankets manufactured by baking high temperature, moisture resistant, spun mineral wool in large flat sheets between different styles of metal fabrics.

Effective up to 1200° F., it is unexcelled in its insulating efficiency and economy of application. The soft fibers of each blanket interlock with the edges of the one next to it, forming a quickly applied, continuous blanket of insulation without cracks or joints. Since the blanket is flexible, it can be applied to equipment with curved or irregular surfaces without breaking. If the equipment does not have a casing and a cement finish is desired, style 2-A blanket, which has expanded metal lath on one side makes a good surface for adhering cement. This eliminates the need for metal lath or lathing before application of the insulating cement.

### USES

| | |
|---|---|
| cylindrical boilers and tanks | volute casings |
| boiler casing walls | railroad tank cars and locomotives |
| fan housings and preheaters | oil refinery towers and tanks |
| milk, asphalt and other type tank trucks | precipitators |
| boiler breechings and ducts | spool sleeves |
| | turbines |
| | ovens |

### SIZES

B-H Blanket Insulation is [illegible] standard sizes of 2 by 4 ft. and 2 by 8 ft. [illegible] 1 to 5 in.

Special sizes can be made upon request at additional cost.

### FEATURES

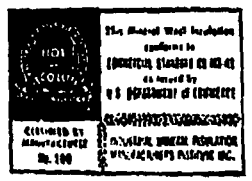
**inherent strength** The spun mineral wool is removed from the production line in rolls and the metal mesh applied without disturbing the natural interlocking of the fibers. It is this interlocking of fibers, inherent in B-H Blankets, which adds so much to their ease of handling.

**factory fabricated** Produced by skilled workmen in the specialized "Blanket Department," rigid factory controls assure proper uniformity of product without danger of "voids" so often found in field-made blankets.

**outstanding stability** B-H Blankets resist the action of moisture or corrosive fumes; will withstand normal vibration and retain efficiency without breaking down.

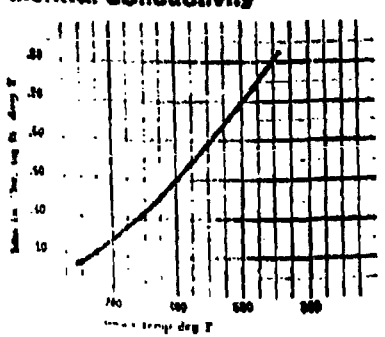
**versatile** The numerous available styles of B-H Blankets permit their use in many different applications with a wide variety of finishes.

### CERTIFIED




B-H Blanket Insulation is authorized by the Industrial Mineral Insulation Manufacturers Institute Inc. to use the Certification label. This label assures you that the product has passed stringent laboratory tests and meets requirements of Commercial Standard CS-117 as promulgated by the National Bureau of Standards.

### thermal conductivity

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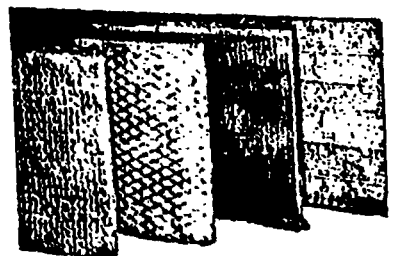
### standard styles



1 in. wire mesh stucco lath expanded metal lath rib lath specifically constructed for covering large areas

1 1" Wire Mesh both sides
2 1" Wire Mesh and Stucco Lath
2-A 1" Wire Mesh and Expanded Metal Lath
2-B 1" Wire Mesh and ¾" Rib Lath turned in
3 Stucco Lath both sides
3-A Expanded Metal Lath both sides
3-B Stucco Lath one side, Expanded Metal Lath other side
4 Stucco Lath and ¾" Rib Lath (rib turned in)
4-A Stucco Lath and ¾" Rib Lath (rib turned out)
5 Stucco Lath and ¾" Rib Lath (rib turned in)
5-A Stucco Lath and ¾" Rib Lath (rib turned out)
6 ¾" Rib Lath both sides
7 No. 12 Mesh Fly Screen Wire both sides
8 ¾" Rib Lath turned in and ¾" Rib Lath turned out

Special styles available upon request to General Office at Trenton, New Jersey.

### RECOMMENDED THICKNESSES

| hot surface temp., deg. F. | thickness, in. | hot surface temp., deg. F. | thickness, in. |
|---|---|---|---|
| 100 to 200 | 1½ | 500 to 800 | 4 |
| 200 to 300 | 2 | 800 to 1000 | 5 |
| 300 to 500 | 3 | 1000 to 1200 | 6 |

### PACKAGING

Packed in steel strapped, high-test corrugated boxes.

### APPLICATION

*preparation*

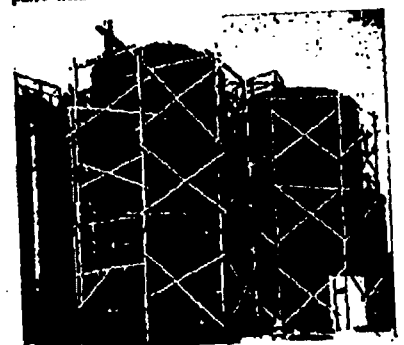
Weld horizontal angle iron supports (with ¾ in. holes drilled 8 in. o.c.) to vessel at 8 ft. intervals, starting 8 ft. above bottom. Blankets are to be hung from these supports.

