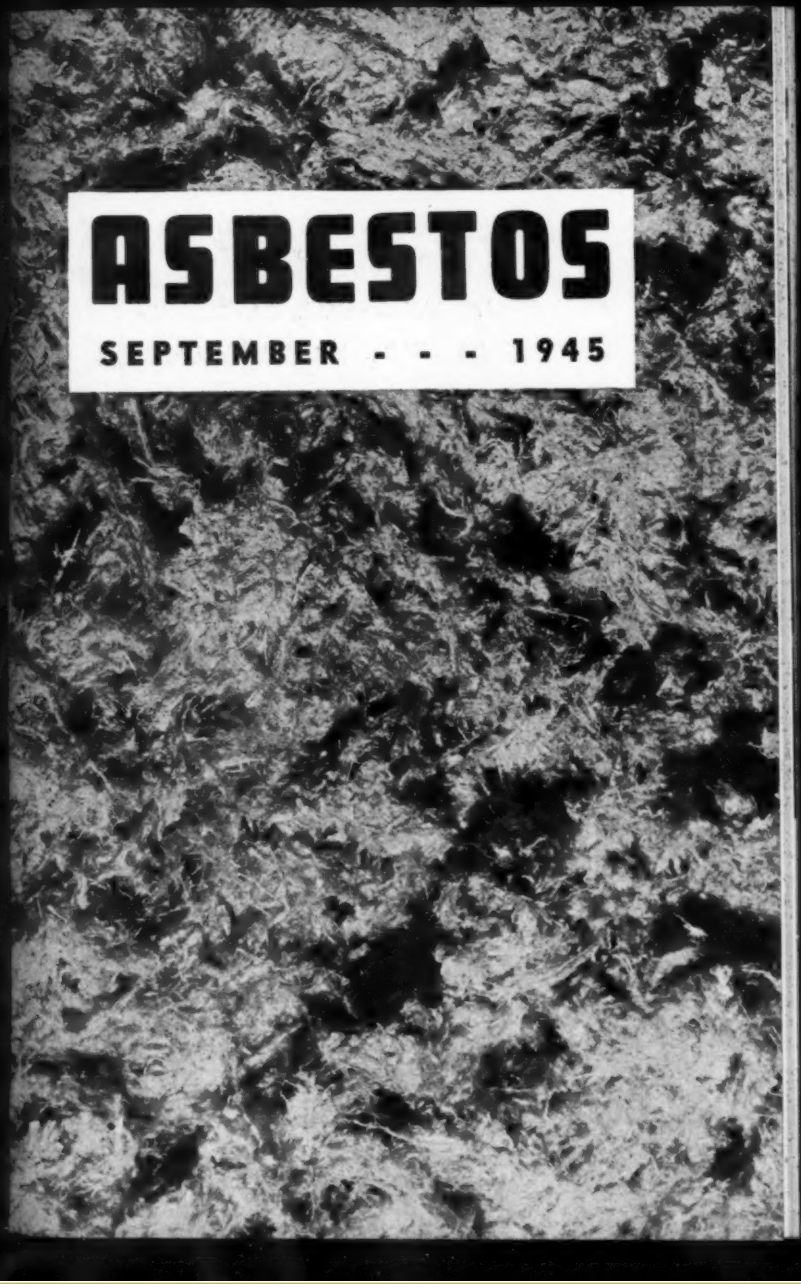


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FOUNDED IN JULY 1919 AND PUBLISHED
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MILLING ASBESTOS

By J. C. Kelleher[1]

Asbestos owes its place of importance in industry to a unique combination of qualities. It is the only known material which combines the fibrous characteristics of an organic material, such as wool or cotton, with the resistance to heat, wear and time, of a mineral, such as granite.

Production of asbestos requires two major steps, mining and milling. Mining consists of removing the fibre bearing ore from the mine and delivering it to the mill, and is therefore like many other mining or quarrying operations. Milling covers the steps necessary in removing the fibre from the ore, and the cleaning, grading, and bagging of it for shipment. Asbestos milling is like no other type of mineral recovery and therefore requires special machinery and mill design.

We shall discuss the milling process, principally as it refers to the production of Chrysotile fibre, the major asbestos of use in industry. As much as 480,000 tons of fibre have been milled in Canada in a single year.

To understand the milling process, it is necessary to visualize the objective and the characteristics of the ore.

Since the value of asbestos fibre depends largely on the fibre length, every effort is made to prevent reduction of length, that is, the cutting of the fibre during the milling operation. This objective is carried out in the design and operation of all mill equipment.

