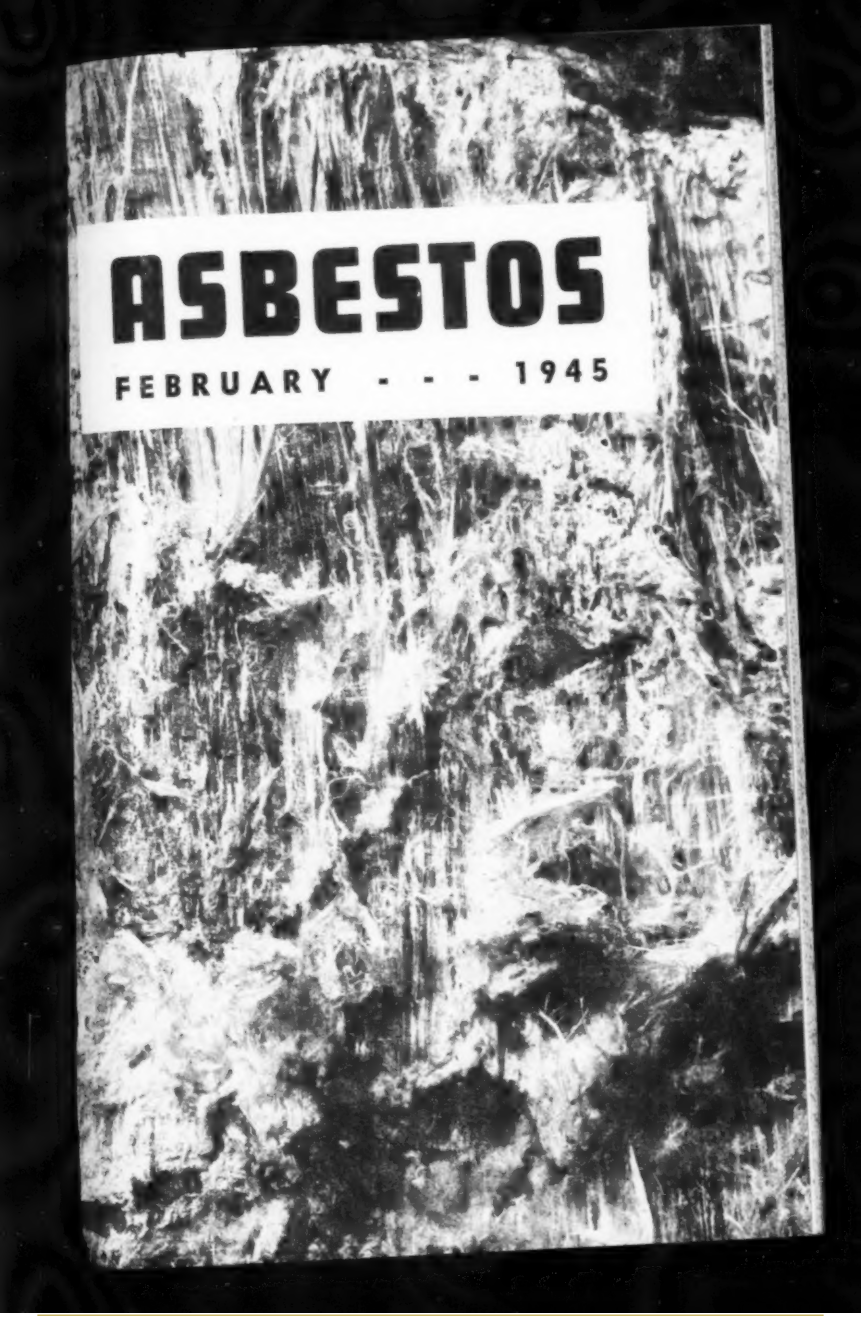


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FOUNDED IN JULY 1919 AND PUBLISHED
MONTHLY SINCE THAT DATE
BY SECRETARIAL SERVICE
17th FLOOR INQUIRER BUILDING
PHILADELPHIA, 30, PENNSYLVANIA

Estate of C. J. STOVER, *Proprietor*
A. S. ROSSITER, *Editor*
E. E. COX, *Circulation Manager*

Entered As Second Class Matter November 23, 1923, at the Post Office at Philadelphia, Pennsylvania, Under Act of March 3, 1879

Volume 26 FEBRUARY 1945 Number 8

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THE FUTURE OUTLOOK FOR ASBESTOS

As N. E. Newman[1] Sees It

No asbestos mines in the world have been damaged due to the War. Not only is every asbestos mine and mill intact, but most of them have been operating at full capacity during the entire war period. Some Asbestos Mines have increased their output. Therefore at the conclusion of the war, the present output of all asbestos mines will be available to all factories in all parts of the world.

During the war, however, the consumption of asbestos has increased. Asbestos factories in Europe have been running on short rations of asbestos, or using substitutes, but these factories will again be in the market for raw asbestos as soon as their economic position enables them to purchase stocks, and as soon as transportation is available.

Some new asbestos factories have come into operation in different parts of the world—in Mexico, Central America and New Zealand. Quite a number of new factories for the manufacture of Asbestos-Cement products are contemplated, not only abroad but also in the United States.

Therefore, it is evident that the future of the asbestos business is unusually bright; prices will not only remain firm but will surely advance at the conclusion of the war, because of the increased cost of labor and mining materials.

There will be a period of six months or more when certain grades of fibre, shingle grades for instance, will be very tight because European factories again will come into operation and new ones beginning to operate will naturally purchase stocks of asbestos in excess of their actual consumption. As these factories adjust themselves to purchasing the quantities they really consume, there will be ample stocks for all users altho the position may be a little difficult.

Even if the present large producing mines of the

[1] President, Asbestos Limited Inc.

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world plan to increase their production, and one or two Canadian mines (American owned) come into operation, it will take a year or more before the increase would be felt on the world's market. Therefore, while there will be no great shortage of asbestos at the conclusion of the war, there will have to be a fair allotment worked out by the producers to all consuming countries to keep all factories operating.

As to substitutes for asbestos—no important use of asbestos has been replaced by any substitute, while, on the contrary, there are new uses for asbestos which did not exist before the War.

On the whole there never was a brighter future for the Raw Asbestos Industry.

. . . —

The North American Philips Company, Inc., 100 E. 42nd St., New York City, has recently issued a 12 page booklet describing X-ray diffraction techniques and applications. The booklet catalogs many specific problems that can be handled in various fields. Its applications to Asbestos are given as "For classifying and selecting fibres; to distinguish between types with entirely different physical qualities when they cannot easily be distinguished by other methods of analysis." Copies of the booklet are obtainable upon request to the Company.

. . . —

Bakelite Corporation announces the introduction of XC-17613—a cold-setting phenolic-resorcinal resin glue for wood bonding which provides maximum water resistance for exterior plywood applications. The properties of this new adhesive, which supplements Bakelite hot- and warm-setting resin glues, are described in detail in an 8-page Technical Data booklet, "Bakelite Cold-Setting Phenolic Resin Glue XC-17613". Another booklet recently published is a 12-page one on "Bakelite Urea Resin Glues". Both books available to business executives on request to Bakelite Corporation, 30 E. 42nd St., New York, 17, N. Y.

