

BELMONT

M E C H A N I C A L

PACKINGS

FOR EVERY INDUSTRIAL REQUIREMENT

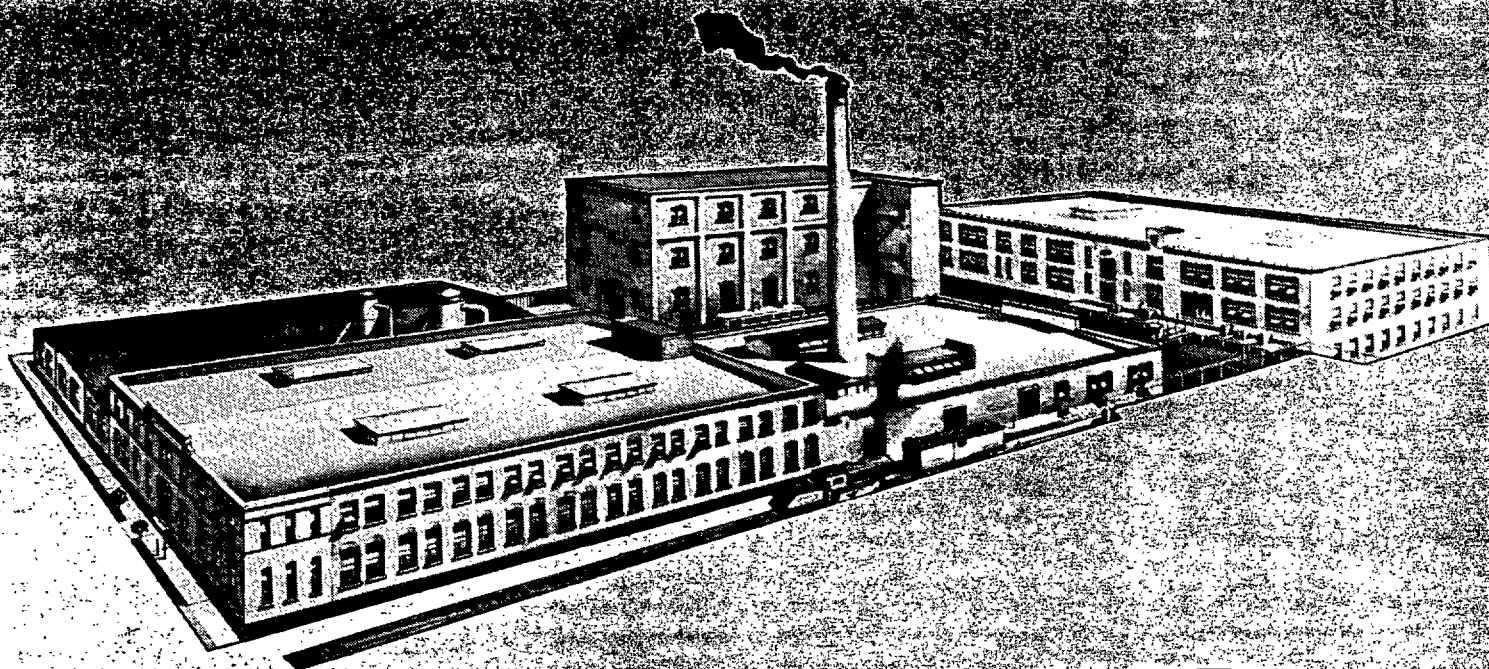


DISTRIBUTED BY
The STERLING RUBBER PRODUCTS CO.

1 S. Ludlow at Bruen

Phone Adams 4296

Dayton, Ohio



Just as Belmont Packings are uniform in quality, so are they, wherever practicable, uniformly packed in attractive and secure boxes bearing our orange colored trade-mark on a blue background.



In offering this catalog to you, we emphasize a few salient objectives to aid you in the use of this book. The features embodied in the product are expounded in the initial paragraph of each specific Belmont style. Every type of packing incorporates distinctive mechanical principles or otherwise has a definite place in our line, all of which are defined.

Under the caption "CONSTRUCTION" are given the materials used and details of manufacture. On lubricated packings, the manner in which lubricants are applied and the range of packing space sizes are also set forth.

The specific uses are stated under the caption "APPLICATION."

To assure economical and efficient service, it is important that the various constructions of packings be applied to the conditions of service for which they are intended.

Belmont Rod, Shaft, Plunger and Piston Packings are furnished in various forms, namely, ring, set, coil, spiral, reel and spool as illustrated and described under specific style numbers in this catalog. In ordering, state style number and be guided by the following:

Coil Form—Give dimension of packing space. Coil packings are supplied in steps of $\frac{1}{16}$ inch. Coil packings are furnished in flat boxes, except braided types in sizes under $\frac{5}{16}$ " which are wound on 5 lb. spools for convenience in handling.

Spiral Form—Give dimension of packing space. Spiral packings are supplied in steps of $\frac{1}{16}$ inch.

Ring Form—Give diameter of rod and inside diameter of stuffing box together with thickness of ring required.

Set Form—Give diameter of rod, and inside diameter of stuffing box and depth of stuffing box.

Reel Form—Give size of packing and quantity in pounds or feet. Packings on reels are supplied in steps of $\frac{1}{16}$ inch.

Spool Form—Give size of packing and quantity in pounds. Spool packings are supplied on $\frac{1}{4}$, $\frac{1}{2}$, 1, 2 and 5 pound spools.

Gaskets are made from many materials and in many shapes. For oval shape, give the two inside measurements, width of flange and thickness. For round gaskets, give the inside diameter, outside diameter and thickness. For special shapes, submit blueprints, templates or specimens.

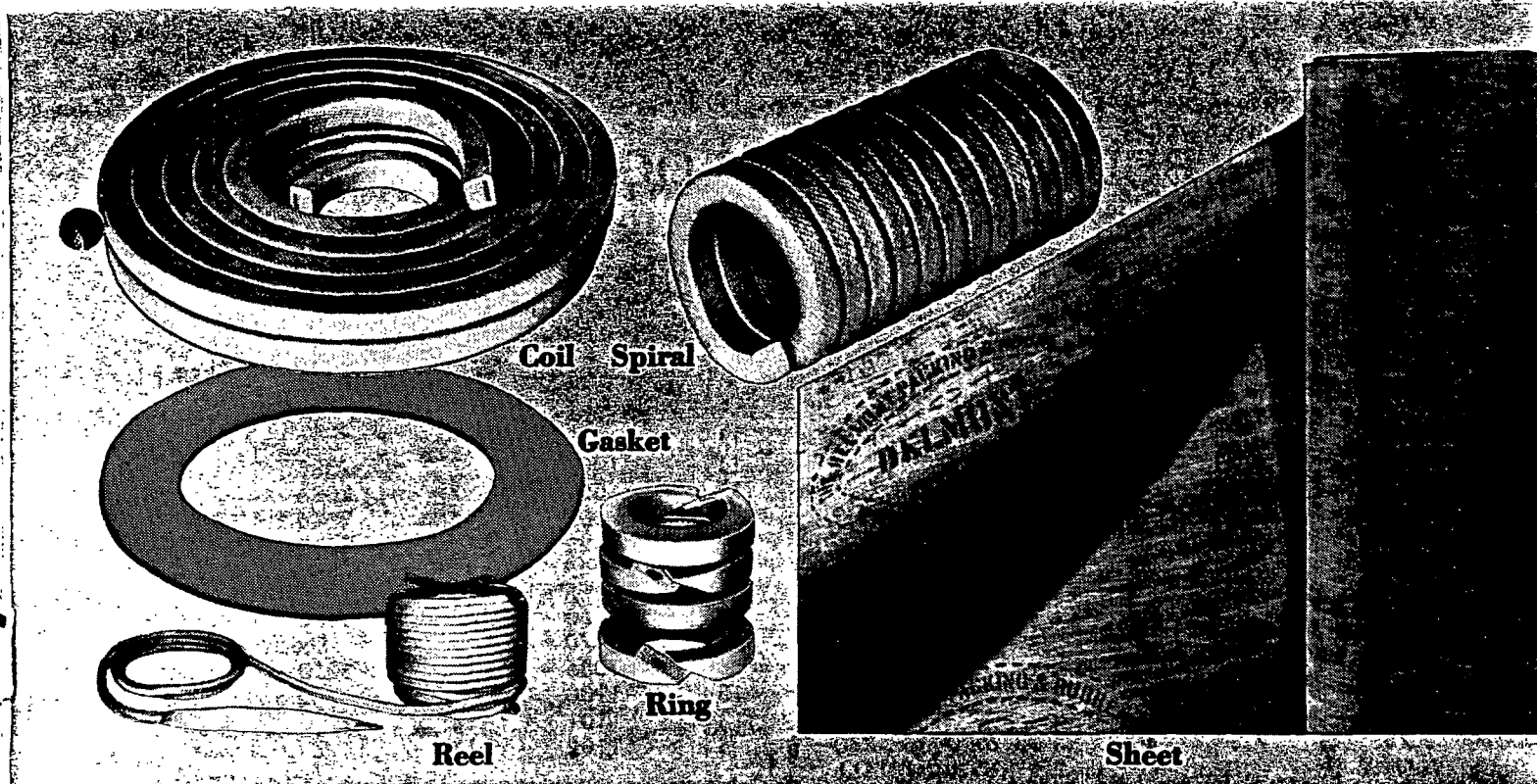
Sheet Form—Give thickness, standard widths and lengths are set forth in this catalog.

Other than standard materials are available under special order.

WARRANTY

In the manufacture of Belmont Packings, we strive to keep to a high standard of workmanship and materials. Any product found to be defective in either or both of these factors after examination by our representative will be replaced free of charge including transportation costs. No further guarantees, directly or indirectly, are made, or responsibilities assumed.

Authorized Belmont Distributors are located in the leading industrial centers from Coast to Coast—ready to serve quickly from local stocks. Where special analyses are necessary, the Belmont Home Office facilities are always available.



POINTERS TO OBTAIN MAXIMUM SERVICE ROD AND SHAFT PACKINGS

1. Be sure that all equipment is in good working condition, with rods unscored, in alignment, free from shoulders, vibration, tilting and other imperfections.
2. Use lantern glands wherever possible, thereby providing constant lubrication. This will prolong the life of the packing, reduce friction and save wear on rods and shafts.
3. When applying new packing, remove the old packing from the stuffing box in its entirety.
4. Do not spiral-wind packing around rod or shaft. Cut into individual rings, using butt joint on braided types; bevel joint on rubber and duck, and either bevel or step joint on fine white hydraulic for inside packed piston pumps.
5. On the initial "warm-up", lubricate the rod or shaft freely.
6. On rings with joints, stagger the joints at least 45°.
7. Tamp each ring "home" with a suitable tool.
8. After stuffing box is filled, draw up firmly and evenly on the gland; then back off the gland nuts, re-tightening them to finger pressure only.

It is well established that a slight drip is preferable when in operation. To accomplish this, it may be necessary to periodically loosen gland nuts.

9. Store packing stocks in a cool, dry place.
10. Rolls of sheet packings should be placed on roll-racks, and flat sheets laid on horizontal racks.
11. Keep all packings free from dirt and grit under all circumstances.

GASKETS

12. Make a good sealing surface by cleaning flanges thoroughly.
13. Flange faces must not be warped as a proper joint requires equal compression over the entire surface.
14. Tighten bolts evenly, doing so on directly opposite bolts until the gasket is tight. Draw up again in the same manner after the first few hours of service.
15. Use thin gauge thickness where application is perfect; where flanges are pitted, use material of greater thickness, as conditions warrant.

THE BELMONT PACKING & RUBBER CO.

General Offices and Factories

BUTLER AND SEPVIVA STREETS, PHILADELPHIA 37, PENNSYLVANIA

NEW YORK 7 BRANCH: 50 CHURCH STREET • Approved Distributors in All Industrial Centers

BELMONT CATALOG No. 54

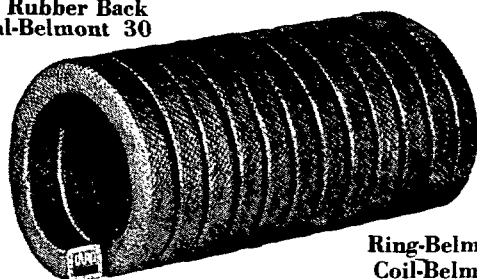
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BELMONT PACKINGS

BELMONT HIGH PRESSURE ASBESTOS PACKING With Rubber Back Spiral-Belmont 30



Ring-Belmont 20
Coil-Belmont 40

Here is a packing for high pressure steam rod service that offers unique center construction. Center block is pleated on itself (accordion fashion) at an angle of approximately 90 degrees with the rod, thus affording, among others, the following advantages:

- 1 High degree of resiliency and flexibility.
- 2 Abundance of take-up on the gland as the packing wears in service—with the packing flowing toward the rod.
- 3 Ultimate "edge wear" on the block in the event the rod surface of the packing wears down to the block. "Edge wear" implies "long wear."

