ASBESTOS PRODUCTS

85% MAGNESIA

RAKCO PACKINGS



ROBERT A. KEASBEY CO.

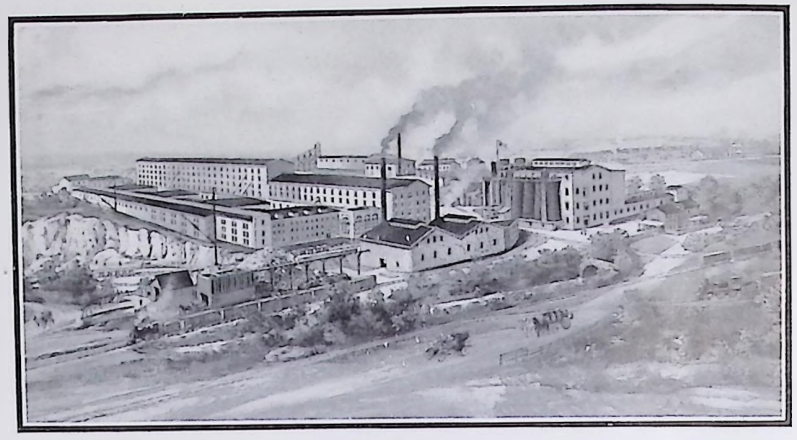
New York

Published by AsbestosClaims.Law
asbestosclaims.law/library/21292/1

INSULATION



Published by AsbestosClaims.Law
asbestosclaims.law/library/21292/2





Catalogue of
HEAT AND COLD INSULATION MATERIALS
ASBESTOS, FLAX & RUBBER
Packings

ROBERT A. KEASBEY CO.
DISTRIBUTORS & CONTRACTORS
P. O. BOX 184 ELSMERE, N. Y.

ROBERT A. KEASBEY COMPANY
General Offices
WEST AND BANK STREETS
1725 Erie Blvd. East NEW YORK 141 West 19th. Street.
Branch Offices and Warehouses
~~100 CATHERINE ST.~~ ~~HARTFORD TRUST CO. BLDG.~~
SYRACUSE, N.Y. HARTFORD, CONN.

Robert A. Keasbey Company: Catalogue of Heat and Cold Insulation Materials, Asbestos, Flax and Rubber Packing… Published by AsbestosClaims.Law
ACL Doc 21292 · Page 3 of 52 asbestosclaims.law/library/21292/3

Copyrighted, 1919, by
Robert A. Keasbey Company
New York

Bartlett Orr Press, New York

Foreword

HALF a century ago, the science of heat insulation was but little understood and all kinds of materials were used for this purpose, from hay and feathers to lath and plaster. Heating installations were seldom, if ever insulated. But coal was cheap, pressures were low, and economy was not recognized as it is in the present day.

The development of high steam temperatures and the increasing use of superheated steam has revolutionized the insulation industry so that today only the most efficient grade of coverings can be used for temperatures prevalent in modern practice.

The discovery, in 1883, of the value of Magnesia for insulation purposes, and the rapid development of the Asbestos industry, placed at the command of the engineer an entirely new series of heat-insulating materials—infinitely superior in non-conductivity and durability to those of the previous era.

The history of the Robert A. Keasbey Company is synonomous with the development of modern heat insulation. And, having kept pace with the industry as it has developed during a period of thirty-five years, this company is equipped to meet any requirement in the insulation field, whether for hot or cold services.

Our business growth has been steady and continuous. By scrupulous attention to the needs of our customers and the quality of our products, we have achieved a position admitted to be second to none in the industry. It will be our aim in the future to increase, if possible, the friendly relations which have always existed between our clients and our organization by every means in our power.

In our warehouses in New York City, we carry large stocks of standard insulation materials as well as a complete line of packings, asbestos textiles, and brake linings in general use, in order to promptly meet the demands of our customers.

ROBERT A. KEASBEY COMPANY

NEW YORK, 1919



Crude Canadian Chrysotile Asbestos

Published by AsbestosClaims.Law
asbestosclaims.law/library/21292/5

Asbestos

THE word "Asbestos" is derived from the Greek and signifies "inconsumable."

Asbestos was known to the ancients, but it was not until the early seventies that the engineering world took an interest in asbestos and a London company commenced to exploit deposits located in the Aosta Valley in Italy.

There are two kinds of asbestos (1) Amphibole, and (2) Chrysotile. Chrysotile asbestos, which is the asbestos of commerce, was discovered in the province of Quebec, Canada, in 1877, where, shortly after, mining operations were commenced. The properties developed at that time are still in full operation.

Canadian chrysotile asbestos is a fibrous form of serpentine. It occurs in veins or fissures of the rock and is secured by open cut quarry work. The rock, when blasted out, is carried to the mill where it is crushed and screened until the asbestos fibre is free from all impurities. The longer or selected fibres are hand combed for spinning purposes.

The relative value of any asbestos lies in the quality of its fibre, which must have length, elasticity and tensile strength, as well as heat-resisting qualities. Canadian chrysotile asbestos possesses all of these. Such asbestos can be carded, spun and woven. The shorter fibres can be felted, made into paper, mill board, cements, etc. Chrysotile asbestos is a silicate of magnesia. It will stand approximately a temperature of 3000 degrees Fahrenheit. In 1877, 50 tons of asbestos were mined; in 1917, the Canadian Bureau of Mines reports shipments of 150,000 tons of asbestos crude fibre and sand, valued at over $7,250,000.

Asbestos, being a mineral which is not subject to deterioration due to heat, is essential as a binder in the manufacture of heat insulation materials of all kinds and therefore may be considered the basis of heat insulation.

Robert A. Keasbey Company: Catalogue of Heat and Cold Insulation Material… Published by AsbestosClaims.Law
ACL Doc 21292 · Page 6 of 52 asbestosclaims.law/library/21292/6

85% Magnesia

Nature and Qualities

SINCE its inception, 85% Magnesia has held first place as a heat insulation. Effort after effort has been made by those interested in the insulating industry to construct, devise or invent a product which would supplant 85% Magnesia—but without success.

Investigations, however, have brought out the fact that the millions of microscopic particles of carbonate of magnesia, containing dead air spaces, and irregular in form, are so enmeshed in the process of manufacture that the finished product is less liable to deterioration, due to vibration, than other materials. This accounts for the durability of 85% Magnesia as evidenced by many instances of long life of efficient service. On many occasions 85% Magnesia has been taken from apparatus which has outlived its usefulness and re-applied on the new installation.

85% Magnesia consists of 85% of hydrated carbonate of Magnesia ($4Mg\ CO_3$, $Mg\ (OH)_2$, $5H_2O$), mixed with 15% of long asbestos fibre, the latter acting as a binder in a similar way to the hair in lime plaster. The microscopic air cells in the particles of carbonate of Magnesia are natures own provision for the prevention of heat leakage.

This material is made up in sectional form for covering piping, in blocks and segments for covering boilers, tanks and other surfaces, and cement for filling joints and covering irregular surfaces, such as fittings.

The best practice in the use of 85% Magnesia is set forth in concise form in "*Standard Specification of the Magnesia Association of America*," copies of which will be gladly furnished on request.

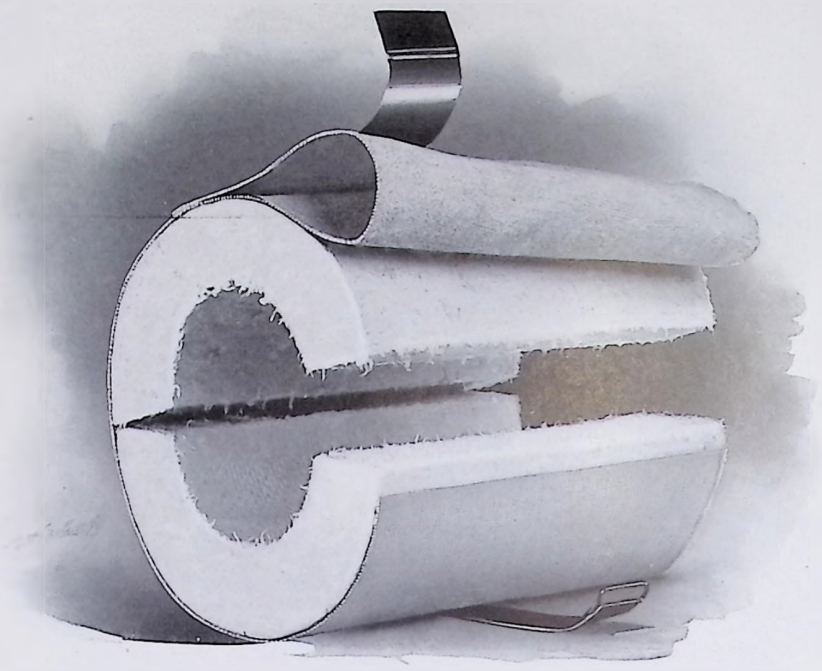
Plant Efficiency

THIS is an age of advancement. The best equipped factories, with the lowest cost of production and the greatest economy of operation, will be the most successful. Regardless of initial expense, a power plant should be so designed that the maintenance of the power equipment, at a minimum cost, will produce the greatest possible results.

The basis of all industry is coal. To save coal is one of the biggest steps toward industrial supremacy. The greatest factor in the conservation of coal is the proper insulation of piping and apparatus against heat losses. As an aid in arriving at the proper basis of preventing losses through radiation, we present, on pages 90 to 94, tabulations which are the result of exhaustive tests.

Our engineering staff will, on request, co-operate with you in the solution of your insulation problems.

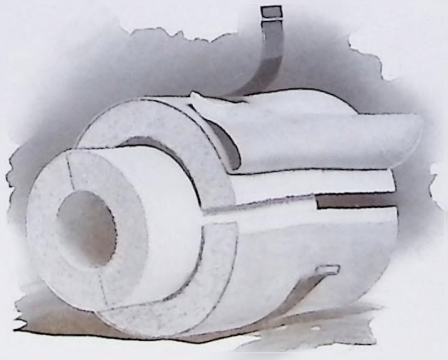
Robert A. Keasbey Company: Catalogue of Heat and Cold Insulation Materials, Asbestos, Flax and Rubber Packing... Published by AsbestosClaims.Law
ACL Doc 21292 · Page 7 of 52 asbestosclaims.law/library/21292/7



85% Magnesia Sectional Pipe Covering

FOR insulating high pressure, superheat and low pressure steam pipes, and other hot pipe surfaces.

MADE in sections 3 feet long, to fit all sizes of wrought-iron pipe from ½ to 10 inches, inclusive, canvas jacketed, and furnished with bands for fastening. For piping 12 inches and above, segmental blocks, described on the next page, are used.



THICKNESSES from Standard (approximately 1 inch thick), to Double 1½ Inch (3 inches thick). For information and data showing the most economical and efficient thickness to use on any given service, see pages 90 to 94.

For price lists, see page 86.

We also contract to apply



85% Magnesia Blocks and Segments

FOR insulating

Large Pipes (above 10 inches)	Fireproofing Walls
Boilers	Non-conducting Ceilings
Stacks	Smokestack Enclosures
Smoke Breechings	Kettles, Etc.

Any other hot surface

STANDARD sizes of blocks—3 x 18 and 6 x 36 inches.

STANDARD sizes of segments—6 x 36 inches.

THICKNESSES of blocks—½ to 4 inches.

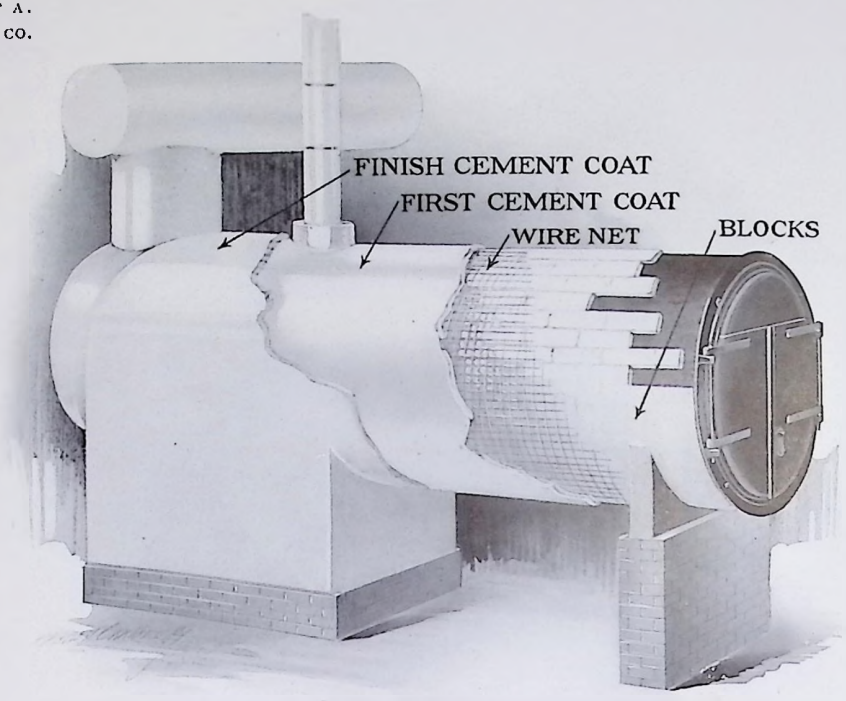
THICKNESSES of segments—Same as sectional coverings.

For information and data showing the most economical and efficient thickness to use on any given service, see pages 90 to 94.

For list prices, see page 87.

We also contract to apply

Robert A. Keasbey Company: Catalogue of Heat and Cold Insulation Materials, Asbestos, Flax and Rubber Packing… Published by AsbestosClaims.Law
ACL Doc 21292 · Page 8 of 52 asbestosclaims.law/library/21292/8



85% Magnesia Plastic Cement

FOR insulating irregular surfaces such as fittings, valves, flanges, and for coating over blocks and filling joints.

Furnished in bags weighing 60 pounds each. Covering capacity is approximately 35 square feet, 1 inch thick, per bag.

List price, $7.50 per bag.

The above cut shows the standard method of insulating steam surfaces. Directly against the metal is placed the block insulation, held in place with wire net, laced tight. This wire net shall be coated with cement applied in at least two coats, the last coat to be what is known as "hard-finishing" cement. The thickness of the blocks and cement is dependent on the temperatures encountered. Where the apparatus to be insulated carries hot gases, as in smoke breechings, the insulating blocks should be applied over an air space between metal and insulation.

We also contract to apply

85% Magnesia Locomotive Lagging

FOR insulating the steam, fire and dome surfaces of locomotives.

Standard sizes of lagging—6 x 36 and 3 x 18 inches, also cut to special diameters, lengths and widths to conform perfectly to the surface for which intended.

Thicknesses—½ to 4 inches.

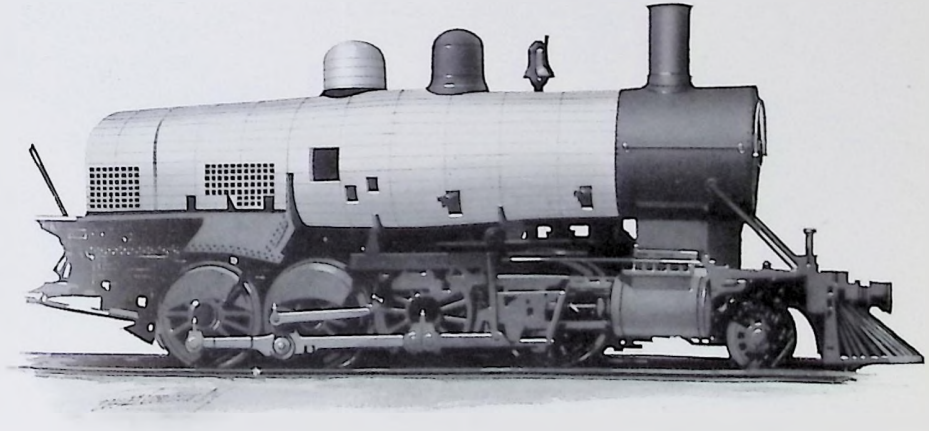
Estimates submitted and orders filled from blue prints.

List prices for standard lagging, see page 87.

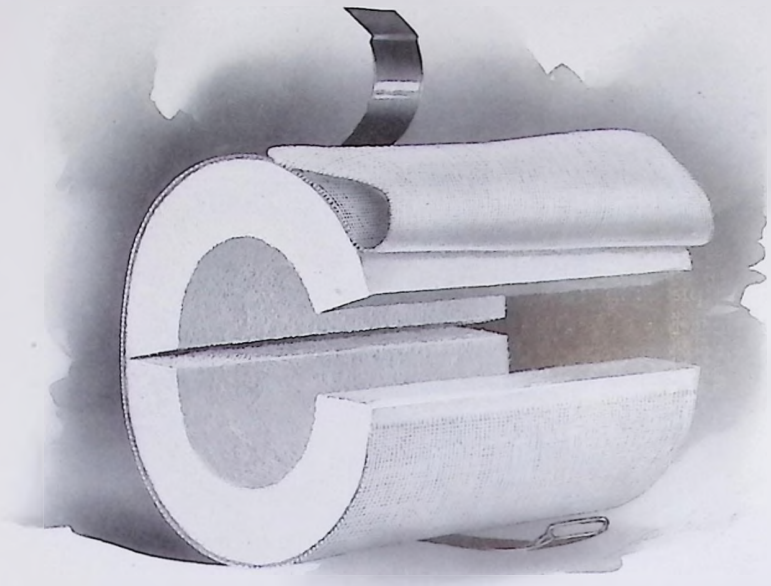
Prices for other than standard blocks on application.

We also contract to apply

85% Magnesia protects the locomotives of practically every leading American railroad. This provides steam assurance even in zero weather



Robert A. Keasbey Company: Catalogue of Heat and Cold Insulation Materials, Asbestos, Flax and Rubber Packing…
Published by AsbestosClaims.Law
ACL Doc 21292 · Page 9 of 52
asbestosclaims.law/library/21292/9



Asbestos Moulded Sectional Covering

FOR high or low pressure service. Recommended for low pressure steam, hot water heating, and plumbing piping.

It is of solid construction composed of asbestos fibre and other fireproof non-conducting materials, which, combined, form a porous compound containing an infinite number of minute dead air cells, which are the basis of all heat insulation.

This material is of light, fibrous and strong construction and when applied gives a neat and uniform appearance.

Made in sections 3 feet long to fit all sizes of wrought-iron pipe from ½ to 10 inches, inclusive, canvas jacketed and furnished with bands for fastening.

Thickness—Same as Standard thick 85% Magnesia.

Fittings—Asbestos cement is used on all ells, tees, valves, fittings and joints.

List prices, see page 87.

We also contract to apply

Asbestos Moulded Blocks

FOR insulating large pipes (above 10 inches), boilers, stacks, smoke breechings, non-conducting ceilings, fireproofing walls, smoke-stack enclosures, kettles, and any hot surface.

A solid non-conducting insulation in block form, composed of asbestos fibre and other non-conducting materials, which, combined, form a porous compound containing an infinite number of minute dead air cells, which are the basis of all heat insulation.

This material is of light, fibrous and strong construction and when applied gives a neat and uniform appearance.

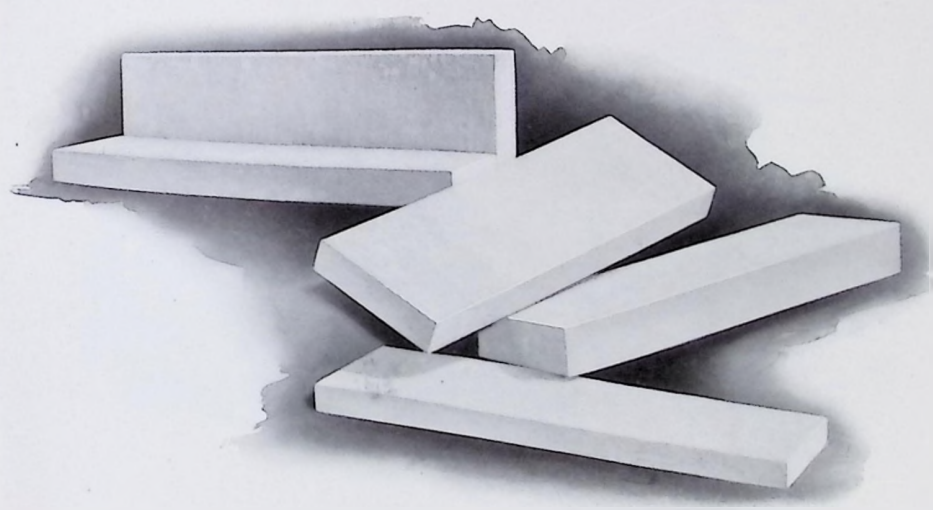
Standard sizes—6 x 18 and 3 x 18 inches.

Thicknesses—1, 1½ and 2 inches.

For data showing method of application, see cut and specification on page 12.

List prices, see page 87.

We also contract to apply



Robert A. Keasbey Company: Catalogue of Heat and Cold Insulation Materials, Asbestos, Flax and Rubber Packin… Published by AsbestosClaims.Law
ACL Doc 21292 · Page 10 of 52 asbestosclaims.law/library/21292/10

Asbestos Insulating Cements

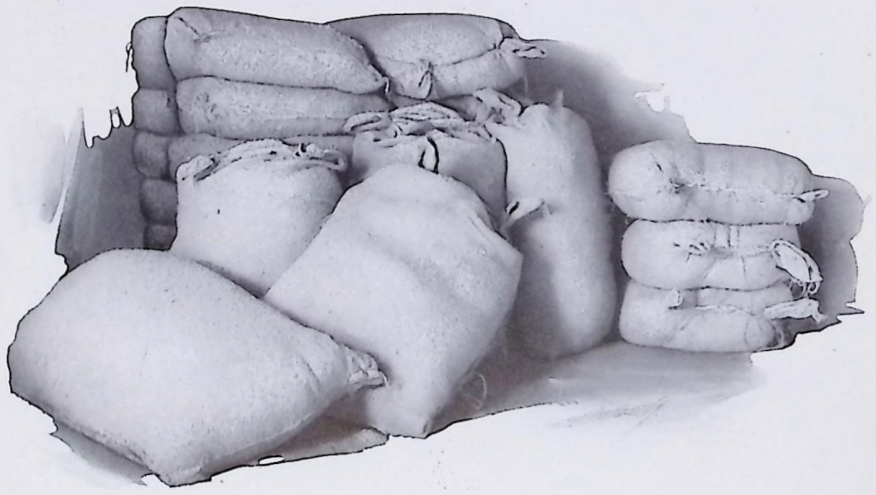
ASBESTOS CEMENT is composed of asbestos fibre and adhesive fireproof materials of high insulating value. It is applied in plastic form, making, when dry, an efficient insulation.