The fibre itself is an integral part of the rock or ore. It has the same density and chemical make-up and is of equal hardness. Fibre occurs in veins of varying widths, the widths of the vein corresponding to the length of the fibre. Veins may vary from two inches in width down to 1/32 of an inch. The average width of fibre veins is well below 1/2 inch. The direction of fibre length is at right angles to the plane of the vein. Fibre in mill rock usually

[1]Manager, Asbestos Fibre Distributors, Division of Johns-Manville Sales Corporation.

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runs from three to ten percent of the total rock fed to the mill.

Briefly stated, the entire milling operation consists of extracting the fibre from the rock by repetitive crushings of the ore, at each crushing removing as much free fibre as possible by air-suction or aspiration and screening the freed fibre, to drop out sand, rock and dust. The standard dry separation of fibre from rock is based on



A typical sample of rich ore, showing cross vein fibre formation

the principle that fibre which has been partially opened or fiberized in crushers is lighter in density and offers more resistance to air flow than unopened fibre or rock, and can be lifted by a light air current which will not lift the rock particles. Russian mines have taken advantage of this difference in density of open fibre and rock, and separate them by letting the material flow by gravity down an inclined chute. The heavier rock particles are thrown farther from the end of the chute than the lighter fibre, thus obtaining a rough classification.

Various combinations of equipment have been installed over the years to obtain a combination of high quality fibre and economic operation. The accompanying chart (see page 4) shows the sequence of major operations common to practically all mills. It does not purport to show the full complexity of a complete mill flow line.

Rock or ore from the mine is fed to primary crushers from a storage bin large enough to assure ample feed for the mill. The primary crusher, usually of the jaw type, is capable of taking rock up to 48 inches in size, weighing

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up to a ton or more. The jaws are set to crush to approximately six inches in width at discharge.

Crushed rock is carried to trommel screens—large revolving cylinders with various size openings, which separate the rock too large to be fed to the dryers. The larger rock, over four inches, is fed to a secondary stage of crushing, usually a gyratory or cone type crusher, before joining the screened rock and passing on conveyor belts to dryer bins.



Typical Mill Flow Sheet Showing Essential Operations.

At this point in the mill flow the rock must be dried, as, depending on the season and weather, the mill ore contains varying amounts of moisture; snow and ice often enter the mill with the ore in winter. Efficient milling operation requires completely dry ore.

Drying is accomplished in either stack or rotary dryers varying from 50 to 60 feet in length and 5 to 7 feet in diameter. In either case the rock is cascaded thru a current of hot air generated by oil or coal furnaces, the rock being in contact with the heated air from a few seconds to twelve minutes, depending on the amount of moisture, the type of dryer, the temperature of the dryer, and the rate of feed. Drying temperatures range from 200 deg. F. to 1000 deg. F.

Rock from the dryers is conveyed to a large, dry,

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New way of *sh-h-hushing* FAST AIR!

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rock storage room, or bins where the latent heat in the ore completes the drying process. The storage bins act as a reservoir of rock to assure a constant flow of mill feed.

The necessity of tremendous rock storage capacity is readily apparent, when we consider that mills consume as high as 300 tons of ore per hour or 6000 tons in a 20 hour day.

A large dry storage of ore eliminates variations in mill feed due to changes in the ore from hour to hour. Many days' supply is piled in layers, which tends to average the mass when a supply is withdrawn.

Ore from the storage bins running up to two to three inches in size is put thru a third stage of crushing in crushers of the gyratory or cone type which further crush the rock and free the fibre.

The product of the third crushing stage is fed to heavy shaking screens equipped with powerful air suction hoods, where the first step of fibre removal occurs. The shaking or bumping action of the screens, obtained by an eccentric drive mechanism separates the light, partially opened fibre from the heavier rock and sand particles. The ore and fibre mass passes down the screen aided by the shaking motion, and under the suction hood where the free fibre is lifted by air suction and the rock passes over the end of the screen. The undersize material passes thru the screen and to fiberizers for further treatment.