CONSTRUCTION: Made from closely woven asbestos cloth frictioned with a heat-resisting rubber compound. The center asbestos block is made by folding the cloth upon itself. The rubber cushion is compounded to remain resilient when subjected to extreme temperatures. Always furnished lubricated and graphited unless otherwise specified. Rubber back supplied on all packing spaces from 7/16" upward; 3/8" with rubber center; smaller sizes without rubber back or center.

APPLICATION: High pressure steam rods, expansion joints, air and gas.

With Center Rubber Core

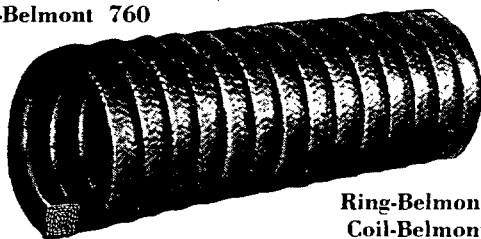
Ring-Belmont 46 Spiral-Belmont 47 Coil-Belmont 48

Without Rubber Back or Rubber Core

Ring-Belmont 131 Spiral-Belmont 134 Coil-Belmont 135

BELMONT AIR COMPRESSOR PACKING

Spiral-Belmont 760



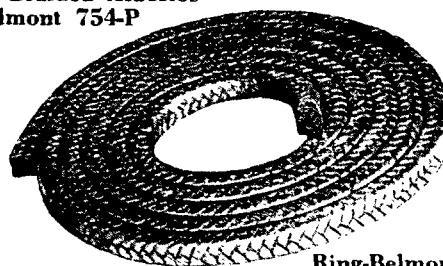
Ring-Belmont 758
Coil-Belmont 759

Here is a braided asbestos air compressor rod packing featuring a braid over braid construction, with each jacket lubricated and graphited. This packing will retain its flexibility under the intense heat encountered in air compressor rod applications. These basic features, in combination with finest quality materials, make Belmont 758, 759 and 760 a desirable choice for this type of service.

CONSTRUCTION: Long fibre asbestos yarn, each strand thoroughly lubricated and graphited throughout. This packing is square in cross section. Supplied in packing space sizes 1/8" and upward.

APPLICATION: Air compressor rods where lubricated packing is desired.

BELMONT CENTRIFUGAL and ROTARY PUMP PACKING Square Braided Asbestos Coil-Belmont 754-P



Ring-Belmont 751-P
Spiral-Belmont 753-P

One of the important factors to be considered in packing shafts of centrifugal and rotary pumps and oscillating rods is that shafts and rods be allowed free motion. Should this be impeded, wearing and scoring will result. Friction and wear are minimized by our method of impregnating lubricants and graphiting each strand of asbestos yarn in the process of braiding this packing.

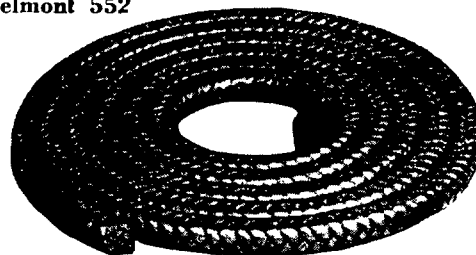
CONSTRUCTION: Long fibre asbestos yarn, braided square in the same manner as in braided flax packings. Each strand of yarn is lubricated and graphited, resulting in a thoroughly lubricated product. Supplied in packing space sizes 1/8" and upward.

APPLICATION: Centrifugal and rotary shafts working against steam, water, oil and weak acids; in fact, can be considered as a standard packing for all types of centrifugal and rotary conditions, as well as oscillating rods.

BELMONT CENTRIFUGAL and ROTARY PUMP PACKING

Square Braided Cotton Packing

Coil-Belmont 552



Ring-Belmont 550

On centrifugal and reciprocating types of pumps, where the temperatures are not in excess of 250° F., Belmont Square Braided Cotton Packing is recommended against the liquids noted below. The softness of this thoroughly lubricated and graphited product is a desirable feature, assuring free motion and minimum wear. It can be supplied with special lubricants for pumps handling edible products and paper stock.

CONSTRUCTION: Cotton thread square braided. Each strand lubricated and graphited before braiding. Supplied in packing space sizes 1/8" and upward.

APPLICATION: Centrifugal and rotary shafts working against hot and cold water and brine. Also used against cold oil.

===== For Every Service =====

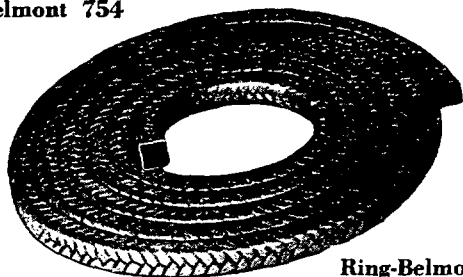
BELMONT



PACKINGS

BELMONT SQUARE BRAIDED ASBESTOS PACKING

Wire Inserted
Coil-Belmont 754



Ring-Belmont 751
Spiral-Belmont 753

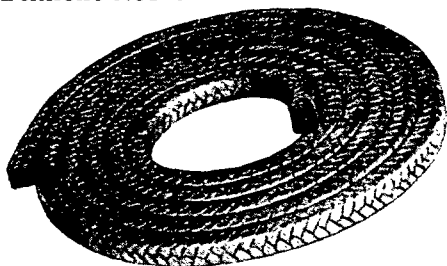
Certain steam reciprocating rod applications require a packing rather soft in consistency and lubricated and graphited throughout. This is particularly true in stuffing boxes of expansion joints. This packing has all these features plus the fact that the asbestos yarn is twisted with fine wire, giving added strength. Every strand is impregnated with lubrication and covered with graphite. Hence, the packing retains its softness over a long period of use.

CONSTRUCTION: Long fibre asbestos yarn, with a fine copper wire twisted with each strand of yarn. Braided square in the same manner as in braided flax packings. Each strand of metallic yarn is lubricated and graphited, resulting in a thoroughly lubricated finished packing. Supplied in space sizes $\frac{1}{8}$ " and upward.

APPLICATION: Reciprocating rods and plungers against high pressure steam, expansion joints, air, gas, oil, and header valves. Also used in combination with other styles where constant lubrication is desired.

BELMONT LEAD INSERTED SQUARE BRAIDED ASBESTOS PACKING

Coil—Belmont 6731-C



Ring—Belmont 6731-R

Belmont Lead Inserted Square Braided Asbestos Packings as formed in this construction provides an ideal sealing agent against hot and cold water when used on the applications listed below.

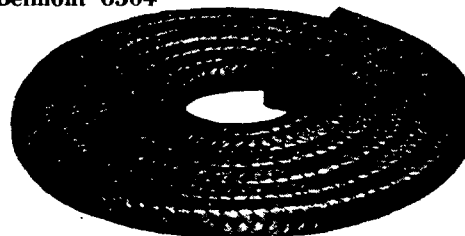
Thoroughly lubricated and surface graphited this combination of square braided asbestos inserted with these soft metal wires forms a firm pliable packing which offers flexibility coupled with outstanding resistance to friction.

CONSTRUCTION: This is a square braided packing of asbestos yarn and soft metal wire. It is thoroughly lubricated and surface graphited; furnished in sizes $\frac{1}{8}$ " to $1\frac{3}{4}$ " in steps of $\frac{1}{16}$ ".

APPLICATION: Used on shafts of centrifugal and rotary pumps and valve stems operating against hot and cold water. Friction is reduced due to the lead wire.

BELMONT BLUE ASBESTOS ACID PACKING

Coil-Belmont 6504



Ring-Belmont 6503

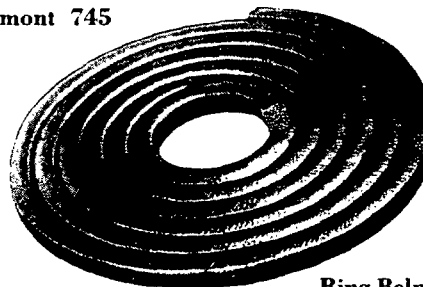
One of the natural characteristics of crude blue asbestos fibre, mined in Africa, is that it resists acids to a higher degree than asbestos fibre from other parts of the world. This is the African fibre that is spun into yarn and used in the manufacture of Belmont Blue Asbestos Acid Packing. In the process of braiding, the yarn is treated thoroughly with a special lubricant and graphited, resulting in a packing that will properly serve on centrifugal shafts and reciprocating rods handling acids and alkalis.

CONSTRUCTION: Manufactured from blue African asbestos yarn, square braided like flax and thoroughly impregnated with lubricant and graphited. Furnished lubricated unless ordered dry. Supplied in packing space sizes $\frac{1}{8}$ " and upward.

APPLICATION: Centrifugal shafts, reciprocating rods and valve stems handling strong acids, caustic soda and other alkalis.

BELMONT BRAIDED ASBESTOS PACKING

Square Cross Section
Coil-Belmont 745



Ring-Belmont 746
Spiral-Belmont 744

The braid over braid method used in the making of this packing "locks in" the lubricant and graphite with which each strand of asbestos yarn is impregnated. Being square in cross section, the stuffing box becomes completely filled, requiring little gland pressure to seal against uses for which this construction is intended. This is a strong, flexible packing, frequently used in combination with other styles where the features of a thoroughly lubricated product are desired. It can be supplied with wire insertion under special order.

CONSTRUCTION: Long fibre asbestos yarn, braided jacket over jacket, each strand thoroughly lubricated and graphited. The finished product is square in cross section. Supplied in packing space sizes $\frac{1}{8}$ " and upward.

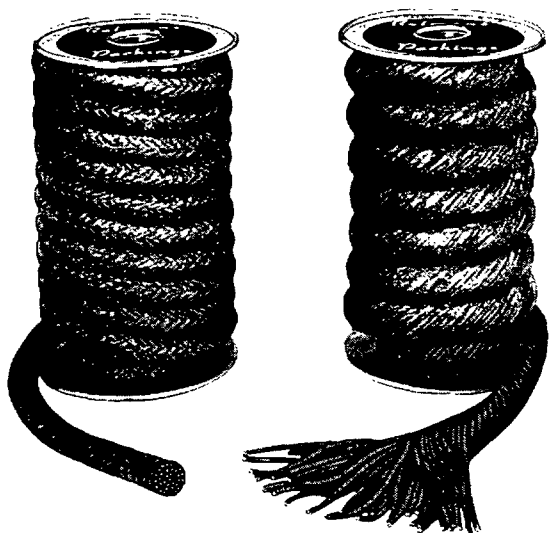
APPLICATION: High pressure steam piston rods; expansion joints, gas, oil, and some chemicals.

4 **For Every Service**

BELMONT PACKINGS

BELMONT VALVE STEM PACKING

Braided-Belmont 610—Twisted-Belmont 740



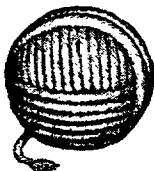
These two types of valve stem packings fill the small job requirements, where packing spaces are small—such as stems of valves, pump rods, pump valve stems and automobile water pumps. Whether the service be for steam, water, gas or oil, these handy packings will do good work. Belmont 610 Braided is made definite in size. Belmont 740 Twisted can be formed to any size by adding or subtracting the asbestos strands.

CONSTRUCTION: Belmont 610 and 740 are constructed of long fibre Canadian asbestos, each strand thoroughly lubricated and graphited. Usually supplied on 1-, 2-, or 5-pound spools. Also supplied on 1/4- and 1/2-pound spools. Belmont 610, braided, made in sizes 1/8" and upward. Belmont 740, twisted, made in sizes 1/16" and upward.

APPLICATION: Belmont 610 and 740 are recommended on globe, radiator and angle valves; automobile pumps; high pressure steam; hot and cold water; oil; ammonia; air; gas; small piston rods and valve stems.

Belmont 655: Braided asbestos, surface graphited only, for superheated steam, hot oil, gas, air and some chemicals.

BELMONT TWISTED WICK and ROPE



Belmont 4070: Twisted Asbestos Wick. Furnished in 1/4-lb., 1/2-lb. or 1-lb. balls.

Belmont 4072: Twisted Asbestos Rope. Furnished in reels of 25 lbs., in sizes of 1/4" to 2".

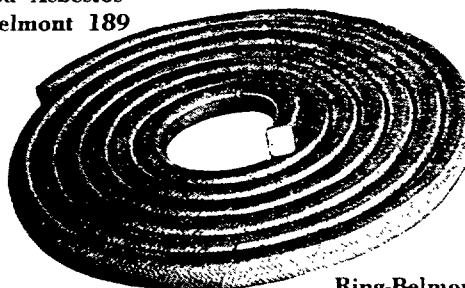


Belmont 4074: Twisted Asbestos Rope with braided asbestos cover, furnished in sizes of 3/8" to 1 1/2", round cross-section—single braided cover unless otherwise specified.

Belmont 4076: Twisted Asbestos Rope with braided asbestos cover, furnished in sizes of 3/8" to 1 1/2", square cross-section—single braided cover unless otherwise specified.