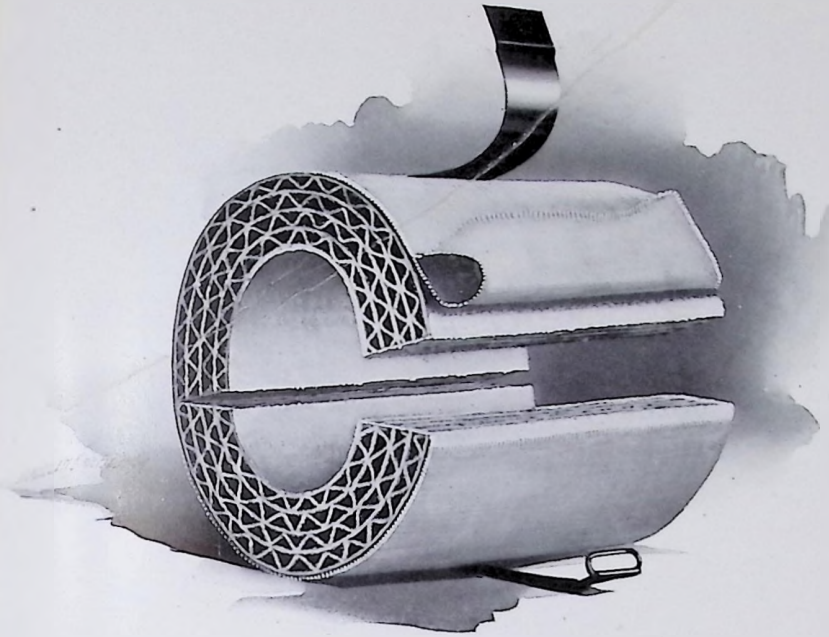
For covering fittings, irregular surfaces, over blocks or sheet form of insulation, sealing joints, and providing a smooth finished surface, to which canvas may be applied, if desired.

Rex Cement—This cement is essentially a "first-coat" cement, combining high insulating value with ease of application. It will, however, finish off reasonably hard and smooth. Is packed in 100-pound sacks, of which the covering capacity is approximately 20 square feet 1 inch thick.

No. 100 Asbestos Hard-finishing Cement—Recommended as a final coating where an especially hard, neat and smooth finish is desired. Packed in bags of 100 pounds each. When used as a finishing coat, this cement will cover 100 square feet per bag.

Net prices per bag quoted on request





Asbestos Air Cell Sectional Pipe Covering

FOR low pressure and exhaust steam, hot water heating and plumbing piping.

Asbestos Air Cell Pipe Covering is made of successive layers of corrugated asbestos paper forming a series of air spaces the entire length of the section. The layers of corrugated paper are firmly cemented together during the process of manufacture, and the finished product forms a strong and durable covering of high insulating efficiency.

Asbestos Air Cell Pipe Coverings are furnished in 3-foot sections cut in halves lengthwise to insure easy application to the pipes, with a canvas jacket, and furnished with brass lacquered bands for fastening.

These coverings are regularly manufactured in three standard thicknesses of ½, ¾ and 1 inch, which are ordinarily known as 2-ply, 3-ply and 4-ply air cell coverings, respectively. Air cell coverings are also furnished in greater thicknesses made up of increased layers of corrugated asbestos paper. These special thicknesses will be manufactured on order.

Fittings—Asbestos cement is used for covering ells, tees, valves and other fittings or joints, finished with a light canvas jacket.

For list prices, see page 87.

We also contract to apply

Robert A. Keasbey Company: Catalogue of Heat and Cold Insulation Materials, Asbestos, Flax and Rubber Packin… Published by AsbestosClaims.Law
ACL Doc 21292 · Page 11 of 52 asbestosclaims.law/library/21292/11

Asbestos Air Cell Board

Is a very efficient retarder of heat and is extensively used for insulating hot and cold air ducts, heating stacks, fireproofing buildings, dry kilns, drying ovens, drying rooms and large cylindrical surfaces.

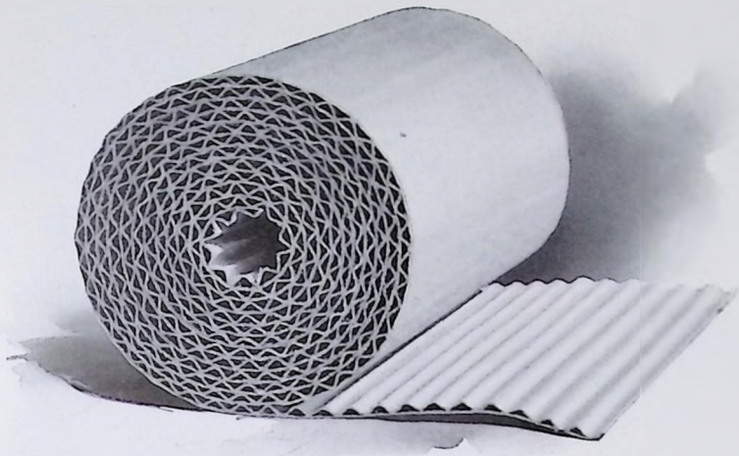
Asbestos Air Cell Board is made of successive layers of corrugated asbestos air cell paper. In building up asbestos board to the thickness desired, the corrugations of each layer run at right angles to those of the next layer. This produces an air cell board which has equal strength in both width and length.

Asbestos Air Cell Board is regularly furnished in sheets 36 inches square and thicknesses from 2-ply up to 32-ply, each ply being approximately ¼ inch thick. Greater thicknesses can be manufactured on order.

For list prices, see page 87.

We also contract to apply





Asbestos Corrugated Paper

Asbestos corrugated paper is a very light and flexible form of insulation, especially adapted for wrapping around curved surfaces. It is recommended for wrapping hot air furnace pipes, and hot air ducts in blower systems used in heating and ventilating large buildings. It can be used wherever a light and flexible, yet efficient, insulating material is required.

Asbestos Corrugated Paper is made of one layer of asbestos paper corrugated, firmly cemented by means of a fireproof binder to a backing sheet of asbestos paper. These corrugations form air spaces which are the basis of all heat insulations.

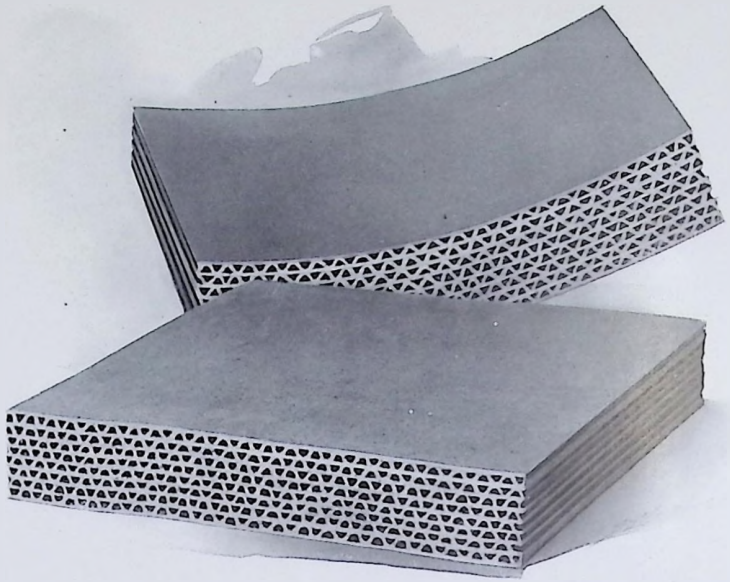


Asbestos Corrugated Paper is furnished in rolls 36 inches wide, containing 250 square feet. Total thickness of the sheet is approximately ¼ inch.

Net prices per square foot furnished on request.

We also contract to apply

Robert A. Keasbey Company: Catalogue of Heat and Cold Insulation Materials, Asbestos, Flax and Rubber Packin…
ACL Doc 21292 · Page 12 of 52
Published by AsbestosClaims.Law
asbestosclaims.law/library/21292/12



Vitrified Asbestos Air Cell Board

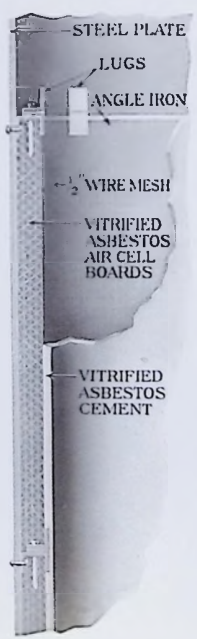
For lining smokestacks and breechings as a preservative and insulation. This material acts as a heat retardent and serves as a protection of the metal against corrosion due to heat and acid fumes. It will withstand, without deterioration, temperatures up to 1000 degrees Fahrenheit.

Vitrified Air Cell Board is made up of successive layers of corrugated asbestos paper subjected to a vitrifying process to render them resistant to moisture and high temperatures.

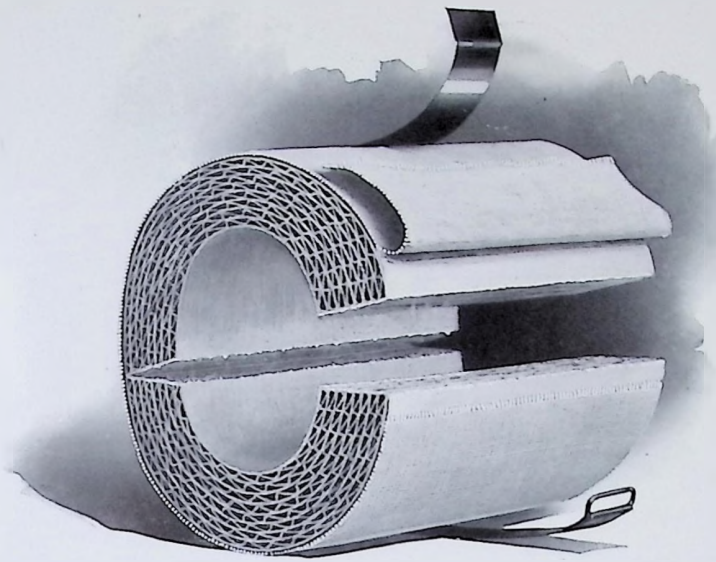
This material is furnished in flat sheets 36 inches square and in curved sheets of same size but curved to any radius. Thicknesses are from 2 ply (approximately ½ inch), up to 16 ply (approximately 4 inches), each ply being approximately ¼ inch thick.

The accompanying cut will show the method employed in erecting this material as a stack lining. Special hooks and angle irons are required, and all joints should be pointed up with vitrified asbestos cement. The whole surface should also be coated with this cement.

For list prices, see page 87.



We also contract to apply



Carocel Sectional Pipe Covering

For high and low pressure steam, hot water heating and plumbing piping. It is highly recommended for concealed riser and radiator pipe connections where a greater degree of permanency is desired over ordinary air cell coverings. Being made of pure asbestos paper throughout, which will not char or burn from contact with heated surfaces, this covering is especially designed to secure the highest possible degree of efficiency and strength. It is far stronger and more durable than other similar coverings.

Carocel Sectional Pipe Covering is made of successive layers of corrugated asbestos paper forming a series of air spaces or chambers the entire length of the section. This covering is made in the identical manner, and on the same principle as air cell covering, but the corrugations forming the air chambers are approximately ⅛ inch, thus forming double the number of air chambers per inch that would be contained in the ordinary form of air cell covering.

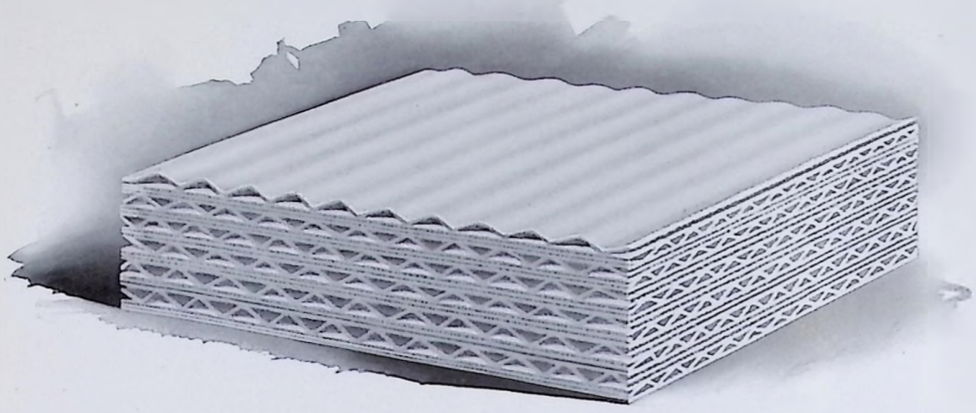
Carocel Sectional Coverings are furnished in 3-foot sections, cut in halves lengthwise to insure easy application to the pipes, canvas jacketed, and furnished with brass lacquered bands for fastening.

These coverings are regularly made in three standard thicknesses ½, ¾ and 1 inch, containing, respectively, 4, 6 and 8 plies of corrugated asbestos paper. Greater thicknesses can be furnished on order.

For list prices, see page 87.

We also contract to apply

Robert A. Keasbey Company: Catalogue of Heat and Cold Insulation Materials, Asbestos, Flax and Rubber Packin…
Published by AsbestosClaims.Law
ACL Doc 21292 · Page 13 of 52
asbestosclaims.law/library/21292/13



Carocel Board

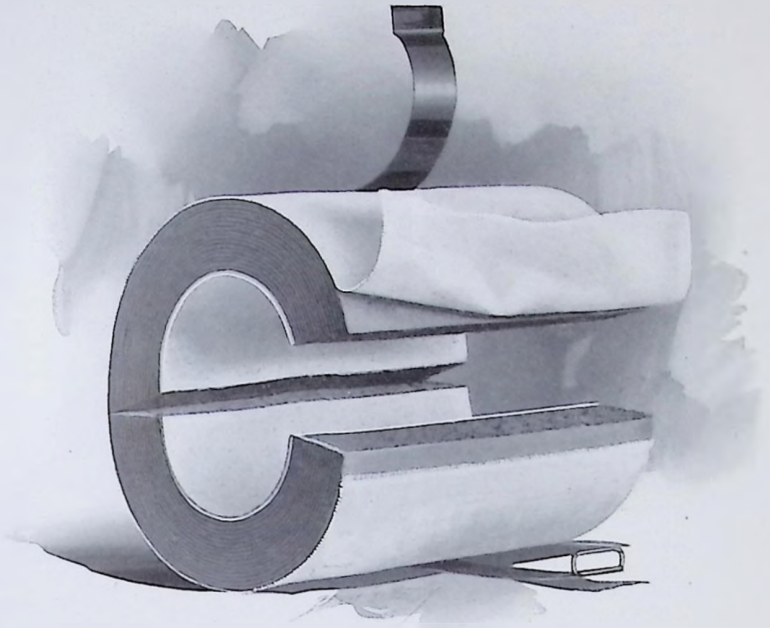
CAROCEL BOARD is practically the most efficient non-conducting board made of pure asbestos fibre. It is recommended for fireproofing buildings, ceilings, walls, partitions and similar purposes. It can be used to advantage for making false ceilings over engine rooms to prevent the undue heating of the floor directly above. For all purposes where a very highly efficient fireproof asbestos board is desired, Carocel should be used. It is especially valuable for lining dry kilns and drying ovens of all descriptions, and for hot and cold air ducts, and heating stacks.

Carocel Board is made of successive layers of corrugated air cell asbestos paper, the depth of the corrugations being approximately ⅛ inch. In building up Carocel Board to the thickness desired, the corrugations of each layer are run at right angles to those of the next layer. This produces a board which has equal strength in both width and length.

Carocel Board is regularly furnished in sheets 36 inches square, and in thicknesses from ¼ to 4 inches by steps of ⅛ inch. Carocel blocks, 3 or 6 inches wide by 36 inches long, are also standard sizes which can be furnished without additional cost. Sizes other than mentioned can be furnished, but in such cases it is the general practice to furnish such odd sizes with corrugations all running in the same direction instead of crossed as in the standard sheet.

For list prices, see page 87.

We also contract to apply



Wool Felt Sectional Covering—Asbestos Lined

FOR insulating low pressure steam and hot water pipes, especially adapted for plumbing piping.

This covering is made of laminations of the best grade of wool felt paper with a lining of asbestos paper—finished with a canvas jacket and provided with brass lacquered bands for fastening.

Is furnished in 3-foot sections and is made in three standard thicknesses, ½, ¾ and 1 inch, and in greater thicknesses on order.

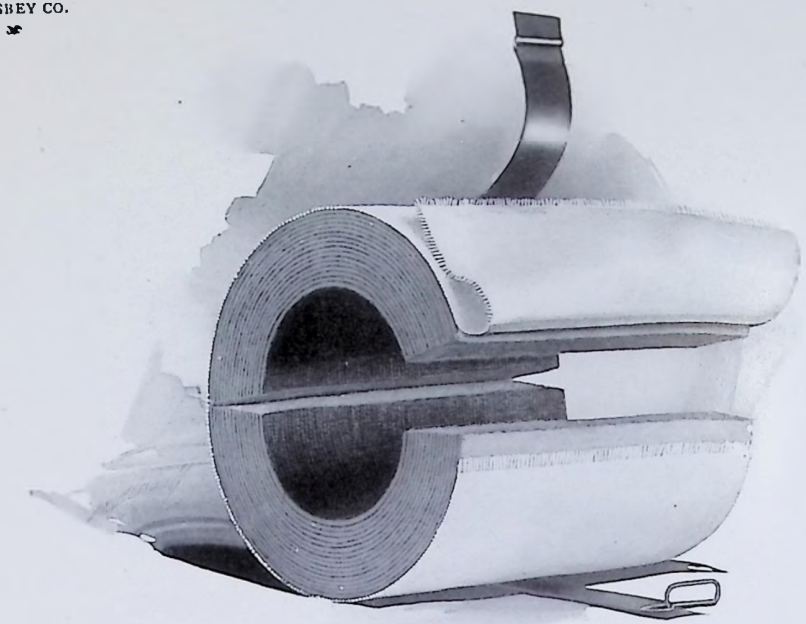
This covering is also furnished in two shells, one fitting directly over the other, the inner shell being lined with asbestos paper, the outer shell being canvas jacketed and banded. By using this double thickness, breaking all joints and seams when applying, greater efficiency is obtained.

Fittings—Asbestos cement is used for covering ells, tees, valves, and other fittings or joints, finishing same with a canvas jacket.

For list prices, see page 87.

We also contract to apply

Robert A. Keasbey Company: Catalogue of Heat and Cold Insulation Materials, Asbestos, Flax and Rubber Packin… Published by AsbestosClaims.Law
ACL Doc 21292 · Page 14 of 52 asbestosclaims.law/library/21292/14



Wool Felt Sectional Covering—Tar Lined

FOR insulating cold water pipes against condensation, thus preventing damage to machinery, merchandise, stock, decorations in ceilings and walls, etc., and reducing dampness in confined places.

This covering is made of laminations of the best grade of wool felt paper with a lining of tar paper, finished with a canvas jacket and provided with bands for fastening.

Is furnished in 3-foot sections and is made in three standard thicknesses, ½, ¾, and 1 inch, and in greater thicknesses on order.

This covering is also furnished in two shells, one fitting directly over the other, the inner shell being lined with tar paper and the outer shell being canvas jacketed and banded.

Fittings should be covered with a layer of hair felt securely fastened in place and coated with asbestos cement, canvas jacketed and banded.

For list prices, see page 87.

We also contract to apply

Anti-Sweat Sectional Covering

FOR insulating cold water piping against condensation where more severe conditions are met. Is also extensively used for cool drinking water systems.

This covering consists of alternate laminations of the best grade of wool felt paper and tar paper, lined with a heavy tar paper, finished with a canvas jacket and provided with brass lacquered bands for fastening.

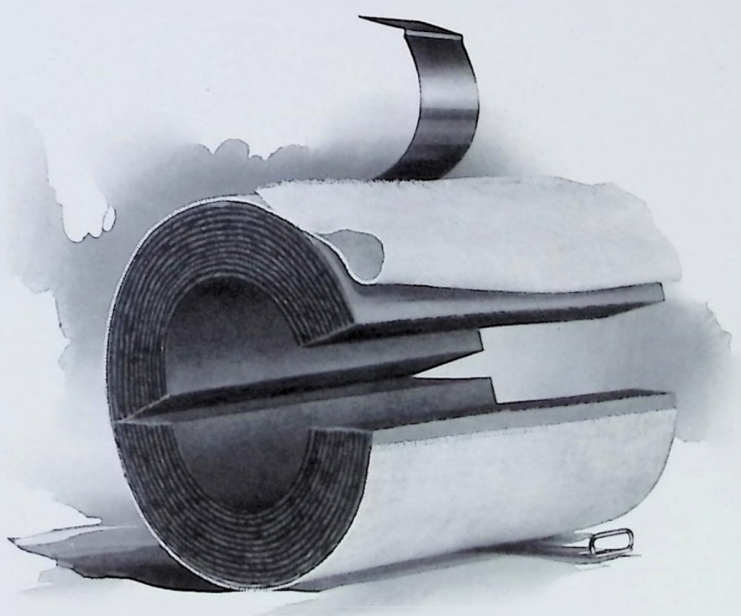
Is furnished in 3-foot sections, and is made in three standard thicknesses, ½, ¾ and 1 inch, and in greater thicknesses on order.

This covering is also furnished in two shells, one fitting directly over the other, the inner shell being lined with tar paper, and the outer shell being canvas jacketed and banded.

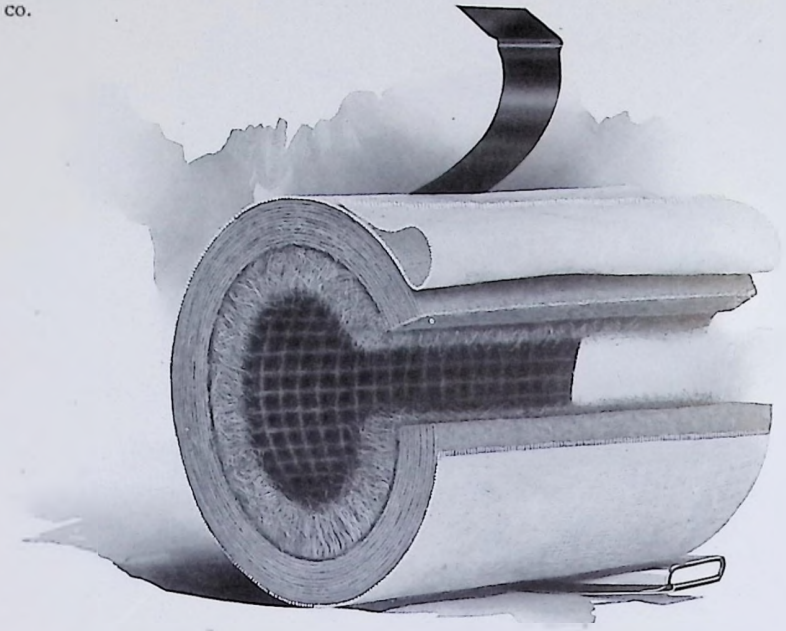
Fittings should be covered with a layer of hair felt securely fastened in place and coated with asbestos cement, canvas jacketed.

For list prices, see page 87.

We also contract to apply



Robert A. Keasbey Company: Catalogue of Heat and Cold Insulation Materials, Asbestos, Flax and Rubber Packin… Published by AsbestosClaims.Law
ACL Doc 21292 · Page 15 of 52 asbestosclaims.law/library/21292/15



Protecto Sectional Covering

FOR the protection of cold water pipes, to reduce the possibility of the freezing of the water and the bursting of the lines. Where exposed to moisture or the elements, it should be thoroughly coated with some good asphalt paint.