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PENICILLIN AND ASBESTOS

By F. N. Hollingsworth

Few, if any, projects, large or small, can be accomplished without the use of asbestos in some form or other; sometimes in a unique or curious application; always in a prosaic way, such as insulation or roofing.

The manufacture of penicillin, especially now that it is produced in quantity, is no exception to this unwritten rule.

The story of penicillin reads like high adventure; the story of asbestos used in the manufacture of this miracle working drug, is most commonplace, but we shall try to combine the two so that readers of "ASBESTOS" will find the whole enjoyable to the last paragraph.

There are 22 plants in North America making or about to make Penicillin. One of these, and one of the largest is that built by the Commercial Solvents Company at Terre Haute, Ind., at a cost of $1,750,000. It will process, by the deep tank method, up to ten million gallons of fermentation liquid annually, to recover about 500 billion units of Penicillin, or at the rate of 40 billion units (30 pounds) of pure Penicillin monthly. This is almost twice the amount produced in the whole United States in the entire year of 1943.

A single unit is only sufficient to cover the head of a pin, and it might require from a half million to four million units to cure the blood infection of one wounded soldier. Total production of the 22 plants (20 in this country and two in Canada) during 1944, is enough to treat 40,000 severe cases of gangrene or other infection per month.

Because the Penicillin molecule is so complex, it has not yet been synthesized and to date the remedy can only be secured by a complicated process of growing a green mold, related to that found on old moldy bread, or Roquefort cheese. With improvements being made in the processes, production is fast being stepped up and the tremendous increase can be seen in the contrast with 1943

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Carey HEAT INSULATIONS



Careycel—For temperatures up to 300° F.

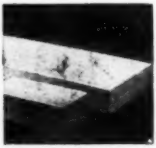
ASBESTOS · MAGNESIA

The CAREY Line includes high efficiency insulating materials of Asbestos and Magnesia for every known service condition—for temperatures ranging from

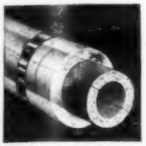
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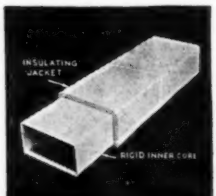
Wholesalers and Applicators of Insulation Materials — write for details and prices.

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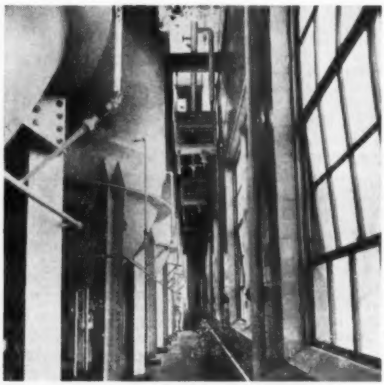


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when only 400 cases could be treated monthly, while in August 1944, the production rate was sufficient to treat 40,000 severe cases of gangrene or other infection per month. When all 22 plants are in full production there will be enough Penicillin to treat 250,000 cases of serious sickness or infection and a half million more of mild cases. The entire process, from culture laboratory to cold dry storage now requires three to five weeks.

Wherever temperature is a factor there asbestos, in the form of insulation of one sort or another, is found. In the Terre Haute plant, the Philip Carey Mfg. Company supplied 12,000 square feet of 85% 1½ inch magnesia block, besides much other insulation. The largest

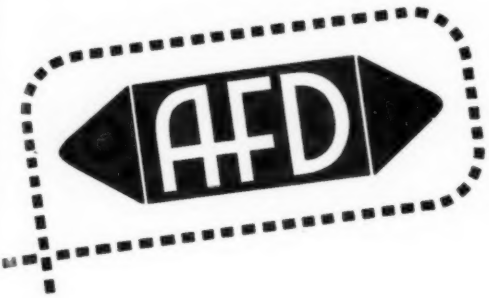


A battery of Fermentation Tanks in which the mold, Penicillium notatum, is grown. Insulation is 85% Magnesia.

Martin's Photo Shop, Terre Haute, Ind.

single application of asbestos is the insulation on the 12,000 gallon fermentation tanks. At least fifteen other smaller tanks and a few hot liquid pumps were also insulated. Magnesia block was also used on a number of storage tanks. About 10,900 linear feet of magnesia covering from 1½ to 2 inch thickness was used to cover pipes ranging in diameter from ¼ inch to 8 inches, and 55,000 pounds of asbestos cement in covering pipe bends and fittings. Hundreds of feet of steam lines are covered

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Asbestos Fibre Distributors

Through the untiring efforts of the research scientists, there are now a thousand and one uses for the rare properties with which nature has endowed her magic mineral . . . asbestos. Supplying the proper asbestos fibre for every specific use has long been the specialty of Asbestos Fibre Distributors. If you would like samples, prices or further information, address:

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Division of Johns-Manville Sales Corp.

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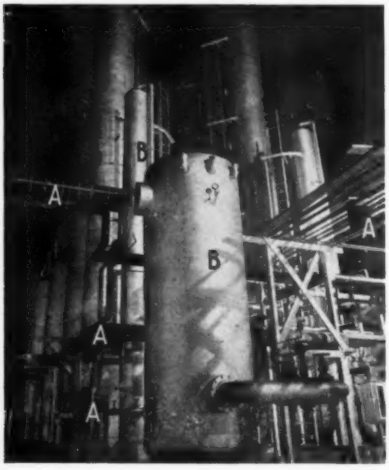
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with asbestos laminated pipe insulation. Some 19,000 square feet of wire netting was also furnished, to afford mechanical support for the magnesia block tank insulation. And steam lines running from the boiler house outside to the manufacturing plant were also insulated.

There are five phases of the production at the Terre Haute plant, which uses the deep tank method in preference to the bottle method of surface production used at some other plants. These steps or stages are:

1. Sub-merged or deep fermentation, utilizing a corn steep liquor, a by-product from the manufacture of a cornstarch. (This is diluted with distilled water and lactose sugar added).
2. Removal of myceelia and charcoal absorption of the Penicillin salts.
3. Solvent purification and formation of the salt.
4. Freezing and high vacuum drying.
5. Testing, packaging and storage.

The corn steep liquor, diluted to the proper strength with the distilled water, is the nutrient for the mold, the



These huge tanks play an important part in the manufacture of Peniccilin.
A—Laminated Asbestos Insulation
B—85% Magnesia Block

Martin's Photo Shop, Terre Haute, Ind.

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VERMONT



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lactose being added up to four percent of the solution. This is thoroly sterilized by steam cooking, by means of steam coils within the tanks.

All operations are conducted under sterile conditions as severe as those of a surgical operating room. In the Terre Haute plant there are 30 of the insulated fermentation tanks and towers, of carbon steel. The 12,000 gallon fermenters are charged with the "mash" from "seed" tanks, the original cultures for which were obtained from the Regional Laboratory of the U. S. Department of Agriculture at Peoria, Ill., where many strains of the green mold have been cultivated because of their higher yield in Penicillin. One of high potency was obtained, for example, by the Laboratory, from a decayed cantaloupe and another from a bit of cheese.