BELMONT HOT OIL ASBESTOS PACKING

Braided Asbestos
Coil-Belmont 189



Ring-Belmont 185

Spiral-Belmont 188

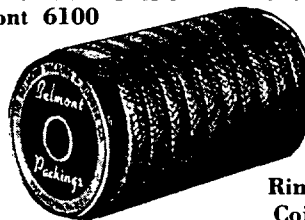
Oil has great penetration which is accelerated as the temperature is raised. This braided asbestos packing is specially treated so that penetration and saturation are minimized. Whether oil be cold or hot, you can guard against seepage and loss of material by installing Belmont Asbestos Packing for oil on rods and plungers. We particularly emphasize here the efficient service rendered when temperatures are at a point where the packing is literally "boiled in oil".

CONSTRUCTION: Long fibre asbestos yarn, braided jacket over jacket, each strand treated with a special compound, surface lubricated and graphited. This packing is constructed to minimize capillary attraction and saturation. Supplied in packing space sizes 1/8" and upward.

APPLICATION: Cold and hot oil rods and plungers.

BELMONT "6100" GASOLINE PACKING

Spool-Belmont 6100



Ring-Belmont 6101

Coil-Belmont 6102

Belmont "6100" Packing is made especially for use on rods and valve stems handling distillates such as gasoline, naphtha, kerosene and benzol. Such solvents have a tendency to break down ordinary lubricants. This packing is lubricated under our own formula to retain softness and essential sealing qualities when applied against volatile distillates. It is particularly effective in that it eliminates the constant fire hazard of leaky stuffing boxes. The acceptance of Belmont "6100" by many of the largest oil refineries throughout the world is the best testimony of the superiority and safety of this packing.

CONSTRUCTION: High grade asbestos yarn, braided jacket over jacket, each strand of asbestos thoroughly impregnated with a compound especially prepared for use against oil, gasoline, naphtha, kerosene and benzol. Square cross section. Belmont 6100 is supplied in 1 lb., 2 lb. and 5 lb. spools in sizes 1/8" to 3/4" inclusive, securely boxed.

Belmont 6102 is supplied in flat boxes in sizes 5/16" and over. Under 5/16" is supplied on 5 lb. spools.

APPLICATION: Piston rods and valve stems running in oil, gasoline, benzol, naphtha, kerosene.

Note: Made with square braid for Rotary shafts under Belmont 6105 Ring and Belmont 6106 Coil.

===== For Every Service =====

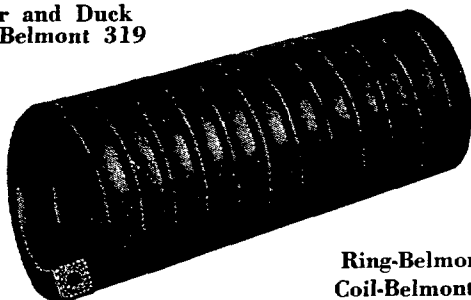
BELMONT



PACKINGS

BELMONT ORIGINAL HOLLOW CENTER PACKING

Rubber and Duck
Spiral-Belmont 319



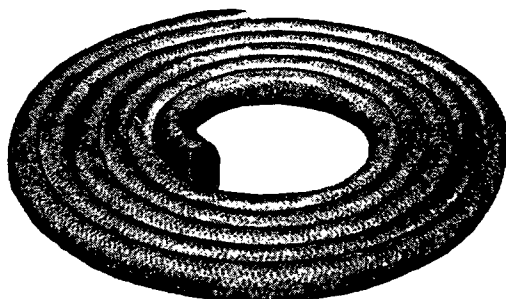
Ring-Belmont 19
Coil-Belmont 419

The hollow center in this packing provides a point of least resistance for expansion and contraction. Friction is kept at the minimum point created by the working pressure itself, since the packing will "breathe" toward the "hole" as the varying conditions of service within the stuffing box are exerted upon it. Being comparatively light in weight, this product offers economy in initial cost. Belmont Hollow Center Packing was originated by this Company and is manufactured under rigid specifications to function satisfactorily against the modern service usage for which it is intended.

CONSTRUCTION: Made of finest quality closely woven rubber frictioned duck, wrapped on itself and moulded to size. The hollow center offers a point of least resistance, compensating for changes in expansion and contraction. Supplied in packing space sizes $\frac{1}{4}$ " and over; lubricated and graphited unless otherwise specified.

APPLICATION: Low and intermediate steam; hot and cold water rods and plungers; ammonia; steam hammers; elevator plungers. Furnished in dry form for food cookers and general application on edible products.

BELMONT GUM CORE PACKING



Oval-Belmont 408—Round-Belmont 409
Oval-Belmont 500—Round-Belmont 501
Oval-Belmont 504—Round-Belmont 505

While packings of this type are available in both oval and round cross sections, the oval form is more commonly used. The reason for this is that it permits greater gland take-up to seal against sandy, gritty water, such as prevails on rods and plungers of mine pumps. Various qualities are procurable—Belmont 408 being recommended for heavy duty, Belmont 500 for average service, and Belmont 504 for light working conditions.

CONSTRUCTION: Belmont Oval Gum Core Packings are made with high-grade rubber core with multiple braids of fine yarn. Finished packing specially lubricated. Supplied in packing space sizes of $\frac{1}{4}$ " and upward.

APPLICATION: Low pressure steam, outside packed mine pumps and cold and hot water rods.

BELMONT COMBINATION DIAGONAL WEDGE PACKING

Ring-Belmont 201

Spiral-Belmont 202

Coil-Belmont 203

Ring-Belmont 215

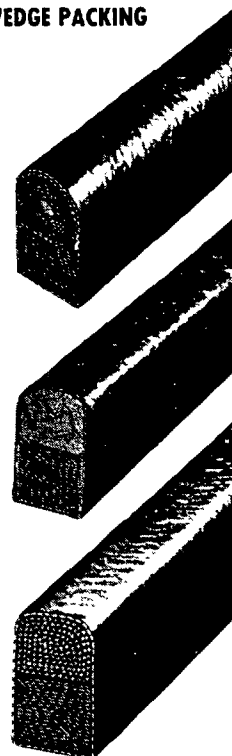
Spiral-Belmont 213

Coil-Belmont 205

Ring-Belmont 214

Spiral-Belmont 212

Coil-Belmont 204



Each type of Belmont Combination Diagonal Wedge Packing offers two constructions built into one packing. The three forms of cushions illustrated are selected for the rod and plunger applications named below. These cushions are combined with rubber and duck wedges which quickly adapt themselves to gland pressure and to any irregularities on worn equipment.

HIGH PRESSURE COMBINATION DIAGONAL

Ring-Belmont 201 Spiral-Belmont 202 Coil-Belmont 203

CONSTRUCTION: Round rubber and duck cushion over rubber and duck diagonally cut wedges held in place with braided cotton jacket. Furnished lubricated and graphited in packing space sizes of $\frac{1}{4}$ " and upward.

APPLICATION: Intermediate pressure steam; heavy duty hydraulic; hot water; ammonia; steam hammers. Adaptable where rods and plungers are worn or out of alignment.

LOW PRESSURE COMBINATION DIAGONAL

Ring-Belmont 215 Spiral-Belmont 213 Coil-Belmont 205

CONSTRUCTION: Flax cushion over rubber and duck diagonally cut wedges held in place with braided cotton jacket. Furnished lubricated unless otherwise specified in packing space sizes of $\frac{1}{4}$ " and upward.

APPLICATION: Low pressure steam, cold water rods and plungers. Adaptable where equipment is worn or out of alignment.

ASBESTOS CUSHION COMBINATION DIAGONAL

Ring-Belmont 214 Spiral-Belmont 212 Coil-Belmont 204

CONSTRUCTION: Asbestos cushion over rubber and duck diagonally cut wedges held in place with braided cotton jacket, lubricated and graphited. Furnished in packing space sizes of $\frac{1}{4}$ " and upward.

APPLICATION: High pressure steam rods and valve stems. Adaptable where equipment is worn and out of line.

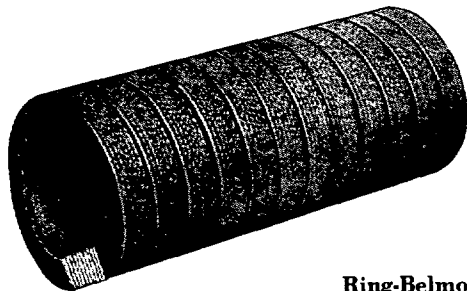
===== For Every Service =====

BELMONT PACKINGS



BELMONT EXTRA PACKING for STEAM

Spiral-Belmont 102



Ring-Belmont 80
Sectional Ring-Belmont 100
Diagonal Ring-Belmont 113

This packing is ideal for general service on all types of reciprocating steam rods where the temperature does not exceed 340° F.

CONSTRUCTION: Belmont Extra Ring and Spiral Packings are constructed of alternate layers of high quality, woven duck and rubber, properly compounded for services intended. Furnished lubricated and graphited unless otherwise specified.

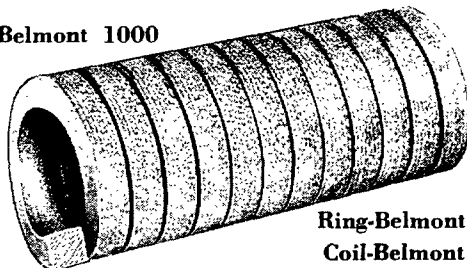
APPLICATION: Low and intermediate steam, hot and cold water.

For ammonia rods and valves:

Ring-Belmont 90—Sectional Ring-Belmont 101
Spiral-Belmont 103

BELMONT CROSS EXPANSION PACKING

Spiral-Belmont 1000



Ring-Belmont 1001
Coil-Belmont 1002

This is truly an expansion packing. It is recommended that the gland be drawn only finger tight as the diagonal layers of duck and rubber in Belmont Cross Expansion Packing flow toward the rod or plunger, automatically adjusting the packing to the working pressure to which it is subjected. Especially adaptable on rods and plungers that are out of line. The proper choice of ingredients makes this a most durable packing for the applications shown below.

CONSTRUCTION: Fine quality closely woven rubber frictioned duck, laid up diagonally, thereby permitting exceptional expansion toward the rod or plunger. Furnished lubricated and graphited unless otherwise specified in packing space sizes of $\frac{1}{4}$ " and upward.

APPLICATION: General service on reciprocating low and intermediate steam rods and valve stems; hot and cold water rods and plungers; ammonia; light oils. It is self-adapting on worn rods and plungers or rods and plungers out of alignment.

BELMONT WHITE FRICTION HYDRAULIC PACKING

Coil, Rockhard-Belmont 25

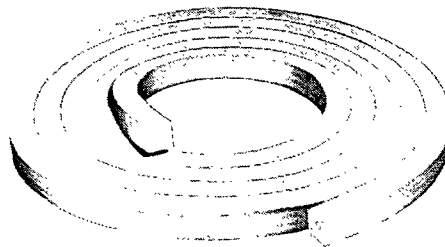
(Not Stitched)



SOLID RING—BELMONT 310

BEVEL JOINT RING—
BELMONT 310 R.J.

STEP JOINT RING—
BELMONT 310 S.J.



Coil, Regular-Belmont 15

Belmont White Friction Hydraulic Packings are built to withstand the hard service to which they are subjected on pump pistons, and as end rings in combination with other styles. Constructions and applications are clearly set forth below.

CONSTRUCTION: Belmont White Friction Hydraulic Packings are constructed of fine sheeting, laid up with rubber friction, so processed that swelling will be held to a minimum.

Belmont 15 and 25 coil forms are made in packing space sizes of $\frac{1}{8}$ " and upward.

APPLICATION: These packings are recommended for inside packed pump pistons handling hot and cold water, petroleum and food products. They are also used as end rings on plungers and rams in combination with other styles to break pressure and to facilitate the keeping of equipment in alignment. When liquids approach boiling point, Rockhard cure is recommended.

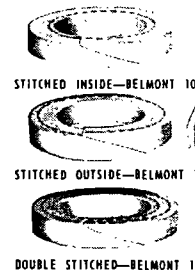
Ring, Medium-Belmont 311 Ring, Rockhard-Belmont 309

Ring formed from coil—Belmont 21 always furnished with a joint. Specify butt, beveled or step joint. Available in regular, medium and rockhard cures as specified.

BELMONT WHITE FRICTION HYDRAULIC PACKING

Coil Rockhard-Belmont 28

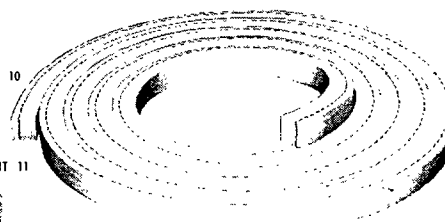
(Stitched)



STITCHED INSIDE—BELMONT 10

STITCHED OUTSIDE—BELMONT 11

DOUBLE STITCHED—BELMONT 13



Coil, Regular-Belmont 12

Belmont White Friction Hydraulic Packings are available with the added feature of strong linen stitched through the packing, as illustrated. Used on pump pistons and as end rings in combination with other styles. Constructions and applications are clearly set forth below.