Protecto Covering consists of a shell made of laminations of wool felt paper with an inner lining of hair felt, and furnished with a canvas jacket and provided with brass lacquered bands for fastening.

Protecto Covering is furnished in 3-foot sections, cut lengthwise, so as to be readily applied to the pipes. Ordinarily it is furnished with a wool felt shell ½ inch thick, and a hair felt core the same thickness, making a total thickness of 1 inch. The following special types are manufactured on order:

Type A	½-inch hair felt core with ¾-inch wool felt shell
Type B	½-inch hair felt core with 1-inch wool felt shell
Type C	¾-inch hair felt core with ¾-inch wool felt shell
Type D	1-inch hair felt core with ¾-inch wool felt shell
Type E	1-inch hair felt core with 1-inch wool felt shell

Fittings should be covered with a layer of hair felt securely fastened in place and coated with asbestos cement, canvas jacketed.

For list prices, see page 87.

We also contract to apply



Rakco Standard Train Pipe Covering

FOR steam train pipe lines, or wherever steam or hot water lines are exposed and subject to moisture, jarring and hard usage.

Rakco Standard Train Pipe Covering is made of successive layers of pure asbestos paper firmly bound together with an adhesive compound. It is finished with a heavy layer of waterproof felt with canvas jacket attached.

Is furnished in 3-foot sections, cut lengthwise into two pieces for easy application. The standard thickness is ⅝ inch, but it can be furnished in other thicknesses on order. Brass lacquered bands, ¾ inch wide, are furnished with the covering. Material has approximately 16 laminations per inch of thickness.

Fittings—Asbestos cement is used for covering ells, tees, valves and other fittings or joints. Over the cement, tar paper and canvas should be fastened.

For list prices, see page 87.

We also contract to apply

Robert A. Keasbey Company: Catalogue of Heat and Cold Insulation Materials, Asbestos, Flax and Rubber Packin… Published by AsbestosClaims.Law
ACL Doc 21292 · Page 16 of 52 asbestosclaims.law/library/21292/16

Combino Asbestos Train Pipe Covering

For steam train pipe lines, or wherever steam or hot water lines are exposed and subject to moisture, jarring and hard usage.

Combino Train Pipe Covering is composed of alternate layers of plain and corrugated asbestos paper firmly bound together, lined with a heavy sheet of asbestos and finished with a combination waterproof and canvas jacket. The corrugations in the asbestos paper are practically ⅛ inch deep. The combination jacket consists of an inner surface composed of heavy waterproof saturated felt, an outer surface of canvas.

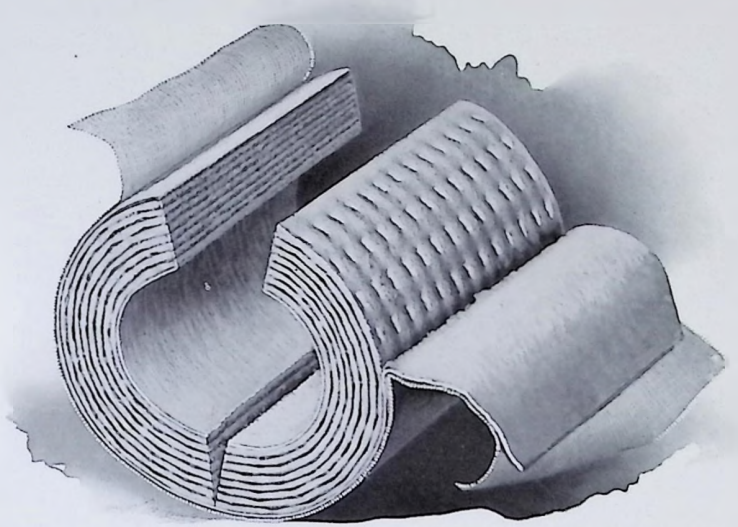
Is regularly furnished in sections 3 feet long, cut in halves lengthwise and made to fit all standard pipe sizes. The standard thickness of this covering is ⅝ inch over all, but greater thicknesses can be furnished if desired.

Fittings—Absestos cement is used for covering ells, tees, valves and other fittings or joints. Over the cement, tar paper and canvas should be securely fastened.

For list prices, see page 87.

We also contract to apply





Pyrex Asbestos Sectional Covering

For high and low-pressure service, heating and plumbing piping. Especially adapted to piping subjected to considerable vibration and rough usage.

Pyrex Asbestos Covering is made of alternate laminations of flat asbestos paper and indented asbestos paper, bound together with silicate of soda to make a substantial piece of pipe covering. The successive layers serve to seal or close the air spaces made by the individual indentations, thereby forming a large number of entrapped air cells which are the basis of any insulating material, and make this covering an efficient fireproof non-conductor of heat.

Is furnished in any thickness from ½ inch up to 3 inches. It is made in sections 3 feet long, cut in halves lengthwise, finished with canvas and provided with brass lacquered bands for fastening. It can also be furnished in sections split on one side only and wire-stitched along the edges of the cut so the covering can be opened up and applied to the pipe like a blanket. The maximum thickness of this wire-stitched Pyrex is 1½ inches.

Fittings—Asbestos cement is used for covering ells, tees, valves and other fittings or joints over which should be applied a canvas jacket.

For list prices, see page 87.

We also contract to apply

Robert A. Keasbey Company: Catalogue of Heat and Cold Insulation Materials, Asbestos, Flax and Rubber Packin…
Published by AsbestosClaims.Law
ACL Doc 21292 · Page 17 of 52
asbestosclaims.law/library/21292/17

Asbestos Paper and Roll Board

ASBESTOS PAPER is an excellent fireproof sheathing material for use in floors, partitions and walls, and in all kinds of building construction. The 8, 10 and 12-pound papers are used for wrapping hot air furnace pipes; the 4 and 6-pound papers in connection with the insulation of electrical devices; while the heavier papers and Asbestos Roll Board are especially suitable where an extra heavy fireproof sheathing is required for lining steel furniture, for use in floors, partitions and walls of buildings, for lining gas stoves, ovens and ranges. It is acid and vermin proof and will not decay.

Asbestos Paper and Asbestos Roll Board are composed of pure Canadian asbestos fibre, which is beaten to a pulpy mass, free from hard, rocky particles, and thoroughly mixed with a small quantity of very strong binding material. The combined pulp and binder is then formed into endless sheets of different thicknesses, which are dried out, calendered to a smooth finish and put up in rolls ready for shipment. The sheet thus formed by the long fibres interlacing and being bound together results in an absolutely fireproof sheet of wonderful strength and great flexibility.

Asbestos Paper is furnished in one grade only, and in weights and thicknesses as per table:

Weight per 100 Square Feet, Pounds	Approximate Thickness, Inches	Square Feet per 100 Pounds
4	.00727	2500
6	.0109	1667
8	.0145	1250
10	.0181	1000
12	.0218	833
14	.0254	714
16	1/32	625
32	1/16	312

Asbestos Roll Board is made in two thicknesses and weights, as per accompanying table:

Approximate Thickness, Inches	Approximate weight per 100 Square Feet Pounds	Approximate Square Feet per 100 Pounds
3/32	50	200
1/8	65	154

Asbestos Papers and Roll Boards are furnished in approximately 100-pound rolls, and are 36 inches wide. They can be furnished in 50-pound rolls when so ordered, and can be cut to special widths, for which an extra charge will be made.

All rolls are shipped wrapped and capped to prevent damage.

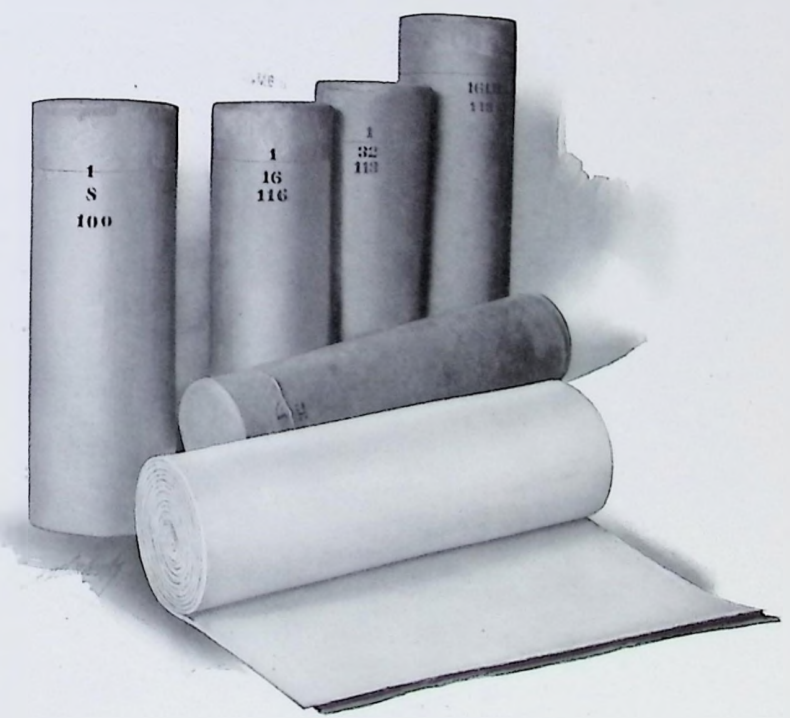
Weight of paper or roll board and number of pounds contained in roll are stenciled on the wrapper.

Net prices per pound furnished on application.

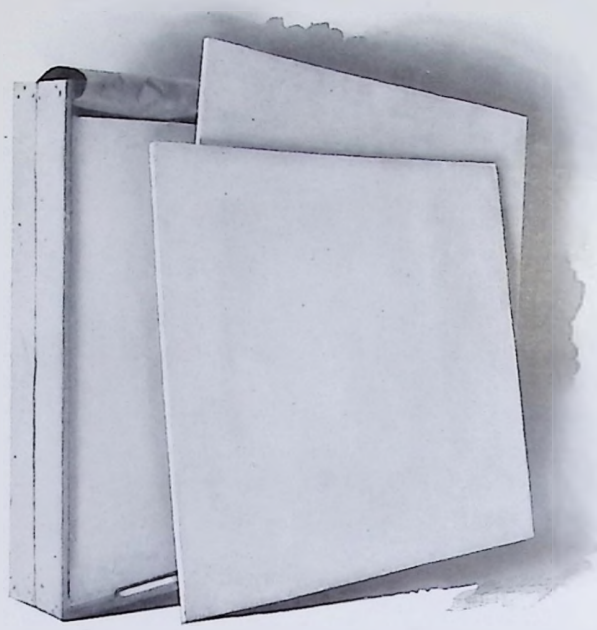
Asbestos Paper Ribbon

We furnish Asbestos Paper Ribbon for electrical purposes, in widths from 3/8 inch up. This ribbon is made of exceptionally thin, pure asbestos paper, and is used extensively in electrical work for insulating magnet wire, etc.

Prices on Application



Robert A. Keasbey Company: Catalogue of Heat and Cold Insulation Materials, Asbestos, Flax and Rubber Packin…
Published by AsbestosClaims.Law
ACL Doc 21292 · Page 18 of 52
asbestosclaims.law/library/21292/18



Asbestos Mill Board

ASBESTOS SHEET MILL BOARD is for use in fire screens and partitions, for protecting ceilings and walls, lining ranges, stoves and grates and for a great number of similar purposes.

It is also extensively used in the construction and lining of all kinds of heating and electrical devices.

The standard size is 42 x 48 inches, but 40 x 40 inches is a popular size in constant use. Size 36 x 36 inches (in thicknesses less than ⅛ inch) can be also furnished without increased cost, but is not carried in stock. Other special sizes smaller than 42 x 48 inches can be furnished on order.

Asbestos Mill Board is manufactured in three grades: medium, hard and soft. The weights given in the accompanying table are based on the medium grade, which is the grade most generally used and carried in stock. A special grade of Asbestos Mill Board made from long fibre asbestos is also furnished on order to meet special requirements.

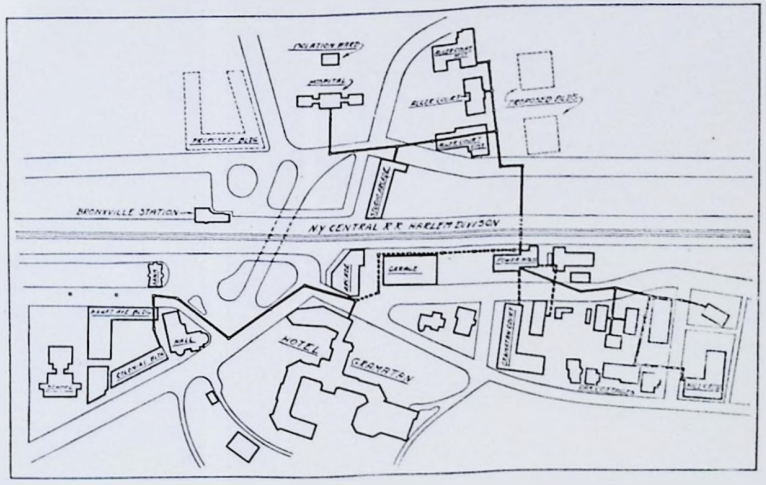
Approximate weights of medium grade Mill Board:

Thickness in Inches	1/32	3/64	1/16	3/32	1/8	3/16	1/4	3/8	1/2
Sheets 40 x 40 Inches, Pounds	1¾	2⅝	3½	5¼	7	10½	14	21	28
Sheets 42 x 48 Inches, Pounds	2¼	3⅜	4½	6¾	9	13½	18	27	36

Material is supplied packed in crates weighing 450 to 500 pounds.

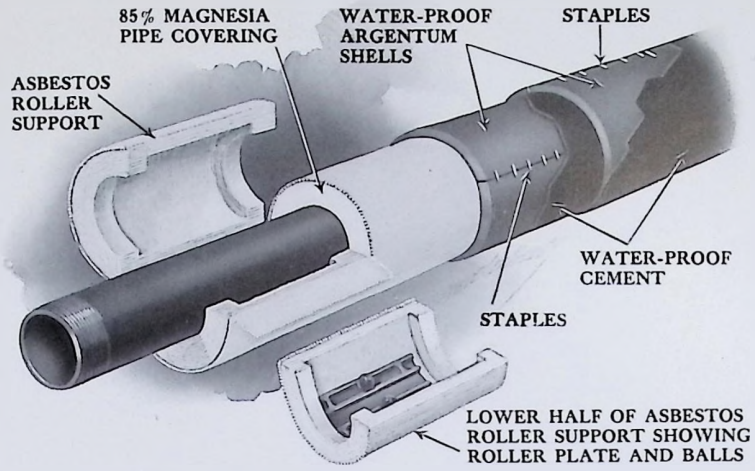
Prices on Application

Argentum Insulation
for
Underground Steam and Hot Water Piping



Lawrence Park, Bronxville, N. Y. Layout of Buildings
Argentum System shown thus ——

Robert A. Keasbey Company: Catalogue of Heat and Cold Insulation Materials, Asbestos, Flax and Rubber Packin…
Published by AsbestosClaims.Law
ACL Doc 21292 · Page 19 of 52
asbestosclaims.law/library/21292/19



Argentum Insulation for Underground Piping

FOR insulating all underground steam or hot water pipes in connection with central heating plants, whether commercial or in connection with large institutions comprising several buildings, such as schools, universities, hospitals, asylums, etc.

The advantages of Argentum over the other systems are simplicity of construction, lower cost, narrower trenches, less labor, reduced freight charges, and absence of all complicated details which so often render the problem of underground insulation both difficult and unsatisfactory.

The inner insulating covering consists of 85% Magnesia covering (Standard thick) which is furnished in its regular sectional form for pipe sizes up to and including 10 inches. Blocks are furnished for pipes 12 inches and up. The asbestos roller support consists of a section of pipe covering made of a hard asbestos composition in sectional form, 8 inches long, for all pipe sizes, and with ½ inch deep air space next the pipe. A grooved iron plate and two ⅜ inch diameter steel ball bearings are furnished for each asbestos roller support. The iron plate and ball bearings fit within the ½-inch air space mentioned. The asbestos roller support is finished with canvas jacket and is made to the same outside diameter as the Magnesia covering with which it is furnished. An asbestos roller support with iron plate and steel ball bearings is furnished with every five sections of covering.

The outer protection is formed of waterproof Argentum shells furnished in double layer for application by the broken joint method. These shells are 3 feet long and ¼ inch thick each for pipe sizes up to and including 6 inches. For larger pipe sizes the shells are split on one side only to permit springing over the pipe and covering. Sufficient copper-covered staples, ¾ by ¾ inches, are furnished for stapling the seams of the Argentum shells at a distance of 2 inches apart. Sufficient waterproof Universal cement is furnished to coat each layer of shells thoroughly.

Specifications for Installation of Argentum System for Insulation of Underground Piping

TRENCH—The pipe trench shall be graded to levels given by engineer with necessary allowances for drainage bed and pipe covering.

DRAINAGE—A drainage bed of not less than 6-inch depth of broken stone shall be provided in the trench. At manholes and low points of the trench install tile drains to sewers or other points below level of trench. Where severe drainage conditions are to be met, the drain tile should be run under the entire length of the installation.

PIPE—The pipe shall be laid resting upon blocks or removable supports to a height of approximately 1 foot above rock drain, to permit pipe covering being applied.

PIPE COVERING—Apply standard thick 85% Magnesia sectional covering in the usual manner, butting sections closely together and with all seams horizontal. At the end of every five sections (15 feet) of Magnesia covering, apply an asbestos roller support with roller plate and balls properly inserted. Over the Magnesia covering and asbestos roller supports, apply first a course of Argentum shells so that no seams or joints coincide with those of the Magnesia covering. Draw seams tight with a rope in the form of a tourniquet, and staple together at intervals of 2 inches. Also staple abutting sections together. Apply thoroughly a coat of Universal cement to the outer surface of first course of Argentum shells. Apply the second course of Argentum shells over the first course in the same manner as previously described, breaking all seams and joints with the first course, and finish with a heavy coat of Universal

Robert A. Keasbey Company: Catalogue of Heat and Cold Insulation Materials, Asbestos, Flax and Rubber Packin… Published by AsbestosClaims.Law
ACL Doc 21292 · Page 20 of 52 asbestosclaims.law/library/21292/20

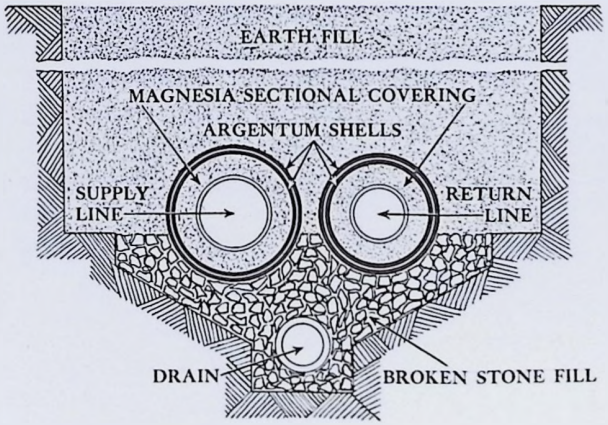
cement. (For moist or marshy ground, a final coat of coal tar pitch is recommended.)

Fittings—All ells, tees, crosses and pipe bends shall be enclosed in concrete pits or manholes and shall be anchor points. Cover such fittings with 85% Magnesia cement and cast concrete anchor blocks in the same manner as described in following paragraph. All expansion joints and valves (and other fittings it may be desirable to include) shall be contained in manholes of dimensions and material as specified by the engineer. The Argentum shells shall pass through the wall of such manholes and terminate not less than 3 inches from the inside of the wall.

Anchors—At intervals specified by the engineer, securely attach anchors to the pipe. The pipe covering shall fit as closely as possible to the anchors, and the space between sections shall be filled with 85% Magnesia cement. Over the anchor and extending at least 1 foot over the pipe covering on each side, cast a solid block of concrete of dimensions specified by the engineers.

Note—Where it is necessary to apply insulating covering to two or more pipes in the same trench, each pipe is to be covered as indicated in the foregoing specifications.

For pipes over 6-inch normal size, place large rock slabs, concrete piers, or hollow tile blocks, under those parts of the pipe covering containing the expansion rollers.



The Protection of Insulation for Outdoor Steam and Hot Water Lines

It is obvious that where steam or hot water lines are run out of doors, greater thicknesses of insulation will be required than those used indoors. This increased thickness depends on the severity of the conditions. We are in position to render practical advice in regard to this. For the protection of such lines we recommend any of the following methods of weatherproofing:

(*a*) Over the selected insulating material apply a layer of waterproof paper and sew over this a jacket of heavy cotton duck, taking care that all seams are on the under side of the pipe. This canvas jacket should be painted with one coat of glue sizing and two coats of lead and oil or asphaltum paint.

(*b*) Over the selected insulating material apply heavy tar papers or the more substantial built-up roofings, so as to lap all joints to shed water. Copper-coated wire should be used for fastening. The surface should be painted with a good asphaltum paint.

(*c*) Argentum Shell and Collars. This material consists of successive layers of woolen felt, thoroughly saturated with a chemical which makes the covering very tough, durable and waterproof. These shells are especially designed for application over other insulating materials, as a waterproof armor, where piping runs outdoors or in mines, etc.

Argentum Shells are furnished in sections 3 feet long, split in halves, for all pipe sizes up to 4 inches diameter. For pipe sizes over 4 inches diameter, shells are regularly furnished split on one side only. Argentum shells are furnished ¼, ½ and ¾ inch thick, and with each shell is furnished a collar (6 inches wide by ½ inch thick) and staples for fastening, and cement and paint for sealing.

(*d*) Galvanized iron or Toncan metal casings.

(*e*) We have, and will furnish on request, information regarding special forms of out-of-door insulations and weatherproofing.

Robert A. Keasbey Company: Catalogue of Heat and Cold Insulation Materials, Asbestos, Flax and Rubber Packin… Published by AsbestosClaims.Law
ACL Doc 21292 · Page 21 of 52 asbestosclaims.law/library/21292/21

Rakco High Temperature Cement

FOR bonding and coating fire brick and wherever fireproof cements are required in service temperatures up to 3100 degrees Fahrenheit. Used in the construction and repair of annealing furnaces, boiler settings and bridge walls, brick and cement kilns, case hardening and carbonizing furnaces, enamel and forge furnaces, incinerators, ovens, etc.

This cement is a high temperature resisting plastic asbestos compound, containing chemicals which render it permanently adhesive at operating temperatures. After baking, the cement sets hard as rock and will adhere to the surface so as to form a solid, highly refractory wall which will increase the life of the brickwork.

Is shipped ready for use. The surfaces to which applied should be clean and moistened immediately prior to application of the cement. When used to set brick, 400 pounds are required per 100 9-inch brick.

Packed in 25, 50 and 100-pound kits, and barrels of 500 to 600 pounds.

Prices on Application

Asbestos Retort Cement

FOR use in gas and chemical plants for repairing broken clay and iron retorts and pipes, as well as for cementing fittings and sealing joints. Is composed of asbestos fibre, fireproof earths and cementing compounds. Will adhere readily and under heat will vitrify without shrinking. For temperatures up to 1800 degrees Fahrenheit. Packed ready for use, in barrels containing between 500 and 800 pounds, and between 300 and 400 pounds, also in 100 to 200-pound pails, 50-pound pails and 25-pound cans.