*application of blankets*

Hang blankets from angle supports, wired on 8 in. centers with No. 18 ga. galvanized binding wire, with wire mesh side of blanket against the side of the vessel. Lace all abutting blanket edges with No. 16 ga. galvanized soft annealed lacing wire. Apply galvanized steel bands as follows:



Style 2-A B-H Blankets on rubber vulcanizer, held in place with ¾ inch wide galvanized steel bands.



Oxidizing tanks covered with B-H Blanket Insulation held on with ¾ inch wide bands.

| vessel dia. | band size | spacing: vertical on parallel | spacing: radial at (OD) of heads |
|---|---|---|---|
| 6' and below | ¾" x .020 | 8" | 18" |
| 6' to 10' | ¾" x .020 | 6" | 18" |
| 10' to 15' | ¾" x .023 | 6" | 18" |
| 15' to 20' | ¾" x .023 | 5" | 18" |

Tighten bands to hold blankets securely. Apply a ¾ inch thick coat of B-H Super Powerhouse Cement taking care to level the surface. Trowel smooth with a steel trowel.

For exterior use, treat units exposed as follows: After the B-H Super Powerhouse Cement has dried, stretch poultry netting over it and cover with ¾ in. coat of B-H Weatherseal, which, when dried, should not be less than ¾ in. thick.

354598

## SPUN FELT INSULATION

**for service from -150° F to 600° F**

### DESCRIPTION

Effective over the full range of temperatures from subzero up to 600° F., B-H Spun Felt is a highly resilient and light-weight insulation fabricated of high temperature resisting, moisture repellent spun mineral wool. Its fibers are felted and bonded together, and uniformly distributed to provide extremely low thermal conductivity. Chemically stable, B-H Spun Felt insulation cannot disintegrate under the most severe service conditions. Its resiliency prevents settling and loss of efficiency.

### USES

| | |
|---|---|
| electric and gas ovens | refrigerators |
| dryer and oven panels | locker plants |
| boiler casings | insulated truck bodies |
| air conditioning systems | cold water lines |
| hull insulation | deck and bulkheads |
| ship refrigeration | ammunition chambers |

### FEATURES

**density** B-H Spun Felt is available in 2.5, 4, 6 lb. and special densities.

### SIZES

Length: 24, 30, 36 and 48 in.
Width: 12 and 24 in.
Thickness: 1 to 6 in. in ½ in. increments

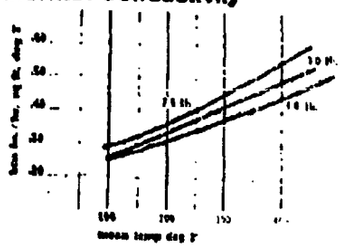
### APPLICATION

**preparation** Piping must be clean, dry and should be tested for leaks before applying insulation.

***application of felt (outdoor cold piping)*** Coat bare pipe with hot asphalt (180° F. to 200° F. melting point). Before asphalt has a chance to cool, apply a coat of 15 lb. saturated rag felt with 4 in. lap on ends and ends, and mop again. Apply 1½ in. thick layer of B-H 4 lb. Spun Felt secured with wire twine spaced on 1 in. centers.

Apply a layer of 15 lb. rag felt which has been mopped with hot asphalt over the first layer of B.H. Lapped 4 in. as above and again mop with asphalt after application. Apply one or two more layers of 1" to B-H 3 lb. Spun Felt, pulp twine, 15 lb. rag felt and asphalt as specified above. Over the last layer of B-H Spun Felt [illegible]

### thermal conductivity






6½ pound density B-H Spun Felt applied to hot asphalt coat and held on with steel strapping.

lb. rag felt, mopping before and after application. Over the final layer of 15 lb. rag felt, apply cover of 35 lb. roofing felt with joints lapped 6 in. and sealed with roofing cement.

Before roofing cement dries, apply 5 in. steel bands, 6 in. on centers with one band over each end lap.

Where lines are interrupted by valves or fittings, and at 20 ft. intervals of straight piping, seal up insulation by stopping intervening layers of 15 lb. rag felt short of the seal preventing layer, carefully sealing the ends with hot asphalt.

***application of felt (valves and fittings)*** Apply coat of hot asphalt to the bare metal surface of fittings, immediately adding one thickness of 8 oz. burlap and again mop with hot asphalt to form a perfect seal.

Apply a layer of 1½ in. thick B-H 3 lb. Spun Felt, wrapped with [illegible] in. on center, followed by [illegible] of burlap, etc., to the same thickness as adjacent piping insulation and add an extra mop coat of hot asphalt. Over this insulation apply ¼ in. coat of B-H Super Powerhouse Cement. Seal with [illegible] when dry) of B-H Weathercoat lapping over [illegible] adjacent piping insulation.

***applications of felt (heated equipment*** Enclose B-H Spun Felt insulation between metal casings of heated equipment using proper thickness and density.

***application of felt (cold storage room)*** Install B-H Spun Felt insulation in walls, floors and ceilings of cold [illegible] supporting it between treated wood [illegible]. Protect it with complete asphalt [illegible] on the outside of the insulation. Face [illegible] with [illegible] on finished surfaces.