One significant use of asbestos at this plant was of a type of the shredded mineral, called "Filterbestos" from the Industrial Filter & Pump Company of Chicago. This material was slurried with water, approximately three pounds of the asbestos to 400 gallons of water, and the liquid run thru the centrifuge, where the asbestos remained evenly distributed on the filter cloth. In addition some 3500 feet of asbestos insulation was used on some of the piping, this also containing asbestos and running 1 to 1½ inches thick on pipe ½ inch to 12 inches in diameter.

Penicillin is 200 times more effective than the sulfa drugs, and has cleared infected wounds when everything else failed. But it is so unstable that dehydration from the liquid state must be done by high vacuum diffusion pumps, the dry product containing ½ of 1% of water to 20-30% of the sodium salt of Penicillin. The remainder is 70 to 80% of unknown, but harmless, organic substances.

Faced with the problem of engineering this Penicillin plant, E. B. Badger & Sons, Inc., of Boston learned of a new high vacuum diffusion process for quick dehydration of meat that has been developed by the National Research Corporation of Boston. Tho tested only on a

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Manufacturers of a complete line

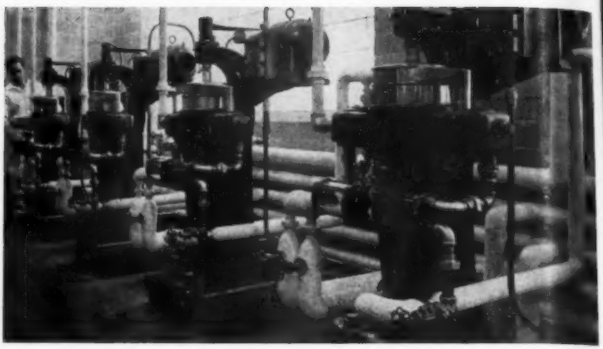
ASBESTOS-CEMENT SHINGLES	ASBESTOS-CEMENT SIDING
ASBESTOS-CEMENT WALLBOARDS	ASBESTOS MARINE INSULATIONS
ASBESTOS ELECTRICAL MATERIALS	ASBESTOS-CEMENT PIPE
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ASBESTOS CORRUGATED	ASBESTOS ACOUSTICAL MATERIAL

Today, all of these K&M products are playing an important role in the War Program; contributing in many different ways to its ultimate success. For the duration, the Nation will continue to have first call on all K&M plants and employees.

Nature made asbestos. Keasbey & Mattison has made it serve mankind . . . since 1873.

KEASBEY & MATTISON COMPANY, AMBLER, PENNA.

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Martin's Photo Shop, Terre Haute, Ind.

With these high speed super centrifuges, emulsions of water and solvent are separated preparatory for further processing. Insulated with 85% Magnesia.

small scale in the laboratory for food, the engineers saw merit in it and decided to risk it in the manufacture of Penicillin. Research engineers started work immediately on the drying out part at the Commercial Solvents plant, while engineering and construction of the new group of buildings went on simultaneously, with the gamble on faith that the process, properly tested in the laboratory, would work under factory conditions. This process has been made available without royalty to other Penicillin producers.

Penicillin was little more than a laboratory curiosity four years ago. First discovered by Dr. Alexander Fleming, a noted British bio-chemist, research into its possibilities was conducted by Dr. H. W. Florey, professor of pathology at Oxford University, under a Rockefeller Foundation grant. Wherever it was used, it was found to stop certain streptococci and staphylococci dead in their tracks. Experiment has proven it effective against pneumonia and certain venereal organisms, and in the treatment of mastoids, meningitis and brain wounds, infected burns, empyema or the accumulation of

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pus in body cavities, cellulitis, inflammation of the cellular tissue, and carbuncles on the lips or face. It is highly effective in open wounds, when applied locally and to surface infections. But it hasn't proved effective by oral administration, as the hydrochloric acid of the stomach inactivates it.

Because it is so scarce, it has been impossible to conduct much research into its possibilities. It is known, however, that so far it is not effective in tuberculosis or malaria. So, until scientists, who are now toiling in laboratories, succeed in splitting it into its elements for synthesis, its uses are still limited in range. To date there is a total of $20,000,000 invested in plants for the production of Penicillin.

. . . —

A man has to live with himself and he should see to it that he always has good company.—Charles Evans Hughes

ASBESTOS CEMENT CHEMIST

Experienced in manufacture of cement asbestos products. Research and development. Company has excellent post war future. Wonderful opportunity for the right man. Location—Metropolitan New York area. Send complete resume, including draft status, to Box No. 2F-N, "ASBESTOS", 17th FL., Inquirer Bldg., Phila., 30, Pa.

WANTED

First-class man for sales and engineering work in Insulation Sales and Construction work. Prefer engineering graduate, age 35-45, with at least six years' experience. Fine salary. Position vacant. Reply by letter stating experience and salary expected and availability. Also be prepared to give references. Address Box 12W-F, "ASBESTOS" 17th Floor, Inquirer Bldg., Phila., 30, Pa.

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"THE DEPENDABLE STANDARD—MODERNIZED"
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"SEA RING" PACKINGS LAST TWENTY-TWO YEARS

A Service Tale[1]

On June 24, 1922, a set of J-M Sea Rings was installed in an Ingersoll Rand air compressor at the plant of the Hamilton Manufacturing Company, Two Rivers, Wis. A month or so ago it was decided to remove them and replace them with another set.

The accompanying photograph of the set removed tells their story—the rings show very little wear for the more than a score of years in which they functioned; in



These Packings were in continuous operation, averaging 1¼ hours a day for 22 years.

fact from all indications they might have continued to serve many more years.

The Hamilton Manufacturing Company is one of the largest manufacturers of drafting room equipment in the world. It was founded in 1880; today its plant covers 22 acres and employs about 1300 men.

Johns-Manville first started making Sea Rings about 50 years ago, for use in packing reciprocating rods and plungers.

[1] Readers are urged to send similar stories of their products.

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ASBESTOS

ASBESTOS CORPORATION LIMITED

THETFORD MINES

QUEBEC CANADA

REPRESENTATIVES

GREAT BRITAIN: ..... W. A. JANITCH,
6 Maresfield Gardens, London, N. W. 3

U. S. A.:

BALTIMORE, MD.: ..... WALLACE & GALE CO.,
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MARKET CONDITIONS

GENERAL BUSINESS

The set-back in the European theatre of war has caused a sharp change in general business activity. Plans for reconversion to civilian production have been held up, production of war equipment has been stepped up, scarcities of some commodities and articles have become more noticeable with no relief in sight. The coal situation is serious; manpower problems are more complicated.

At the moment the war situation is somewhat improved, but while it seems probable that victory in Europe will soon be in sight, the final pull will require the best we can give it.

ASBESTOS - RAW MATERIAL

"Canadian Mines" says one correspondent, "are moving practically all grades of fibre as fast as they are being produced. Demand is still on the upgrade. There is only a small stock of shingle fibre at the Canadian Mines and if ships were available it would move quickly.

"There are now ample stocks on hand in this country of all grades of asbestos, including Russian, Rhodesian, Blue and Amosite. Allocation by the Cork, Asbestos and Fibrous Glass Division of the War Production Board, of asbestos fibre to all users, has proven very successful."

And another correspondent writes: "Indications are that the current demand for all grades of Asbestos Fibre should continue relatively uniform because of the lack of additional manpower to extend production. The estimated demand for spinning fibre appears safely covered by the proposed production.