Prices on Application

Asbestos Furnace and Stove Lining Cement

THE most durable and efficient cement for repairing broken joints in stoves, ranges, heaters and furnaces, as well as a desirable stove lining. Is most satisfactorily applied to perfectly clean surfaces. Is composed of asbestos fibre, fireproof earths and cementing compounds. The cement is efficient for temperatures up to 1800 degrees Fahrenheit, sets quickly and vitrifies without shrinking. Packed ready for use in same size packages as Asbestos Retort Cement and also in 5, 2 and 1-pound cans.



Prices on Application

Asbestos Hot Blast Cement

FOR the same purposes as Asbestos Furnace and Stove Lining Cement except that it is packed in dry state. When mixed with water to consistency of putty, is readily applied. Will not deteriorate when exposed to the air when dry as will the "ready to use" cements. Can also be used for repairing broken clay and iron retorts.

Covering capacity of 100 pounds is 20 square feet 1 inch thick.

Furnished in 5 and 10-pound cartons, 100-pound bags and 500-pound barrels.

Prices on Application

Robert A. Keasbey Company: Catalogue of Heat and Cold Insulation Materials, Asbestos, Flax and Rubber Packin…
Published by AsbestosClaims.Law
ACL Doc 21292 · Page 22 of 52
asbestosclaims.law/library/21292/22

Rakco Fire Resisting Cold Water Paints

THIS paint is furnished in dry powder form and is ready for use as a paint when mixed with cold water. It makes a very durable paint coating for any class of building, such as factories, warehouses, docks, stables, airshafts and courtyards, farm buildings, fences, etc.

Five to six pounds of the powder properly mixed with water makes a gallon of good paint and covers from 100 to 400 square feet to the gallon according to the surface. Hence, its cost is less than one-third that of oil paint and for many purposes it is better, as it is a fire retardent.

To prevent peeling always apply to a clean and firm surface.

Furnished in white only, packed in 25, 50 and 100-pound kegs and 350-pound barrels.

Prices on Application

Rakco Export Paste

THIS highly adhesive paste is put up in dry powdered form which only needs to be mixed with either hot or cold water to the proper consistency.

The great advantage of using this paste is that it will keep indefinitely in its dry state, and can readily be mixed at short notice in quantities to meet immediate requirements.

It is far more economical than buying the ordinary wet paste, and obviates paying for 75 per cent water, as well as the waste usually experienced in having wet paste evaporate and become worthless.

It is almost universally used by pipe coverers throughout the country, and also extensively used by professional paper hangers and various lines of trade requiring a thoroughly reliable, adhesive article, which will not sour or soil the most delicate fabric.

Furnished in 5, 10 and 25-pound cotton sacks and 100-pound burlap bags.

Prices on Application

Mineral Wool

MINERAL WOOL is a fibrous mineral used extensively as a heat retardent and sound deadener in walls, floors, partitions, etc. It is absolutely fire and vermin proof, and will not deteriorate in service.

After years of experience with different grades of mineral wool we finally selected our present grade as being the best procurable. It is made from freshly quarried rock, and the complete process of manufacture is such as to produce a material which is a pure rock product, free from sulphides or other compositions which would undergo chemical change or cause a reaction with metals with which it might come in contact in service. These features are not possible with mineral wool made from slag.

Mineral Wool is furnished in bags weighing approximately 50 pounds.

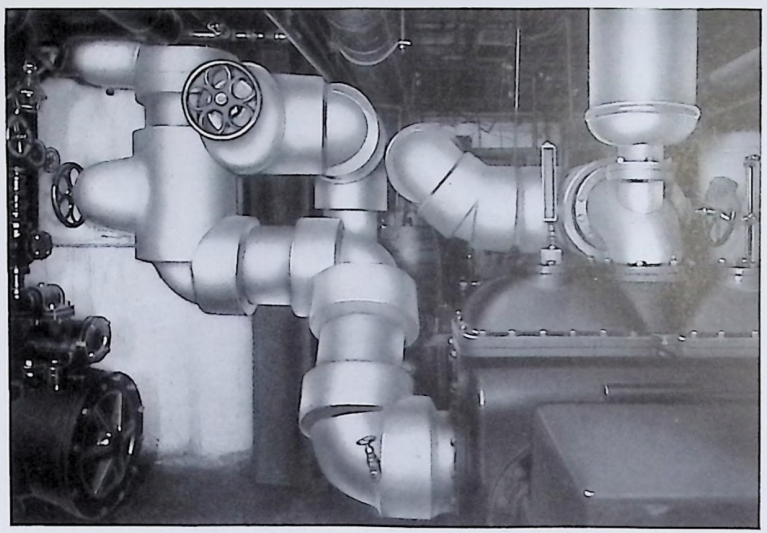
This material, packed under normal pressure, should weigh approximately 15 pounds per cubic foot.

Prices on Application



Robert A. Keasbey Company: Catalogue of Heat and Cold Insulation Materials, Asbestos, Flax and Rubber Packin…
Published by AsbestosClaims.Law
ACL Doc 21292 · Page 23 of 52
asbestosclaims.law/library/21292/23

Armorak Sectional Covering for Brine Ammonia and Ice Water Piping

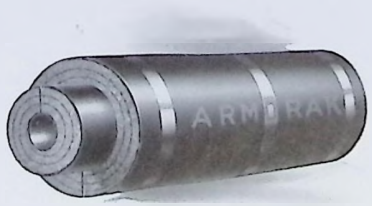


Showing appearance of a completed work at

Manhattan Refrigerating Company

No. 525 West Street

New York City

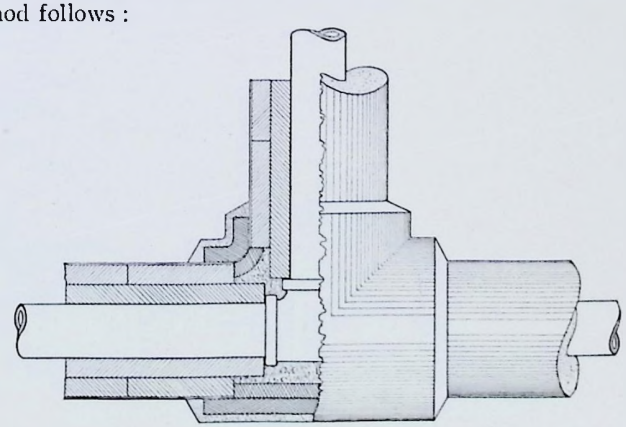


Armorak Sectional Covering—Brine Thickness

Armorak sectional covering for the insulation of brine, ammonia and ice water piping is the result of years of experience and study of this important insulating problem. Its durability and efficiency are superior to that of cork.

These sectional coverings consist of successive layers of ½-inch hair felt, sealed with hot asphalt to tar paper and formed to fit all standard sizes of pipe. The covering is furnished in 3-foot sections cut lengthwise on one side only so as to reduce the possibility of heat losses. Two layers, or more, are made in order that the covering may be applied in accordance with the "broken joint method." The outer shell is manufactured with a ¼-inch jacket of tar and jet papers, thus giving a strong, durable and waterproof surface, over which a canvas jacket may be applied if desired. In applying the sections, attention is given to the sealing of all joints with Armorak cement, and the whole surface of the sections are painted with Armorak paint. Special non-corrosive white metal bands are used for holding the sections in place.

Fittings are built up with hair felt in successive layers, and are treated with a waterproof material as an armor to the proper thickness to insulate them thoroughly. Over this is applied a waterproof preparation and a coat of Armorak cement. Detail showing method follows :



By this method all joints may be broken and sealed, thus preventing air leaks. The Armorak cement makes a smooth and symmetrical finish ; it is painted black to match the adjoining covering.

For price lists and service details, see pages 88 and 89.

Robert A. Keasbey Company: Catalogue of Heat and Cold Insulation Materials, Asbestos, Flax and Rubber Packin… Published by AsbestosClaims.Law
ACL Doc 21292 · Page 24 of 52 asbestosclaims.law/library/21292/24

Cork Covering for Brine, Ammonia and Ice Water Piping

Cork covering is manufactured in three thicknesses to meet different service conditions. If satisfactory results are to be obtained, the proper thickness must be used and the material carefully applied.

Brine Covering, from 2 to 3 inches thick, is designed for brine and ammonia gas lines, and generally where the refrigerant has a temperature below 25 degrees Fahrenheit.

Ice Water Covering, approximately 1½ inches thick, is intended for use on refrigerated drinking water, liquid ammonia and beer lines, and generally where temperatures 25 to 45 degrees Fahrenheit are carried.

Special Thick Brine Covering, from 3 to 4 inches in thickness, is manufactured to meet a demand for extra heavy covering for brine lines, where, owing to the temperature of the refrigerant, the service conditions are particularly severe.

All lines should be supported by hangers on the outside of the covering, which should be protected by a sheet iron shield extending 4 inches on either side of the hanger.

In laying out pipe lines ample space should be allowed to permit the application of covering of proper thickness. Where pipes are too close together, or too near adjacent surfaces, to allow the use of the regular covering, cork centers can be furnished up to and including 8 inches in size.

Cork Boards — Information and prices on request.

For price lists and service details, see pages 88 and 89.

We also contract to apply



Protection of Exposed Water Piping Against Freezing

Millions of dollars in fire losses have been caused by the fact that though sprinklers, standpipes, etc., had been provided, these were imperfectly protected from freezing with the result that when the emergency came the connections were frozen and thus the whole value of the sprinkler protection was lost.



For the purpose of reducing this loss to a minimum, we recommend that all exposed water piping subject to freezing be protected in the following manner, which has been approved by the New York Board of Fire Underwriters:

Over the piping apply a layer of tar paper, then three layers of 1-inch hair felt, each layer being interlined with a course of building paper. Outside of the last layer of hair felt apply a layer of building paper and encase the whole work in a jacket of 8-ounce canvas sewed on. Then apply two coats of waterproof paint. A substantial ⅛-inch jute twine should be used for binding on the hair felt and building paper.

Robert A. Keasbey Company: Catalogue of Heat and Cold Insulation Materials, Asbestos, Flax and Rubber Packin…
Published by AsbestosClaims.Law
ACL Doc 21292 · Page 25 of 52
asbestosclaims.law/library/21292/25

Standard Hair Felt

FOR insulating cold water, gas, soil and waste lines against sweating and freezing. Also used for covering filters, suction tanks and other large vessels liable to sweat. This material is used extensively as a sound-deadener on piping carrying running water, such as soil, waste, etc. Is used as an insulation and lining for refrigerated rooms, cars, tanks, etc.

Frequent use is made of this material as an added protection on insulation for steam and hot water piping. For the protection against freezing of outdoor piping, see page 45.

Standard Hair Felt is the most efficient non-conductor of heat for low temperatures and is made of carefully selected cow's-hair quilted into blanket form. Standard Hair Felt is especially firm and durable, passing all Government tests.

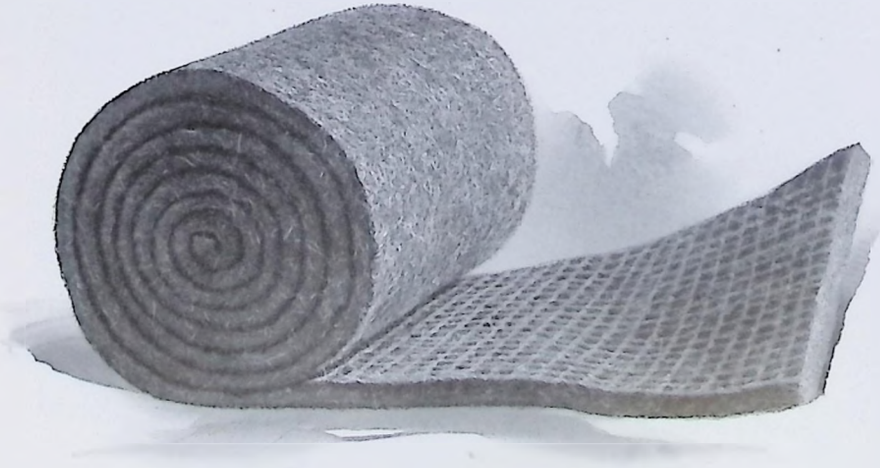
Furnished in bales 3 or 6 feet wide, containing 300 square feet per bale as listed below:

Price List

Prices effective February 19, 1918

Thickness Inches	Per Square Foot Cents	Per Roll 300 Square Feet
¼	5½	$16.50
½	6½	19.50
¾	8½	25.50
1	10	30.00
1½	15	45.00
2	19	57.00

We also contract to apply



Asbestos Textiles

SUCH articles as asbestos yarn, cloth, banding, listing, rope, wick and tape, come under the heading Asbestos Textiles.

These materials are used in the manufacture of high-pressure sheet packings, gaskets, theatre curtains, clothing and gloves, etc. Also used in filtering work where fire and acid resisting materials are required. Asbestos yarns are used for braiding and weaving purposes.

We present the following information on articles which will be found to be very efficient and highly satisfactory.

Robert A. Keasbey Company: Catalogue of Heat and Cold Insulation Materials, Asbestos, Flax and Rubber Packin… Published by AsbestosClaims.Law
ACL Doc 21292 · Page 26 of 52 asbestosclaims.law/library/21292/26

Asbestos Yarn

THE uses to which asbestos yarns are put are too numerous to outline. The yarns are made of high-grade, long-fibre asbestos, carded spun and twisted in any number of plies required. Also made in combination with fine brass and copper wire. Weights of yarns from 640 to 3200 yards per pound. Packed on spools weighing approximately 5 pounds.

Asbestos Wire Insertion Spark Plug Yarn

Style No. 901

A PURE asbestos yarn spun around a brass wire, largely used by spark plug manufacturers.

This material is also put up in boxes containing one dozen small spools for the automobile trade.

Asbestos Incandescent Mantle Thread

A VERY fine thread of great strength, made of pure asbestos fibre, especially prepared for suspending incandescent lamp mantles and similar purposes. Put up in 1-pound spools, averaging about 2000 lineal feet.

Asbestos Cord and Sewing Twine

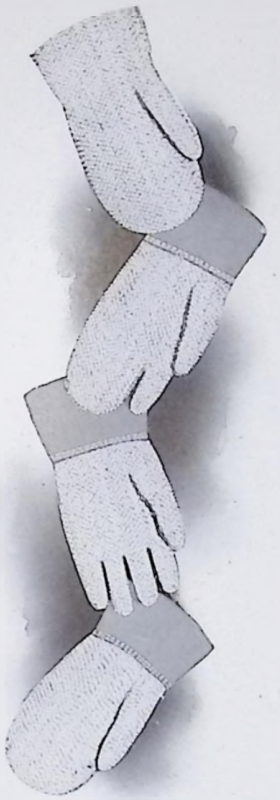
A STRONG, hard-finished cord of hard-twisted strands, composed of pure asbestos fibre. Fire and acid proof. Extensively used in chemical, glass works, etc., for suspending crucibles, retorts, etc.

Twine used for sewing asbestos cloths and binding materials exposed to fire or acid.

Furnished in any size from $\frac{1}{16}$ to $\frac{3}{8}$ inch in diameter, in 1-pound balls, also 5, 10 and 25-pound reels.

Prices on Application





Rakco Brake Band Linings

MADE from long fibre asbestos yarn, wire interwoven, in both braided and stitched forms. Impregnated with a toughening compound, making it proof against heat, oil and water. Unaffected by grease or dust. Will grip the drum instantly and tightly, checking speed immediately.

Price List
(Per lineal foot)

Widths	Thicknesses			
Inches	$\frac{1}{8}$-inch	$\frac{3}{32}$-inch	$\frac{1}{16}$-inch	$\frac{1}{4}$-inch
1	$0.32	$0.36	$0.42	$0.56
1¼	.36	.42	.50	.66
1½	.40	.48	.58	.76
1¾	.46	.56	.68	.88
2	.52	.64	.76	1.00
2¼	.58	.72	.84	1.12
2½	.64	.80	.94	1.24
2¾	.69	.87	1.03	1.35
3	.74	.94	1.12	1.46
3½	.83	1.06	1.28	1.67
4	.92	1.20	1.44	1.88

We make to order any size that may be desired. Discounts from above list on application

Asbestos Gloves and Mittens

With either Leather or Asbestos Gauntlet

THESE are durable and dependable, absolutely fire and acid proof, and are extensively used in glass, chemical and iron smelting works, affording great protection to the workmen.

Prices on Application

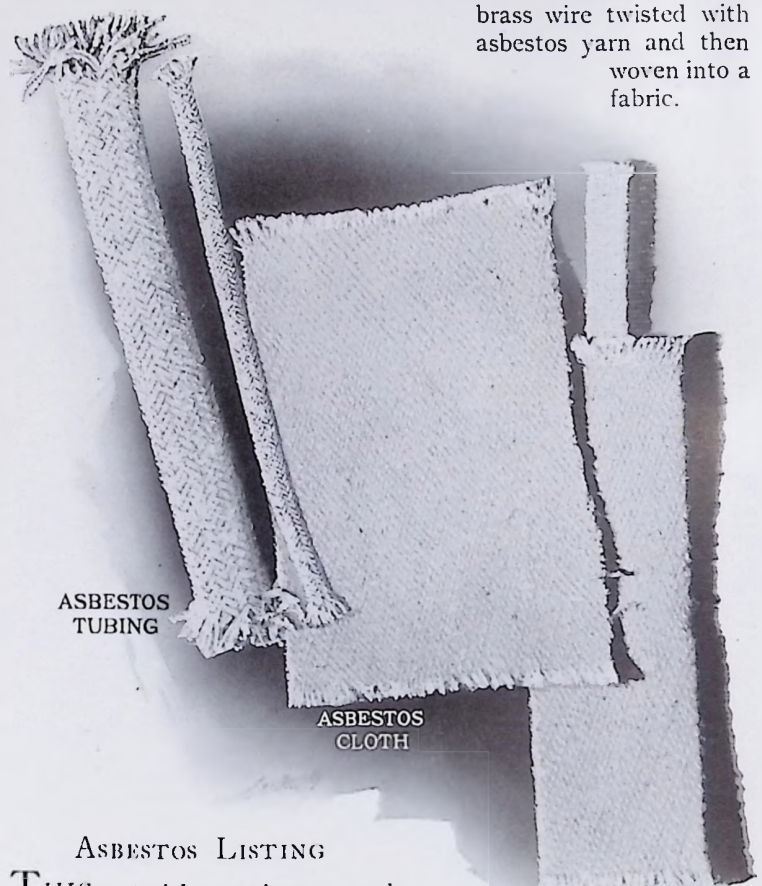


Robert A. Keasbey Company: Catalogue of Heat and Cold Insulation Materials, Asbestos, Flax and Rubber Packin…
ACL Doc 21292 · Page 27 of 52
Published by AsbestosClaims.Law
asbestosclaims.law/library/21292/27

Asbestos Cloth

We furnish a superior quality of asbestos cloth, of even texture, in thicknesses from 3/32 to 1/8 inch, ranging in weight from 2 to 7 pounds per running yard. Standard width, 40 inches. Used extensively for theatre curtains, screens, aprons, and wherever absolutely acid, oil and fireproof cloths are required.

Asbestos Metallic Cloth consists of brass wire twisted with asbestos yarn and then woven into a fabric.



Asbestos Listing

This material, sometimes termed by the trade as asbestos webbing, is a fireproof, flexible non-conducting woven tape, suitable for wrapping all forms of electrical wires.

Made in all sizes up to 4 inches wide, 1/4 inch thick, in lengths of 50, 100 and 150 feet.

Prices on Application

Asbestos Braided Tubing

Made of pure asbestos fibre, very flexible, absolutely fireproof and a non-conductor of electricity. Any insulating compound can be applied to it. It is therefore an exceptional insulator for covering conductor and electrical wires, and more durable than any other known material for the purpose.

Tubing Style Number	To Fit over Bare Wires—B. & S. Gauge Number	Outside Diameter of Tubing—Inches	Approximate Number of Lineal Feet per Pound
115	17	1/8	100
215	10	3/32	95
315	8	1/16	90
415	5	1/4	50
515	4	5/16	40
615	2	3/8	30
715	0	1/2	25

Other diameters made to order. When ordering, please quote above number or give diameter of wire to be covered.

Prices on Application

Asbestos Rope and Wick Packing

These materials are made from long select asbestos fibre, absolutely fire and acid proof. The fibre is carefully carded to free it from all grit and hard particles and is twisted into strands of very soft texture.

Asbestos Wick Packing is furnished in 1/2 and 1-pound balls, each ball wrapped in tissue paper and packed in 25 and 50-pound cases for shipment. Owing to its great flexibility it can be formed and packed in almost any conceivable cavity. Used for packing small steam pumps, tubes, valve stems and similar purposes.

Style No. 90 . . . . . Commercially Pure Asbestos Wick
Style No. 96 . . . . . Pure Asbestos Wick
Weight—90 feet per pound

Asbestos Rope Packing is made by twisting a number of strands of Asbestos Wick together to produce the diameter required. Furnished in reels of 10, 15 and 25 pounds each and in sizes from 1/4

Robert A. Keasbey Company: Catalogue of Heat and Cold Insulation Materials, Asbestos, Flax and Rubber Packin…
Published by AsbestosClaims.Law
ACL Doc 21292 · Page 28 of 52
asbestosclaims.law/library/21292/28

to 2 inches in diameter. Used for packing engines, joints, chemical containers, etc. Being fireproof as well as acid and oil proof, the scope of its adaptability is still further widened.

STYLE No. 91 . . Commercially Pure Asbestos Twisted Rope Packing
STYLE No. 92 . . . . . Asbestos Round Braided Rope Packing
STYLE No. 94 . . . . . Asbestos Square Braided Rope Packing
STYLE No. 97 . . . . . PURE Asbestos Twisted Rope
STYLE No. 98 . . . . . PURE Asbestos Braided Rope

Table showing lineal feet per pound:

Size—Inches	Twisted	Braided
¼	24	24
⅜	20	20
½	12	13
⅝	9	8
¾	7	7
⅞	6	5
1	5½	4
1⅛	5	3
1¼	4	2½
1½	3	2
1⅝	2½	1¾
1¾	2	1½
2	1	1

Prices of Asbestos Rope and Wick Packings on Application



SPIRAL RING AND COIL PACKINGS

THESE packings of the types which have proved so satisfactory in meeting the requirements of modern high power plants, are manufactured with great care, and only the highest grades of asbestos textiles, lubricating and cementing compounds and floating graphite are used.

WHEN ORDERING

FOR RING PACKINGS give diameter of rod (inside diameter of ring), inside diameter of stuffing box or diameter of gland (outside diameter of ring).

FOR SPIRAL AND COIL PACKINGS, give size (difference between diameter of rod and inside diameter of stuffing box).

WHEN RING PACKING is furnished in sets, the depth of stuffing box is required. Also state the fact if bottom of stuffing box is concave. If concave, a round section packing should always be used.

Take measurements to $\frac{1}{64}$ of an inch.

SPIRAL PACKING is usually furnished in boxes containing 12½ feet.