The freed fibre is fed to duplex (two level) shaking screens, equipped with suction hoods, where it is separated into long, medium and short fractions. The long fibre remaining on the top screen is picked up by suction and delivered to a fibre collector. The medium length fibre from the lower screen is fed to a single deck shaking screen where it in turn is picked up by suction and delivered to a collector for its particular grade or length. The short fibre passing the lower screen is conveyed to bins for further grinding and cleaning for special short grades. The rock, passing over the ends of the heavy shaking screens, is carried to a fourth and last

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ASBESTOS

in the all-out drive for Victory

In every important war industry and in the production of almost every vital unit of military or naval equipment one or more of Johns-Manville's 1200 products is being used. Twenty-four hours a day, seven days a week they are pouring forth from the J-M factories . . . helping to hasten the ultimate victory that will assure the continuation of the free way of life that has made America great.

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For complete information on J-M Asbestos Products or raw asbestos in a wide range of grades and fiber lengths, write to any J-M office or distributor.

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stage of crushing, where it is reduced to approximately one-quarter inch in size and again passed over shaking screens with suction for fibre removal. The fibre is discharged to collectors for the various lengths of fibre. The rock, which remains after the fourth stage of crushing, i. e., material passing over the ends of the screens, and the undersize from the first or rock screening operations, are fed to fiberizers, not crushers, for further separation.

Here we should point out the difference between a crushing and a fiberizing action. The crushers break the rock by pinching or compressing it. The fiberizer, which consists of high speed hammers in motion, breaks the rock by blow or impact. The falling rock is struck by revolving hammers with a top speed of 10,000 feet per minute. In either case, fibre is released. The impact break is more severe and is not usually used until the longer, more valuable fibres have been freed.

The product of the fiberizers, like that from the crushing operations, is fed to shaking screens where again the fibre is collected by suction and carried to fibre collectors for different lengths of fibre.

The steps of fiberizing, screening and suction are continuous thruout the complete milling process, and the three operations together represent the major elements of asbestos milling.

At each suction-screening operation, part of the fibre is collected and part passes on for collection from subsequent screens. The number of screening and suction operations necessary can be visualized when we realize that a normal sized mill may contain hundreds of screens housed in large five or six story mill buildings. The complexity of the detailed flow of material thru the complete mill, including the many repetitive operations, is entirely too involved for an ordinary discussion. Many variations in a flow sheet are necessary due to the wide variations in the ore itself. We have referred several times to fibre being separated from the rock on shaking screens by means of suction hoods. The accompanying

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(PHOTO—COURTESY OF STATE OF VERMONT)

Vermont for maple sugar

and... *Asbestos*

• Taste of sweetness like no other sweetness in the world—distilled from the maple trees of Vermont.

Vermont also makes an outstanding contribution to modern industry by providing asbestos fibers from the largest operating asbestos mine in the United States.

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Shaking Screen with suction hood Note fibre free ore after it passes under hood

Courtesy The Ruberoid Co.

picture clearly shows a suction hood over a shaking screen. It is best described as an oversize vacuum cleaner, which sucks up the light fibre and some dust and rejects the heavier pieces of unopened fibre and rock.

The undersize material or waste from the screening operations, when it has been considered sufficiently free of fibre, is conveyed to tailing dumps. Since the tailings or rejected rock equals 90% of the original ore fed to the mill, waste dumps loom large in the landscape of the asbestos mining country. In recent years the recovery of short fibres included in the tailings and the potential recovery of the high metallic content, have focused attention on the value of these mountains of fine gravel.

Note: The second part of the article "Milling Asbestos" will be published in October and will describe the cleaning and grading of asbestos fibres. Later the article will be reprinted as a companion to our reprint Asbestos Mining Methods. Reprints will be available about January 1st, 1946.

POSITION WANTED

As estimator, salesman and/or construction manager of pipe and boiler insulation, well qualified and experienced. Address Box No. 9L-S, "ASBESTOS", 17th Fl., Inquirer Bldg., Phila., 30, Pa.

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BUILDING A BETTER AMERICA

We have appropriated the phrase "Building a Better America" from the American Institute of Architects. There is no better slogan for all of us.

Applying it realistically to the Asbestos Industry and to the Industry's part in the construction industry generally, we, the Industry, can certainly do our share toward building a better America by seeing that homes are properly insulated, are adequately and attractively roofed, are, and this is the most important. thoroly fireproofed.

But there are other ways to build a better America, to which each of us individually can contribute, and perhaps the most important of these is to see that the coming generation, the children of today, are made fit and able citizens to rule the nation tomorrow. That they are taught to see their responsibility for the America and the government of America tomorrow.

We were surprised a few days ago in talking with a lad of 18, to hear him criticize the school system under which he had studied, because it did not teach him that education, and especially high school, was a privilege and an opportunity instead of a necessary evil (as he then regarded it) imposed on him by his parents and the state. He deplored the fact that both his parents and the teachers were far too lenient and let him "slide thru" high school, instead of insisting on a higher standard of study and grades.