"Shipments of shingle fibre to the liberated countries in Europe are starting and will no doubt increase with further stability and return to normal. The export demand for shingle fibre after the war, plus the backlog of the American demand when manpower is available, would indicate a high production of these grades for several years. The demand for spinning will probably hold up until the dammed up civilian requirements have been taken care of

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Mines

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FOURTEEN MILES DOWN TO THE

First leg of its journey to America . . .

As an aeroplane flies, the romantic little island of Cyprus lies right in the line of trouble, for it is directly between occupied Greece and Syria. But its brave Greek and Turk inhabitants carry on, mining and rushing precious raw Asbestos to America.

No trains or ox carts here, but fourteen long, tedious miles of aerial tramways . . . reaching over mountain slopes and valleys from the heart of the asbestos mines, down five thousand feet to the sea. There await battle-tested freighters

ASBESTOS

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TH...A... FROM A MILE IN THE SKY

...Asbestos comes down the mountainside

— steam up — to cross the Mediterranean and Atlantic — ready to brave five thousand treacherous miles of war-troubled waters . . . to bring vital raw Asbestos to America . . . for American industry and for Victory!

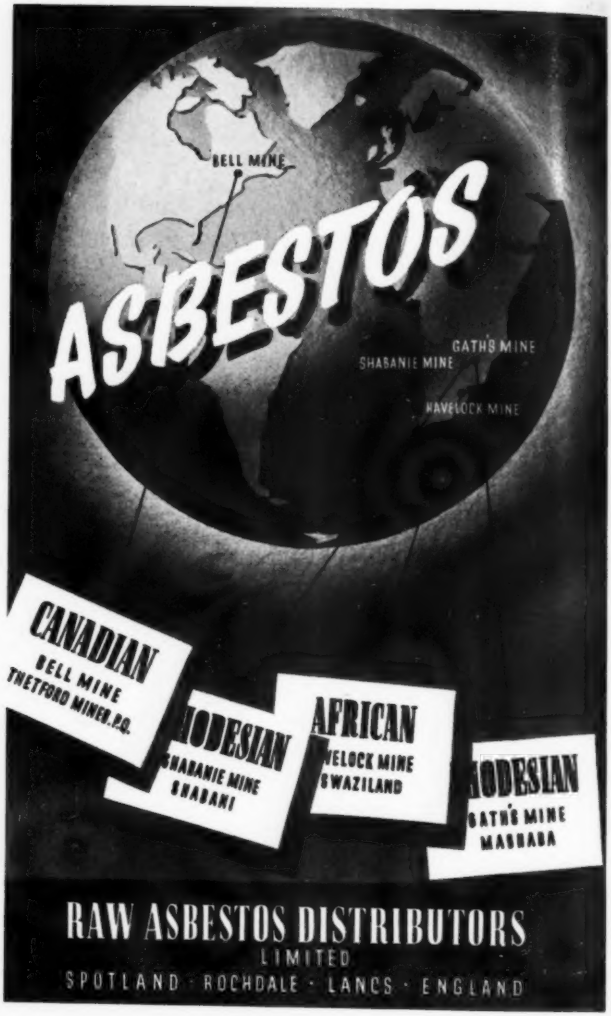
★ ★ ★ ★ ★

Asbestos Limited Inc. is the only company in America that specializes in the supply of raw Asbestos from every known source — to supply American industry with the right type of Asbestos for every specific need. Asbestos Limited Inc. also manufactures Cyprus Asbestos Siding, and is the creator and exclusive manufacturer of New Era Insulation — the lightest rigid insulation for all temperatures.

TOS ITED INC.

NNESB OUTH AFRICA . . . WORKS: MILLINGTON, NEW JERSEY

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and then taper off to a much lower level than the wartime demand, probably 50%.

"Requirements for shorter grades should increase from present levels as building demand grows and accessory materials become available. New developments and the expansion in composition flooring and plastics will aid in the increase of short fibre users."

ASBESTOS - MANUFACTURED GOODS

Textiles. The outlook for textiles for the year 1945 appears to continue to be fairly strong. While there was a sizable cut-back in the requirements of the shipboard cable manufacturers for asbestos rovings, etc., there still is large demand for asbestos fabrics, friction materials, packings. Some idle equipment exists in the Industry because of lack of manpower, but not because of lack of potential business.

While a number of new products have been developed solely for war purposes there are really great possibilities for a wider use of textiles in the postwar period because of finer technique and better "know-how" on the part of the textile manufacturers.

Some expansion of equipment has been made in the Industry, but the fact remains that a number of manufacturers are planning to scrap obsolete and inefficient equipment in the postwar period. This will possibly mean that the capacity of the Industry will come back somewhere near its pre-Pearl Harbor figure.

The outlook is big for several years after the war and there is no reason why the demand will not be sufficient to asborb all of the Industry's capacity and bring about good business for everyone concerned.

Brake Lining. Sales of friction materials during December 1944 decreased not only from December 1943 but also showed a decrease in volume from the previous month (November 1944). However, for the year, because of higher volumes during the first nine months of 1944, the total exceeded that for 1943.

Domestic consumption sales decreased from Decembe 1943 but for the year (1944) recorded the highest amount on record. Overall export sales in December 1944 increased

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over December of the previous year, and the total annual volume for 1944 exceeded that for 1943.

Asbestos Paper and Millboard. Demand is reported as steady, with prices firm.

High Pressure Insulation. There appears to be no let-up in the demand for the high pressure types of insulation; prices are reported as firm. Post-war prospects are good—in fact we are told that the present level of demand should continue for sometime after the war is over.

Low Pressure Insulation. Requirements will probably retain present level of demand for sometime after the war.

Asbestos-Cement Products. Labor shortages continue to limit the production of asbestos-cement products of all kinds so that every producer is substantially oversold. In fact recent rulings by the War Manpower Commission may result in further spread between orders and production. Furthermore there has been a marked increase in government requirements for flat and corrugated sheets during the past few weeks. Some of these materials are required for prefabricated housing for shipment abroad, while a substantial quantity is required for construction of additional war plants here in this country. The government may need a much greater percentage of all types of asbestos cement products during the next few months than at any time during the past year or two, which means that there will be less asbestos cement materials available than usual for civilian needs. It is likely, in fact, that the buildings at Army Camps and other Government owned properties having non-permanent sidewalls will be resurfaced with permanent asbestos-cement siding.

After the war, during a period of low price housing, civilian demand will be just fair, but will increase as the price bracket in housing improves.

The asbestos pipe situation will not be substantially changed until hostilities in Europe are practically over. The market in pipes after the war should be substantial, because of curtailed activities (where this product is used) during the war period.

The above comments are made by men closely in touch with the conditions in their various fields. Comments from all readers are always welcome.

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Consider:

Ease of Application
Exceptional Appearance
Extraordinary Efficiency
Enduring Quality

OF

NORRISTOWN INSULATIONS

"Ask the Man Who Applies It"

●

NORRISTOWN
MAGNESIA & ASBESTOS CO.
NORRISTOWN PENNSYLVANIA

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CONTRACTORS AND DISTRIBUTORS PAGE

BUILDING

Preliminary estimates of new construction volume in the United States in 1945, based on the assumption that war on both fronts will continue thruout the year, indicate an activity volume of $3,250,000,000 according to WPB Release 7139, dated January 15th. The volume forecast for 1945 is the lowest volume of construction since 1935.