Where the quantity is not specified, orders for Ring Packings will be filled as follows:

Rods under 1 inch . . . . . 3 pounds per box
Rods 1 to 2 inches . . . . . 5 pounds per box
Rods 2 to 3 inches . . . . . 10 pounds per box
Rods 3 to 4 inches . . . . . 15 pounds per box
Rods over 4 inches . . . . . 20 pounds per box

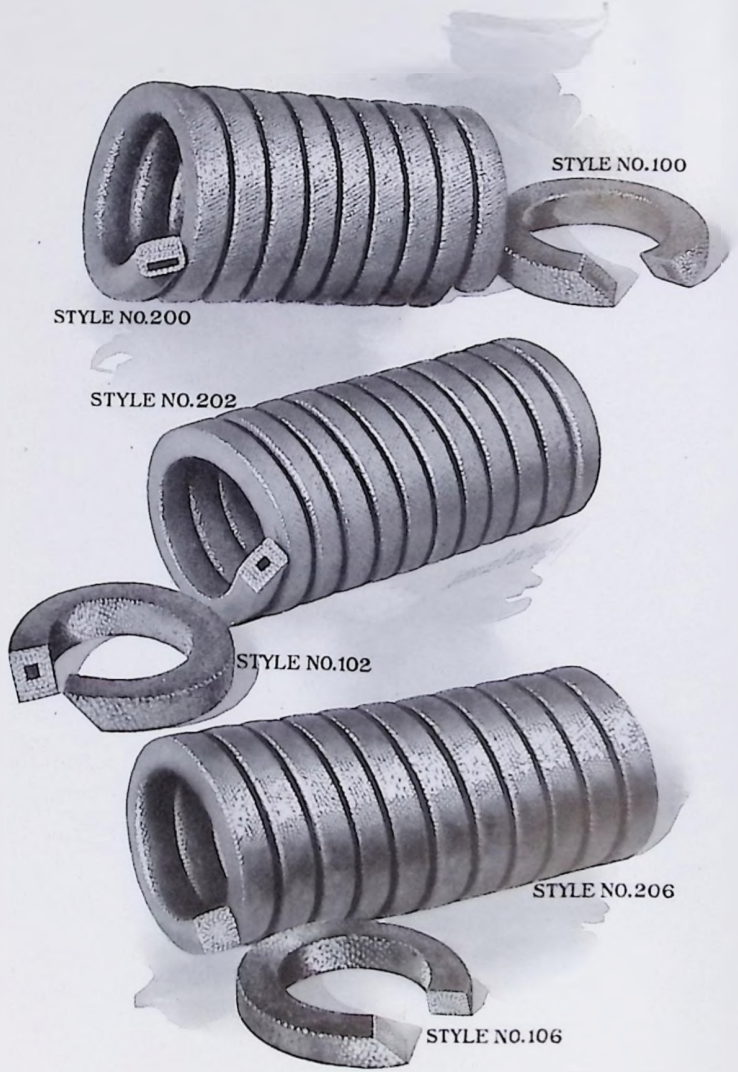
To insure correct interpretation of order, mention style numbers.

Robert A. Keasbey Company: Catalogue of Heat and Cold Insulation Materials, Asbestos, Flax and Rubber Packin…
Published by AsbestosClaims.Law
ACL Doc 21292 · Page 29 of 52
asbestosclaims.law/library/21292/29

Rakco Brand High Pressure Spiral and Ring Packings

For Superheated or High Pressure Steam of over 120 Pounds Pressure

(*See description on opposite page*)



Rakco Brand High Pressure Spiral and Ring Packings

For Superheated or High Pressure Steam of over 120 Pounds Pressure

(*See cuts on opposite page*)

FOR high-speed engines and Corliss valve stems, rotary dryers in paper mills, expansion joints, etc.

STYLE No. 100 . Ring, with non-vulcanizing cushion (square section only)
STYLE No. 200 . Spiral, with non-vulcanizing cushion (square section only)

FOR triple expansion and tandem compound engines, high pressure marine engines, steam feeds, etc.

STYLE No. 102 . . . . Ring, with non-vulcanizing core (square section)
STYLE No. 202 . . . . Spiral, with non-vulcanizing core (square section)
STYLE No. 104 . . . . Ring, with non-vulcanizing core (round section)
STYLE No. 204 . . . . Spiral, with non-vulcanizing core (round section)

FOR use in air compressors, rock drills, dryers, mangles, gas, dry steam and like conditions.

STYLE No. 106 . Ring, plain, with neither core nor cushion (square section)
STYLE No. 206 . Spiral, plain, with neither core nor cushion (square section)
STYLE No. 108 . Ring, plain, with neither core nor cushion (round section)
STYLE No. 208 . Spiral, plain, with neither core nor cushion (round section)

ALL of the above packings are also furnished with **wire insertion.** From ¼ inch and up (except rubber back style—⅜ inch smallest size), packed in boxes containing 12½ feet.

STYLE No. 101 Ring, same as Style No. 100, rubber cushion (square section)
STYLE No. 201 Spiral, same as Style No. 200, rubber cushion (square section)
STYLE No. 103 Ring, same as Style No. 102, rubber core (square section)
STYLE No. 203 Spiral, same as Style No. 202, rubber core (square section)
STYLE No. 105 Ring, same as Style No. 104, rubber core (round section)
STYLE No. 205 Spiral, same as Style No. 204, rubber core (round section)
STYLE No. 107 Ring, same as Style No. 106, plain core (square section)
STYLE No. 207 Spiral, same as Style No. 206, plain core (square section)
STYLE No. 109 Ring, same as Style No. 108, plain core (round section)
STYLE No. 209 Spiral, same as Style No. 208, plain core (round section)

The following table shows approximate weight per box, ¼-inch packings are packed two per box, all other sizes, one per box:

Inch	Pounds	Inches	Pounds
¼	¾	¾	5½
⅜	1	⅞	8
½	1½	1	10
⅝	3	1⅛	11½
¾	4¼	1¼	13½

Prices on Application

Robert A. Keasbey Company: Catalogue of Heat and Cold Insulation Materials, Asbestos, Flax and Rubber Packin… Published by AsbestosClaims.Law
ACL Doc 21292 · Page 30 of 52 asbestosclaims.law/library/21292/30

Rakco High Pressure Coil Packings

THESE packings are designed for high pressure and superheated valve stems and piston rods. Made of woven or braided asbestos fabrics with or without fine wire interwoven. Standard finish, plain white. Also supplied, on order, graphited or with rubber-coated surface. The quality of asbestos cloth and rubber cementing compound used in the manufacture of these packings is the highest we can procure.

STYLE No. 50 . . . . . Round, plain
STYLE No. 52 . . . . . Square, plain
STYLE No. 54 . . . . . Round, with red rubber core
STYLE No. 56 . . . . . Square, with red rubber core
STYLE No. 58 . Square, with red rubber cushion or back (similar to Dagger type)
STYLE No. 60 . Square, with black rubber cushion (Duriflex type) furnished with wire insertion only, rubber finish. Not furnished lubricated or graphited
STYLE No. 51 . . . . . Same as Style No. 50, with wire insertion
STYLE No. 53 . . . . . Same as Style No. 52, with wire insertion
STYLE No. 55 . . . . . Same as Style No. 54, with wire insertion
STYLE No. 57 . . . . . Same as Style No. 56, with wire insertion
STYLE No. 59 . . . . . Same as Style No. 58, with wire insertion
STYLES No. 58 and No. 60 furnished ⅜ inch and up, all other styles furnished ¼ inch and up

For table showing approximate weights, see next page.

Prices on Application

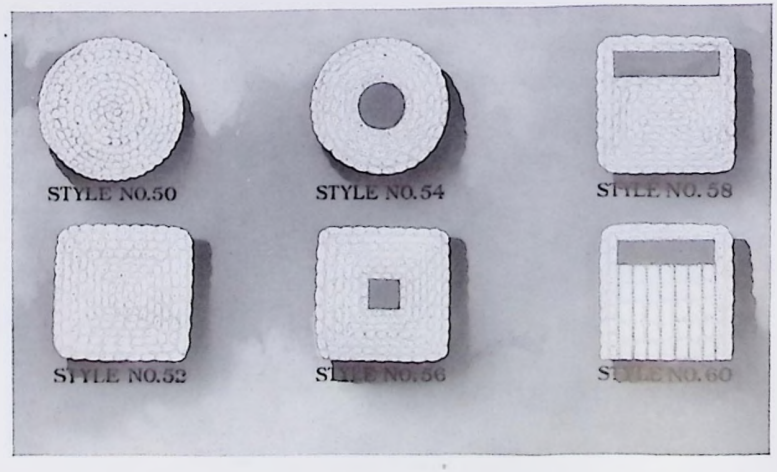
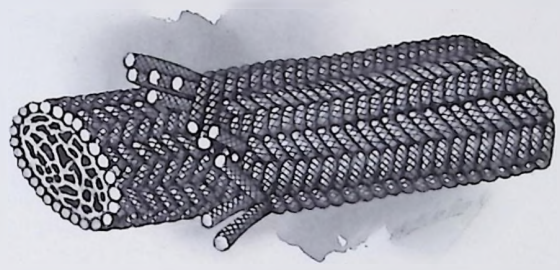


Table of approximate weights of Packings shown on page 56:

Style No.	50–52	51–53	54–56	55–57	58	59	60
Size	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.
¼	1¼	1⅜	1¼	1⅜			
⅜	2	2⅛	2½	2⅝	2¾	3	3⅜
½	3	3¼	4¼	4⅜	4¾	5	5¼
⅝	5	5¼	7	7½	7¼	8	8½
¾	7	7½	10	10⅜	9½	10½	13
⅞	10	10⅜	12½	13	12	13½	17
1	12	12¾	15	15½	14½	17	20
1⅛	15	15¾	17	17⅝	19	20½	24½
1¼	17	18	19½	20¼	24	26½	31½
1⅜	20¼	22	22¾	23½	28	31	35
1½	23¼	24¼	26	27	32	35	40



STYLE No. 61

Rakco Special High Pressure Coil Packing

FOR high steam pressures, high temperatures and air.

This packing is made oval in form with a twisted core of absolutely pure asbestos fibre, thoroughly saturated with a high temperature test lubricating compound, over which is firmly braided a double jacket of asbestos yarn and fine bronze wire, the whole making a flexible, perfectly lubricated packing, which, owing to its style of construction, readily adjusts itself to the variations of rod alignment. Guaranteed to stand the most severe service and temperature ranging to 600 degrees Fahrenheit. Put up in sizes ¼ inch to 2 inches by $\frac{1}{16}$ inch in boxes containing 12 feet. Also furnished in ring form.

Approximate weights per box:

Inch	Pounds	Inch	Pounds
¼	6	¾	7
⅜	7	⅞	8
½	6	1	10
⅝	6		

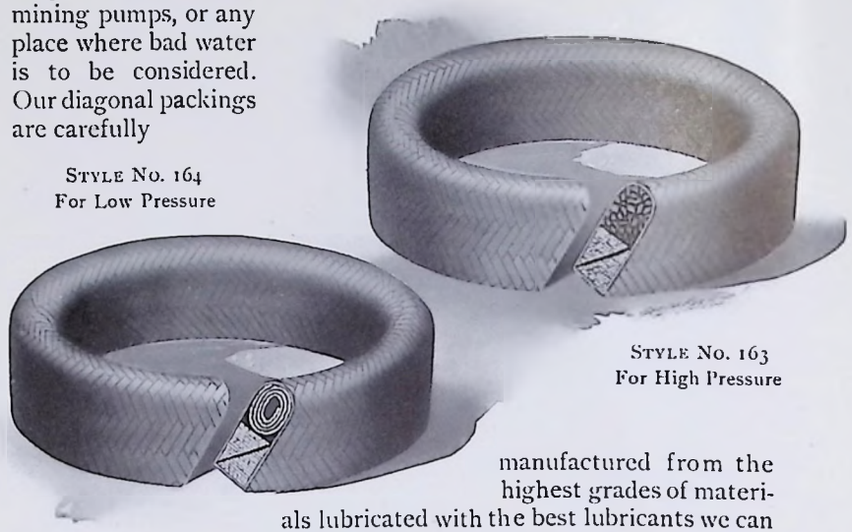
Prices on Application

Robert A. Keasbey Company: Catalogue of Heat and Cold Insulation Materials, Asbestos, Flax and Rubber Packin…
Published by AsbestosClaims.Law
ACL Doc 21292 · Page 31 of 52
asbestosclaims.law/library/21292/31

RAKCO DIAGONAL

For Rods where there is Excessive Vibration or Abnormal Condensation

HIGH PRESSURE for steam pressure 100 pounds to 175 pounds, ammonia rods or hot water pumps. Low pressure for steam pressure up to 100 pounds. This style of packing is especially adapted for elevators, mining pumps, or any place where bad water is to be considered. Our diagonal packings are carefully manufactured from the highest grades of materials lubricated with the best lubricants we can procure, and are equal, if not superior, to the many packings of this type now on the market. They adapt themselves to every motion and any irregularities of rod or plunger, and will not bind, become hard or crystallize. Being absorbent, they take up and store the oil used on rods, thus preventing friction.



STYLE NO. 164
For Low Pressure

STYLE NO. 163
For High Pressure

FURNISHED in the following styles and weights:

High Pressure	Low Pressure	
STYLE NO. 63	STYLE NO. 64	Coil
STYLE NO. 263	STYLE NO. 264	Spiral
STYLE NO. 163	STYLE NO. 164	Ring

Table of weights and measures per box:

Inch	Coils	Feet	Pounds per Box
¼	4	96	7
⅜	3	45	7
½	2	37	9½
⅝	2	25	10
¾	1	16	11
⅞	1	13½	12
1	1	13½	13½

Prices on Application

RAKCO COMBINATION HIGH PRESSURE PACKING

SPECIAL conditions frequently make it advisable to use various combinations of packings. In this event we recommend our combination sets of packings, as we have special sets to meet every known condition. These different sets are made to exactly fill the stuffing box.

Our Style No. 311 is a combination of our high-pressure ring and our diagonal-cut ring put up in sets to exactly fill the stuffing box. This combination makes an excellent packing, and is recommended for every class of work against any steam pressure.

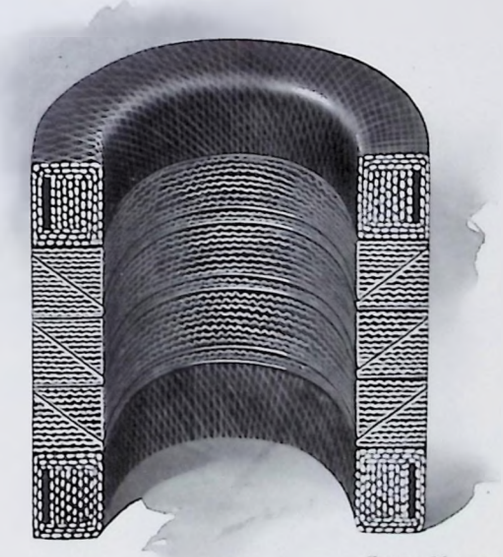
When ordering it is necessary that we have diameter of the rod and diameter and depth of the stuffing box.

A few standard combinations:

STYLE NO. 311	For High-pressure Steam
STYLE NO. 312	For Corliss Valve Stems
STYLE NO. 314	For Moderate Steam Pressure
STYLE NO. 315	For Ammonia
STYLE NO. 325	For Steam Hammers
STYLE NO. 330	For Oil Pumps
STYLE NO. 369	For Hot Water Outside Packed Plungers
STYLE NO. 370	For Cold Water Outside Plungers

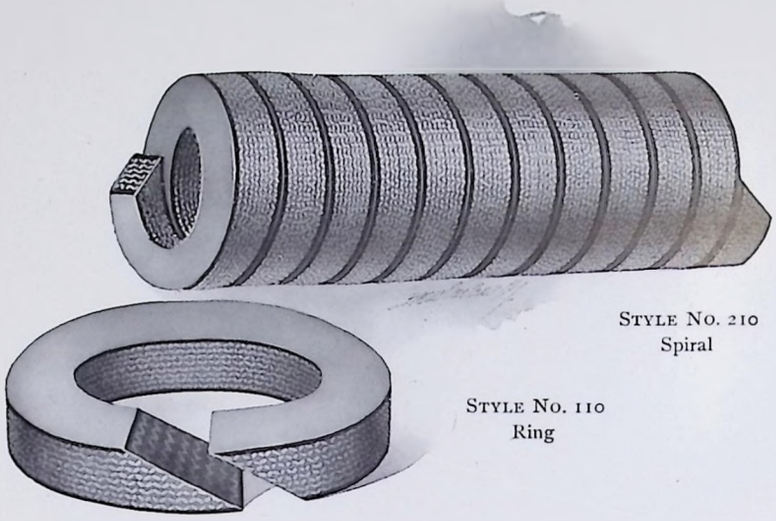
We make combinations for every purpose. Order by style number.

Prices on Application



STYLE NO. 311

Robert A. Keasbey Company: Catalogue of Heat and Cold Insulation Materials, Asbestos, Flax and Rubber Packin… Published by AsbestosClaims.Law
ACL Doc 21292 · Page 32 of 52 asbestosclaims.law/library/21292/32



STYLE NO. 210
Spiral

STYLE NO. 110
Ring

RAKCO LOW PRESSURE SPIRAL AND RING PACKING

FOR low and intermediate steam pressures up to 110 pounds, hot or cold water, air or oil.

This well-known type of packing is constructed of strong heavy duck with very best rubber friction and lubrication. For all-around service on different kinds of engines and pumps whether used alone, or in combination with other packings where unusual conditions are to be considered.

SPIRAL—Furnished ⅛ to 2 inches, in 12½-foot coils; ⅛ inch packed 4 coils per box, and all other sizes one coil per box.

Approximate weights per box:

Inch	Pounds	Inches	Pounds
⅛	¾	⅝	3¾
3/16	½	¾	5½
¼	⅞	⅞	6¾
5/16	1	1	8¾
⅜	1½	1⅛	10
½	2½	1¼	11½

Prices on Application

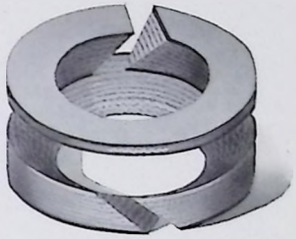
RAKCO SECTIONAL OR DOUBLE RING PACKING
Style No. 111

RAKCO DIAGONAL CUT OR DOUBLE RING PACKING
Style No. 112

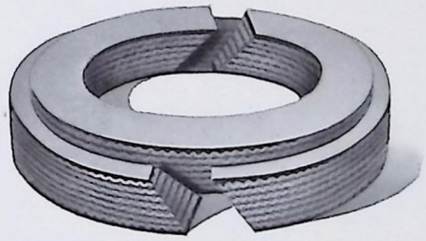
AUTOMATICALLY adjust themselves to the motion of the rod and are therefore especially adapted for rods slightly scored or out of alignment.

Intended for use with the single ring or in other combinations to secure greater expansion or reduce friction. Can only be used when flange is ½ inch wide or over, so they can be cut at the proper angle to insure the efficient working of the packing. Where not specified, we send one-third of required number expansion rings (Style No. 110) to be used at both ends of the stuffing box. Cut from slabs ⅜, ½ or ⅝ inch thick.

Prices on Application



STYLE NO. 112



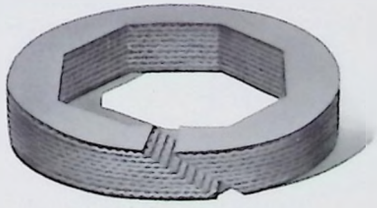
STYLE NO. 111

RAKCO OCTAGON AND STEAM HAMMER RING PACKING

FOR flat-sided and odd-shaped rods, drawings or exact measurements required.

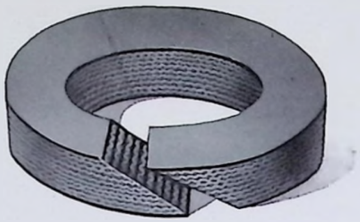
Cut from the same material as described above.

Prices on Application

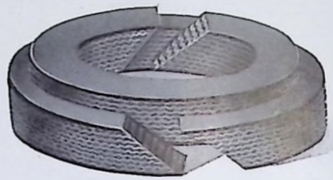


STYLE NO. 125

Robert A. Keasbey Company: Catalogue of Heat and Cold Insulation Materials, Asbestos, Flax and Rubber Packin…
ACL Doc 21292 · Page 33 of 52
Published by AsbestosClaims.Law
asbestosclaims.law/library/21292/33



STYLE NO. 114



STYLE NO. 114-S

RAKCO EXTRA RING AND SPIRAL PACKING

FOR steam pressures up to 125 pounds and higher where there is a great deal of condensation, also for hot water rods.

Decidedly superior all around packings cut from stitched or reinforced rubber and duck slab of high quality, thoroughly lubricated with the most suitable lubricant.

STYLE NO. 114 . . . . . Expansion Ring
STYLE NO. 114-S . . . . . Sectional Ring
STYLE NO. 114-D . . . . . Diagonal Cut Ring
STYLE NO. 214 . . . . . Spiral

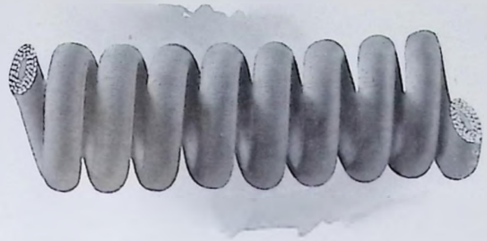
Prices on Application

RAKCO REINFORCED SPIRAL AND RING PACKING

ESPECIALLY adapted for ammonia, ice and refrigerating machines. While this packing is similar in appearance, to our Style No. 114, shown in above cut, it is made from a higher quality slab, lubricated by our cold process with the finest and most suitable lubricant to withstand the action of ammonia, which is absolutely free from grit or acids.

STYLE NO. 215 . . . . . Spiral
STYLE NO. 115 . . . . . Expansion Ring
STYLE NO. 115-S . . . . . Sectional Ring
STYLE NO. 115-D . . . . . Diagonal Cut Ring

Prices on Application



RAKCO RED CORE SPIRAL PACKING

For Low Pressure Steam up to 100 Pounds Pressure

STYLE NO. 213

THIS well-known type of packing for moderate requirements consists of a red rubber core surrounded by layers of soft loosely woven duck, and the outside is treated with a special high-grade lubricant free from acid and grit.

Also furnished in ring form, Style No. 113.

Approximate weights of Spiral Packings:

Size Inches	Coils Per Box	Feet Per Box	Pounds Per Box	Size Inches	Coils Per Box	Feet Per Box	Pounds Per Box
¼	4	84	3¼	¾	2	24	6
⅜	4	72	4½	⅞	2	24	8½
½	3	36	4	1	2	24	10
⅝	3	36	7¼				

RAKCO OVAL GUM CORE PACKING

For Pressures up to 100 Pounds

STYLE NO. 62



THIS reliable style of packing, adapted for old types of engines with worn rods or disarranged stuffing boxes and slow-moving pumps, is composed of the best grade of long fibre flax with a highly elastic, steam resisting, non-vulcanizing core, impregnated throughout with a durable lubricant. Also furnished round if desired.