America has a good foundation on which to build—the Constitution. We can build on that foundation a better America by insisting on our right as citizens to vote only for those who have the good of America at heart, and regard their official positions as those of trust, honor and responsibility rather than as the mere satisfaction of their desire for power and political supremacy.

Each of us, even the most humble, is responsible for our country's welfare. We in America have been given the victory over our enemies, and with it the task of building a peaceful world. It is not an easy task but we who made good on the tremendous task of winning the

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UNION ASBESTOS
MEANS PROGRESS IN INSULATION
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INSULATION
FOR MARINE, RAILROAD,
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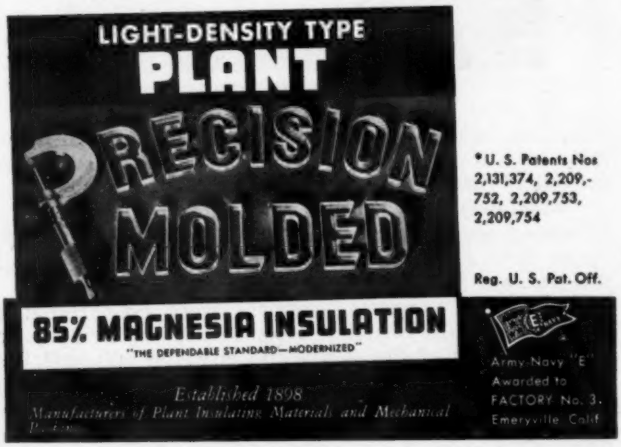
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Save Manpower, Materials, Money! Special thicknesses can be assembled without delay. Leftovers are all standard—readily usable.



*U. S. Patents Nos 2,131,374, 2,209,752, 2,209,753, 2,209,754

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war, must now bend all our efforts to the larger and harder task of building a better America and a better world.

RAYBESTOS WAR MEMORIAL

Instead of the usual monument, Raybestos has dedicated to its war heroes, a Memorial Field for the recreation of its workers.

The field adjoins the company's Stratford office and factory buildings, and has baseball and softball diamonds, archery and pistol ranges, shuffleboard courts and bocci areas. Surrounded by a wooded grove and large pond,



R. B. Davis, V. P. & G. M., and S. Simpson, President, greet Col. Henry A. Mucci. Memorial Plaque in background.

suitable picnic areas are available to Raybestos employees and their families. A Memorial Field House will be erected in the near future.

A shining memorial plaque embedded in natural rock formation near the entrance contains the names of Raybestos servicemen who lost their lives in the service of the country.

Elaborate dedication services were held recently, with employees of the Raybestos Division of Bridgeport, representatives of the clergy and city and state officials and company executives, in attendance. The principal speaker and honored guest was Bridgeport born Henry A. Mucci, heroic Colonel and leader of the 6th Ranger Division of the U. S. Army.

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MARKET CONDITIONS

GENERAL BUSINESS

Altho plans for postwar business have been in the making for months, and predictions of the early end of the war in the Pacific had been made, the actual end came more abruptly than most of us expected.

The consequent wiping out of a tremendous amount of war work, with consequent layoffs, caused chaos for a few days, but for the most part the confusion was only temporary. The War Production Board in its prompt withdrawal of many restrictions, made it possible for business to go ahead with reconversion plans much more quickly and with more certainty than had been thought possible, especially as many raw materials were released and expected bottle necks did not materialize.

ASBESTOS-RAW MATERIAL

Demand from liberated countries for crudes and spinning fibres will take care of decreased demand, caused by cancellation of war orders, for those grades in the United States. This will be even more apparent when the European plants are again in operating condition and when more shipping space is available.