CONSTRUCTION: Made of fine sheeting, laid up with rubber friction and stitched with strong linen thread, so processed that there will not be excessive swelling.

Belmont 12 and 28, coil forms are supplied in packing space sizes from $\frac{1}{4}$ " to 1" inclusive.

APPLICATIONS: These packings are recommended for inside packed pump pistons, handling hot and cold water, hot and cold oil, and especially for heavy substances, such as asphaltic products. They are used as end rings on plungers and rams, in combination with other styles, to break pressure and to facilitate the keeping of equipment in alignment. When liquids approach boiling point Rockhard cure is recommended.

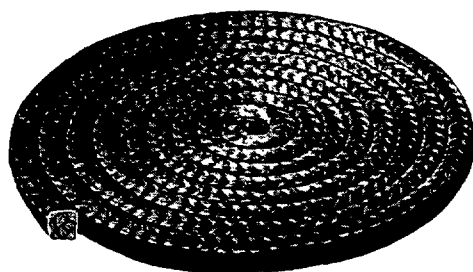
===== For Every Service =====

BELMONT



PACKINGS

BELMONT FLAX PACKINGS



Belmont 401-X: Solid braid long line flax, lubricated with a tallow compound.

Belmont 401: The same as Belmont 401-X except made with a center core of line flax.

Belmont 402: The same as Belmont 401-X except lubricated with wax.

Belmont 404: Made from pure flax of next fibre length to Belmont 401-X, lubricated with a tallow compound.

All Belmont Flax Packings are furnished in sizes $\frac{1}{8}$ " and upward, $\frac{5}{16}$ " and over in flat boxes, under $\frac{5}{16}$ " on 5 lb. spools.

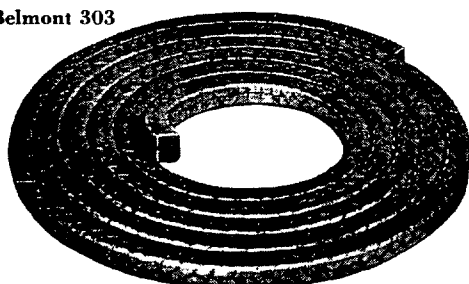
Can be supplied with graphite throughout or graphite on surface when so clearly ordered.

Application Belmont 401: Cold water plungers and rods, brine and cold oil. In the Marine Trade, this packing is used for stern glands.

Application Belmont 404: Regular services against cold water plungers and rods, brine and cold oil.

BELMONT WATERPROOF HYDRAULIC FLAX PACKINGS

Coil-Belmont 303



Ring-Belmont 208
Spiral-Belmont 300

Line Flax of select quality is used in the construction of these packings. In our processing of the roving, extreme care is taken to extract coarse and short fibres. The uniformly braided material is treated with a waterproof lubricant and formed firmly to required sizes. Belmont Waterproof Hydraulic Flax Packings are recommended on heavy duty hydraulic equipment where the density of these packings is preferable to the regular flax construction illustrated and described on the preceding pages.

CONSTRUCTION: Best quality line flax, braided solid, thoroughly lubricated with a special compound and surface graphited. Supplied in packing space sizes of $\frac{1}{8}$ " and upward.

APPLICATION: Heavy duty hydraulic services such as accumulators, rams, presses, cold water plunger pumps, cold oil, brine. Used in combination with other styles.

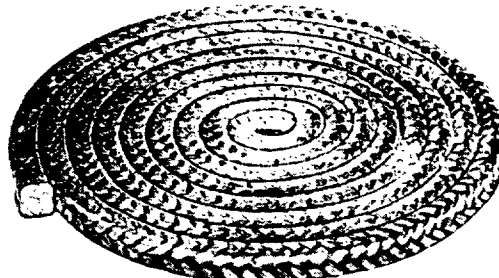
Supplied without graphite surface when so specified for application where graphite discoloration must be avoided on such services as paper stock pumps and edible products.

Can also be supplied in medium and soft finishes.

Can be supplied with shorter flax fibre under Belmont 6500-C.

BELMONT RAMIE PACKING

1120: Tallow Compound, Coil 1125: W.P.H. Compound, Coil



Ramie is an unusually strong vegetable fibre, which when braided square becomes a tough, durable packing that gives long-lasting and satisfactory service especially in the handling of cold water, cold oil, salt water and a large variety of other liquids.

Ramie is available with two types of lubricants as here mentioned:

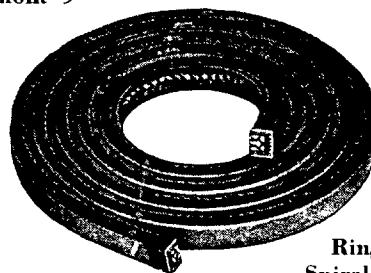
Belmont 1120: Square Braided Ramie comes in coil form and is lubricated in a tallow compound. Furnished in sizes of $\frac{1}{8}$ " and upward.

Belmont 1125: Coil form, square braided Ramie is impregnated and treated with a hard, waterproof compound, with the surface graphited.

APPLICATION: Pumps, accumulators, presses, rods, shafts, handling cold water, cold oil, salt water and many other liquids.

BELMONT SPECIAL HYDRAULIC CHANNEL FLAX

Coil-Belmont 9



Ring-Belmont 8
Spiral-Belmont 14

This construction permits the combination of two distinctive materials made into one integral packing. The rubber and duck channel not only acts as a wiper, but as a protection to the flax. An added feature is the linen thread stitching which prevents displacement of materials under gland pressure, and overcomes buckling so frequently experienced in unstitched packings of this general type.

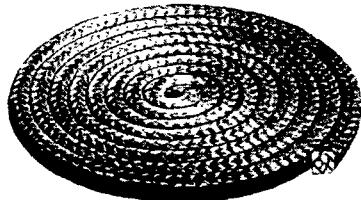
CONSTRUCTION: Long line best quality flax stitched with strong linen thread into a moulded rubber and duck channel. The double combination of casing and flax makes two packings in one against the wearing surface. Supplied lubricated and graphited unless otherwise ordered, in packing space sizes from $\frac{1}{4}$ " upward.

APPLICATION: All hydraulic services from low pressure to extreme heavy duty, hot and cold water.

BELMONT PACKINGS

BELMONT JUTE PACKINGS

Boxes or Reels—Belmont 406



Reel, Dry Twisted—Belmont 420
Reel, Dry Square Braided—Belmont 422
Waterproof Hydraulic—Belmont 4060

Where services are not severe enough to warrant the use of flax packings, Belmont 406 jute packing—constructed of first grade jute fibre—is available. The same grade of fibre is used in Belmont 422 dry braided jute. Jute with waterproof hydraulic treatment is designated by the style number 4060. For caulking—there is Belmont 420 twisted jute, made from jute fibre of such quality as required for caulking purposes.

CONSTRUCTION: Belmont 406 is constructed of first quality jute roving, braided to size, and lubricated. Shipped in standard boxes or on reels of 50, 100 and 150 lbs. If desired with graphite on surface, specify Belmont 406-GO, and for graphite throughout specify Belmont 406-GT.

Belmont 422 is same quality as Belmont 406 except unlubricated. Furnished on reels of 50 and 100 lbs. in sizes $\frac{3}{8}$ ", $\frac{1}{2}$ ", $\frac{5}{8}$ ".

Belmont 420 is made of jute fibre suitable for caulking purposes. dry form, approximately 1" in diameter. Supplied in bales of 50 or 100 lbs. Specify 420 tarred if so required.

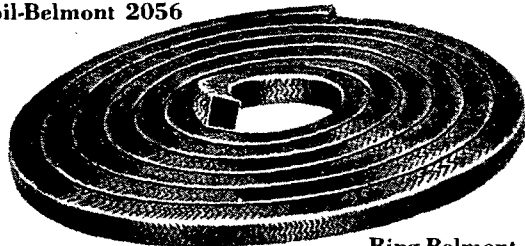
Belmont 4060 is made from the same quality of jute fibre as Belmont 406 with waterproof hydraulic treatment.

APPLICATION: Belmont 406 and 4060 are used against cold water and oil services where jute is acceptable.

Belmont 422 and 420 are used primarily for caulking purposes.

BELMONT SHREDDED METAL with COTTON COVER

Coil—Belmont 2056



Ring—Belmont 2054

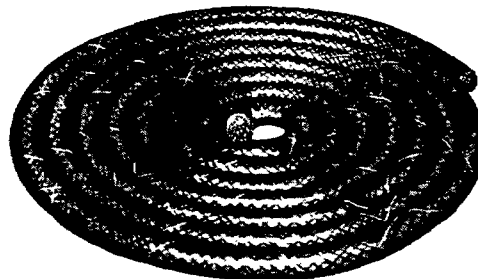
The feature of this packing is that the cotton jacket, braided over Belmont Lubricated Shredded Metal, holds the packing in shape for easy application without distortion. The cotton jacket wears away in service on the wearing side—the metal ultimately coming in direct contact with the rod or shaft. The packing can be readily taken from the stuffing box, if so desired, as the remaining cotton cover on three sides of each ring tends to prevent the metal from fusing into a solid mass.

CONSTRUCTION: Composed of Belmont Lubricated Shredded Metal, with cotton jacket, formed square in cross section in packing space sizes of $\frac{1}{4}$ " and upward.

APPLICATION: All temperatures up to 550 degrees Fahrenheit. Recommended on rotary shafts against steam, hot or cold water, ammonia, brine and some chemicals. Also used on reciprocating rods and plungers of above mentioned services.

BELMONT PLASTIC PACKINGS

Coil—Belmont 4000



Bulk—Belmont 4001

Belmont Plastic Packings are combinations of asbestos fibre, soft metals, graphite and special lubricants. Being comparatively soft and pliable, these packings mould themselves under gland pressure into a bearing-like mass to the exact shapes and sizes of stuffing boxes. To assure efficient service, however, shafts and rods must be in good condition and alignment. In applying Belmont Plastic Packings, thoroughly clean the stuffing box, then tamp with the gland as much packing as the box will take, and finally draw firmly on the stud bolts. It is not necessary to remove packing at any time simply add more when gland is drawn up as far as it will go.

CONSTRUCTION: Composed of asbestos fibre, particles of soft metal, graphite and lubricants. Various types of metals and lubricants are used to meet the applications mentioned below. These packings are furnished in bulk form put up in cans of 3 pounds and 5 pounds and in coil form as follows:

For Packing Spaces Measuring	Specify Size	Actual Size of Packing
$\frac{3}{16}$ " or under	A	$\frac{5}{32}$ " round
$\frac{1}{4}$ " to $\frac{3}{16}$ " inclusive	B	$1\frac{1}{4}$ " x $\frac{5}{16}$ "
$\frac{3}{8}$ " to $\frac{7}{16}$ " "	C	$\frac{3}{8}$ " x $\frac{7}{16}$ "
$\frac{1}{2}$ " to $\frac{11}{16}$ " "	D	$\frac{1}{2}$ " x $\frac{3}{8}$ "
$\frac{3}{4}$ " to $\frac{15}{16}$ " "	E	$\frac{3}{4}$ " x $\frac{7}{8}$ "
1" and over	F	1" square

APPLICATION: The following constructions are applicable against conditions mentioned.

Coil—Belmont 4000 Bulk—Belmont 4001

Rotary, centrifugal and reciprocating units, temperatures up to 550° Fahrenheit—water, steam, brine and heavy oils.

Coil—Belmont 4005 Bulk—Belmont 4006

Rotary, centrifugal and reciprocating units working against gasoline, naphtha, kerosene, light oils and similar distillates.

Coil—Belmont 4010 Bulk—Belmont 4011

Rotary, centrifugal and reciprocating units where temperature is over 550° Fahrenheit—steam, air, hot oil.

Coil—Belmont 4025

White for food products.

Spiral—Belmont 4030

Dry-graphitized long fibre asbestos, without metal particles for temperatures up to 750° F. Supplied in spiral form.

Spiral—Belmont 4035

Dry-graphitized long fibre asbestos with lead particles for temperatures up to 550° F. Supplied in spiral form.

Coil—Belmont 4002

Braided copper jacket, for temperatures up to 550° F.

Coil—Belmont 4007

Braided copper jacket, for petroleum products.

Coil—Belmont 4012

Braided copper jacket, for temperatures over 550° F.

===== For Every Service =====

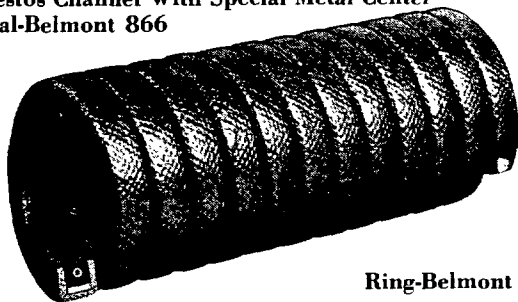
BELMONT



PACKINGS

BELMONT SEMI-METALLIC PACKING

Asbestos Channel With Special Metal Center
Spiral-Belmont 866



Ring-Belmont 865

The soft metal volutions of these patented packings bulge toward the rod under gland pressure—thereby making a tight, metal to metal, practically frictionless seal. The unique, spirally wound metal within the asbestos channel permits a remarkably flexible product that can be formed around small diameters.