Approximate weights per box:

Inch	Pounds	Inch	Pounds	Inch	Pounds
⅜	6	⅝	7	⅞	6
½	6¼	¾	5½	1	7¾

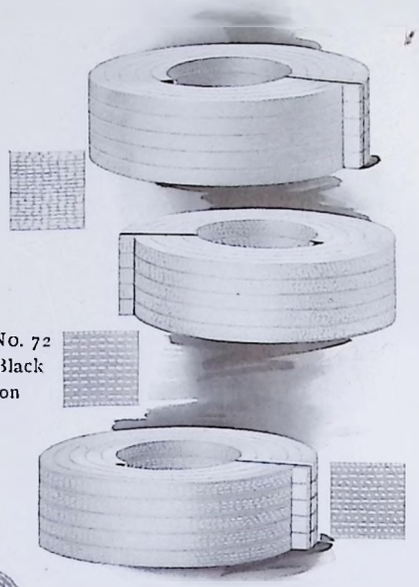
Prices on Application

Robert A. Keasbey Company: Catalogue of Heat and Cold Insulation Materials, Asbestos, Flax and Rubber Packin…
Published by AsbestosClaims.Law
ACL Doc 21292 · Page 34 of 52
asbestosclaims.law/library/21292/34

RAKCO TUCKS PACKINGS

For Cold or Warm Water Service

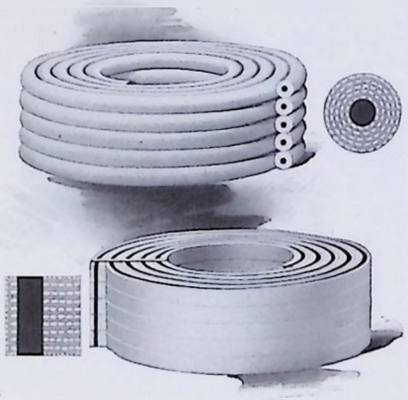
OUR stock grade of this material, both round and square, will satisfactorily meet the ordinary requirements of a packing of this type, and is carefully manufactured from a good quality of duck, well frictioned with a high-grade rubber compound.



STYLE NO. 74
Square White Friction

STYLE NO. 72
Square Black Friction

STYLE NO. 71
Round Black Friction



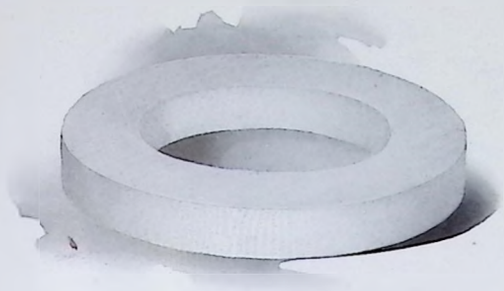
STYLE NO. 75
Square (Rock Hard) for old style Otis elevators and pumps

STYLE NO. 76
Square (Rubber Back)

All furnished in coils 12½ feet long, weighing approximately as follows:

Inch	Round Pounds	Square Pounds	Inch	Round Pounds	Square Pounds
¼	½	½	¾	4	3½
⅜	1	1	⅞	7½	5
½	2	1½	1	9	6
⅝	3	2¼			

Prices on Application



STYLE NO. 169-S

RAKCO SPECIAL HYDRAULIC PACKING

THE highest grade Tucks Packing that can be produced for cold, hot or boiling water. Especially adapted for inside packed plunger, heavy duty and boiler feed pumps, pumping extremely hot or boiling water. Also for cold water and special or high-pressure hydraulic work. Gives perfect satisfaction on water of any temperature, and can be easily split if desired. Very flexible, and slabs are manufactured so that the expansion is all lengthwise, thus eliminating all heating and binding. Can be finished soft, medium or rock hard.

STYLE NO. 69 . . . . . Coil
STYLE NO. 169-M . . . . . Moulded Ring
STYLE NO. 169-S . . . . . Solid Ring

MOULDED RINGS usually furnished with step or mortise joint—solid rings can be furnished with mortise or step joint.

Approximate weights of Coil Packing per box in 12½-foot coils

Inch	Pounds	Inch	Pounds
¼	⅜	¾	4⅜
⅜	1⅜	⅞	6
½	2⅜	1	8
⅝	3⅛		

SOLID PLUNGER RING PACKING

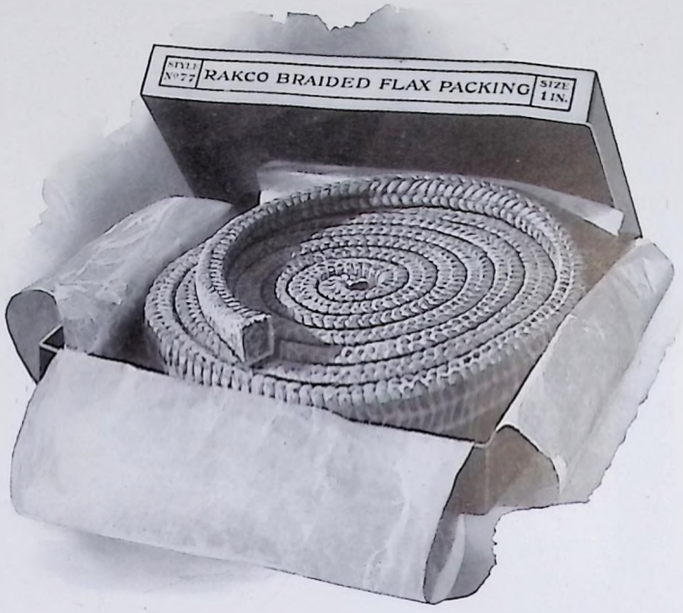
For elevator plungers, hydraulic vertical plungers, pump cylinders, etc.

Prices on Application



STYLE NO. 116

Robert A. Keasbey Company: Catalogue of Heat and Cold Insulation Materials, Asbestos, Flax and Rubber Packin… Published by AsbestosClaims.Law
ACL Doc 21292 · Page 35 of 52 asbestosclaims.law/library/21292/35



Rakco Braided Flax Packings

FOR cold or warm water service on water ends of pump.

Style No. 77

Braided from best grade of pure long fibre Russian flax, the highest quality of material that can be manufactured in this line.

Style No. 78

A high grade of this class of packing that will meet the requirements of a packing of this type.

Style No. 79

A reliable packing braided from good quality of hemp (classed by the trade as flax). The best piece of packing of this kind that can be produced for the price.

These packings can also be furnished with rubber back or cushion.

Approximate weights:

Size—Inches	Coils per Box	Feet per Box	Pounds per Box
¼	4	120	5½
⅜	3	63	6½
½	2	44	5½
⅝	2	36	6¼
¾	2	32	7¾
⅞	2	26	8¼
1	1	12	6

Prices on Application

Rakco Hydraulic Flax Packing

For Cold or Warm Water, Brine, Cold Oil, Etc.

FOR service on accumulators, elevator cylinders, pumps, stern glands, brine pumps, hydraulic presses, etc.

A special lubricant is used in the manufacture of this packing, which not only preserves and increases its efficiency, but prevents crystallization when used in bad water, which frequently causes scored plungers. Absolutely free from hemp, jute or tow, and will not corrode, clog or gum machinery.

Also furnished with lead or rubber core if desired.

Style No. 70 . . . . . Coil
Style No. 270 . . . . . Spiral
Style No. 170 . . . . . Ring

Approximate weights for Style No. 70:

Size—Inches	Coils per box	Feet per box	Pounds per Box
¼	4	120	4¼
⅜	3	60	4½
½	2	42	5¾
⅝	2	36	6⅞
¾	2	32	8½
⅞	1	17	7
1	1	15	8

Prices on Application



Style No. 170

Robert A. Keasbey Company: Catalogue of Heat and Cold Insulation Materials, Asbestos, Flax and Rubber Packin…
Published by AsbestosClaims.Law
ACL Doc 21292 · Page 36 of 52
asbestosclaims.law/library/21292/36

Rakco Braided or Twisted Valve Stem Packing



Style No. 65

Style No. 65 . . . . Braided
Style No. 66 . . . . Twisted

An absolutely pure asbestos yarn thoroughly lubricated with a high test lubricant and graphited throughout before being made into this packing, making it impossible for the packing to harden or char. Especially adapted for small stuffing boxes where there is extreme heat or pressure, also for air pumps.

⅛ inch and up furnished either braided or twisted.

$\frac{1}{16}$ and $\frac{3}{32}$ inch furnished twisted only.

This material is also put up on small spools in a box (⅜ inch twisted form) for the automobile trade. Being twisted, it packs closely and can be stripped down to $\frac{1}{16}$ inch and used to pack small valve stems, etc.

Vulcanized Valve Stem Packing

Style No. 67 . . . . Braided
Style No. 68 . . . . Twisted

An asbestos cord treated with rubber compound and vulcanized instead of lubricated. Graphited on outside only.

Put up on ¼, ½ and 1-pound spools, also on 5, 10 and 25-pound reels.

Prices on Application



Style No. 66

Rakco Air Pump Packing





Moulded from our special asbestos compound in concave and convex rings.

Made in sets to fit rod and box exactly and is easily applied. Sets are put up in boxes containing sufficient packing for both the air and steam ends of one pump.

Style No. 300—For 8-inch Westinghouse Pump (8 rings per set).

Style No. 301—For 9½-inch Westinghouse Pump (8 rings per set).

Style No. 302—For 11-inch Westinghouse Pump (8 rings per set).

Style No. 303—For No. 1 and No. 2 New York Air Pump (16 rings per set).

Style No. 304—For No. 5 New York Air Pump (16 rings per set).

Style No. 305—For No. 6 New York Air Pump (16 rings per set).

Rakco Locomotive Throttle Packing

Style No. 310

This combination is made up of our Rakco high-pressure packing rings, with core or cushion, and is reinforced with a bottom ring of metal inserted stock of high-grade, heat-resisting material.

In offering this style it is our aim to meet the requirements of high steam pressures and very severe service.

This is a high-grade, high-pressure throttle packing. It is made to exact size and put up in sets that are designed to fit the box exactly.

Prices on Application

Robert A. Keasbey Company: Catalogue of Heat and Cold Insulation Materials, Asbestos, Flax and Rubber Packin… Published by AsbestosClaims.Law
ACL Doc 21292 · Page 37 of 52 asbestosclaims.law/library/21292/37

Rakco Plaited Thong Packing

FOR rods and plungers working in cold liquids only and for air machinery.

Style No. 80 — Manufactured from a specially treated hide, self-lubricating, elastic and non-frictional.

Need not be renewed (unless it becomes filled with grit from the water) and can be entirely worn out by applying a fresh turn of packing as required.

Especially adapted for gritty and muddy water encountered in water works and mines, stern glands and bilges of steamships, ice machines, brine pumps, hydraulic elevators and air drills (not used for hot water).

Put up in 5 and 10-pound boxes, also 25 and 50-pound bales.

Rakco Metallic Paste

For making permanent joints. This composition unites two pieces of metal as one and will withstand the variations of any pressure or temperature.

Rakco Semi-Metallic Packing

For ammonia or air compressors and ice machines. For all speeds, temperatures and pressure, and both rotary and reciprocating machines.

Rakco Plastic Metallic Packing

For any style of engine piston, air compressor, outside packed plunger pump, valve stem, throttle valve, or stop valve on main steam lines.

Composed of shreds of anti-friction metal combined with a high test lubricant, put up in 5, 10 and 25-pound pails.

Applied the same as ordinary packing rings.

No measurements required.

Will withstand any working steam pressure from the lowest to the highest without fusing, works equally well on air or water, and is impervious to the action of oil, acid, brine or ammonia.

Rakco Flexible Metallic Ring Packing

For rods working in steam, air, ammonia, water, brine, etc.

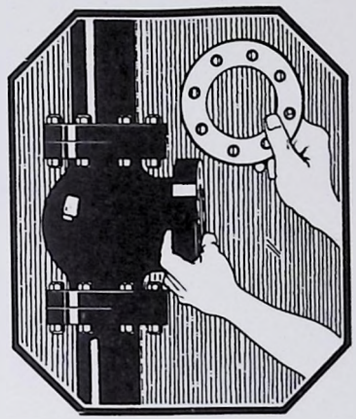
Rakco Flexible Metallic Twisted Packing

For small valve stems and stuffing boxes.

Furnished 1/8, 3/16, and 1/4 inch thick, put up on 1-pound spools.

Prices on Application

Gaskets and Sheet Packings



THE following pages have been designed to present to the buyer in condensed form, illustrations, uses and data on gaskets and sheet packings. It is our aim to offer only the most efficient and durable materials, believing that a low *first* cost makes a higher final cost.

We are in position to furnish packing, gaskets, etc., for every purpose, and it will be a pleasure to give customers the benefit of our many years of experience.

Robert A. Keasbey Company: Catalogue of Heat and Cold Insulation Materials, Asbestos, Flax and Rubber Packin…
Published by AsbestosClaims.Law
ACL Doc 21292 · Page 38 of 52
asbestosclaims.law/library/21292/38

Rakco Asbestos Metallic Gaskets

Tape Jointed	Jointless
Style No. 31 . . Manhole	Style No. 25 . . Manhole
Style No. 32 . . Handhole	Style No. 26 . . Handhole

FOR boiler and flange joints. Made of pure asbestos yarn closely woven. Each strand of the warp and filler is twisted around two fine brass wires and coated with a non-vulcanizing rubber compound. Heatproof and will not blow out under high pressures.

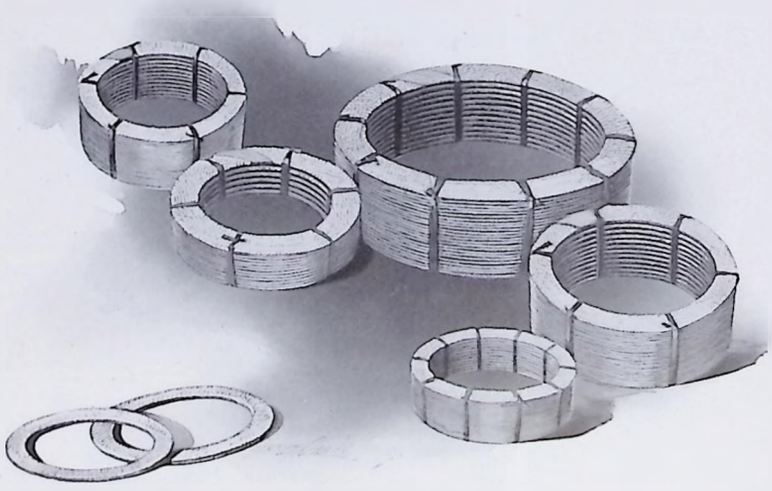
Made in all sizes, oval, round, square and other shapes.

These gaskets are furnished both tape jointed and seamless, the former being the most popular.

A gasket having a smallest outside diameter of over 6 inches, flange over 3/8 inch wide, is classed as a manhole gasket.

A gasket having a smallest outside diameter of 6 inches or under, flange over 3/8 inch wide, is classed as a handhole gasket

Prices on Application



Rakco Asbestos Metallic Gaskets

(Continued)

Approximate weights of standard sizes:

Inches	Ounces—Each
12 x 16 x 1¼ x ¼	15
11 x 15½ x 1¼ x ¼	14¼
11 x 15 x 1¼ x ¼	14
10½ x 15 x 1¼ x ¼	13½
10½ x 14½ x 1¼ x ¼	13
10 x 14½ x 1¼ x ¼	12¾
10 x 14 x 1¼ x ¼	12½
6 x 8 x 1 x ¼	5¾
6 x 8 x ¾ x ¼	5¼
5 x 7 x ¾ x ¼	4⅛
4 x 6 x ¾ x ¼	3⅜
3½ x 5 x ½ x 3/16	2
3½ x 4½ x ½ x 3/16	1½
3 x 5 x ½ x 3/16	1⅜
3 x 4½ x ½ x 3/16	1¼
3 x 4 x ½ x 3/16	1⅛

Also made for various boilers as follows:

Babcock & Wilcox Boilers—Tube plate gasket—oval.

Babcock & Wilcox Boilers—Tube plate gasket—square.

Heine Boilers—Tube plate gasket—round 3½ x ⅜ x ⅛ inches.

Erie City Boiler—4¾ x 9⅛ x 1/16 x 3/16 inches.

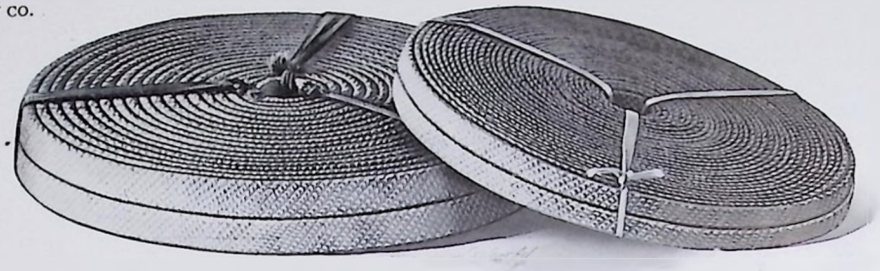
Edgemoor Boiler Gaskets (graphited) 4 1/16 x 5 1/16 x ½ x ⅛ inches.

For other boilers, to order.

IN ordering gaskets, always specify what thickness is desired and also whether gasket is round or oval, or oval ends and flat sides. If round, give inside and outside dimensions. If oval give long and short inside dimensions. If with oval ends, give same dimensions as for oval gaskets, sending sketch or templet showing the shape.

Prices on Application

Robert A. Keasbey Company: Catalogue of Heat and Cold Insulation Materials, Asbestos, Flax and Rubber Packin…
ACL Doc 21292 · Page 39 of 52
Published by AsbestosClaims.Law
asbestosclaims.law/library/21292/39



Rakco Asbestos Gasketing Tape

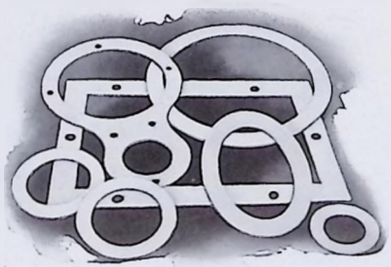
Style No. 34 . . . . . Folded
Style No. 35 . . . . . Braided

THIS material is furnished in both folded and braided form, either with or without wire insertion, in any width or thickness.

Our standard tape is folded from the same grade of wire inserted asbestos cloth as our gaskets.

Approximate weight folded wire inserted tape:

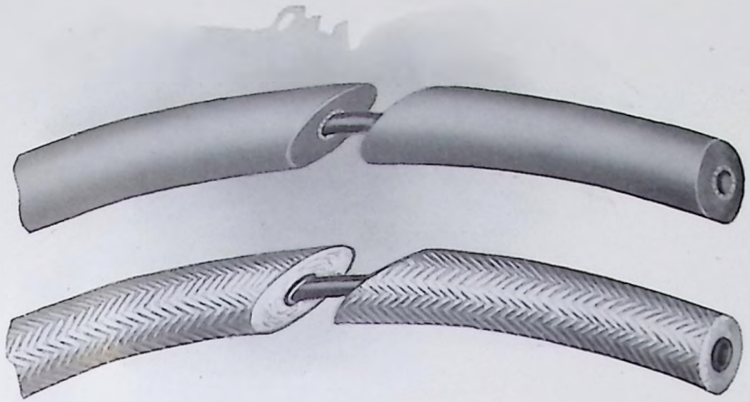
Inches	Pounds per 100 Feet	Inches	Pounds per 100 Feet
½ x ⅛	6	1⅛ x ⅛	14¼
¾ x ⅛	9¾	1¼ x ⅛	16
1 x ⅛	12½		



Asbestos Mill-Board Gaskets and Rings

MADE from $\frac{1}{32}$ inch to ½ inch thick. Sizes over 42 inches outside dimensions are specially built up to order instead of cut from material in sheet form. Specify outside and inside dimensions, and thickness desired. For irregular shapes furnish templet.

Prices on Application



Rakco Asbestos Tubular Gasketing

Style No. 40

FOR high-pressure steam service in emergency and repair work and on special machines. Beyond doubt one of the most useful supplies for either emergency or regular use, in any steam plant.

Built up on a soft lead core, over which are several layers of braided asbestos tubing specially treated to withstand high temperatures. Can be cut and fitted to any size or shape of manhole, handhole or flange making a reliable steam-tight joint in a few minutes.

To apply cut ends either square or on the bias, as may be convenient. Place tubing around the plate or flange about $\frac{3}{16}$ inch from the inside shoulder, insert lead dowel and tape together.

Put up in 5 and 10-pound boxes, including lead dowels and tape for joining together.

Can also be furnished on reels containing any number of feet.

Rakco Red Rubber Tubular Gasketing

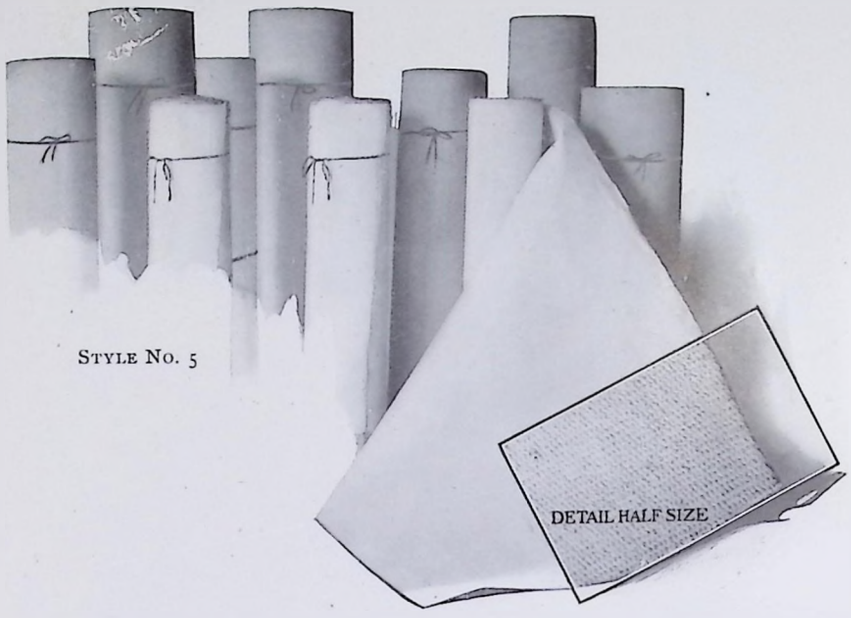
Style No. 41

FOR ordinary pressure. Equal in every respect to the different brands of this style of material on the market.

Put up in 5 and 10-pound boxes, including lead dowels and tape for joining together, $\frac{3}{8}$ inch for pipe unions, ½ inch for handhole plates, $\frac{5}{8}$ inch and ¾ inch for manhole plates.

Prices on Application

Robert A. Keasbey Company: Catalogue of Heat and Cold Insulation Materials, Asbestos, Flax and Rubber Packin… Published by AsbestosClaims.Law
ACL Doc 21292 · Page 40 of 52 asbestosclaims.law/library/21292/40



STYLE NO. 5

RAKCO ASBESTOS METALLIC SHEET PACKING

WE recommend this packing with every confidence for long life and unfailing service under high pressure and superheat conditions where other packings have failed to give satisfaction.

It is made from a specially twisted fine asbestos yarn which is reinforced with fine bronze wire and treated with a heat-resisting waterproof compound forming a perfect pressure-resisting joint which cannot blow out.