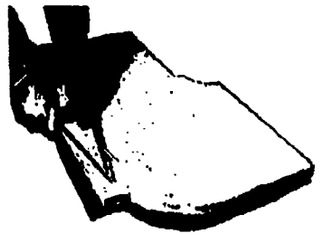
[illegible]

35-1536





## DUCT INSULATION



### DESCRIPTION

B-H Spun Mineral Wool Duct Insulation for air conditioning and heating ducts is available plain, with factory-applied vapor barrier or with a neoprene coating. This insulation is made in semi-rigid sheets, processed from long, fine fibers of spun mineral wool, is light in weight, easy to cut and quickly installed. It provides a high degree of thermal efficiency and excellent sound absorption. (In 1" thickness it has a noise reduction coefficient of 0.80.)

### FEATURES

B-H Spun Duct Insulation is suitable for insulating heated surfaces up to 450°F. With a vapor barrier, it is usually used for cooled air ducts, and to avoid softening the asphalt should be kept below 150°F. This material has a nominal density of 7 lbs per cu ft, is non-corrosive and moisture-resistant. Non-irritating to handle, B-H Duct Insulation has a smooth, clean surface, free from loose particles. It is easy to cut with a knife. For curved surfaces, it can quickly be scored for bending. The plain and coated duct insulations have been tested and rated by Underwriters' Laboratories, Inc.

### thermal conductivity

| Mean Temp. deg. F. | btu/in/hr., sq. ft., deg. F. | Mean Temp. deg. F. | btu/in/hr., sq. ft., deg. F. |
|---|---|---|---|
| 0 | .21 | 75 | .24 |
| 25 | .23 | 100 | .25 |
| 50 | .24 | 200 | .30 |

## B-H FINE-FYBER FELT



### DESCRIPTION

B-H Fine-Fyber Felt is a long fibered, featherweight thermal and acoustical insulation made of incombustible, moisture resistant mineral fibers bonded with a small amount of thermosetting resin binder. It may be used for all types of application from subzero to 450 F. The fibers, when felted, contribute the extraordinary resilience that insures "spring-back" to fill dilated space and prevent shake-down or settling.

B-H Fine-Fyber Felt is fire-resistant, contains nothing that will contribute to corrosion of metal surfaces.

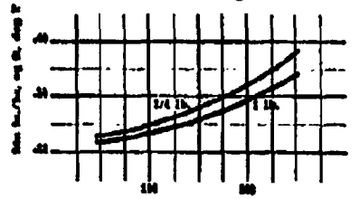
B-H Fine-Fyber Felt is available in rolls of 50 to 900 foot lengths depending on density and thickness.

Width: 24, 36 and 72 in. (all densities).

Thickness: ½ to 4 in. depending on density.

Densities: ¾, 1, 1½, 2 and 4 lb. per cubic foot.

### thermal conductivity




available facings

| TYPE | DESCRIPTION | ROLL WIDTHS |
|---|---|---|
| Lightweight Vapor Barrier | Bleached cotton reinforced vapor barrier paper. Not to color. Not flame-sheet. | 24" & 48" |
| Heavy-Duty Vapor Barrier | Heavy building paper. Vapor barrier. Not to color. Not fire resistant. Vapor controlled. | 24" & 48" |
| Felt-Reverse Kraft | Open mesh glass fiber reinforced aluminum foil and flame-proofed kraft paper laminate. Vapor barrier. | 24" & 48" |
| .004" Vinyl Film | Tough, flexible silver-gray vapor barrier film. Fire resistant. .004" thick. | 24" & 48" |
| .0007" Alum. Foil | Reflective fire-resistant foil. Not a vapor barrier. | 24" & 48" |
| .001" Alum. Foil | Reflective vapor barrier foil. Fire resistant. | 24" & 48" |
| .001" Alum. Foil | Heavy reflective vapor barrier foil. Fire resistant. | 24" & 48" |
| Reinforced Asbestos Paper | Extra reinforced fire resistant. Not a vapor barrier. Used for shipping joints available. | 24" |
| Coated Asbestos Paper | Reinforced asbestos paper impregnated with pure fire resistant plastic film. Vapor available. Vapor barrier. | 24" & 36" |
| Laser Treated Kraftin | Neoprene latex treated and sized. Fire resistant. Vapor available. | 24" & 48" |

## KOLDBOARD



### DESCRIPTION

Made from chemically stable spun mineral wool fibers felted and bonded together to form flat, rigid blocks, B-H Koldboard will not support combustion. It absorbs a negligible amount of moisture (less than 2% by volume) even when exposed to humidities up to 95%. Koldboard will not disintegrate, decay or break down structurally under the most severe service conditions. B-H Koldboard has a density of approximately 15 lb. per cubic ft.

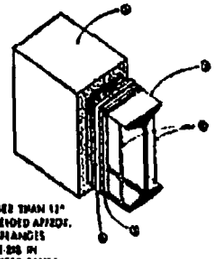
### SIZES

Length—18 and 36 inches.
Width—6, 12, and 24 inches.
Thickness—½, 1, 1½, 2, 2½, 3, 3½, and 4 inches.