CONSTRUCTION: Spirally wound, soft metal covered on three sides with a stitched asbestos channel. Furnished lubricated and graphited in packing space sizes of $\frac{3}{8}$ " and upward. Sizes $\frac{5}{8}$ " and over the metal is stitched into the channel. Under $\frac{3}{8}$ " the metal is cemented into the channel.

APPLICATION: High pressure steam rods, valve stems and air compressor rods. Recommended especially for steam piston rods of main and auxiliary engines and pumps on steamships, and the various extreme steam uses in sawmills.

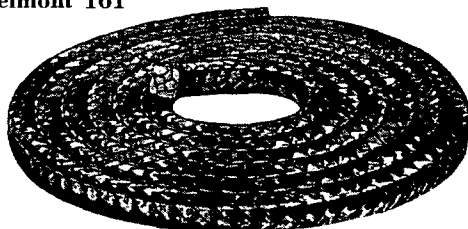
With Rubber and Duck Channel

Ring-Belmont 860

Spiral-Belmont 861

BELMONT BRAIDED COPPER PACKING

Coil-Belmont 161



Ring-Belmont 160

Belmont Braided Copper Packing is used as end rings in combination with other packings on heavy duty hydraulic units. Its purpose is to protect fabric packings in such combination by breaking the pressure and closing the clearance at the bottom of the stuffing box. It is suggested that the application of copper bushing or bull rings be confined to steel rams or plungers. Best results are obtained by swabbing rams or plungers with lubrication periodically.

CONSTRUCTION: Fine gauge copper wire square braided. Supplied in packing space sizes of $\frac{1}{4}$ " and over. Braided firmly without loss of flexibility.

APPLICATION: Used as a bushing ring where space is large between rod and neck bush. Applied also as a breaker ring for hydraulic pressures. Always applied as end rings in combination with soft packings. Particularly adapted to keep swaying vertical or dropped horizontal rams and plungers centered.

BELMONT SHREDDED METAL PACKINGS

Coil-Belmont 2003



Bulk-Belmont 2001

Ring-Belmont 2002

Under firm gland take-up, this packing forms a non-friction bearing within the stuffing box. It is furnished in three forms, namely: loose in cans, Belmont 2001; moulded into rings, Belmont 2002; and compressed into a coil of square cross section, Belmont 2003. Applied on reciprocating rods and centrifugal shafts that are in good alignment and not excessively scored. Suitable for all pressures and for temperatures up to 550 degrees Fahrenheit.

CONSTRUCTION: Belmont 2001, 2002 and 2003 are composed of non-friction shredded metal with special flake graphite lubrication. Belmont 2001 is supplied in 5-lb. cans.

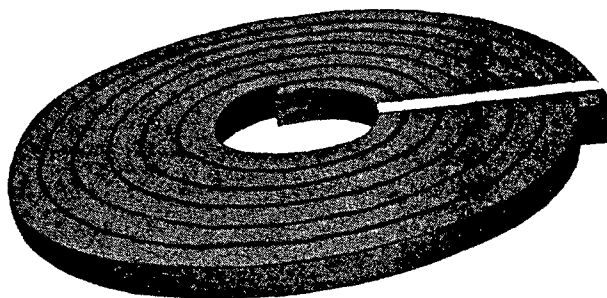
APPLICATION: Corliss valve stems, header steam and water valve stems, small valve stems on engines or pumps, expansion joints, and some chemicals. All temperatures up to 550 degrees Fahrenheit.

BELMONT THROTTLE and STOP VALVE PACKING

Belmont 1220-C: Coil form

Belmont 1220-S: Spiral form

Belmont 1220-R: Ring form



CONSTRUCTION: Made from a special black rubber-like compound, square in cross section, supplied in sizes $\frac{3}{16}$ " and up.

APPLICATION: Used on throttles, stop valves, expansion joints, radiator valves, gas retorts, steam trap and governor valves on turbines—temperatures up to 400° F. Glands are to be drawn finger tight only.

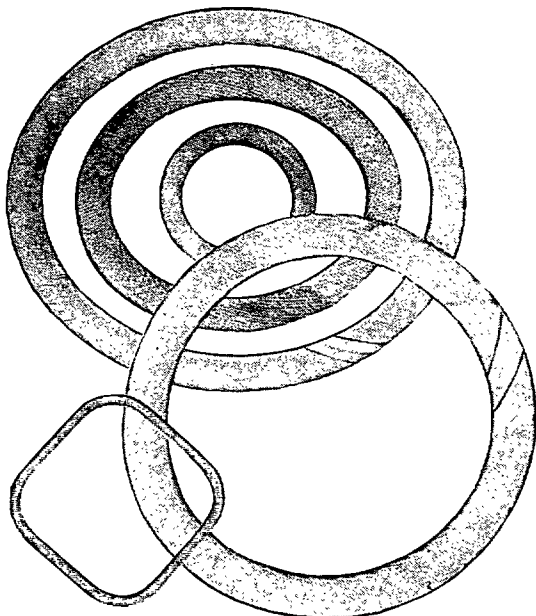
BELMONT



PACKINGS

BELMONT ASBESTOS WIRE INSERTED GASKETS

Oval Shape, Jointed-Belmont 606
Round Shape, Jointed-Belmont 607



Belmont Asbestos Wire Inserted Gaskets are made from folded wire inserted cloth, suitably frictioned, formed to accommodate all sizes of manhole and handhole plates and boiler tube caps. They are also made in round and irregular shapes for special uses.

Belmont 606: Jointed, manhole and handhole, oval shape

Belmont 607: Jointed, round shape for tank covers

Style numbers for tube caps for Babcock & Wilcox boilers and Heine boilers are as follows:

Babcock & Wilcox:

Belmont 622: Seamless Asbestos Gaskets, Oval

Belmont 623: Jointed Asbestos Gaskets, Oval

Belmont 626: Seamless Asbestos Gaskets, Square

Belmont 627: Jointed Asbestos Gaskets, Square

Heine Boilers:

Belmont 632: Seamless Asbestos Gaskets, Oval

Belmont 633: Jointed Asbestos Gaskets, Oval

Belmont 636: Seamless Asbestos Gaskets, Round

Belmont 637: Jointed Asbestos Gaskets, Round

Note:—If desired with graphite finish, specify "G" after style number.

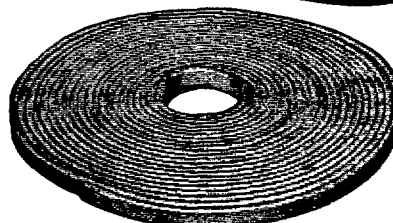
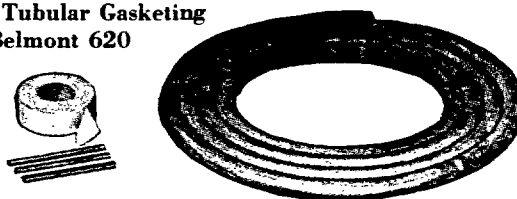
BELMONT GASKET CUTTER

A portable tool for cutting $1\frac{1}{4}$ " dia. to 19" dia. circular gaskets from all kinds of soft sheet packings. Rigid and simple to operate. Larger sizes only require cutter bar replacement.



BELMONT GASKETING MATERIALS

Red Tubular Gasketing
Belmont 620



ASBESTOS
METALLIC
TAPE
Belmont 49



ASBESTOS METALLIC
TUBULAR GASKETING
Belmont 619

Gasketing materials here described under Belmont 619 and Belmont 620 are economically and conveniently used in sealing tank heads and boiler manhole and handhole plates—No. 619 for high temperature. No. 620 for low and medium temperatures. Care should be taken to secure accurate fit and to join ends properly by cutting with long bevel, inserting connecting leads and taping. These materials will flatten out as bolts are drawn, and seat perfectly on rough or uneven surfaces. Belmont 49 Asbestos Tape is similarly used against high temperatures. It is suggested that the ends be dovetailed.

Gasketing Materials

Belmont 620: Red Rubber Tubular Gasketing made from Belmont red rubber compound, with cloth insertion, and round in cross section. Leads and friction tape are included in each box. Supplied regularly in sizes $\frac{3}{8}$ ", $\frac{1}{2}$ ", $\frac{5}{8}$ ", $\frac{3}{4}$ ", $\frac{7}{8}$ " and 1".

Belmont 619: Asbestos Metallic Tubular Gasketing made with wire inserted asbestos cloth treated with a suitable rubber friction and formed around a hollow lead center. Leads and friction tape are included with each box. Supplied regularly in sizes $\frac{3}{8}$ ", $\frac{1}{2}$ ", $\frac{5}{8}$ ", $\frac{3}{4}$ ", $\frac{7}{8}$ " and 1".

Belmont 49: Asbestos Metallic Flat Tape woven wire inserted asbestos cloth, treated with a suitable compound, folded and formed to required dimensions. Standard rolls are 50 ft. In ordering, specify width and thickness.

General information:

Belmont 620, 619 and 49 are used on cylinder heads, tank heads, heater doors and emergency gasket applications, applied against steam, air, water, ammonia, oil and some chemicals.

===== For Every Service =====

BELMONT

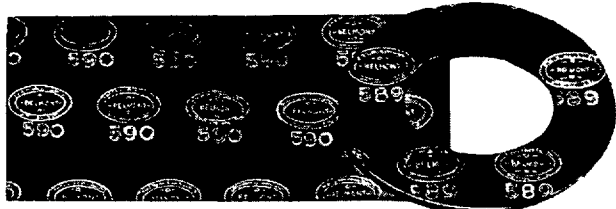


PACKINGS

BELMONT COMPRESSED ASBESTOS SHEET PACKING

Sheet-Belmont 590

Gaskets-Belmont 589



Belmont 590 Compressed Asbestos Sheet Packing is made for use on flanges and other parallel surfaces where temperatures and pressures are extreme, such as prevail in modern central generating stations.

CONSTRUCTION: Belmont 590 is constructed of long fibre Canadian asbestos thoroughly mixed with a heat-resisting binder; highly compressed, resulting in a dense but pliable sheet of exceptional tensile strength. Standard sheet dimensions are 50" x 50", 50" x 100", and 50" x 150" in thicknesses of 1/64", 1/32", 1/16", 3/32" and 1/8". Other than standard dimensions furnished to order. Belmont 590 is graphited. For without graphite specify 590 ungraphited.

Belmont 589 gaskets can be furnished in round, oval and odd shapes.

APPLICATION: Recommended for extreme applications against super-heated steam, air, gas, ammonia, acids and alkalis.

BELMONT COMPRESSED ASBESTOS SHEET PACKING

Sheet, Ungraphited-Belmont 595

Gaskets, Ungraphited-Belmont 596



The following constructions of Belmont Compressed Sheet Packings are made to meet general service conditions of dry and saturated steam, air, gas, ammonia and most chemicals.

Belmont 595-E is available in sheet dimensions of 50" x 50" and 50" x 150". Under special order, can be supplied 75" x 75", 75" x 150" and 150" x 150"—all thicknesses of 1/64" to 3/16" inclusive.

Furnished graphited both sides under Belmont 595-E GRAPHITED.

Belmont 595 is available in sheet dimensions of 40" x 40", 60" x 60", 80" x 80", 120" x 120" and combinations thereof—all thicknesses of 1/64" to 1/4" inclusive.

Furnished graphited both sides under Belmont 594.

For cut gaskets ungraphited—Belmont 596.

For cut gaskets graphited—Belmont 599.

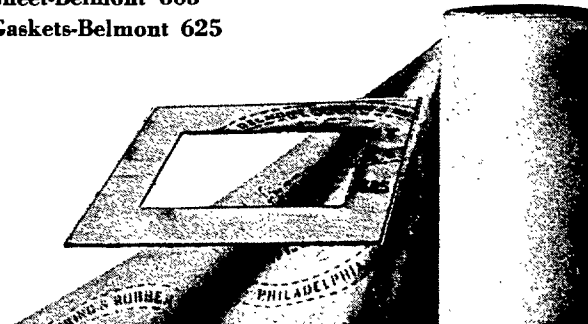
Note: Compressed asbestos sheet can be supplied with neoprene binder for special applications under Belmont 584.

Can also be supplied made with Blue African Asbestos Fibre for use against acids under Belmont 6735.

BELMONT ASBESTOS METALLIC SHEET PACKING

Sheet-Belmont 603

Gaskets-Belmont 625



Belmont 603 is intended for flanges and cylinder heads with uneven and rough surfaces. It is also used on narrow flanges and where a number of ports and bolt holes are required—such as steam engine and internal combustion cylinder heads.

CONSTRUCTION: Belmont 603 sheet is constructed of woven asbestos metallic fabric, treated with a special compound and calendered to a smooth uniform thickness. Regularly supplied in width of 48" and thicknesses of 1/32", 1/16", 1/8", 3/16" and 1/4".

Belmont 625 gaskets can be furnished in round, oval and odd shapes.