This estimated activity is 82% of the 1944 volume and 24% of the peak 1942 performance. Almost half the 1945 volume will be accounted for by privately-financed work, as contrasted to 40% in 1944 and 20% in 1942 and 1943.

Overall new construction volume during December 1944 amounted to $292,000,000, a 6% decline from November. All major types of construction declined during the month except industrial building. Government-financed plant construction as a whole continued at the previous month's level and totaled $65,000,000 as further activity increases at recently programed Army ordnance facilities offset continued declines at projects in other agency categories. Privately-financed industrial building also increased during December 1944 contrary to the normal seasonal trend, and amounted to $26,000,000, which was 53% above the activity for this type in December 1943. Military construction in December held the November level, while civilian housing activity and all other types of non-industrial construction registered seasonal declines.

December activity brought the grand total of new construction work put in place for 1944 to $3,940,000,000, which was slightly more than half the $7,732,000,000 volume of 1943, and less than one-third the 1942 peak activity of $13,434,000,000.

WAGE RATES

New list of wage rates for Asbestos Workers (Pipe Coverers) published in The Asbestos Worker (Official Quarterly Journal of The International Association of Heat and Frost Insulators and Asbestos Workers) shows only a few changes from the list which was published in our August 1944 number.

The Denver, Colo. rate is now $1.50 (previous rate $1.40); Omaha, Nebr., is now $1.55¼ (previously $1.50) and Essex and Hudson Co., N. J., now $1.87½ (previously $1.75).

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AREA OF BODIES FOR VALVES, TEES and ELLS

400LB. SERIES (V.T.& E.)

PIPE SIZE	METAL AREA	1" *	1½" *	2" *	2½" *	3" *	3½" *	4" *	LENGTH OF BODY
½"	.10	.24	.38	.52	.66	.79	.93	1.07	5¼"
¾"	.14	.29	.44	.59	.74	.88	1:03	1.18	5⅝"
1"	.21	.41	.60	.79	.98	1.17	1.37	1.56	7¼"
1¼"	.30	.51	.72	.93	1.14	1.34	1.55	1.76	7⅞"
1½"	.36	.59	.82	1.05	1.28	1.50	1.73	1.96	8⅝"
2"	.50	.76	1.01	1.26	1.51	1.76	2.02	2.27	9½"
2½"	.61	.87	1.13	1.39	1.65	1.91	2.17	2.42	9¾"
3"	.89	1.20	1.50	1.81	2.11	2.41	2.72	3.02	11½"
3½"	1.10	1.42	1.74	2.06	2.38	2.70	3.02	3.34	12¼"
4"	1.32	1.67	2.02	2.37	2.72	3.07	3.42	3.77	13¼"
5"	1.83	2.23	2.63	3.03	3.43	3.82	4.22	4.62	15"
6"	2.35	2.83	3.31	3.79	4.27	4.74	5.22	5.70	16⅜"
8"	3.74	4.27	4.80	5.32	5.85	6.37	6.90	7.43	19¾"
10"	5.23	5.83	6.43	7.02	7.62	8.21	8.81	9.41	22¼"
12"	7.12	7.79	8.45	9.12	9.78	10.44	11.11	11.77	25½"
14"	8.49	9.22	9.95	10.67	11.40	12.12	12.85	13.58	27¾"
16"	10.68	11.48	12.27	13.06	13.85	14.64	15.44	16.23	30½"
18"	13.09	13.97	14.84	15.72	16.59	17.46	18.34	19.21	33¼"
20"	15.75	16.69	17.63	18.56	19.50	20.43	21.37	22.31	36"
24"	22.32	23.43	24.53	25.64	26.74	27.84	28.95	30.05	42½"

*Denotes sq. ft. area at thickness shown from metal. Use metal area for first layer of blocks.

Ninth in the series of Area Tables compiled by Elbert R. Sitton.

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CANADA'S ASBESTOS GOODS

Statistics of Asbestos Manufactures in 1943

"The Asbestos Products Industry in Canada, 1943" just published by the Department of Trade and Commerce of the Dominion Bureau of Statistics at Ottawa, Canada, gives full statistics on the asbestos manufacturing industry in Canada for that year.

Total production of asbestos manufactures in Canada during 1943 was valued at $5,244,738, an increase of 2.8% over the 1942 total of $5,101,259. These figures were divided as follows:

		1943		1942	
	Unit	Quantity	Cost	Quantity	Cost
Asbestos brake linings					
Moulded	ft.	4,157,728	$1,326,839	4,590,036	$1,551,105
Other	ft.	1,826,829	458,828	1,492,199	403,904
Asbestos boiler and pipe covering	ft.	5,137,846	801,017	4,446,893	532,574
Asbestos clutch facings	no.	.....	179,781	628,649	203,071
Asbestos gaskets	lb.	.....	31,636	66,213	38,318
Asbestos packings	lb.	487,798	224,937	559,828	241,929
All other products*	.....	.....	2,221,700	.....	2,130,358
			$5,244,738		$5,101,259

*Indicates products made by 1 or 2 firms such as asbestos dryer felt, hydraulic brake hose, asbestos shingles, asbestos yarn, paper, cloth, etc. The following table gives various statistics of interest.

The following table gives various statistics of interest:

	1943	1942
Number of Plants	13	13
Capital employed	$5,798,080	$3,732,834
Average number of employes	948	870
Salaries and wages	1,396,708	1,167,961
Cost of fuel and electricity at works	180,871	179,253
Cost of materials at works	2,424,245	2,392,492
Gross selling value of products at works	5,244,738	5,101,259

Of the 13 factories engaged in the industry in 1943, 6 were in Quebec, 1 in Nova Scotia and 6 in Ontario.

Other tables, divided by Provinces and concerning hours worked, salaries and wages, etc., are included in the report, which may be obtained at the price of 25c from the Department of Trade and Commerce at Ottawa.

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NEWS OF THE INDUSTRY

BIRTHDAYS

C. J. Sherer, Vice President and Treasurer, Russell Mfg. Company, Middletown, Conn., February 18.

I. J. Harvey, Jr., President and Director, The Flintkote Co., New York City, February 20.

Clarence E. Witherspoon, President, Asbestos Construction Co., Inc., New York City, February 20.

G. W. Marshall, Jr., General Manager, Industrial Sales Division, Raybestos-Manhattan, Inc., Manheim, Pa., February 21.

J. Albert Taylor, Vice President and Secretary, Wallace & Gale Co., Baltimore, Md., February 24.

Roland C. Sprinkmann, Sprinkmann Sons Corp., Milwaukee, Wis., February 26.

A. S. Johnson, Managing Director, Johnson's Co., Thetford Mines, P. Q., Canada, February 28.

Leonard Krez, Secretary, Paul J. Krez Co., Chicago, Ill., February 28.

Carl Bindman, Sales Manager, Johnson's Company, Thetford Mines, P. Q., Canada, March 7.

M. E. Curtis, President and Treasurer, Curtis Asbestos Co., Boston, Mass., March 7.

P. M. Taft, President, P. M. Taft Asbestos Co., Holyoke, Mass., March 9.

W. L. Markert, President, Brooks-Fisher Insulating Co., Atlanta, Ga., March 10.

Harry A. Kieselbach, General Manager Insulating Dept., Johns-Manville, New York City, March 14.