### RECOMMENDED THICKNESSES

| room temperature | thickness, in. | oven temperature | thickness, in. |
|---|---|---|---|
| −45° to −15°F. | 10 | 15° to 25°F. | 6 |
| −15° to 0°F. | 8 | 25° to 35°F. | 5 |
| 0° to 15°F. | 7 | 35 to 60°F. | 4 |

## FLAME-CHEX CEMENT



(1) I-BEAM LARGER THAN 12"
(2) ½" ROD WELDED APPROX. 12" O.C. TO FLANGES
(3) ½" BIB LATH 3/8 IN
(4) ¾" GALVANIZED BANDS
(5) B-H FLAME CHEX FIREPROOFING CEMENT

### DESCRIPTION

B-H Flame-Chex Cement is a fireproofing, insulating material used to prevent collapse, distortion and other fire damage to structural steel. It resists elevation, does not disintegrate when exposed to moisture and does not crack, check or spall.

### COVERAGE

Dry coverage of B-H Flame-Chex Cement is approximately 30 sq. ft., 1 in. thick per 100 lb.

### APPLICATION

Wherever fire exposure is possible, enclose columns, beams, braces and stiffeners with a two-inch-thick layer of cement. On tanks and vessels, apply a protecting skirt up to the level of attached pipes, valves, etc.

Hard finish the outer surface for protection against high-pressure hose streams and weatherproof outdoor installations to prevent entry of moisture and dampness.

## BOND-TITE

A highly adhesive material that can be easily troweled or spatted to the surface of block insulation. Bond-Tite is particularly adaptable to temporarily securing block insulation prior to application of retaining wire. Applied on metal surfaces, Bond-Tite has a coverage of approximately 100 sq. ft. per 500 lbs. To apply, simply trowel Bond-Tite on the block and press into place on either metal or brick surfaces. Packaged in 5 gal. pails and 55 gal. drums.

## FILL INSULATION

Effective up to 1200° F. B-H Spun Mineral Wool makes an efficient, lightweight fill insulation that will not settle. Because of its resistance to high temperatures, it will not disintegrate or fail under severe conditions. Its light weight will not appreciably increase the weight of equipment. B-H mineral wool insulation covers 15% to 20% greater area than most similar products. It is available both as a long fibered loose wool, ideal for filling large areas, and as a granulated wool for filling confined spaces. Packaged in multiwall paper bags. Average density in normal installation is 3 to 5 lbs per cu ft.

## WEATHERSEAL

B-H Weatherseal is a complete waterproof weathercoating for insulated surfaces. A fire-resistant asphalt compound, it is readily applied by trowel to the surface of insulating cement or other insulating material to provide permanent protection under the severest weather conditions. Weatherseal will not crack because of temperature changes. When dry, it retains its black color, but may be painted with aluminum paint if desired. It will cover 55 sq ft, ¼ in. thick per 100 lbs. Dries to ¼ in. thickness. Packaged in 50 lb pails, 300 and 500 lb drums.



~ 351601



New Speed Fastening

# 101 PIPE INSULATION

**for service up to 1,200°F.**

### DESCRIPTION

B-H No. 101 Pipe Insulation is Baldwin-Hill's latest development for speedier and more efficient pipe insulation.

Factory fabricated to a uniform density, B-H No. 101 Pipe Insulation is made from high temperature, moisture resistant, spun mineral wool specially felted to interlock the fibers and prevent fall-out.

The No. 101 Pipe Insulation is made in 2 ft. sections faced with 16 ga. galvanized welded wire of 2 in. by 2½ in. mesh. This facing is held in place by 16 ga. tie wires attached to 1 in. expanded metal lath strips on the inside of the blanket. Speed fastening is made possible by the use of seven extended lead wires, which thread under the opposite stay wire, and are bent up and over, to secure the pipe insulation. See photographs for application instructions.

### USES

Suitable for jacketed pipes and steam traced lines requiring maximum efficiency, No. 101 Pipe Insulation was specifically designed for runs of pipe to be weatherproofed or faced with sheet metal or roofing felt. On lines where insulating or finishing cement is to be used, apply B-H No. 100 Pipe Insulation which has an expanded metal lath surface to which the cement may be keyed.

#### moisture resistance

B-H No. 101 Pipe Insulation is highly suitable for use in the presence of heat and moisture, since it has a low alkalinity factor.

### PACKAGING

Packed in steel strapped highest cardboard cartons.

### SIZES

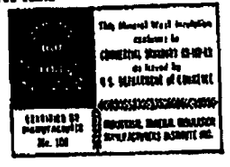
Length—3 ft. sections for pipe sizes from 4 in. up to and including 30 in. pipe.

Thickness—1½ in., 2 in., 2½ in., 3 in., and 4 in.