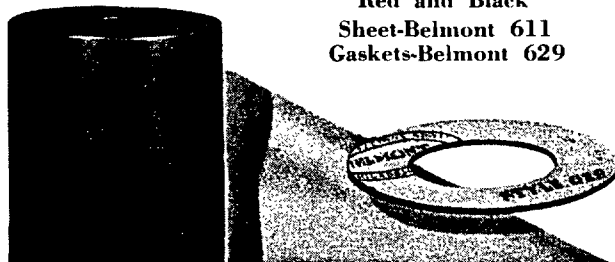
APPLICATION: Recommended for steam flanges and cylinder heads where surfaces are uneven or pitted—also applicable against air and gas.

BELMONT ASBESTOS METALLIC SHEET PACKING

Red and Black

Sheet-Belmont 611

Gaskets-Belmont 629



The red compound on one side of Belmont 611 Asbestos Metallic Sheet Packing will make the cut gasket adhere to the flange and the graphite on the other side will permit easy separation of joints that are taken apart frequently. Joints can be separated without mutilation of the gasket, a decided and economical feature of this packing.

CONSTRUCTION: Belmont 611 sheet is constructed of woven asbestos cloth with brass wire with the addition of a red adhesive compound on one side and graphite on the other side. Regularly supplied in width of 48" and thicknesses of 1/32", 1/16", 1/8", 3/16" and 1/4".

Belmont 629 gaskets can be furnished in round, oval and odd shapes.

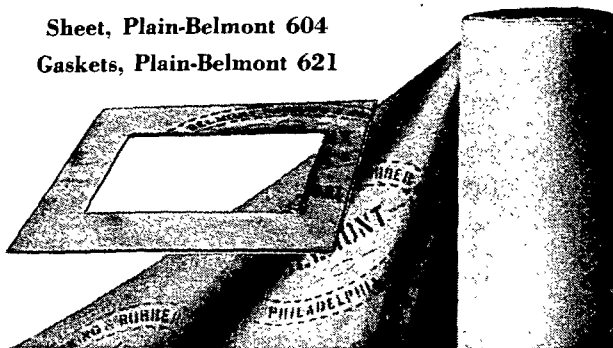
APPLICATION: Recommended where it is required that joints be broken without removal of the gaskets. Graphited on one side so as to prevent gaskets from adhering to one side of the flange. Particularly adaptable to internal combustion engines and steam, air and gas flanges that are uneven or pitted.

BELMONT PACKINGS

BELMONT RED RUBBER SHEET PACKING

Sheet, Plain-Belmont 604

Gaskets, Plain-Belmont 621



Belmont Red Rubber Sheet Packings are used principally on flanges and other parallel surfaces against hot and cold water and saturated steam. They are scientifically compounded and processed and of such density and tensile strength that they will remain soft in service and not creep.

CONSTRUCTION: Belmont 604 is a carefully compounded red rubber sheet that will not creep in service or age materially when carried in stock. It is firm and, at the same time, resilient. Supplied in thicknesses of $1/32$ " and upward. Standard width 40".

Belmont 621 gaskets are made from the same compound as Belmont 604 and are cut or moulded into any desired shapes or sizes.

APPLICATION: Saturated steam, hot and cold water. A fancy product from which to cut miscellaneous washers.

BELMONT CLOTH INSERTED PACKING

Sheet-Belmont 612

Gaskets-Belmont 609



Belmont Cloth Inserted Sheet Packing is made of a rubber compound of good tensile strength and a strong cotton sheeting evenly laid throughout the packing. It is uniform in thickness and is desirable on narrow flanges for the purposes intended, as the cloth insertion will prevent material from creeping in the joint.

CONSTRUCTION: Belmont 612 sheet is a gray rubber compound with cotton cloth insertion. Standard width 36" with greater widths available under special order. One ply of cloth insertion to each $1/16$ " thickness. Furnished in thicknesses of $1/32$ " and upward.

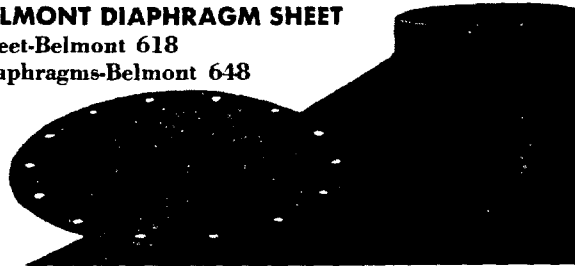
Belmont 609 gaskets are furnished in round, oval and odd shapes.

APPLICATION: Hot and cold water flanges.

BELMONT DIAPHRAGM SHEET

Sheet-Belmont 618

Diaphragms-Belmont 648



Belmont 618 Diaphragm Sheet is made to a high standard of quality—amply meets the needs of general services. There are a variety of rubber diaphragm applications for which special constructions are necessary. Recommendations for special services will be furnished when conditions and specifications are submitted.

CONSTRUCTION: Belmont 618 Diaphragm Sheet is made of a cotton duck of special weave laid between covers of a high-grade rubber compound. Regularly supplied with one ply of cloth insertion in $1/16$ " and $1/8$ " thicknesses, with one additional ply of duck to each $1/16$ " greater thickness than $1/8$ ". Standard width 44".

Belmont 648 cut diaphragms are furnished to drawings, templates or samples.

APPLICATION: Recommended for general diaphragm services against steam, water, air and gas.

Belmont 657: Neoprene with heavy duck insertion, 44" wide.

Belmont 677: Neoprene with Nylon duck insertion, 42" wide.

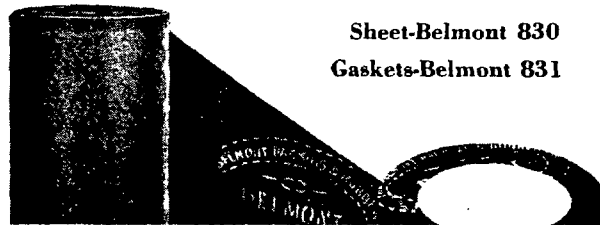
Belmont 678: Natural rubber with Nylon duck insertion, 42" wide.

Belmont Silicone rubber diaphragm sheet

BELMONT 830-SHEET PACKING

Sheet-Belmont 830

Gaskets-Belmont 831



Belmont 830 is a desirable product for use on flanges and other parallel surfaces where bolt holes are widely spaced, and where compressibility is required. Its compressibility is close to that of cork and its tensile strength approaches that of treated paper fibre sheet.

CONSTRUCTION: Belmont 830 sheet is made from finely ground cork and vegetable fibre, compressed into sheet with a suitable binder. Furnished in 25 and 50 yard rolls 36" wide in $1/64$ ", $1/32$ ", $1/16$ ", $3/32$ " and $1/8$ " thicknesses. Greater thickness supplied in 36" square sheets.

Belmont 831 gaskets can be furnished in round, oval and odd shapes.

APPLICATION: Recommended on flanges for gasoline, naphtha, benzene, kerosene, cold oil and cold water.

LIST PRICES

Thickness	List Price Per Square Yard	Thickness	List Price Per Square Yard
$.010$ "	\$0.66	$3/32$ "	\$5.40
$1/64$ "	.90	$1/8$ "	7.30
$1/32$ "	1.80	$3/16$ "	10.90
$1/16$ "	3.60	$1/4$ "	14.60

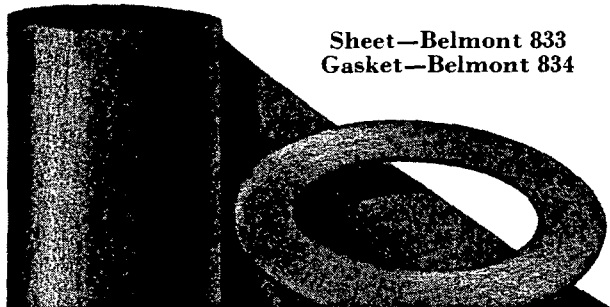
===== For Every Service =====

BELMONT



PACKINGS

BELMONT CORK-BUNA-N SHEET PACKING



Sheet—Belmont 833
Gasket—Belmont 834

Belmont 833 is made from a combination consisting of cork-vegetable fibre base, impregnated with Buna-N synthetic rubber. There is a definite need for a sheet of this type for hot oil and other petroleum base commodities for temperatures up to 350° F. It has splendid gasketing qualities with respect to relaxation in the joint and compressibility. It will not adhere to, or promote corrosion of aluminum, magnesium or their alloys.

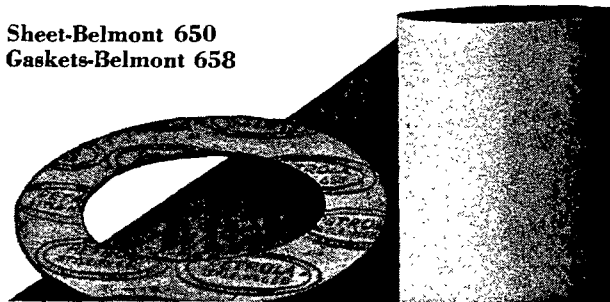
CONSTRUCTION: Belmont 833 Sheet is made of finely ground cork and vegetable fibre, impregnated with Buna-N synthetic rubber. It is furnished 36" wide in continuous rolls of 50 yards in thicknesses .010", $\frac{1}{64}$ ", $\frac{1}{32}$ " and $\frac{3}{64}$ "; 25 yard rolls $\frac{1}{16}$ " and $\frac{3}{32}$ "; and 36" x 36" sheet thicknesses $\frac{1}{8}$ ", $\frac{3}{16}$ " and $\frac{1}{4}$ ".

Belmont 834 Gaskets can be supplied in round, oval and odd shapes.

APPLICATION: Petroleum products at temperatures up to 350° F. Highly recommended for automobiles, outboards, chain saws, lawn mowers and similar equipment.

BELMONT PETROLA SHEET PACKING

Sheet-Belmont 650
Gaskets-Belmont 658



Belmont 650 Petrola Sheet is intended primarily for use on flanges and other parallel surfaces handling petroleum products up to temperature of 325° Fahrenheit. It is also successfully and economically applied against other liquids and gases as mentioned below.

CONSTRUCTION: Belmont 650 Petrola Packing is a vegetable fibre sheet, chemically treated. This packing has high tensile strength and good compressibility.

Belmont 658 gaskets can be furnished in round, oval and odd shapes.

APPLICATION: Recommended against oils, gasoline, naphtha, benzine, kerosene, water, air and gas at all temperatures up to 325° Fahrenheit.

Note: Belmont 650 is supplied in 36" continuous rolls of 25 yards and 50 yards in thicknesses up to $\frac{1}{8}$ " inclusive; over $\frac{1}{8}$ " sheets 36" x 36".

LIST PRICES PER SQUARE YARD

Thickness		Thickness		Thickness	
.006"	\$0.35	.021"	\$1.20	.093" ($\frac{3}{32}$ ")	\$5.40
.010"	.60	.032" ($\frac{1}{32}$ ")	1.80	.125" ($\frac{1}{8}$ ")	7.30
.015" ($\frac{1}{64}$ ")	.90	.062" ($\frac{1}{16}$ ")	3.60	.1875" ($\frac{3}{16}$ ")	10.90

BELMONT NEOPRENE PRODUCTS

Ring-Belmont 1100
Sheet-Belmont 1101
Coil-Belmont 1102
Gaskets-Belmont 1103



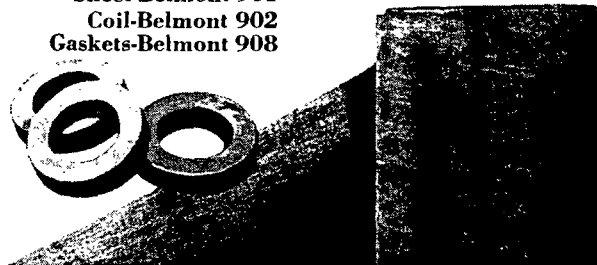
Neoprene is a chemical composition having the appearance and many of the physical properties of rubber. When compounded with other suitable ingredients, it becomes the material used in Belmont Neoprene products and has the following major characteristics:

1. High resistance to oil, gasoline, kerosene, greases, alcohol, caustics and many acids.
2. High tensile strength.
3. Good abrasion resistance.
4. Resistance to sunlight and out-door exposure.
5. Good resistance to aging when carried in stock.

Belmont Neoprene is available in all forms such as sheet, strip, gaskets, washers, tubing and cord. It is also applied as a friction to asbestos cloth and duck in the manufacture of packings and diaphragms for finished materials requiring the physical and chemical properties of Neoprene. Prices will be quoted upon receipt of specifications. Standard sheet width 40". Durometer Hardnesses 40, 50, 60, 70, 80 and 90.

BELMONT GRAY RUBBER PRODUCTS

Ring-Belmont 900
Sheet-Belmont 901
Coil-Belmont 902
Gaskets-Belmont 908



Belmont Gray Rubber Products are made from a compound containing a high percentage of rubber and are of medium soft consistency. A few of their important characteristics follow:

1. High degree of toughness.
2. High tensile strength.
3. Long lasting resiliency in service.
4. Good abrasive resistance.
5. Good resistance to aging when carried in stock.