To all these gentlemen we extend congratulations and best wishes on the occasion of their birthdays.

THE MANHATTAN RUBBER DIVISION of Raybestos-Manhattan, Inc., on January 25th, gave a dinner in honor of the first two plant employees to complete 50 years of service, Andrew N. Van Riper and Morris G. Fitts. The dinner was attended by approximately 500 persons, and marked the organization of the Manhattan Pioneers, composed of Manhattan Rubber employees who have been with the company 25 years or longer. The majority of those present were members and their wives.

F. L. Curtis, Vice President and Treasurer of Raybestos-Manhattan, Charles H. Kuhn of the New York Sales Force, and Charles E. Cummings, Assistant Secretary, have also been with Manhattan for over half a century. All of them received gold pins with five diamonds, each diamond emblematic of five years of service beyond the 25 year mark. Other members of the Manhattan Pioneers will receive gold pins as soon as war restrictions permit their manufacture.

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KENNETH W. HUFFINE, V. P., J-M PRODUCTS CORPORATION

Organization of a new Engineering Department of Johns-Manville was revealed on January 9th with the announcement of the election of Kenneth W. Huffine as Vice President of the Johns-Manville Products Corporation.

Formerly manager of J-M plant at Waukegan, Ill., Mr. Huffine in his new capacity will be in charge of the new department at New York headquarters created to consolidate engineering activities in the mining and manufacturing division to meet the production demands of wartime operations, and to expand plant engineering programs in preparation for post-war production plans of the company.



Kenneth W. Huffine.

Mr. Huffine is a native of Kerlin, Ind., and a graduate of Purdue University where he captained the football team in 1919. Following his graduation he played professional football and was a member of the original Chicago Bears team.

Prior to his association with Johns-Manville he held engineering positions with the Interstate Steel Mill, the Webster Engineering Company, General Motors Corporation and the Banner Rock Products Company. He became affiliated with Johns-Manville when the Banner Rock firm merged with Johns-Manville in 1929.

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FRANCE PURCHASES CANADIAN ASBESTOS

In order to start the French Asbestos factories operating on a full production basis, the Supply Mission of France in Washington purchased thru Asbestos Limited Inc., 8 West 40th Street, New York City, 3,085 tons of Canadian Spinning Fibre and Shingle Fibre, for immediate shipment. The contract was in excess of $320,000. This is the largest single order for asbestos thus far placed for the rehabilitation of any European country.

C. R. WIKEL has been named to succeed Kenneth W. Huffine, as Plant Manager at the Waukegan, Ill., factory of Johns-Manville. Mr. Wikel was formerly Assistant to Plant Manager.

BELL ASBESTOS MINES LTD. Lt. Col. George W. Smith, formerly a director and Secretary-Treasurer, now on leave of absence with the Canadian Armed Forces, Overseas, was recently made an Officer of the Order of the British Empire.

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• BLUE ASBESTOS

The Cape Asbestos Company, Ltd., is the world's largest supplier of acid-resistant blue crocidolite asbestos, and the only manufacturer operating its own mines. Inquiries solicited on:

MILLBOARD **YARNS**
ROVINGS **POWDER** **CLOTHS**
PROCESSED FIBRES
Unexcelled for use in
ASBESTOS CEMENT PIPES

• AMOSITE ASBESTOS

This fibre owing to its great length and bulk is unrivalled for use as an insulating medium in:

Asbestos mattress filler
85% Magnesia Insulation

The CAPE ASBESTOS CO. Limited

Morley House, 28-30 Holborn Viaduct, London, E.C.1.
FACTORY, BARKING, ESSEX

United States Sales Agent:
ARNOLD W. KOEHLER
415 LEXINGTON AVE. **NEW YORK CITY**
TELEPHONE—VANDERBILT 6-1477

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JOHNSON'S COMPANY CELEBRATES ANNIVERSARY

A unique ceremony was held at the Head Office of Johnson's Company at Thetford Mines, Que., on January 27th. The occasion was the unveiling of a bronze plaque commemorating the 60th Anniversary of the Company's incorporation and the 70th anniversary of its establishment.

Johnson's Company is not the largest Raw Asbestos Producer, nor does it claim any phenomenal growth. It takes pardonable pride in the fact that it is a truly pioneer Company in that its original founders risked their all in the development of Asbestos Mining. In the early years of this Industry it took courage and foresight to stake out the mine, to invest money in the development work, to defend the infant Company against natural hazards of mining and the early rigors of competition.

Asbestos was relatively unknown in 1875. Yet the late Andrew S. Johnson, his brothers, William and John, and their associates, John Mooney and the Hon. George Irvine, had faith and confidence in the future of Asbestos Mining. They imbued their descendants with the same spirit. The present directorate are second and third generation Stockholders, and the original investments are still intact in the Estate of all the founders.



Dr. J. A. Johnson

The present President of the Company, Dr. J. A. Johnson, is a nephew of Andrew S. Johnson, and the fourth son of William J. Johnson, both of whom were a part of the original Board of Directors. Dr. Johnson is the eighth president and has just completed his eleventh year in that office.

Johnson's Company is proud of its War Effort. Virtually 90% of its product goes directly or indirectly into war materials, especially into Naval construction. Since Canada's entry into the war, mines and mills have worked three shifts at full time, with but minor shutdowns for urgent repairs. The Company is also proud of its labor relations. There has not been any labor dispute in over 20 years. Many of its employees have been with the Company for more than 25 years, quite a few have a record of 40 and 45 years of service. The late Secretary-Treasurer, A. M. Robinson, held that post for 56 years.

Johnson's Company has a world wide distribution of its products. Before World War II it had representatives in many parts of the world, and after cessation of hostilities it hopes to play an important role in Reconstruction and in the rehabilitation of its men who volunteered for the Services.

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CORTLANDT F. AMES, JR., DIES SUDDENLY

Cortlandt F. Ames, Jr., manager of residential building materials for Johns-Manville, and one of the best known personalities in the building materials industry, died of a heart attack on January 18th, at the Seaview Country Club, Absecon, N. J., where he was representing his company at a meeting of the Insulating Board Institute.

Mr. Ames was 50 years of age. He was a past president of the Insulating Board Institute, and, as a representative of Johns-Manville, was active in the affairs of the asphalt roofing industry, the asbestos-cement roofing and siding industry and the mineral wool industry.

He was born in Chicago and started his career in the building industry with the Barrett Company in 1912, after brief service as an advertising solicitor for the Chicago Daily News. In 1928 he left a sales executive position with the Barrett Company to join Johns-Manville.