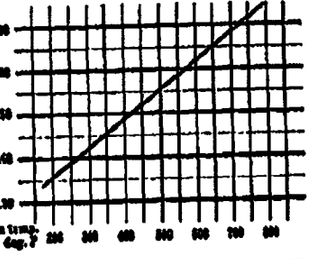
### RECOMMENDED THICKNESSES

| hot surface temp., deg. F. | thickness, in. | hot surface temp., deg. F. | thickness, in. |
|---|---|---|---|
| 100 to 200 | 1½ | 300 to 500 | 3 |
| 200 to 300 | 2 | 500 and up | 4 |

### CERTIFIED

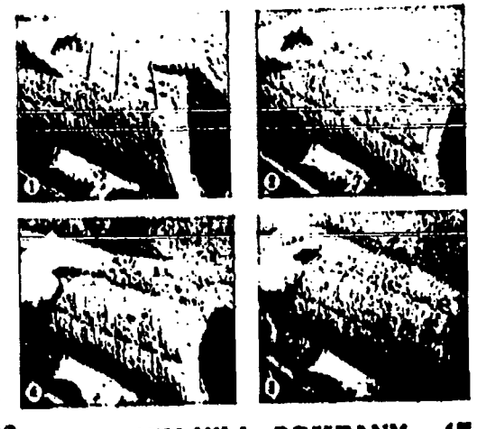


### thermal conductivity

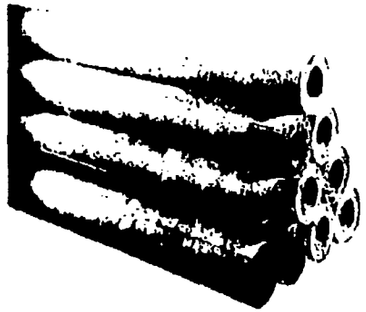



### APPLICATION

1. Place B-H 101 Pipe Insulation, fabric side out, around pipe or plate. Draw together and secure with wires in butt joint and laterals. Seal center joint with cement. Apply cement over wire to hold insulation around pipe.
2. Stagger bend to conceal all lead wires.
3. Compact over entire sizing length of felt.
4. Wire butt bands, pull bands very tightly together. Bend metal lead wire back and pass loop and into blanket.
5. Wire butt ends hold plates, bandage, press all remaining lead wires into blanket. B-H 101 Pipe Insulation is ready for application of sheet metal or roofing felt covering.



## MONO-KOVER
### one piece pipe insulation



### DESCRIPTION

Baldwin-Hill Mono-Kover is a featherweight pipe insulation composed of incombustible, moisture-resistant mineral wood fibers, bonded with phenolic resin and molded into 3-ft. and or 6-ft.-long, one-piece sections.

B-H Mono-Kover is highly flexible and resilient. It is outstanding in its resistance to damage or breakage from handling during application. It springs back to its original shape after sections are spread apart to apply on piping. The insulation is intended for application on standard sizes of pipe for temperatures up to 350° F. and, with proper vapor barriers, for low temperature lines down to subzero temperatures.

Because of its light weight, extra length, resilience and ease of handling B-H Mono-Kover costs less to apply than other forms of pipe insulation

### USES

All standard copper tubing or iron pipe sizes within prescribed temperature limits.

### FEATURES

**lightweight** B-H Mono-Kover is 4 to 10 times lighter than other types of pipe insulation. For example a 6-foot section 1" thick for 2" pipe weighs approximately 1½ lbs. Ninety sections of 6-ft. pipe insulation would weigh only 20 lb.

**tough-resilient** B-H Mono-[illegible] cannot be broken [illegible] chip splinter or crumble [illegible] cold shapes. It [illegible] to dust or back [illegible]

**moisture-resistant** [illegible] Mono-Kover do not [illegible] wetting or humid [illegible] is unstable and [illegible]

**permanent** [illegible] pipe insulation [illegible]



So quick and easy to apply B-H Mono-Kover opens to cover pipe, snaps into place ready for stapling or taping. Application takes a minimum of effort, saving time and up to 50% in cost.

resistant, they cannot rot, mold, decay, decompose or otherwise disintegrate. They resist the attack of most acids and alkalis.

**pleasant to handle** This insulation has a smooth, clean surface and is free from loose particles. It can be handled with bare hands without discomfort or injury. Because of their light weight as well as being finely felted and molded, the sections are easily transported and handled.

**non-corrosive** With nothing but mineral wood fibers and resin binder, there is nothing to contribute to the corrosion of metals such as steel or aluminum.

### SIZES

| thickness, | pipe size |
|---|---|
| ½ in. | ¾ in. through 10 in. |
| ¾ in. | 1 in. through 6 in. |
| 1 in. | 1¼ in. through 24 in. |
| 1½ in. | 1½ in. through 36 in. |
| [illegible] in. | 2 in. through 30 in. |

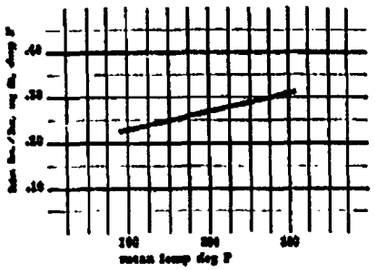
[illegible] tubing sizes 1 in. through 6 in.



351607



### thermal conductivity




### AVAILABLE FACINGS

**MONO-KOVER** is available with the following facings already applied to the pipe insulation in three-foot lengths to meet practically any installation specification.

**STANDARD VAPOR BARRIER JACKET** (Black) for dual Temperature service. (Foil between two layers of black Anglers paper.)

**SPECIAL VAPOR BARRIER JACKET** (White) for dual Temperature service. (Foil between outside layer of white Anglers vapor barrier paper and inside layer of black Anglers paper.)