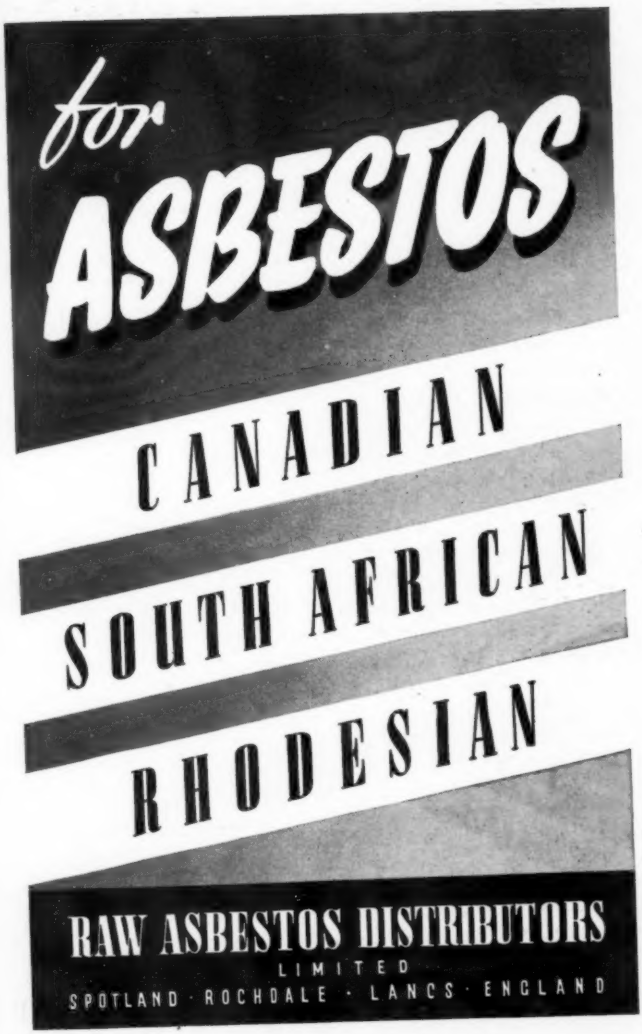
In shingle fibres there is a shortage, likely to remain thru 1946, especially as there will be heavy demand later on for this grade from the European countries.

ASBESTOS - MANUFACTURED GOODS

Asbestos Textiles. We are told that the end of the war will not likely affect the textile demand for some time; textile mills are still operating at capacity. It is too early however to make any forecasts as to the long-term trend.

Brake Lining. The July volume was very disappointing but this is to be expected in view of curtailed Government purchasing and the reconversion problems that car manufacturers are and will be facing for the next three or four months. Not only were the sales the lowest in two years but there was a considerable decrease from the previous months.

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Looks LIKE THE BURMA RAD

It's the Long Winding Roadthe

Asbestos is a vitally important mineral which Nature has hidden in remote parts of the world. Yet it is so important to industry that no problem of mining or transportation can be permitted to handicap its journey from the mines. For example, a great highway was built over difficult, mountainous terrain, in order to transport the relatively small supply of Arizona asbestos — a supply which meets but a fraction of our country's needs.

For over twenty-five years Asbestos Limited Inc. has been the only company in the United States to maintain ample supplies of raw

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A RAD TO CHINA — *but it isn't!*

Road the Arizona Asbestos Mines

asbestos from every known source. Overcoming difficulties of geography and the hazards of war-torn sea routes, continuous shipments arrive from Australia, Canada, China, Cyprus and Bolivia; from India, Russia, Rhodesia and South Africa.

★ ★ ★ ★ ★

If you are working on war production materials in which asbestos is used, perhaps we can assist you to obtain better results. There is a different type of asbestos for every specific need. Your inquiry will receive our prompt attention.

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Mines

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NEW YORK, N. Y. ..... CONNELL ASBESTOS MFG. CO.
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SAN FRANCISCO, CALIF. ..... LIPPINCOTT CO., INC.
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Domestic consumption sales in July were lower than those for the same month last year and the total to date is slightly lower than that for the corresponding period in 1944. This is due to the fact that the earlier months of this year maintained a rather steady trend.

Export sales increased over last July as well as over June, 1945, and for the year to date there is a substantial increase over the same period in 1944. The increase in the export trade was due to the opening of markets in countries outside the Western Hemisphere. It is expected that these sales will continue to increase for some time to come.

Asbestos Paper. Volume in this division of the Industry is said to be off about 30%, but jobbers stocks are low, which should mean an increase in volume shortly, for fall requirements. Outlook is for improvement in the next few months. Prices are firm.

Asbestos Millboard. The regular commercial market is reported to be dull, but the equipment business active. Prices steady.

Insulation. High Pressure. Cancellations from war agencies on cessation of hostilities makes supply exceed demand for the first time in many years. This, however, is believed to be a temporary condition as industrial activity should soon absorb production. One firm reports that its backlog is holding quite steady with no apparent letup on incoming orders.

Insulation. Low Pressure. Activity in this market is reported as increasing slightly, indicating that higher volume is to be expected for fall requirements. This is especially true of the jobber business. The market does not appear to be greatly affected by war contract cancellations. Prices are reported as firm but with a tendency to soften.