TURNER & NEWALL LIMITED

Directors' Report and Balance Sheet as of September 30, 1944, has been received and shows (compared with 1943):

	Year Ending Sept. 30, 1944	Year Ending Sept. 30, 1943
Profit after Management Expenses and Provision of Subsidiaries for U. K. Income Tax	£2,513,915	£2,710,801
Depre., Directors' Fees, Income Tax, Natl. Defense, Excess Profits Tax, etc.	1,968,250	2,157,509
Net Profit for Year	545,665	553,292
Balance Brought Forward from last year	99,457	78,440
	645,122	631,732
Dividends (already paid) Pref. and Ordinary less income tax	165,605	165,605
Available Balance	479,517	466,127
Which Directors recommend be appropriated as follows:		
Final Div. on ord. stock (making 12½% for year, after deduction of income tax)	256,670	256,670
Turner & Newall Welfare Trust Limited	10,000	10,000
General Reserve	100,000	100,000
Leaving Balance to carry forward	£ 112,847	£ 99,457

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UNMANUFACTURED ASBESTOS was removed from import control on February 1st by WPB thru amendment of Order M-63, according to Release WPB (LD-1194). This action was taken because adequate stocks of unmanufactured asbestos for present needs have been built up in the United States and military requirements have been reduced.

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DAVID P. SEAMAN MADE ASSISTANT MANAGER CAREY N. Y. DISTRICT

Appointment of David P. Seaman as assistant manager of the New York District of The Philip Carey Manufacturing Company, has been announced.



David P. Seaman

Mr. Seaman is widely known in eastern building and building finance circles, having been vice president of The Nassau Suffolk Lumber Company chain of retail building material yards on Long Island. In 1941 he was elected vice president and director of The Suffolk County Federal Savings & Loan Association. He will continue to hold both positions in addition to his connection with be Carey Company.

Mr. Seaman will specialize in assisting the company's dealers to set themselves up as a prime source of information for prospective home builders. Mr. Seaman's headquarters will be at the Carey Company's New York Office, 60 E. 42nd Street.

THERMOID WILL PURCHASE GRIZZLY

F. E. Schluter, President of Thermoid Co., has announced plans to purchase Grizzly Manufacturing Co.'s West Coast plant and equipment located at Los Angeles, Calif. The purchase will include the complete line of Grizzly oil field, industrial rubber and aviation products and all patents covering those products—including inventories and accounts receivable.

There will be no change in the Grizzly line of industrial and oil field products; the Grizzly trademark will be continued on those products by Thermoid for a limited period of years. Walter Smith, Vice President and General Manager of Grizzly Manufacturing Co. will continue for a limited time as manager of the Los Angeles plant.

This acquisition will supplement Thermoid's already broad lines of industrial rubber and oil field products. All Grizzly industrial rubber products, such as air hose, steam hose, packings, transmission belting and conveyor belting, which had to be discontinued for war production will be manufactured in the Los Angeles plant after V-E Day. New products for Thermoid's Industrial Rubber Division will be Hydromatic Press Pads for factories and patented Tail Wheels, now standard on many war planes and visualized for important industrial uses on factory mobile equipment.

With factory and warehouse facilities in Los Angeles, Thermoid will be able to give better and faster service to Thermoid's many customers on the Pacific Coast.

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CAROLINA ASBESTOS COMPANY

CUSTOM MANUFACTURERS
OF
ASBESTOS TEXTILE PRODUCTS

CAROLINA ASBESTOS TEXTILES

ARE COMPLETELY ENGINEERED FOR MODERN REQUIREMENTS IN THE MANUFACTURE OF SAFETY-CLOTHING, ELECTRICAL HEATER-CORDS, DRYER-FELTS, PLASTICS AND MANY OTHER PRODUCTS REQUIRING THE USE OF ASBESTOS TEXTILES.

ASBESTOS YARN — CORD — CLOTH
ASBESTOS ROVING — TUBING — WICKING
ASBESTOS CARDED FIBRES — LISTING TAPES
OIL BURNER WICKING

CAROLINA ASBESTOS COMPANY

EXECUTIVE OFFICES:
DAVIDSON, N. C.

FACTORIES:
DAVIDSON, N. C.
MARSHVILLE, N. C.

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THERMOID COMPANY PROMOTES FRED D. BEECHER



Fred D. Beecher

F. E. Schluter, President of Thermoid Company, has announced the appointment of Fred D. Beecher as Director of Automotive Replacement Sales.

Mr. Beecher, who succeeds Charles A. Klaus recently resigned, has been associated with Thermoid Company since 1928. Previous to his present promotion he was Thermoid's Eastern Manager of Automotive Replacement Sales.

Walter Chick, who has been assisting the Director of Automotive Replacement Sales, will continue to serve in this capacity under Mr. Beecher.

ARCTIC CIRCLE EXPLORATION, Inc. We understand thru the Mining Journal (published at Phoenix, Ariz.) that this firm shipped about 25 tons of asbestos from its mine on Cosmos Mountain in the Shungnak area near Candle, Alaska, during the autumn months, and has 15 more tons sacked, ready to go out by plane, probably about March 1st. Gene F. Jack of Candle is superintendent of the mine, and James S. Robbins, of Candle s general manager.

ABSCO NEWS, house organ of the Asbestos Supply Company of Seattle, Wash., has dedicated its very attractive and informative December 1944 number to the Farmers of the Pacific Northwest.

"ASBESTOS INDUSTRY IN 1943", fairly comprehensive article covering that period, appears in the November 11, 1944 number of the South African Mining and Engineering Journal.

"INTERNATIONAL TRADE IN NONMETALLIC MINERALS" by Oliver Bowles, Chief, Nonmetal Economics Division, U. S. Bureau of Mines, appears in the January number of Mining & Metallurgy, published at 29 W. 39th St., New York City. Asbestos is mentioned in the article.

"PUTTING ON THE BRAKES" by C. R. Simmons of Durez Plastics & Chemicals appeared in the October 1944 issue of Modern Plastics magazine[1]. The article describes the Pharis Tire & Rubber process of making molded brake blocks and lining.

[1]Published at 122 E. 42nd St., New York City.

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J-M ANNUAL REPORT

Consolidated net earnings of Johns-Manville in 1944 were $5,476,213 or $6.39 per share of common stock, compared with $4,655,280 or $5.27 per share in 1943, according to annual report released to stockholders on January 31st. The 1944 earnings were equivalent to 5.4 cents on the sales dollar.

Before taxes of all kinds, 1944 earnings were $14,765,345 which was $1,418,706 less than in 1943. The decrease was due, according to the report to "lower sales and increased costs of operation, offset in considerable part by a reduction of $2,260,000 in provision for contingencies. Sales for 1944 were $101,211,499. compared with $107,418,305 in 1943.

Consolidated Income account follows, comparing with 1943:

	1944	1943
Sales, less cash dis. and allowances	$101,211,499	$107,418,305
Mfg. cost, selling and adm. expenses, etc., exclusive of taxes shown below	85,646,154	88,174,254
	15,565,345	19,244,051
Provision for contingencies	800,000	3,060,000
Federal, state, local and Canadian taxes	9,289,132	11,528,771
	10,089,132	14,588,771
Net income	5,476,213	4,655,280
Dividends paid	2,381,250	2,087,500
Balance to earned surplus	3,094,963	2,567,780
Earned surplus at beginning of year	20,029,421	17,461,641
	23,124,384	20,029,421
Less: Transferred to Common Stock	2,620,102	.....
Earned surplus at end of year	$ 20,504,282	$ 20,029,421

NORRISTOWN MAGNESIA & ASBESTOS CO. announce the appointment of Harold W. Donnelly as Assistant Sales Manager, Mr. Donnelly was formerly Production Manager and assumed his duties in the Sales Department as of January 10th.