**LIGHT DUTY VAPOR BARRIER JACKET** (White) (Foil with outside layer of white Anglers vapor barrier paper.)

**FOIL FACED FLAMEPROOF KRAFT JACKET** (Foil outside lined with 70 lb. Kraft paper inside.)

**CANVAS**—Standard weight—4 oz., 8 oz., and 8 oz.

**WEATHERPROOF ROOFING PAPER**—35 lb., 45 lb. and 55 lb.

Four-inch wide strips of facing material are furnished to cover end joints of all jacketing except canvas.

### RECOMMENDED THICKNESSES

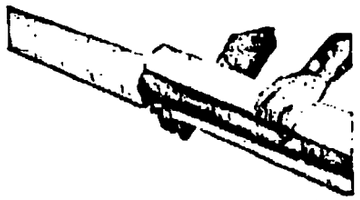
For complete information request specific Mono-Kover brochure.

### APPLICATION

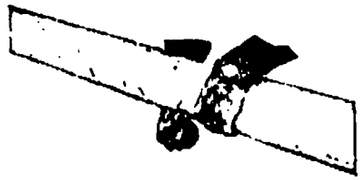
***preparation*** Piping must be clean, dry and should be tested for leaks before applying insulation. Provide adequate spacing between lines, with suitable hangers and expansion joints. Refrigeration and "cold" piping should be insulated and sealed with vapor barriers before being put into operation.

***application of pipe insulation*** Install the specified thickness of insulation by spreading the slit of each section, slipping it over the pipe and securing it with staples across the seam. Bands or other fasteners may be used if preferred.

For refrigerated pipes, a vapor barrier on the outside of the insulation is required and all seams, laps and joints must be sealed with lap cement. Mono-Kover with an already-applied vapor barrier may be obtained for this use.



Simply spread each one-piece section at the seam and slip one end over the pipe. Then bands along the Mono-Kover and it snaps into place to fit snugly around the pipe. Application takes a minimum of effort, saving time and cost.



Press the seam together and apply any standard type of fastening—tape, staples, metal bands, bands, paste or others. The natural resilience of Mono-Kover holds it on the pipe so that both hands are free for fastening.



Mono-Kover is easily cut with a knife and saw to fit pipe joints.

***finishing*** B-H Mono-Kover can be painted as desired for appearance and to conform with surroundings, or purchased with facings already applied to the pipe insulation.

Where protection from mechanical abuse is required, apply a 28 gauge sheet metal jacket lapped at least 2 inches at all joints and held on with sheet metal screws.

For outdoor service, apply weather protection over plain Mono-Kover consisting of 35 pound asphalt saturated asbestos roofing felt lapped 2½ inches at all joints and held on with 16 gauge copper-clad wires on 6-inch centers, or with suitable galvanized steel bands.

351604

# 85% MAGNESIA PIPE INSULATION

## for service up to 550° F



### DESCRIPTION

B-11 85% Magnesia is composed of basic hydrated magnesium carbonate and asbestos fibers molded by a patented process into rigid form, resulting in an extremely light-weight but strong product. Its microscopic crystalline structure has a very high porosity and correspondingly high insulating value, while the reinforcing asbestos fibers add to its structural strength and resistance to breakage. Within its temperature limit, the effects of heating are so slight as to be negligible, consequently it does not crack, spall or soften. Ability to withstand shipping and application is assured by its excellent resistance to vibration and mechanical shock. Available in sectional form for pipes up to and including 18-inch diameter, B-11 85% Magnesia insulation combines high insulating efficiency with long trouble-free service.

### USES

All standard copper tubing or iron pipe sizes within prescribed temperature limits.

### RECOMMENDED THICKNESSES

| Temp. range (F.) | Pipe insulation thickness* (nominal in.) for pipe sizes, in. | | | | Equipment insulation thickness, in.** |
|---|---|---|---|---|---|
| | ½ to 3½ | 4 to 6 | 7 to 10 | 11 and over | |
| 100-300 | 1 | 1 | 1½ | 1½ | 1½ |
| 300-400 | 1 | 1½ | 1½ | 2 | 2 |
| 400-500 | 1½ | 2 | 2½ | 2½ | 2½ |
| 400-500 | 1½ | 2 | 2½ | 2 | 3 |
| 500-600 | 2 | 2½ | 3 | 3½ | 3½ |

*Thicknesses for average conditions; exceptional conditions may necessitate thicker insulation.

**For outdoor lines and equipment, use ½ in. thicker insulation than listed.

Note: Tables prepared from data supplied by NIMA.

### FEATURES

***simplified dimensional standards*** All B-11 85% Magnesia as well as Calcium Silicate pipe insulation conforms to simplified dimensional standards. This provides that the outside diameter of the insulation for most pipe sizes is the same as the I.D. of insulation of larger pipe, thus permitting the use of insulation for the larger pipe as an outer layer over the smaller insulation where thicker insulation is needed.

This uniform system permits the use of Calcium Silicate as an inner layer with an outer layer of 85% Magnesia within prescribed temperature limits.