Belmont Gray Rubber Products are used on a wide range of applications. They are recommended for practically any condition requiring a soft, tough rubber—such as port holes in the marine trade, wiper rings on ammonia rods, gauge glass and miscellaneous washers, peep sights on tanks, cold water joints, etc. Can also be furnished in special moulded shapes to specifications. Standard sheet width 40".

BELMONT PACKINGS

BELMONT SPECIAL SHEET PACKINGS

Belmont 923: Natural rubber, pure gum floating stock, smooth finish, 35 durometer, furnished in 40" width, in thicknesses 1/32" and up.

Belmont 931: Black rubber, smooth finish, 50 durometer, furnished in 40" width, in thicknesses of 1/32" and up.

Belmont 941: Black rubber, smooth finish, 70 durometer, furnished in 40" width, in thicknesses of 1/32" and up.

Belmont 951: Black rubber, smooth finish, 80 durometer, furnished in 40" width, in thicknesses of 1/32" and up.

Black Buna N synthetic rubber sheet packings furnished 40" wide, thicknesses 1/32" and up in durometer hardnesses as follows:

Belmont 1201-6	60 durometer	Belmont 1201-8	80 durometer
Belmont 1201-7	70 durometer	Belmont 1201-9	90 durometer

BELMONT MOLDED ASBESTOS VALVE RINGS

Belmont 770—Oil Treated
Belmont 771—Wax Treated
Belmont 772—For Gasoline
Belmont 773—Rubber Treated



Belmont Molded Asbestos Valve Rings are made especially for the convenience of equipment manufacturers for quick assembly of their products. These rings are used in small stuffing boxes of equipment and appliances such as valves, washing machines and faucets. Several types of lubrication and treatment are available for the specific conditions of service as outlined below. A machine set-up charge is made on orders for small quantities.

CONSTRUCTION: Manufactured from braid over braid, wire inserted asbestos yarn with a crinkled lead ribbon in the center, surface graphited. Each ring is molded to required size and shape, with bevel joint.

Belmont 770—oil treated. for use against steam and hot and cold water.

Belmont 771—wax treated, recommended for cold water only.

Belmont 772—especially lubricated for use against gasoline and other petroleum distillates.

Belmont 773—rubber treated. for use against oil.

BELMONT 1502 PUMP VALVES

Fifteen-O-Two Pump Valves
For Oil, Gasoline, Benzine
Naphtha, Water
Belmont 1502



Some of the features of Belmont 1502 Pump Valves are—will not chip, pit, warp or swell; will seat properly when used against gritty fluids; light in weight, permitting quiet operation.

CONSTRUCTION: Belmont 1502 Pump Valves are made of laminated fabric bound together with Bakelite compound. This composition is compressed to a hard consistency of exceedingly high tensile strength.

APPLICATION: Oil, Gasoline, Benzine, Naphtha, Water and mild Acid solutions. Recommended for high pressure service and temperatures up to 270° Fahrenheit.

Note: This same product is applicable on inside packed pump pistons working against hot or cold water and oil—Ring form only Belmont 1505.

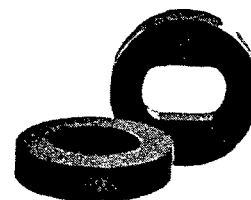
BELMONT VALVE DISCS

Oval Hard-Belmont 910

Round Hard-Belmont 911

Oval Soft-Belmont 912

Round Soft-Belmont 913



Belmont Valve Discs for globe, angle and other types of valves are made of various compositions to meet all service conditions. Where applications are unusual, requiring special compositions, recommendations will be offered upon receipt of specifications. Here are shown two types which will satisfactorily serve a large field of uses. Belmont 910-oval hole and Belmont 911-round hole are of hard non-brittle rubber-asbestos composition for high temperatures. Belmont 912-oval hole and Belmont 913-round hole are made of a tough medium soft rubber compound used where a soft disc is preferable.

CONSTRUCTION: Belmont Valve Discs are made for all standard valves, either round or oval, of special compounds assuring durability.

APPLICATION: Belmont 910 and 911 are extremely hard. Will give excellent satisfaction on valves working against superheat steam; hot gases; acids; alkalis; oils, ammonia and hot water.

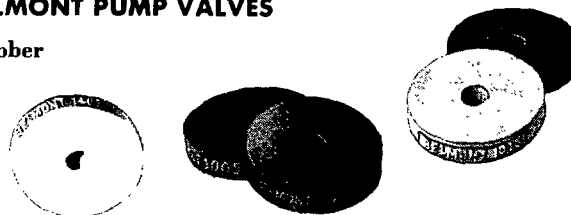
Belmont 912 and 913 are soft in consistency and applicable against cold water or special conditions requiring soft discs.

VALVE DISC LIST PRICES

Size	Price Each	Size	Price Each	Size	Price Each
1/4"	\$0.03	1 1/2"	\$0.12	4 1/2"	\$0.70
3/8"	.04	2"	.18	5"	.80
1/2"	.04	2 1/2"	.24	6"	1.00
3/4"	.05	3"	.40	7"	1.20
1"	.06	3 1/2"	.50	8"	1.40
1 1/4"	.09	4"	.60	10"	2.25

BELMONT PUMP VALVES

Rubber



Belmont Rubber Pump Valves are made in a wide range of compounds to meet all service conditions.

When ordering specify diameter, thickness and size of hole, and designate the Belmont number from table given below. When the selection is left to us, or if a special Pump Valve is necessary—state clearly the service, such as hot, cold, clear or gritty water, oil or syrup, and give maximum pressure and maximum temperature directly against the valve.

The following table will serve as a guide for the conditions listed. Special pump valves for special services can be supplied upon application.

TABLE OF BELMONT RUBBER PUMP VALVES

Style No.	Color	Density	Press. lbs.	Temp. Degrees	Service
1005	Gray	Soft	75	150	Cold or Warm Water
1020	Black	Semi-Soft	125	170	Cold or Warm Water
1025	Gray	Semi-Soft	125	150	Cold or Warm Water
1060	Gray	Semi-Hard	175	170	Cold or Warm Water
1070	Black	Semi-Hard	175	175	Cold or Warm Water
1085	Black	Semi-Hard	175	180	Cold or Warm Water
1200	Black	Hard	300	212	Hot Water
1240	Black	Hard	250	212	Hot Water
1305	Gray	Soft	50	170	Condenser
1330	Gray	Soft	50	170	Condenser
1340	White	Soft	50	170	Condenser
1405	Red	Soft	50	170	Condenser

For Every Service

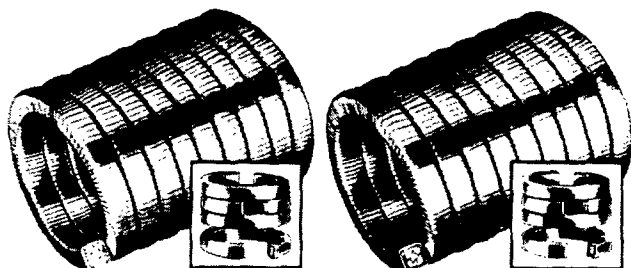
BELMONT



PACKINGS

BELMONT SEMI-METALLIC FOIL WRAPPED PACKINGS

Aluminum, Copper or Lead Foil specially wrapped around a large or small fibrous core of Asbestos, Plastic. — Flax or Shredded Metal as service requires.



Large Core

Small Core

Rings cut butt joint . . . Spirals furnished one, 12½ ft. length per box.

BELMONT 2060: Copper Foil spirally wrapped around small center core of dry braided asbestos. Finished packing lubricated and graphited. Available ¼ to 1" packing space sizes.

BELMONT 2061: Same as above, except it has large center core and packing space sizes start at 3/16 in.

APPLICATION: Centrifugal shafts and reciprocating rods, valves, expansion joints at temperatures from 550° F to 1000° F—steam, air, gases and low sulphur content hot oils.

BELMONT 2062: Aluminum Foil spirally wrapped around a small center core of dry braided asbestos, finished product lubricated and graphited. Available ¼ to 1" packing space sizes.

BELMONT 2063: With large center core. Available packing space sizes 3/16 to 1". Construction and applications similar to Belmont 2062.

APPLICATION: Centrifugal shafts and reciprocating rods, valves, still necks and other equipment handling hot crude oil and petroleum distillates at temperatures up to 1000° F.

BELMONT 2064: Lead Foil spirally wrapped around a small center core of dry braided asbestos, finished product lubricated and graphited. Available 3/16 to 1" packing space sizes.

APPLICATION: Centrifugal Shafts and reciprocating rods, valves, expansion joints at temperatures up to 550° F.

BELMONT 2065: Lead Foil spirally wrapped around a large center core of braided lubricated asbestos, finished product lubricated and graphited. Available 3/16 to 1" packing space sizes.

APPLICATION: Centrifugal shafts and reciprocating rods, valves at temperatures up to 550° F. handling steam, water, brine, oil or distillates.

BELMONT 2066: Lead Foil spirally wrapped around a large core of braided lubricated flax. Available ¼ to 1" packing space sizes.

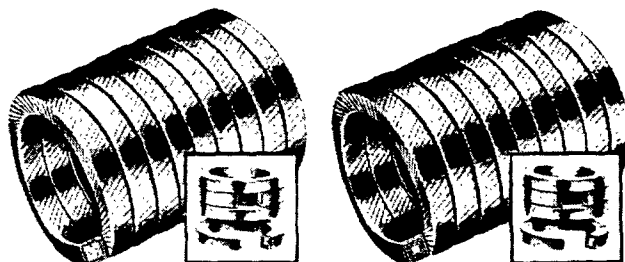
APPLICATION: Pumps, stern glands, hydraulic equipment handling water or oil at temperatures up to 150° F.

BELMONT 2067: Lead Foil spirally wrapped around a core of plastic material containing shredded lead, asbestos fibre, graphite and lubricant. Available ¼ to 1" packing space sizes.

APPLICATION: Centrifugal shafts and reciprocating rods, valve stems and the like at temperatures up to 550° F.

BELMONT SEMI-METALLIC TWISTED FOIL PACKINGS

Twisted Lead, Aluminum and Copper Foil spirally wrapped around an Asbestos center core, or without center core, square cross section.



Large Core

Small Core

Rings cut butt joint . . . Spirals furnished one 12½ foot length per box

Belmont 2080: Twisted Lead Foil spirally wrapped around an asbestos core. Finished packing lubricated and graphited, in packing space sizes ¼" and up. For rings, specify 2080-R.

Belmont 2081: Same construction as Belmont 2080 except made without asbestos center core. Furnished in packing space sizes ⅛" and up. For rings, specify Belmont 2081-R.

APPLICATION: Rotating shafts and reciprocating rods, valves, expansion joints at temperatures up to 550° F.

Belmont 2085: Twisted Aluminum Foil spirally wrapped around an asbestos core. Finished packing lubricated and graphited in packing space sizes ¼" and up. For rings, specify Belmont 2085-R.

Belmont 2086: Same construction as Belmont 2085 except made without asbestos center core. Furnished in packing space sizes ⅛" and up. For rings, specify Belmont 2086-R.

APPLICATION: Rotating shafts and reciprocating rods, valves, still necks and other equipment handling hot crude oil and distillates at temperatures up to 1000° F.