Also furnished graphited on one or both sides if desired, and without wire insertion.

FURNISHED 40 inches wide in rolls of 200 pounds each; 1/32, 1/16 and 1/8-inch carried in stock.

Approximate weight per square yard:

Inch	Pounds	Inch	Pounds
1/32	4½	3/16	14½
1/16	5	1/4	19
1/8	10		

Prices on Application

RAKCO RED AND BLACK ASBESTOS METALLIC SHEET PACKING

STYLE NO. 6

AN asbestos wire inserted cloth, treated with a red heat-resisting compound on one side and graphited on the other, for service on gas and gasoline engine cylinder heads. It is also adapted for service on high pressure steam. As the thinner a gas and gasoline engine sheet packing is, the better, the standard thickness of this material is 1/32 inch, weighing approximately 4½ pounds per square yard. Our material is closely woven as tightly as possible making a superior packing of this type.

FURNISHED 40 inches wide in rolls of 200 pounds each; 1/32 inch and 1/16 inch carried in stock.

RAKCO FIREPROOF SHEET PACKING

STYLE NO. 7

A PURE asbestos wire inserted cloth treated with an inorganic compound, making an absolutely fireproof sheet packing adapted for the severe conditions on gas and gasoline engine cylinder heads.

FURNISHED 40 inches wide in rolls of 200 pounds each.

STANDARD THICKNESS — 1/32 inch, weighing approximately 4 pounds per square yard. Made thicker if desired, to order.

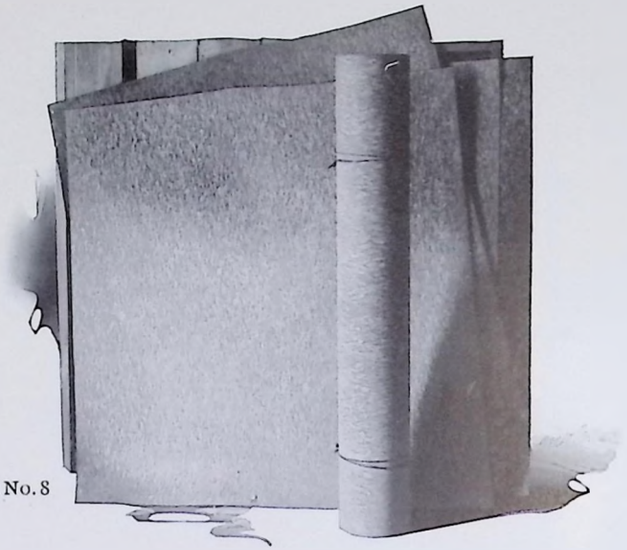
VULCANIZED FIBRE SHEET

FLEXIBLE — For hot or cold water, gas or oil joints. (Not a steam packing.) Furnished in sheets approximately 46 x 66 inches, 1/32 to 1½ inch thick.

HARD — For electrical insulation.

Prices on Application

Robert A. Keasbey Company: Catalogue of Heat and Cold Insulation Materials, Asbestos, Flax and Rubber Packin… Published by AsbestosClaims.Law
ACL Doc 21292 · Page 41 of 52 asbestosclaims.law/library/21292/41



STYLE NO. 8

RAKCO HI-TENSION SHEET PACKING

For High Pressure or Superheated Steam, Air, Gas, Oils, Ammonia, Alkalies, Caustic Liquids, Etc.

THIS material is a scientific composition whose ingredients are selected for their capacity to withstand the highest degree of heat generated by steam or air. It will not harden, crack or char in service, nor blow out under the most severe pressure, and is one of the few so-called compressed asbestos fibre sheet packings on the market that will keep pliable and not harden with age, as the plumbago preserves the life of the packing by protecting it from the atmosphere. It is composed of pure asbestos fibre, graphited throughout with only a very small percentage of organic matter to serve as a binder, and is compressed under exceedingly high pressure. It is impervious to solutions of potash, soda and ammonia, and has been tested up to 300 pounds pressure per square inch and 750 degrees Fahrenheit dry heat.

FURNISHED in sheets 42 x 42 and 42 x 120 inches, also in rolls 210 inches long, containing five sheets.

Inch	Per Square Yard Pounds	Inch	Per Square Yard Pounds
1/32	2 1/3	1/8	9 1/3
1/16	4 2/3	5/32	14
3/32	7	1/4	18 2/3

STYLE NO. 9

Same as above, except plain, *i. e.*, without graphite.

Prices on Application

RAKCO RED RUBBER SHEET PACKING

STYLE NO. 10 . . . . . Plain
STYLE NO. 11 . . . . . Wire Insertion

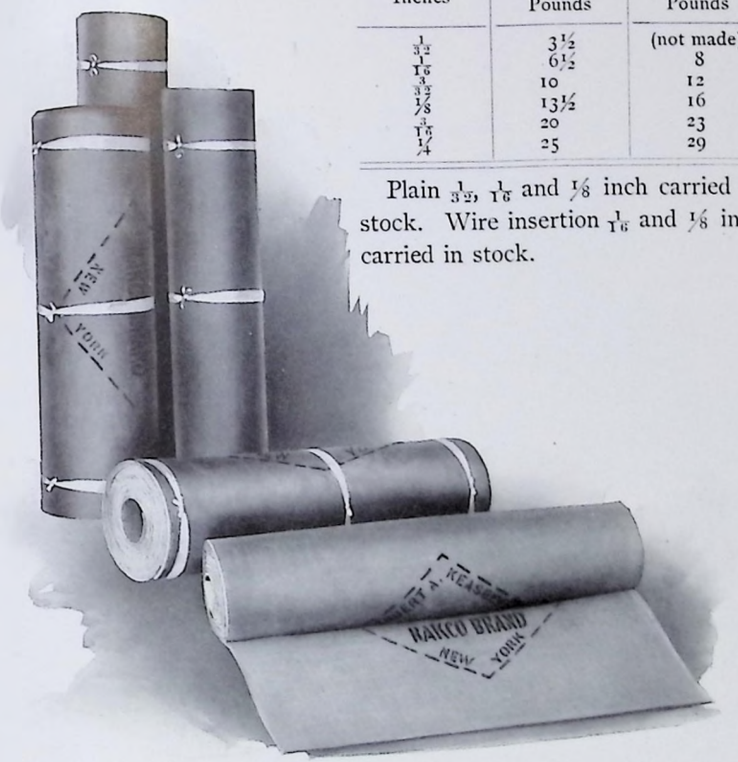
OUR grade of Red Rubber Sheet Packing, which is used in general mill work is equal, if not superior, to the best of the many brands of this class of packing now on the market.

FURNISHED 36 inches wide in rolls of 200 pounds each.

Approximate weight per square yard:

Inches	Plain Pounds	Wire Insertion Pounds
1/32	3 1/2	(not made)
1/16	6 1/2	8
3/32	10	12
1/8	13 1/2	16
5/32	20	23
1/4	25	29

Plain 1/32, 1/16 and 1/8 inch carried in stock. Wire insertion 1/16 and 1/8 inch carried in stock.



RAKCO RED RUBBER GASKETS AND RINGS

STYLE NO. 39

Cut from Rakco Red Rubber Sheet Packing

Robert A. Keasbey Company: Catalogue of Heat and Cold Insulation Materials, Asbestos, Flax and Rubber Packin…
ACL Doc 21292 · Page 42 of 52
Published by AsbestosClaims.Law
asbestosclaims.law/library/21292/42

Rakco Cloth Insertion Sheet Packing

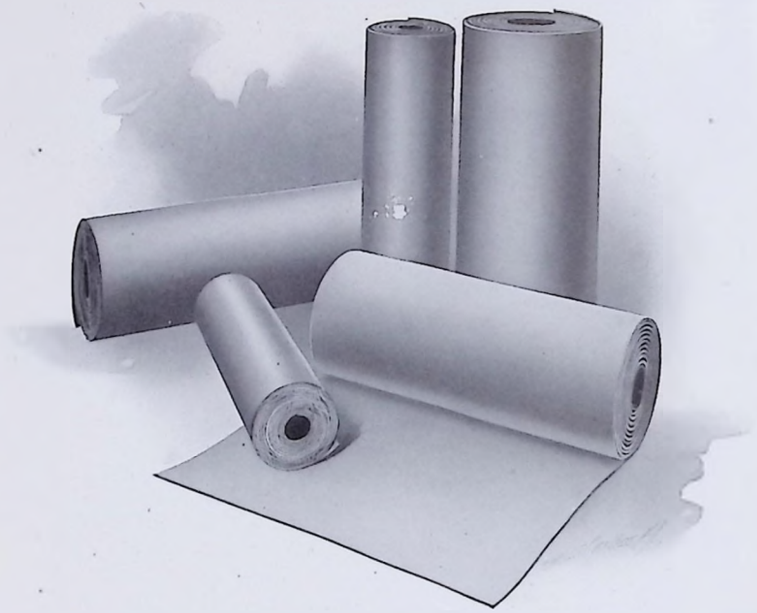
Style No. 18

Our stock grade of this material is of good quality that will meet the ordinary conditions required of this type of packing. We can, however, furnish a hydraulic sheet from the lowest priced, C. I., C. B. S. or C. O. S. packings to the highest grade of diaphragm sheet packing.

Furnished 36 inches wide in rolls of 200 pounds each.

Approximate weight per square yard:

Inch	Pounds	Inch	Pounds
1/32	3	1/8	10
1/16	6	3/16	16
3/32	7½	1/4	20



Ordinarily one ply of cloth to every 1/16 inch thickness. Cloth, whether used as an insertion, or on the outside, counts as a ply.

Rakco Cloth Insertion Gaskets and Rings

Style No. 37

Furnished in thicknesses from 1/16 to 1/4 inch.

Prices on Application

Endura Oil Sheet Packing

There are many cases where an ordinary packing cannot be used because of the presence of strong crude oils, gasoline, tar and other solvents.

Endura is a specially treated vegetable-fibre product that contains neither rubber or asbestos, consequently it neither rots nor softens under conditions that destroy other packings. In addition to its other qualities, Endura is proof against hot or cold water and calks perfectly both in water or oil. Its fibrous structure is extremely dense so that it packs firmly and will not carbonize or stick to the joint.

Endura cuts easily and is specially suitable for gaskets, making a neat, always tight joint. It is not, however, suited for steam or high temperatures but for general use in low temperature oil or water service it will be found unequalled.

Endura is only half the weight of rubber packing. It costs about one-third the price of other high-grade packings because 1 pound contains as many square feet as 2 pounds of ordinary sheet packings.

Weights per square yard of Endura:

Thickness—Inch	Weight—Pounds
1/64	¾ (rolls 36 or 40 inches wide)
1/32	1½ (rolls 36 or 40 inches wide)
1/16	3 (rolls 36 or 40 inches wide)
1/8	6 (sheets 36 x 36 inches)

These are the regular thicknesses but we can supply in any other to your order. We invite you to write for trial samples and prices, with full information as to its suitability for any specified purpose.

Diaphragm Sheet Packing

Style No. 19

Made of pure gum, heavy cloth insertion.

Prices on Application

Robert A. Keasbey Company: Catalogue of Heat and Cold Insulation Materials, Asbestos, Flax and Rubber Packin… Published by AsbestosClaims.Law
ACL Doc 21292 · Page 43 of 52 asbestosclaims.law/library/21292/43

Pure Rubber Sheet Packing or Valve Gum

Style No. 20

Furnished in rolls 1 yard wide and from 5 to 45 yards long. according to thickness. Standard thicknesses from $\frac{1}{64}$ to 1 ½ inches. Extra thicknesses and widths up to 72 inches furnished to order on short notice.

Pure Gum Packing

Either square or round, for porthole lights, etc.

Gauge Glass Washers

Round or square section.

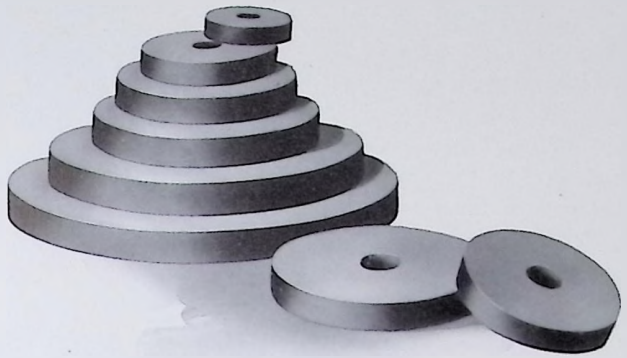
Corrugated Rubber Matting

Made in rolls 30 to 72 inches wide, about 40 yards long, $\frac{3}{32}$, ⅛, $\frac{3}{16}$, and ¼ inch thick, and to weigh about 7½, 10, 15 or 20 pounds per square yard, respectively.

Rakco Moulded Rubber Gaskets and Rings

Style No. 38

Prices on Application



Rakco Rubber Pump Valves

Black or Red

For pumping hot or cold water, air, oil, etc.

Style No. 350, extra soft, for cold water up to 75 pounds pressure, and warm water up to 180 degrees temperature, moderate pressure.

Style No. 351 . . . . Soft, for cold water up to 50 pounds pressure

Style No. 352 . Medium soft, for cold water up to 100 pounds pressure

Style No. 353 Medium hard, for cold water and high pressure up to 150 pounds.

Style No. 354 . . . . . Hard, for extremely high pressure

Style No. 355 . . . . . Extra hard, for hot water or steam

Style No. 356 . . . . . Condenser (red or gray)

Rakco Special Pump Valves and Discs

For service on steam up to 500 degrees Fahrenheit and 150 pounds pressure. Oil, water, acid and ammonia proof. The base of these is bakelite, a practically indestructible substance.

Prices on Application

Robert A. Keasbey Company: Catalogue of Heat and Cold Insulation Materials, Asbestos, Flax and Rubber Packin…
Published by AsbestosClaims.Law
ACL Doc 21292 · Page 44 of 52
asbestosclaims.law/library/21292/44

Steam Hose

PARTICULAR attention is directed to the composition and care in the manufacture of Rakco Brand Steam Hose. Our hose is non-vulcanizing and of long life. Different grades made to withstand various pressures.

Air Hose

Is made of a high-grade rubber tubing with cover of heavy duck or sheeting reinforcement. Designed to withstand the action of the oil sometimes found present in compressed air.

Water and Garden Hose

These hose are constructed of especially selected duck with a high grade rubber covering and are lined with a high quality rubber tubing.

We are in position to furnish any of the above commodities promptly at interesting prices, on application.



Our Contract Department

The success of any insulating covering depends very largely on the care with which it is applied. We maintain a well-organized contract department manned with a staff of expert workmen and under our own personal direction.

Some of these men have been with us over twenty years. They are used to the work and can therefore carry it out as a rule much quicker and better than ordinary contractors' laborers, who have no particular interest in their job.

We invite your enquiries and shall be glad to place the full resources of our establishment at your service, for the planning and execution of any insulation work you may have in contemplation. You will in this way ensure that the specifications of your engineer and architect are rigidly carried out at the lowest possible cost consistent with good workmanship.

We are prepared to execute contracts of any magnitude in any part of the country.

Marine Department

Our Marine Department is the largest of its kind in the country. Our work includes the greater part of the vessels using the port of New York, from the largest liners down to the smallest class of tugs or steam barges.

We know from experience just how to execute all marine jobs in the shortest time and in the best possible manner to meet the strenuous demands of sea service and we specially invite the attention of ship owners, agents, superintendents and engineers to our superior facilities for the execution of marine contracts, large or small.

Practical Information on Applying 85% Magnesia Coverings

To obtain the maximum efficiency from the use of 85% Magnesia coverings, care must be taken to avoid either insufficient or improper application.

High pressures and high temperatures call for thicker coverings in order to counteract the difference between the interior and the exterior temperatures, just as a man wears heavier clothing in winter than in summer.

If, in the first place, the covering be correctly applied and of the proper thickness for the service demanded, no possible future trouble can ensue, because unlike many other covering materials 85% Magnesia does not deterioriate with age, but always retains its original efficiency. 85% Magnesia covering, removed after a quarter century of constant use, has been found in just as perfect condition as when originally applied.

The following information is abridged from the "Magnesia Association Specification" which covers the subject fully. Copies of that Specification will be sent to architects or engineers on request.

Robert A. Keasbey Company: Catalogue of Heat and Cold Insulation Materials, Asbestos, Flax and Rubber Packin… Published by AsbestosClaims.Law
ACL Doc 21292 · Page 45 of 52 asbestosclaims.law/library/21292/45

Price Lists

Adopted August 1, 1907

85% Magnesia Pipe Coverings

Inside Diam. of Pipe Inches	Standard Thickness		1½-inch Thick		2-inch Thick		Double Standard		Double 1½-inch Thick	
	Thickness of Covering Inches	Price per Lineal Foot Canvas Jacketed	Thickness of Covering Inches	Price per Lineal Foot Canvas Jacketed	Thickness of Covering Inches	Price per Lineal Foot Canvas Jacketed	Thickness of Covering Inches	Price per Lineal Foot Canvas Jacketed	Thickness of Covering Inches	Price per Lineal Foot Canvas Jacketed
½	⅞	$0.22	1½	$0.46	2	$0.75	1¾	$0.65	3	$1.20
¾	⅞	.24	1½	.49	2	.80	1¾	.70	3	1.35
1	⅞	.27	1½	.52	2	.85	1¾	.75	3	1.40
1¼	⅞	.30	1½	.56	2	.90	1¾	.80	3	1.45
1½	⅞	.33	1½	.60	2	.95	1¾	.85	3	1.55
2	1 3/16	.36	1½	.64	2	1.00	2 1/16	.90	3	1.65
2½	1 3/16	.40	1½	.70	2	1.05	2 1/16	1.00	3	1.75
3	1 3/16	.45	1½	.76	2	1.15	2 1/16	1.10	3	1.90
3½	1 3/16	.50	1½	.82	2	1.25	2 1/16	1.20	3	2.05
4	1⅛	.60	1½	.88	2	1.35	2¼	1.40	3	2.20
4½	1⅛	.65	1½	.94	2	1.45	2¼	1.50	3	2.35
5	1⅛	70	1½	1.00	2	1.55	2¼	1.60	3	2.50
6	1⅛	.80	1½	1.10	2	1.70	2¼	1.80	3	2.70
7	1¼	1.00	1½	1.20	2	1.85	2½	2.25	3	2.90
8	1¼	1.10	1½	1.35	2	2.00	2½	2.50	3	3.15
9	1¼	1.20	1½	1.50	2	2.20	2½	2.70	3	3.40
10	1¼	1.30	1½	1.65	2	2.40	2½	2.90	3	3.65
*12	1½	1.85	1½	1.85	2	2.70	3	4.10	3	4.10
14	1½	2.10	1½	2.10	2	3.00	3	4.60	3	4.60
16	1½	2.35	1½	2.35	2	3.30	3	5.10	3	5.10
18	1½	2.60	1½	2.60	2	3.60	3	5.60	3	5.60
20	1½	2.85	1½	2.85	2	4.00	3	6.00	3	6.00
24	1½	3.30	1½	3.30	2	4.50	3	7.00	3	7.00
30	1½	4.00	1½	4.00	2	5.50	3	8.40	3	8.40

*All coverings larger than 10 inches furnished in segment form; jackets and bands not included.

Double standard thickness—the inner layer is furnished in sections for pipe sizes up to and including 10 inches, and in curved blocks for larger sizes. The outer layer is furnished in sections for pipe sizes up to and including 8 inches, and in curved blocks for larger sizes.

Double 1½-inch thickness—the inner layer is furnished in sections for pipe sizes up to and including 10 inches, and in curved blocks for larger sizes. The outer layer is furnished in sections for pipe sizes up to and including 7 inches, and in curved blocks for larger sizes.

Standard Price List for 1-Inch Thick Low Pressure and Cold Water Sectional Covering

Inside Diameter of Pipe—Inches	Price per Lineal Foot	Inside Diameter of Pipe—Inches	Price per Lineal Foot
½	$0.22	6	$0.80
¾	.24	7	1.00
1	.27	8	1.10
1¼	.30	9	1.20
1½	.33	10	1.30
2	.36	12	1.85
2½	.40	14	2.10
3	.45	16	2.35
3½	.50	18	2.60
4	.60	20	2.85
4½	.65	24	3.30
5	.70	30	4.00

Coverings less than 1 inch thick take same list as 1 inch thick. Net price determined by discount.

Price List for All Blocks and Boards

Namely, 85% Magnesia Blocks and Segments, Asbestos Moulded Blocks, Air Cell and Carocel Boards

Thickness Inches	Price per Square Foot	Thickness Inches	Price per Square Foot	Thickness Inches	Price per Square Foot	Thickness Inches	Price per Square Foot
⅞	$0.30	1⅝	$0.49	2¼	$0.68	2⅞	$0.87
1	.30	1¾	.53	2⅜	.72	3	.90
1⅛	.34	1⅞	.57	2½	.75	3¼	.98
1¼	.38	2	.60	2⅝	.79	3½	1.05
1⅜	.42	2⅛	.64	2¾	.83	4	1.20
1½	.45						

Robert A. Keasbey Company: Catalogue of Heat and Cold Insulation Materials, Asbestos, Flax and Rubber Packin…
ACL Doc 21292 · Page 46 of 52
Published by AsbestosClaims.Law
asbestosclaims.law/library/21292/46

Service Details for Armorak and Cork Sectional Coverings

THESE types of coverings are manufactured in different thicknesses to meet different service conditions. If satisfactory results are to be obtained, the proper thickness must be used and the material carefully applied.

1. Brine Covering, from 2 to 3 inches thick, is designed for brine and ammonia gas lines, and generally where the refrigerant has a temperature below 25 degrees Fahrenheit.

2. Ice Water Covering, approximately 1½ inches thick, is intended for use on refrigerated drinking water, liquid ammonia and beer lines, and generally where temperatures of 25 to 45 degrees Fahrenheit are carried.

3. Cold Water Covering, for pipes up to and including 4 inches in size, approximately 1 inch thick, is for use on cold water piping to prevent sweating; for sizes above 4 inches use ice water covering Made in Armorak only.

4. Special Thick Brine Covering, from 3 to 4 inches in thickness, is manufactured to meet a demand for extra heavy covering for brine lines, where, owing to the temperature of the refrigerant, the service conditions are particularly severe.

In laying out pipe lines ample space should be allowed to permit the application of covering of proper thickness.

Price List

Size in Inches	Per Lineal Foot	Size in Inches	Per Lineal Foot	Size in Inches	Per Lineal Foot	Size in Inches	Per Lineal Foot
¼	J $0.40	1½	J $0.85	4½	J $1.60	10	L $4.00
⅜	J .45	2	J .95	5	J 1.80	12	L 4.40
½	J .50	2½	J 1.05	6	J 2.00	14	L 4.75
¾	J .55	3	J 1.15	7	J 2.20	16	L 5.15
1	J .65	3½	J 1.30	8	J 2.50		
1¼	J .75	4	J 1.45	9	L 3.75		

All Armorak is made in sectional jacket form. Cork coverings are made in sectional jacket form up to and including 8-inch size. Above in mitered lagging.