THE HOMESTEAD INDUSTRIAL SOUND CONTROL, 45 Granby St., Hartford, Conn., a division of The Homestead Corporation, has recently published an attractive book on Industrial Control, which contains comprehensive information on the subject, including graphs of tests made and other data.



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PRODUCTION STATISTICS

Canada.

(From Dept. of Mines, Province of Quebec)	1944 Tons (2000 lbs.)	1943
November	35,907	38,706
December	32,064	36,254
Total for Year	416,816	467,196

PUBLICATIONS AVAILABLE

Asbestos Mining Methods. (Reprint)—25c per copy, discount in quantities of 50 or more.

The Asbestos Factbook (2nd Edition)—Much information about asbestos, in compact form—10c per copy.

Canadian Chrysotile Asbestos Classification (reprint)—25c per copy, or 15c ea. in quantities of 10 or more.

Twelve Estimating Tables with Chart. Convenient in figuring flange fittings and other areas—$1.00 per set.

Manual of Unit Prices (for figuring pipe covering and blocks)—30c per copy postpaid.

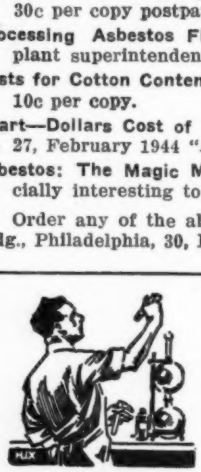
Processing Asbestos Fibres (Reprint)—of interest to textile plant superintendents or foreman—25c per copy.

Tests for Cotton Content (Reprint from May 1944 "ASBESTOS".) 10c per copy.

Chart—Dollars Cost of Uninsulated Pipe. Reprinted from Page 27, February 1944 "ASBESTOS". 20c each.

Asbestos: The Magic Mineral, by Lilian Holmes Strack. Especially interesting to school children—$1.00 per copy.

Order any of the above from "ASBESTOS", 17th Fl., Inquirer Bldg., Philadelphia, 30, Pa.



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THIS and THAT

The International Lighting Exposition, scheduled for Chicago on April 19th to 23rd, has been postponed until 1946. The action resulted from the desire of the sponsors, (National Electrical Manufacturers Association) to co-operate fully with the desire of the government to reduce travel resulting from conventions and expositions.

. . . —

Application has been made by Bitulac, Ltd., of Newcastle-on-Tyne, England, for the registration of the trade mark "Bitulac, for mixtures of asbestos and bitumen (the asbestos predominating) to be used in articles for packing, stopping or insulating.

. . . —

The National Chamber of Commerce has cancelled its 1945 annual meeting which had been scheduled for New York City the first week in May.

. . . —

The leading lamp and lighting equipment manufacturers of the United States will hold an International Lighting Exposition at the Palmer House, Chicago, next April 19 to 23, 1945, at which will be unveiled the newest developments in lamps and lighting equipment for industrial plants, schools, offices, stores and similar locations and at the same time show how better lighting is speeding war production and helping to win the war. The Exposition is sponsored by the Industrial & Commercial Lighting Equipment Section of the National Electrical Manufacturers Association.

. . . —

A. S. T. M. Committee Week, planned for February 26 to March 2nd, has been cancelled, and the Spring Meeting of the Society, scheduled for February 28th, has been deferred, because of the transportation emergency. Further announcement will be made.

. . . —

TOUGH WAR AHEAD. BUY BONDS

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CURRENT RANGE OF PRICE

As of February 10, 1945

Canadian—	Per Ton (2000 lbs.) f.o.b. Mine (In U. S. Funds)
Group No. 1 (Crude No. 1)	$650.00 to $750.00
Group No. 2 (Crude No. 2; Crude Run-of-Mine and Sundry)	165.00 to 385.00
Group No. 3 (Spinning or Textile Fibre)	124.00 to 233.50
Group No. 4 (Shingle Fibre)	62.50 to 82.50
Group No. 5 (Paper Fibre)	44.00 to 49.50
Group No. 6 (Waste, Stucco or Plaster)	33.00 to 34.00
Group No. 7 (Refuse or Shorts)	14.50 to 29.50

Vermont—	Per Ton (2000 lbs.) f.o.b. Hyde Park, Vt.
Shingle Stock Fibres	$62.50 to $65.50
Paper Stock Fibres	44.00 to 54.00
Waste	33.00
Shorts	14.50 to 28.50
Floats	19.50

Note: Crude Run-of-Mine (Canadian) refers to a crude asbestos produced in certain mines where Crude Fibre is not graded into regular No. 1 and 2 Crude. Crude Sundry refers to certain odd lots of off grade material which do not conform to the regular standards of No. 1 Crude or No. 2 Crude.

ASBESTOS STOCK QUOTATIONS

(These figures are compiled from the Commercial and Financial Chronicle. No guarantee made as to their correctness).

		January 1945		
	Par	Low	High	Last
Armstrong Cork Co. (Com.)	np	44	45¾	45¼
Asbestos Corp. (Com.)	np	21½	22½	22
Celotex (Com.)	np	14⅝	16½	15⅞
Celotex (Pfd.)	20	18½	19¼	19⅛
Certainteed (Com.)	1	7	8¾	8½
Certainteed (Pfd.)	100	129	140	140
Flintkote (Com.)	np	23¼	25⅞	25½
Flintkote (Pfd.)	np	109	111	110
Johns-Manville (Com.)	np	102	109⅞	109⅞
Raybestos-Manhattan (Com.)	np	34¼	37¼	36½
Ruberoid (Com.)	np	33½	35	35
Thermoid (Com.)	1	9⅞	10½	10⅜
Thermoid (Pfd.)	10	52½	56	55½
U. S. Gypsum (Com.)	20	77	81½	81½
U. S. Gypsum (Pfd.)	100	180¼	183	183
U. S. Rubber (Com.)	10	51½	54⅝	53⅜
U. S. Rubber (Pfd.)	100	144½	151	151

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ASBESTOS CLOTH

ASBESTOS CLOTH HAS A WIDELY DIVERSIFIED RANGE OF APPLICATION IN MODERN INDUSTRY. IT IS SPECIFIED WHEREVER CONDITIONS REQUIRE RESISTANCE TO HEAT OR IMMUNITY TO REACTION OF MANY FORMS OF GAS OR FUMES. AMONG SOME OF THE APPLICATIONS FOR ASBESTOS CLOTH ARE: REINFORCEMENT OF LAMINATES; FRICTION DISCS; HIGH PRESSURE PACKINGS; CURTAINS IN WELDING OPERATIONS, ETC. RIGHT NOW, **RAYBESTOS-MANHATTAN, INC.,** IS SUPPLYING ASBESTOS CLOTH OF VARIED SPECIFICATIONS FOR THE MACHINES AND WEAPONS OF WAR—A PRODUCTION UPON WHICH **RAYBESTOS-MANHATTAN** WILL CONCENTRATE ITS MANPOWER, ITS MACHINES AND ITS EXPERIENCE UNTIL FINAL VICTORY. FOR SPECIFIC INFORMATION ON ASBESTOS CLOTH, WRITE TO:

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INDUSTRIAL SALES DIVISION
FACTORIES
BRIDGEPORT, CONN. NO. CHARLESTON, S. C.
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