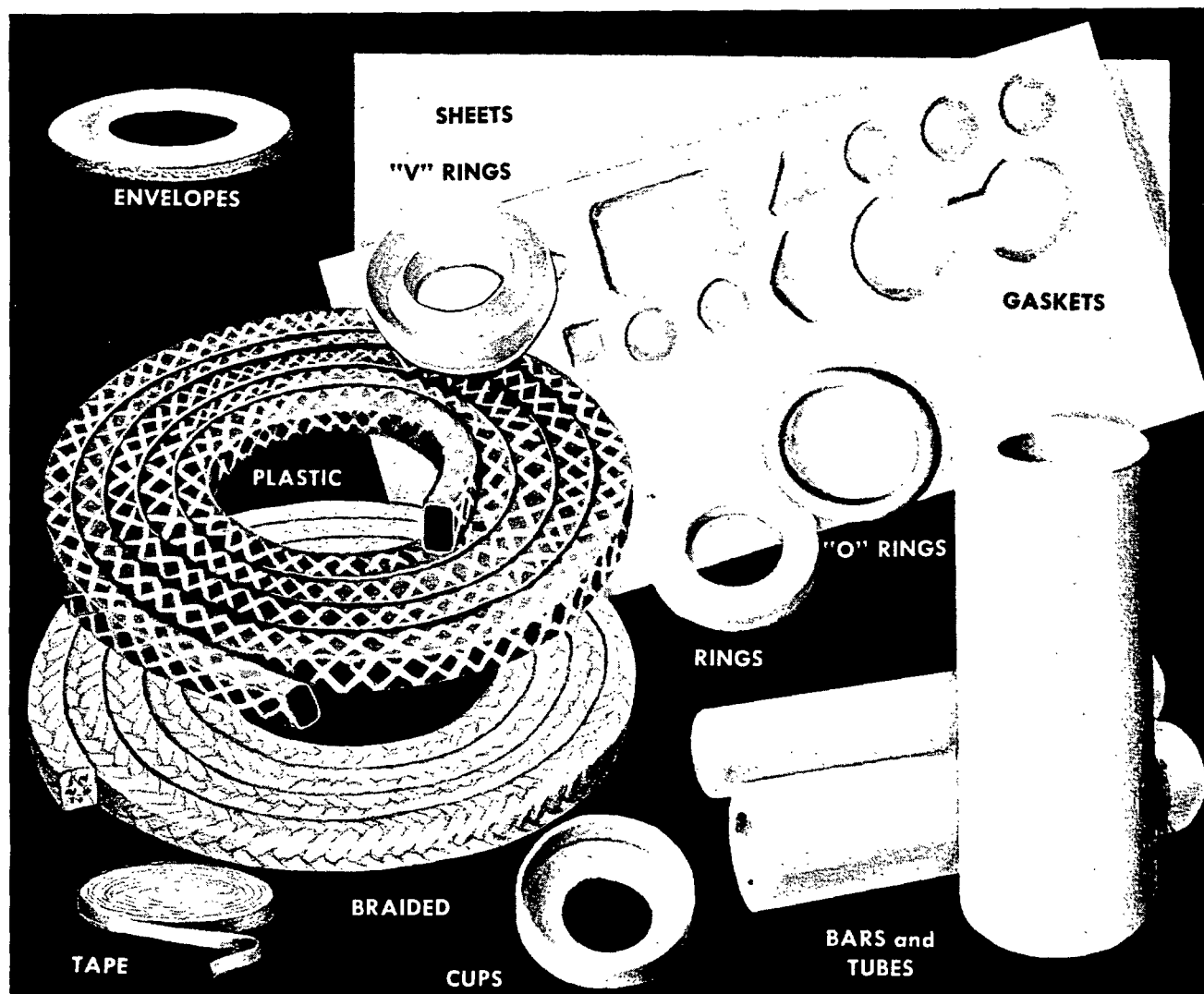
Belmont 2090: Twisted Copper Foil spirally wrapped around an Asbestos core. Finished packing lubricated and graphited. Packing space sizes ¼" and up have asbestos center core; sizes ⅛" and 3/16" can be supplied, but the same do not have asbestos center core. For rings, specify Belmont 2090-R.

APPLICATION: Rotating shafts and reciprocating rods, valves, expansion joints, at temperatures from 550° F. to 1000° F.—steam, air, gases and low sulphur content oils.

BELMONT PACKINGS

"TEFLON" PRODUCTS

Belmont Packings and Gaskets
made of "Teflon"



"TEFLON" PRODUCTS

"Teflon" (tetrafluorethylene) is a resinous, chemically inert product developed by E. I. duPont deNemours & Company, Inc. It is waxy in appearance, white or gray in color, having unusual heat resistance.

Chemical Properties: The chemical resistance of "Teflon" is outstanding in that it withstands the attack of all materials except molten alkali metals. It can be boiled in hydrofluoric acid or fuming nitric acid with no change in properties. It resists the attack of organic materials, strong alkalis and any gases. Temperature range is -100°F. to 500°F. It is a flexible material with a very low coefficient of friction.

How furnished: "Teflon" products are available in many forms, some of which are here described.

BELMONT 3050 "TEFLON" SHEET

Square or rectangular sheets, not exceeding $48" \times 48"$, in any thicknesses from $\frac{1}{32}"$ to $1\frac{1}{4}"$ inclusive; also greater thicknesses up to $1\frac{1}{2}"$, not exceeding $20" \times 20"$. Standard thicknesses are $\frac{1}{16}"$, $\frac{1}{8}"$, $\frac{3}{16}"$, $\frac{1}{2}"$, $\frac{3}{4}"$, $1"$ and $1\frac{1}{4}"$. Standard sizes are:

$12" \times 12"$	$24" \times 24"$	$36" \times 36"$
$12" \times 24"$	$24" \times 36"$	$36" \times 48"$
$12" \times 36"$	$24" \times 48"$	$48" \times 48"$
$12" \times 48"$		

Minimum quantity— $12" \times 12"$

The weight per square foot, $\frac{1}{16}"$ is .75 lb.; other thicknesses in direct proportion.

===== For Every Service =====

BELMONT PACKINGS

"TEFLON" PRODUCTS (CONTINUED)

BELMONT 3050 "TEFLON" TAPE

Tape form is furnished in thicknesses of .002" to .060" in the following widths:

Thickness	Width
.002" to .010" inclusive	1/4" to 12"
.015" to .060" inclusive	1/2" to 12"

The weight per square foot, .060" is .72 lb.; other thicknesses in direct proportion. Minimum quantity 1 pound.

BELMONT 3050 "TEFLON" RINGS—GASKETS

Rings, gaskets, V-shape, valve discs and cups are made to any shape and size to which fabrication is practicable.

BELMONT 3055 BRAIDED "TEFLON"

Braided from Belmont 3050 "Teflon" Tape, no lubrication:

Coil—1/8" to 1 1/2" inclusive, in coils or spools as requested.

BELMONT 3060 PLASTIC "TEFLON"

This is a plastic compound consisting of shredded "Teflon" and graphite with a synthetic hydrocarbon binder, cross sectional dimensions as follows:

Coil form:	Size	Cross Section
A	5/32" round	
B	1/4" x 5/16" rectangular	
C	3/8" x 7/16" "	
D	1/2" x 5/8" "	
E	3/4" x 7/8" "	
F	1" square	

Ring form: Pressed in a die, endless unless otherwise requested, subject to following limitations:

Dimension	Minimum	Maximum
Inside Diameter	3/8"	10"
Outside Diameter	5/8"	11 1/2"
Packing Space	1/8"	1"

Also available in ring form only in following modifications:

1. "No binder"—binder omitted
2. "No graphite"—graphite omitted
3. "No binder or graphite"—binder & graphite omitted

Belmont Style 3060 Plastic is a "Teflon" packing

which should be of particular interest in the chemical industry against concentrated sulphuric, nitric, hydrofluoric and chromic acids and all alkalis. The use of the binder lowers the resistance to fluorine, chlorine, bromine, sulphur chloride, sulphur oxychloride, hydrogen fluoride, oxygen and concentrated hydrogen peroxide. These chemicals do not affect pure "Teflon".

The binder in Belmont Style 3060 Plastic is required where the packing must respond to delicate gland pressure such as high speed rotary shaft applications. Service can be improved on rotary shafts by the use of "Teflon" spacer rings 1/16" thick between the rings and at the ends of the sets. It is most important that Belmont 3060 Plastic on high speed shafts should show a slight leakage, otherwise destructive seizure of the packing will result.

BELMONT 3065 BRAIDED BLUE ASBESTOS YARN "TEFLON" IMPREGNATION

African blue asbestos yarn each strand impregnated with "Teflon" suspensoid. Furnished graphited or ungraphited as specified.

Minimum quantities:	Up to 3/8"	1 lb.
	7/16" to 1/2"	2 lb.
	Over 1/2"	12 1/2 foot coil

BELMONT 3070 BRAIDED WHITE ASBESTOS YARN "TEFLON" IMPREGNATION

White asbestos yarn each strand impregnated with "Teflon" suspensoid. Furnished graphited or ungraphited as specified.

Minimum quantities:	Up to 3/8"	1 lb.
	7/16" to 1/2"	2 lbs.
	Over 1/2"	12 1/2 foot coil

"TEFLON" ENVELOPE GASKETS

"Teflon" envelope gaskets are made by cutting a gasket .040" thickness from rods or tubes. This gasket is then split from the outer rim to within 1/16" or 3/32" from the inner rim. This results in an envelope into the split opening of which any type of gasket material can be inserted such as red rubber, compressed asbestos, synthetic rubber, woven asbestos.

ADDITIONAL "TEFLON" ITEMS

Additional "Teflon" items can be supplied, namely molded bars, extruded rods and molded sleeves, within the limits of which fabrication is practicable.

Recommendation Chart for the Use of

BELMONT **PACKINGS**

Application	Reciprocating Rods and Plungers			Centrifugal and Rotary Shafts			Globe and Angle Valve Stems		
	Fabric Style	* Metallic Style	Plastic Style	Fabric Style	* Metallic Style	Plastic Style	Fabric Style	* Metallic Style	Plastic Style
Steam	30	866	4000	754P	2056	4000	610	2064	4000
High Pressure	47	2064	4030		2064	4030	740	2080	4030
340° F. and over	745	2060	4035		2060	4035	655	2085	4035
		2080			2080			2090	
		2085			2085			2001	
		2090			2090				
Steam	319	2064	4000	754P	2064	4000	610	2064	4000
Intermediate	1000	2080	4035		2080	4035	740	2080	4035
and Low	102	861			2056			2001	
Pressure	203								
under 340° F.									
Water—Hot	319	2064	4000	754P		4000	610	2064	4000
	1000	2080	4035		2064	4035	740	2080	4035
	102	861			2080			2001	
	9				2056				
	203								
Water—Cold, over 500 lbs. Pressure	303	2064	4000	754P		4000	610	2064	4000
	401x	2080	4035	552	2064	4035	740	2080	4035
	9	861			2080			2001	
					2056				
Water—Cold, Under 500 lbs. Pressure	401x	2064	4000	754P	2064	4000	610	2064	4000
	404	2080	4035	552	2080	4035	740	2080	4035
	9	861			2056			2001	
	203								
	1000								
	408								

NOTE: *Do not use Metallic Packings on Brass or Bronze rods, plungers shafts or Valve stems. Where Metallic and Plastic Packings are used, rods must be in good condition and alignment.

While these recommendations are based on years of experience, no guarantees are made in view of the many peculiarities that may center around one application as compared with another of similar nature. Consult with us for special or unusual services.

Recommendation Chart for the Use of

BELMONT **PACKINGS**

Application	Reciprocating Rods and Plungers			Centrifugal and Rotary Shafts			Globe and Angle Valve Stems		
	Fabric Style	* Metallic Style	Plastic Style	Fabric Style	* Metallic Style	Plastic Style	Fabric Style	* Metallic Style	Plastic Style
Brine	304	2064	4000	754P	2064	4000	610	2064	4000
	401x	2080	4035	552	2080	4035	740	2080	4035
	404	861		401x	2056			2001	
	9								
Ammonia	19	2064	4000	754P	2064	4000	610		4000
	103	2080	4035	552	2080	4035	740	2064	4035
	1001	861			2056		103	2080	
								2001	
Acids	6504			6504			6504		
	"Teflon"			"Teflon"			"Teflon"		
	3065			3065			3065		
Caustics	745			754P			610		
	6504			6504			6504		
	"Teflon"			"Teflon"			"Teflon"		
Air	112	866	4000				610		4000
	759	2064	4035				740		4035
		2080							
	70								
	Westinghouse 750								
Oil	189	866	4000	189	2064	4000	655		4000
	745	2064	4035	754P	2080	4030	610	2064	4030
	754	2080			2085 (Hot)	4035	740	2080	4035
		2085 (Hot)						2085 (Hot)	
Gasoline & light Oils	6102	2064	4000	6106	2064	4000	6100	2064	4000
	754	2080	4035	754P	2080	4030		2080	4030
	303					4035			4035
Asphaltic & Tar Products	189	2064		189	2064	4000	655	2064	4000
	134	2080		754P	2080	4030		2080	4030
	745					4035			4035

NOTE: *Do not use Metallic Packings on Brass or Bronze rods, plungers, shafts or Valve stems. Where Metallic and Plastic Packings are used, rods must be in good condition and alignment.

While these recommendations are based on years of experience, no guarantees are made in view of the many peculiarities that may center around one application as compared with another of similar nature. Consult with us for special or unusual services.

Recommendation Chart for the Use of

BELMONT **PACKINGS**

PUMP PISTON PACKINGS

(Inside Packed)

Application	Coil Style	Ring Style	Application	Coil Style	Ring Style
Hot Water	12 28	309-311 10	Crude Oil— Gasoline & Mineral Seal Oil	12 10	1505 10
Cold Water	12 15	310 10			

SHEET PACKINGS AND GASKETS

Application	Sheet Style	Gasket Style	Application	Sheet Style	Gasket Style	
Steam—high pressure	590	589	Oil—Hot	590	589	
	595	596		595	596	
	594	599	Oil—Cold	590	589	
	595E			595	596	
	603	625		650	658	
	611	629		830	831	
Steam—Low Pressure	604	621		833	834	
	605			1101	1103	
	Water—Cold	604	621	Ammonia	590	589
		612	609		595	596
		650	658		602	642
		830	831		1101	1103
Air	590	589				
	595	596				
			Style			
			Boiler Gaskets	Manhole & Handhole Plates	606	
				B. & W. Tube Plates, oval	622	
				B. & W. Tube Plates, square	626	
				Heine, round	637	
				Heine, oval	633	
				Asbestos, Tubular	619	
				Red Rubber, Tubular	620	

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THE BELMONT PACKING & RUBBER CO

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