Fittings for Armorak and Cork

Screwed Fittings

Size in Inches	Ell	Tee	Globe or Angle Valve	Gate Valve	Cross	45 Degrees Ell	Special Fittings and Long Turn Ells and Tees	Extra Long Sweep Ells and Tees
¼	J $ .55	J $ .60	J $ .65	J $ .65	J $ .95	J $ .55	J $1.20	J $2.40
⅜	J .60	J .70	J .75	J .75	J 1.05	J .60	J 1.40	J 2.80
½	J .65	J .75	J .85	J .85	J 1.15	J .65	J 1.50	J 3.00
¾	J .75	J .85	J .95	J .95	J 1.25	J .75	J 1.70	J 3.40
1	J .85	J .95	J 1.05	J 1.05	J 1.35	J .85	J 1.90	J 3.80
1¼	J .95	J 1.05	J 1.15	J 1.15	J 1.55	J .95	J 2.10	J 4.20
1½	J 1.05	J 1.15	J 1.25*	J 1.25	J 1.80	J 1.05	J 2.30	J 4.60
2	J 1.15	J 1.30	J 1.45*	J 1.45†	J 2.10	J 1.15	J 2.60	J 5.20
2½	J 1.25	J 1.45	J 1.65*	J 1.65†	J 2.35	J 1.25	J 2.90	J 5.80
3	J 1.40	J 1.60	J 1.90*	J 1.90†	J 2.65	J 1.35	J 3.20	J 6.40
3½	J 1.60	J 1.85	J 2.20*	J 2.20	J 2.90	J 1.60	J 3.70	J 7.40
4	J 1.85	J 2.15	J 2.50*	J 2.50	J 3.15	J 1.85	J 4.30	J 8.60
4½	J 2.10	J 2.45	J 2.80*	J 2.80	J 3.65	J 2.10	J 4.90	J 9.80
5	J 2.40	J 2.75	J 3.20*	J 3.20	J 4.20	J 2.40	J 5.50	J 11.00
6	J 2.75	J 3.15	J 3.60*	J 3.60	J 4.70	J 2.75	J 6.30	J 12.60
7	L 11.85	L 18.10	L 25.75	L 32.00	L 22.00	L 8.00	L 27.15	L 36.20
8	L 14.00	L 20.20	L 31.50	L 36.50	L 25.50	L 9.50	L 30.15	L 40.20
9	L 17.00	L 23.75	L 38.50	L 44.00	L 31.00	L 10.75	L 36.00	L 47.50
10	L 18.50	L 25.50	L 45.50	L 51.50	L 35.00	L 11.50	L 38.25	L 51.00
12	L 22.50	L 31.50	L 52.75	L 59.60	L 39.75	L 14.50	L 48.00	L 63.00
14	L 24.25	L 34.00	. . .	. . .	L 44.00	L 15.75	L 51.00	L 68.00
16	L 28.25	L 38.75	. . .	. . .	L 49.50	L 17.25	L 58.00	L 77.50

Flanged Fittings

Size in Inches	Flange Cover	Ell	Tee	Globe or Angle Valve	Gate Valve	Cross	45 Degree Ell	Special Fittings and Long Turn Ells and Tees	Extra Long Sweep Ells and Tees
¼	J $ .90	J $2.60	J $3.10	J $3.60	J $3.60	J $4.60	J $2.60	J $4.15	J $8.30
⅜	J .90	J 2.60	J 3.10	J 3.60	J 3.60	J 4.60	J 2.60	J 4.15	J 8.30
½	J .90	J 2.60	J 3.10	J 3.60	J 3.60	J 4.60	J 2.60	J 4.15	J 8.30
¾	J 1.00	J 3.10	J 3.60	J 4.10	J 4.10	J 5.40	J 3.10	J 4.65	J 9.30
1	J 1.15	J 3.60	J 4.10	J 4.60	J 4.60	J 6.15	J 3.60	J 5.15	J 10.30
1¼	J 1.30	J 4.10	J 4.60	J 5.10	J 5.10	J 6.90	J 4.10	J 5.65	J 11.30
1½	J 1.45	J 4.60	J 5.10	J 5.80	J 5.80	J 7.65	J 4.60	J 6.40	J 12.80
2	J 1.60	J 5.10	J 5.80	J 6.55*	J 6.55†	J 8.60	J 5.10	J 7.15	J 14.30
2½	J 1.75	J 5.80	J 6.55	J 7.30*	J 7.30†	J 9.60	J 5.80	J 8.10	J 16.20
3	J 1.90	J 6.50	J 7.30	J 8.50*	J 8.50†	J 10.60	J 6.50	J 9.30	J 18.60
3½	J 2.10	J 7.25	J 8.50	J 9.75*	J 9.75	J 12.05	J 7.25	J 10.60	J 21.20
4	J 2.40	J 8.50	J 9.75	J 11.00*	J 11.00	J 13.50	J 8.50	J 12.10	J 24.25
4½	J 2.70	J 9.75	J 11.00	J 12.45*	J 12.45	J 15.00	J 9.75	J 13.80	J 28.00
5	J 3.10	J 11.00	J 12.45	J 14.15*	J 14.15	J 17.00	J 11.00	J 15.75	J 32.00
6	J 3.60	J 12.90	J 14.15	J 15.90*	J 15.90	J 19.00	J 12.00	J 17.75	J 36.00
7	L 5.50	L 16.00	L 22.50	L 27.80	L 34.25	L 28.75	L 13.00	L 20.50	L 40.00
8	L 5.80	L 19.00	L 26.50	L 33.25	L 39.25	L 34.25	L 14.50	L 31.00	L 44.00
9	L 6.20	L 22.00	L 31.25	L 39.75	L 45.35	L 39.75	L 16.00	L 35.75	L 48.00
10	L 6.60	L 24.50	L 34.00	L 47.00	L 49.35	L 44.00	L 18.50	L 41.00	L 52.00
12	L 7.00	L 29.25	L 41.25	L 55.50	L 60.15	L 52.50	L 20.25	L 47.25	L 64.00
14	L 7.50	L 40.50	L 57.50	. . .	L 70.95	L 73.75	L 33.50	L 64.50	L 74.00
16	L 8.00	L 46.75	L 65.75	. . .	L 83.75	L 85.25	L 37.75	L 73.75	L 85.50

Cork Details. J—Molded Cork Jackets. L—Hevelled Cork Lagging. *When ordering these sizes, specify whether valve has screwed or bolted bonnet. Covers for valves smaller than 2 inches made for screwed bonnets only; for valves larger than 6 inches, bolted bonnets only. †Covers for gate valves smaller than 2 inches made for screwed bonnets only; those for 2, 2½ and 3 inches, may be used for either screwed or bolted bonnets; those for sizes larger than 3 inches made for bolted bonnets only.

Reducing fittings take price of largest dimension. Extra heavy screwed fittings, ¼ to 6 inches, inclusive, take price of next size larger fitting on above list. All prices include paint, seam filler, copper clad steel wire and waterproof cement for proper application, and brine putty where necessary. Where pipes are too close together, or too near adjacent surfaces, to permit the ready application of regular sectional covering, cork centers are furnished, up to and including 8 inches, at above list prices, subject to usual discount.

ARMORAK fittings are made by the built-up method as described on page 43
Above prices subject to usual discount

Robert A. Keasbey Company: Catalogue of Heat and Cold Insulation Materials, Asbestos, Flax and Rubber Packin…
Published by AsbestosClaims.Law
ACL Doc 21292 · Page 47 of 52
asbestosclaims.law/library/21292/47

Correct Thickness and Methods of Application of 85% Magnesia Covering for every kind of Steam Service

TABLE NO. 1

85% MAGNESIA COVERINGS FOR STEAM PIPES

For	Size of Pipe Inches	Thickness First Coat Inches	Kind	Extra Covering Inches	Total Thickness Inches	Notes on Application
Pressures to 100 pounds *(Standard thickness)	½ to 1½	⅞	Sectional	. . .	⅞	
	2 to 3½	1 1/2	Sectional	. . .	1 1/2	
	4 to 6	1⅜	Sectional	. . .	1⅜	
	7 to 10	1¼	Sectional	. . .	1¼	
	Larger sizes	1½	Segments	. . .	1½	
Heating systems	. . .	As above	. . .	. . .	. . .	
Pressures 100-150 pounds	All sizes	Double standard thickness		1½		All joints broken (butt and lateral). First layer wired on with No. 18 wire. All cracks filled with plastic 85% Magnesia.
150 pounds and over	All sizes	1½	Sectional	Sectional	3	
Superheat	All sizes	Double 1½	Sectional	½ plastic	3½	
Drips (Superheat)	All sizes	1½	Sectional	½ plastic	2	
Drips (Saturated)	*See standard thickness (above)					
Boiler-feed	*See standard thickness (above)					
Exhaust	*See standard thickness (above)					
Return	*See standard thickness (above)					

YOUR plant works about 10 hours a day for 300 days in the year, but heat escapes the whole 24 hours every day of the whole 365.

TABLE NO. 2

85% MAGNESIA COVERINGS FOR BOILERS, DRUMS, ETC.

For	Thickness First Coat Inches	Kind	Extra Covering Inches	Total Thickness Inches	Notes on Application
Boilers and Drums	2	Block	1 plastic	3	Finished with hard finishing cement to tops of walls, etc.
Drum-ends	3	Block and plastic, or all plastic	. . .	3	Wired on. Finished as above.
Boiler Walls	2	Block and plastic, or all plastic	. . .	2	Apply on expanded metal lath or V-rib netting. Case with metal to 4 feet from floor.
Breechings	. . .	(See Boilers)		. . .	On ½-inch wire-cloth with 1-inch V-iron attached.
HEATING SYSTEMS Heaters, Receivers, Return-tanks, Traps, etc.	minimum 1½	. . .	. . .	To equal thickness of pipe covering	
Air-ducts, Flues, Fan Casings, Coils, etc.	1	Block	. . .	1	Wired on with No. 18 galvanized wire. All joints pointed with plastic. Edges protected with light metal L-edging.

COAL is the biggest single item of power production. Even a small percentage of coal saved means a large proportion of your total expenses.

The cost of coverings comes but once in their lifetime. Losses from unprotected pipes go on forever. Stopping your machinery doesn't stop your heat-losses. 85% Magnesia does.

Lost heat means wasted coal. You will never know how much coal you are wasting until you defend your steam with proper coverings.

Robert A. Keasbey Company: Catalogue of Heat and Cold Insulation Materials, Asbestos, Flax and Rubber Packin…
Published by AsbestosClaims.Law
ACL Doc 21292 · Page 48 of 52
asbestosclaims.law/library/21292/48

Table No. 3

85% Magnesia Coverings for Flanges and Fittings

Fittings	Thickness Inches	How Applied	Finish
Superheat	2½	Blocks and plastic, or all plastic	Canvas Jacket
Superheat Drips	2	As above	Rosin paper and canvas
Saturated (150 pounds and over)	2½	As above	Canvas
Ditto (100 pounds)	2	As above	Canvas
Ditto (less than 100 pounds)	As pipes	As above	Canvas
Saturated Drips	1½	As above	Rosin paper and canvas
FLANGES For Superheat and Saturated steam over 100 pounds	2	Blocks and plastic or all plastic, applied on frames of ½-inch wire netting	Canvas
Less than 100 pounds	As pipe	As above	Canvas
Heating Service	As pipe	Blocks and plastic wired on	Canvas
EXHAUST Fittings or Flanges	As pipe	Blocks and plastic or frames of ½-inch wire	All plastic, applied on netting

Finish for All Pipes

CANVAS JACKET—All 85% Magnesia coverings shall be finished with standard canvas jacket.

EXTRA COVERING—An extra covering of heavy canvas sewed on over rosin-sized paper backing, with approximately three stitches per inch, also affords greatly increased protection.

PAINTING—All canvas coverings should be sized and painted two coats of standard lead-and-oil color.

BANDS—Where no extra canvas jacket is used metal bands shall be applied at distances not exceeding 18 inches apart.

BOLTS, MANHOLES, ETC.—All coverings should be neatly cut away and beveled to allow sufficient space for removal without injury to the covering.

Explanation of Tables and Curves

The thicknesses given in these tables and curves are the proper thickness for the maximum net saving for each condition. They are based on a period of service of 8760 hours per year. Where pipes are cold part of the year, multiply the cost of coal by the number of hours per year the pipes are hot and divide by 8760; use the value obtained instead of the actual coal cost. Twenty per cent of the list cost has been allowed as the cost of application, and 13% of the total cost for the annual fixed charges (6% interest, 5% depreciation, 2% miscellaneous). The value of the heat-losses used in calculating the net savings are based on a series of experiments, covering a period of two years, made for the Magnesia Association of America by the Mellon Institute of Industrial Research of the University of Pittsburgh.

The tables below are for use in plants where costs are not accurately known. They are based on average conditions. In transforming the steam cost to coal cost, it has been assumed that 75% of the cost of steam is coal cost, that one pound of coal will evaporate seven pounds of water, and that each pound of steam contains 1000 British thermal units above the feed-water temperature.

The curves on the opposite page are for use in plants where heat-costs, steam temperatures, etc., are accurately known. They are applicable to all heated surfaces since they are based on the temperature of the surface and the value of the heat in dollars per 1,000,000 British thermal units.

Thickness of 85% Magnesia for Maximum Net Saving

Size Pipe Inches	Hot Water 175 Degrees Fahrenheit Inches	Steam 5 Pounds Inches	Steam 100–200 Pounds Inches	200 Pounds 150 Degrees Fahrenheit Superheat Inches	200 Pounds 300 Degrees Fahrenheit Superheat Inches
Coal at $2.00 per ton					
¾	S	S	S	S	S
1½	S	S	S	S	2
3	S	S	S	1½	2
6	S	S	1½	2	2
12	S	S	2	2	3
24	S	S	2	3	3
Flat	⅞	1½	2	3	3½
Coal at $4.00 per ton					
¾	S	S	S	1½	2
1½	S	S	1½	2	2
3	S	S	2	2	3
6	S	S	2	3	3
12	S	S	3	3	4
24	S	S	3	4	4
Flat	2	2	3	4	4½
Coal at $6.00 per ton					
¾	S	S	1½	2	2
1½	S	S	1½	2	3
3	S	1½	2	3	3
6	S	2	2	3	4
12	1½	2	3	4	4
24	2	3	3	4	5
Flat	2½	3	4	5	5½
Coal at $8.00 per ton					
¾	S	1½	1½	2	3
1½	S	1½	2	3	3
3	1½	2	3	3	4
6	1½	2	3	4	4
12	2	3	3	4	5
24	2	3	4	5	6
Flat	2½	3½	4½	5½	6½

S—Standard Thickness

How to Use This Table

Determine the following factors in connection with the heated surfaces to be covered: cost of coal, steam-pressure and size of pipes.

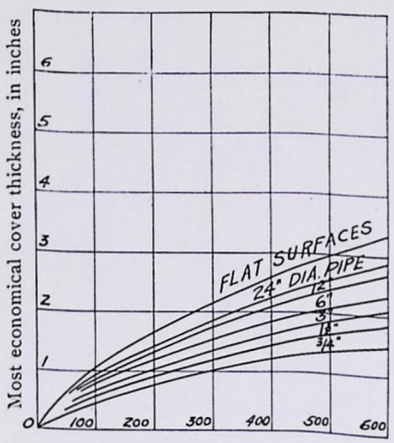
Select the table most nearly corresponding to the cost of coal, and the column in the table nearest to the condition of steam-pressure or temperature. The thicknesses in this column are the proper thicknesses for the pipe sizes given at the left.

Example—Cost of coal $1.75, steam-pressure 150 pounds, size of pipe 12 inches. Select the $4.00 per ton table, and the third column headed, steam 100-200 pounds. Run down this column to the 12-inch line and find the proper thickness for maximum net saving to be 3 inches.

Robert A. Keasbey Company: Catalogue of Heat and Cold Insulation Materials, Asbestos, Flax and Rubber Packings (1919)
ACL Doc 21292 · Page 49 of 52
Published by AsbestosClaims.Law
asbestosclaims.law/library/21292/49

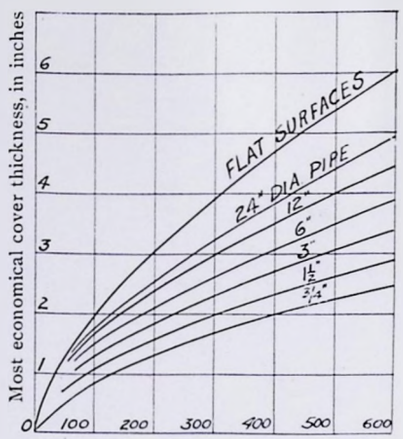
Thickness of 85% Magnesia for Maximum Net Saving

For use in Plants where Heat Costs, Steam Temperatures, Etc., are accurately known



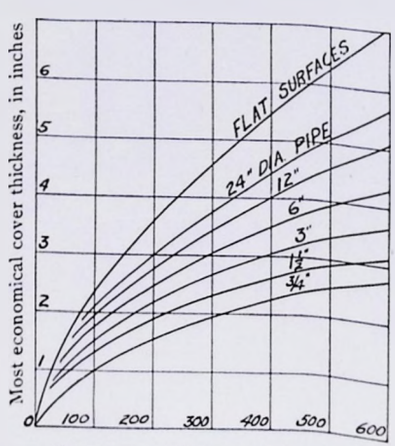
Temperature difference, pipe to air in degrees Fahrenheit

Steam at 20 cents per million B. t. u.



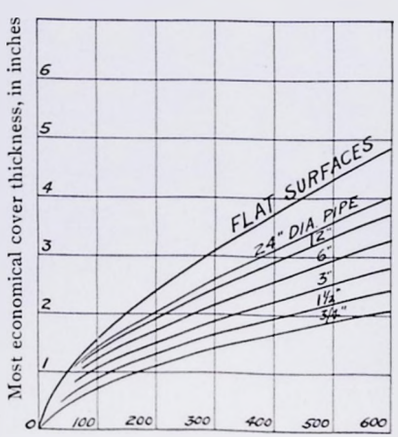
Temperature difference, pipe to air in degrees Fahrenheit

Steam at 40 cents per million B. t. u.



Temperature difference, pipe to air in degrees Fahrenheit

Steam at 60 cents per million B. t. u.



Temperature difference, pipe to air in degrees Fahrenheit

Steam at 80 cents per million B. t u.

Index

	PAGE
Insulation Materials	
Anti-sweat Sectional Covering	25
Argentum Insulation for Underground Piping	33, 34, 35, 36
Armorak Sectional Coverings	42, 43
Service Details	88
Asbestos	7
Asbestos Air-cell Board	18
Asbestos Air-cell Sectional Covering	17
Asbestos Corrugated Paper	19
Asbestos Insulating Cement	16
Asbestos Mill Board	32
Asbestos Moulded Blocks	15
Asbestos Moulded Sectional Covering	14
Asbestos Paper Ribbon	31
Asbestos Paper and Roll Board	30
Brine, Ammonia and Ice Water Insulations	42, 43, 44
Carocel Board	22
Carocel Sectional Pipe Covering	21
Cements	16
Combino Train Pipe Covering	28
Cork Sectional Covering	44
Service Details	88
85% Magnesia	8, 10, 11, 12, 13
Efficiency Data	90, 91, 92, 93, 94
Exposed Pipe Protection against Freezing	45
Furnace and Stove Lining Cement	39
Hair Felt	46
Hard Finish Cement	16
High Temperature Cement	38
Hot Blast Cement	39
Mineral Wool	41
Outdoor Pipe Insulation—Protection	37
Paints—Cold Water	40
Paste—Rakco Export	40
Plant Efficiency	9
Price Lists	86, 87, 89
Protecto Sectional Covering	26
Pyrex Asbestos Sectional Covering	29
Retort Cement	38
Train Pipe Covering Combino	28
Train Pipe Covering Rakco Standard	27
Vitrified Asbestos Air-Cell Board	20
Wool Felt Sectional Covering—Asbestos and Tar Lined	23, 24
Price Lists	86, 87
Asbestos Textiles	
Brake Band Lining	49
Cloth—Plain and Metallic	50
Cord	48
Gloves and Mittens	49
Listing	50
Rope and Wick Packings	51, 52
Thread Incandescent Mantle	48
Tubing, Braided	51
Twine, Sewing	48
Yarn	48
Yarn—Spark Plug, Wire Inserted	48
Spiral, Ring and Coil Packings	
Air Pump Packing	69
Combination, High Pressure, Ring	59
Diagonal Cut or Double Ring Packing	61
Diagonal High or Low Pressure	58
Extra Ring and Spiral Packing	62
Flax Packing, Braided	66
Flax Packing, Hydraulic	67
Flexible Metallic Ring Packing	70
Flexible Metallic Twisted Packing	70
High Pressure, Coil	56, 57
High Pressure Spiral and Ring Packing	54, 55

Robert A. Keasbey Company: Catalogue of Heat and Cold Insulation Materials, Asbestos, Flax and Rubber Packin… Published by AsbestosClaims.Law
ACL Doc 21292 · Page 50 of 52 **asbestosclaims.law/library/21292/50**

ROBERT A.
KEASBEY CO.

INDEX—*Continued*

SPIRAL, RING AND COIL PACKINGS—*Continued*

	PAGE
Hydraulic Packing, Special	65
Instructions When Ordering	53
Locomotive Throttle Packing	69
Low Pressure, Spiral and Ring	60
Octagon and Steam Hammer Ring Packing	61
Oval Gum Core Packing	63
Paste, Metallic	70
Plastic Metallic Packing	70
Plunger Ring Packing, Solid	65
Red Core Spiral Packing	63
Reinforced Ring and Spiral Packing	62
Sectional or Double Ring Packing	61
Semi-Metallic Packing	70
Tucks Packing	64
Thong Packing—Plaited	70
Valve Stem Packing—Braided and Twisted	68

GASKETS AND SHEET PACKINGS—GASKETS

Asbestos Metallic	72, 73
Cloth Insertion	80
Gasketing Tape	74
Millboard	74
Red Rubber	79
Rubber Moulded	82
Tubular, Asbestos	75
Tubular Red Rubber	75

SHEET PACKINGS

Asbestos Metallic	76
Cloth Insertion	80
Diaphragm	81
Endura Oil	81
Fireproof	77
Hi-tension	78
Pure Gum	82
Pure Rubber	82
Red and Black Asbestos Metallic	77
Red Rubber	79
Vulcanized Fibre	77

GAUGE GLASS WASHERS	82
MATTING, CORRUGATED RUBBER	82
VALVES, RUBBER, PUMP	83
HOSE—STEAM, AIR, WATER AND GARDEN	84
CONTRACT DEPARTMENT	85
MARINE DEPARTMENT	85
PRACTICAL INFORMATION	85
TECHNICAL DATA	90, 91, 92, 93, 94

ACCESSORIES

WE carry a stock of all necessary accessories, used in connection with the application of insulating materials, such as :

HEAVY AND LIGHT COTTON DUCKS.
TAR AND ROSIN SIZED BUILDING PAPERS.
SEWING AND WRAPPING TWINES.
BUILT-UP ROOFING PAPERS.
WIRE (hexagonal, building, air space and lath).
BANDS FOR FASTENING (brass, brass lacquered and black).
STAPLES.
CABLES.
COLD WATER PASTE AND PAINTS.

Prices on Application



Published by AsbestosClaims.Law
asbestosclaims.law/library/21292/52