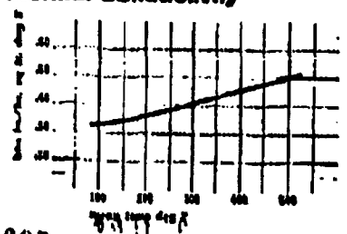
***negligible shrinkage*** Linear shrinkage at 500° F. is less than 1%. No appreciable opening of joints, circumferential or longitudinal, is to be anticipated as a result of thermal shrinkage of B-11 85% Magnesia pipe insulation. Properly installed pipe insulation will maintain its good appearance and remain unchanged for many years.

***density*** Due to its low density of approximately 11 lbs per cu ft, even large sections of B-11 85% Magnesia pipe insulation are easily handled and applied by one man. Structural strength and accurate sizing allow its rapid and smooth application on piping, without hazard or discomfort to workmen.

***compressive strength*** B-11 85% Magnesia has more than ample compressive strength. Tests show 75-90 lb./sq.in. required for 5 inch compression of a piece 1½ inches thick.

***smooth surface*** Both the inside and outside surfaces of B-11 85% Magnesia are molded against smooth steel surfaces and no machining or milling to thickness is required. This produces exceptionally smooth and firm surfaces, adding to the permanently good appearance.

### thermal conductivity



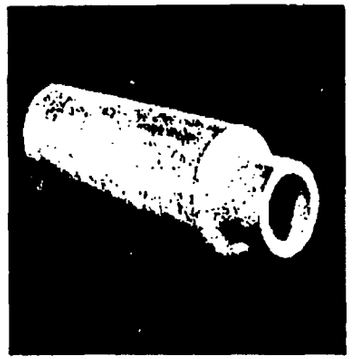



354605



# CALCIUM SILICATE

## for service up to 1200° F



### DESCRIPTION

B-11 Calcium Silicate pipe insulation fills a need for an efficient insulator for surfaces from 550° to 1200° F., with properties comparable to those of 85% Magnesia in the lower temperature range. Its light weight (12 lb. per cubic foot), its strength both flexural and compressive, its low shrinkage on heating up to 1200° F. and its low thermal conductivity all compare favorably with the corresponding properties of 85% Magnesia. It is equally easy to cut, fit and apply to pipe lines.

### USES

All standard copper tubing or iron pipe sizes within prescribed temperature limits.

### RECOMMENDED THICKNESSES

| Temp. °F. | Condition of Steam Surface | Pipe Sizes up to 2" | Pipe Sizes 2½ to 4" | Pipe Sizes 4½ and over |
|---|---|---|---|---|
| Up to 212 | Any Vacuum | 1" | 1" | 1" |
| 212 to 267 | 0 to 25 lbs. | 1" | 1" | 1½" |
| 267 to 338 | 25 to 100 lbs. | 1" | 1" | 1½" |
| 338 to 388 | 100 to 200 lbs. | 1" | 1½" | 2" |
| 388 to 500 | Low Superheat | 1½" | 2" | 2" |
| 500 to 600 | Superheat | 2" | 2" | 2" |
| 600 to 700 | Superheat | 2" | 2" | 3" |
| 700 to 800 | Superheat | 2" | 3" | 4" |
| 800 to 900 | Superheat | 3" | 4" | 4" |

### FEATURES

***south with 85% Magnesia*** A principal feature is the ability to use B-11 Calcium Silicate as an inner high-temperature layer of double-layer insulation, with 85% Magnesia as the outer layer. Made for the same range of pipe sizes and in the same thicknesses, both materials are interchangeable in so far as dimensions are concerned, both initially and after being in service, so any desired combination can be put together with ease. No price premium is involved for combining the two materials over that for one material alone.

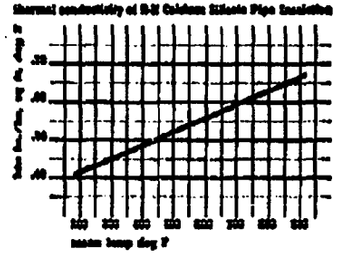
***negligible shrinkage*** Linear shrinkage at 1200° F. is only 1% to 2%. No appreciable opening of joints, circumferential or longitudinal, is to be anticipated as a result of thermal shrinkage of B-11 Calcium Silicate pipe insulation.

***density*** The low density of 12 lbs per cu ft of Calcium Silicate is almost equal to that of 85% Magnesia, resulting in similar ease of handling and application characteristics.

***compressive strength*** B-11 Calcium Silicate has more than ample compressive strength to meet all specifications and performance requirements.

***smooth surface*** Since essentially the same manufacturing equipment is used in the production of B-11 Calcium Silicate as is used for 85% Magnesia, equal smoothness from molding results without machining or milling. An exceptionally smooth and firm surface of Calcium Silicate comparable to that of 85% Magnesia is assured.

### thermal conductivity




### SEGMENTAL PIPE INSULATION

Both 85% Magnesia and Calcium Silicate pipe insulation are made in segmental form for pipe sizes larger than 18" O.D. Segmental insulation is also suitable for large diameter tanks and cylindrical surfaces of equipment. Segments are 36" long and approximately 6" wide, curved to match the surface to which they are to be applied. Edges are cut to the proper angle to assure a good fit. Made of the same basic materials all the properties of sectional insulation apply equally to segmental insulation.

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# BALDWIN-HILL

**OFFICES**

500 Broonig Avenue
Trenton 9, New Jersey
Expert 6-4171

500 Fifth Avenue
New York 36, New York
Bryant 9-2996

600 South Michigan Ave.
Chicago 5, Illinois
HArrison 7-0888

701 North Broadway
Huntington, Indiana
HUntington 124

702 East French Street
Temple, Texas
PRospect 8-2192

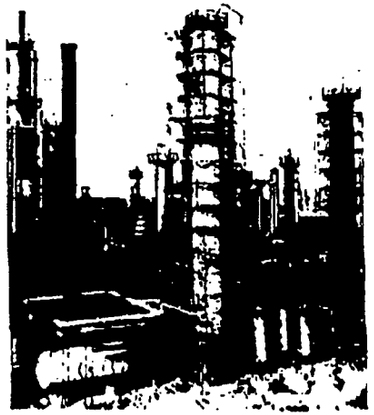
4101 San Jacinto
Houston, Texas
JAckson 4-4611

**PLANTS**

Trenton, New Jersey
Huntington, Indiana
Kalamazoo, Michigan
Temple, Texas



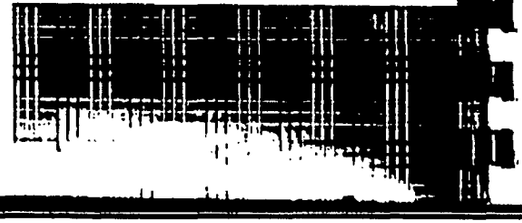
Baldwin-Hill Super Powerhouse Cement and Baldwin-Hill Mono-Block insulate the boilers at Philadelphia Electric Company's Cromby Station.



Baldwin-Hill Super Powerhouse Cement on world's first Reformer at Aurora Gasoline Company's Detroit, Michigan Refinery.

## BALDWIN-HILL COMPANY

TRENTON, NEW JERSEY



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BALDWIN-HILL PRODUCTS
AND
SPECIFICATIONS - FEDERAL, MILITARY, MARITIME AND ASTM

| Baldwin-Hill Product | Federal | Military | Maritime | ASTM |
|---|---|---|---|---|
| Batts | HH-I-521e | | | |
| Blanket, Metal-Mesh | HH-I-563 | MIL-I-2815 | | C 363 |
| Cement, No. 1 | HH-C-168 | MIL-I-2861 | | C 195 |
| Cement, Improved Super Powerhouse | | MIL-C-19058A | | In preparation |
| Duct Insulation | HH-I-542, HH-I-563 | | | |
| Fine-Fyber Felt | HH-I-542 | MIL-I-16022 B | | C 364, C 553 |
| Spun Felt | HH-I-542, HH-I-563 | MIL-I-16658 C | | C 364, C 553 |
| Granulated Wool | HH-I-521c | | | |
| Moldboard | HH-I-526a, HH-I-563 | | | C 378 |
| Loose Wool | HH-I-521c | | | |
| Mono-Block | HH-I-564 | | | C 592 |
| Mono-Rover | HH-I-553 | | | C 300, C 551 |
| Pipe Insulation, No. 200 | HH-I-552, HH-P-387 (Obsolete) | | | C 280 |
| Pipe Insulation, 85% Magnesia | HH-I-534 | | | C 320 |
| Pipe Insulation, Calcium Silicate | HH-I-533a | | | C 345 |
| Pipe Insulations, Wunder's | | MIL-I-278) B (2) | | |

U. S. COAST GUARD

STRUCTURAL INSULATIONS

| | | | |
|---|---|---|---|
| 164.007/18/O | Baldwin-Hill 6-pound Felt, | 4" @ | 6#/cu.ft. |
| 164.007/19/O | Baldwin-Hill Loose Wool, | 38 @ | 11#/cu.ft |
| 164.007/22/O | Baldwin-Hill 8-pound Felt, | 3" @ | 8#/cu.ft. |
| 164.007/21/O | Baldwin-Hill Mono-Block, | 2" @ | 18#/cu.ft. |

INCOMBUSTIBLE MATERIALS

164.009/25/O Baldwin-Hill Spun Felt, 3 and 4 lb/cu.ft.

MARITIME SPECIFICATIONS

| Number | Title | Baldwin-Hill Product |
|---|---|---|
| 32 MC-1 | Insulation: Mineral Wool - Blanket Type | Spun Felt, 3 to 8 lb. density |
| 32 MC-2 | Insulation: Mineral Wool - Block Type (For use below 285F) | |

ASTM SPECIFICATIONS

| | | |
|---|---|---|
| C 363 | Mineral Wool Blanket Insulation - (Metal-mesh covered) (Industrial Type) | Metal-mesh Blanket (All Types) |
| C 195 | Mineral Wool Thermal Insulating Cement | No. 1 Cement |
| C 364 | Mineral Felt Insulation - (Industrial Type) (For Low Temperatures) | Type I, Fine-Fyber Felt<br>Type II, H-H Spun Felt |
| C 553 | Mineral Wool Felt Insulation - (Industrial Type) For Elevated Temperatures | Type I, Fine-Fyber Felt<br>Type II, H-H Spun Felt |
| C 378 | Mineral Wool Block or Board Thermal Insulation for Low Temperatures | Moldboard |
| C 592 | Mineral Wool Block or Board Thermal Insulation for Elevated Temperatures | Mono-Block<br>Classes 1 and 2 |

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