Asbestos-Cement Products. We are told that it is too early to determine whether government cancellations of war orders will affect asbestos-cement products directly or indirectly. While the industry has had a substantial amount of government business, to which it has in all cases given preference, there is still a very substantial backlog of unfilled orders for civilian requirements on hand. It is ex-

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pected that there will be some improvement in production due to the availability of more labor but thus far the indications are that incoming orders will continue to equal or exceed the industry's productive capacity so that there is not likely to be much change in the delivery situation for the balance of this year. This applies particularly to siding shingles, and flat and corrugated sheets.

The above comments have been received from men in close touch with the various asbestos fields; comments from any of our readers are welcomed.

U. S. MINERALS YEARBOOK 1944

Minerals Yearbook Chapter on Asbestos for 1944[1] has recently been released by the U. S. Bureau of Mines. This chapter was compiled by Dr. Oliver Bowles and D. I. Marsh and gives a comprehensive picture of asbestos statistics for the year.

Production and sales figures for the United States during 1944 are given elsewhere in this issue page ... .

Apparent consumption of asbestos in the United States during 1944 totalled 407,148 short tons, valued at $18,874,291. The 1943 figures were 445,902 short tons valued at $23,351,483.

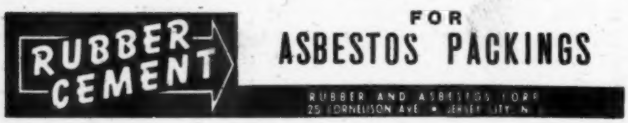
Exports of Manufactured Asbestos products from the United States in 1943 and 1944 were as follows:

	1943		1944	
Brake Lining	Quantity	Value	Quantity	Value
Molded & semi-molded Tons	771	$1,138,469	1,035	$1,467,692
Not molded .....Ft.	353,892	195,888	321,019	193,443
Clutch Facings .....Units	1,282,190	554,561	1,412,600	567,974
Paper, Mlbd., Rollboard ....Tons	899	107,060	773	127,841
Pipe Covg., cement .....Tons	1,384	186,462	1,738	264,199
Textiles, Yarn, Packing .....Tons	975	1,132,411	1,096	1,352,790
Asbestos Roofing .....Sqs.	54,896	305,243	59,580	438,800
Other Asbestos Mfrs. .....Tons	2,815	640,818	5,353	957,536
Magnesia and Mfrs. .....Tons	7,135	616,952	1,217	264,641
		$4,877,864		$5,634,916

[1]See page 26 of July 1945 "ASBESTOS" for 1942 and 1943 Chapters.

MANAGER WANTED

Position on West Coast—Man with practical, successful experience in heat and cold insulation including contract sales. Give age, detailed experience in sales and sales management, education, business and personal references. Address Box No. 9C-S, "ASBESTOS", 17th Fl., Inquirer Bldg., Phila., 30, Pa.



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R. J. DORN COMPANY

MANUFACTURERS OF

ASBESTONE

Corrugated Asbestos-Cement Sheets

ASBESTONE JR.

Jr. Weight Corrugated Asbestos-Cement Sheets

ASBESTONE FLAT WALLBOARD

for Siding and Walls — interior and exterior



FACTORY AND SALES OFFICE—5300 TCHOUPITOULAS STREET, NEW ORLEANS 15, LOUISIANA

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CONTRACTORS AND DISTRIBUTORS PAGE

BUILDING

Construction contracts amounting to $257,691,000 were awarded in the thirty-seven eastern states during July, an increase of 35 per cent over July of last year and 13 per cent more than in June of this year.

The most significant gains, were in residential construction. For the first time this year, it registered a gain over the corresponding month of last year. The July total was $46,273,000, an increase of 79 per cent over July of last year.

The most pronounced residential gains were in single-family dwellings built for owners' occupancy, altho other kinds of residential building also showed increases.

Publicly owned construction dropped precipitously in July, whereas privately owned construction rose 252 per cent over the dollar volume of July 1944.

The value of all contracts awarded east of the Rockies during the first seven months of the year was $1,740,090,000, an increase of 51 per cent over the corresponding period of last year, the Dodge executive announced.

MAKE A ROUGH SKETCH

When buying repair parts of any machine, it is an excellent plan to make a rough sketch of the part of the machine you want repaired or replaced. This is particularly true if the machine is an old one and if no part number is stamped on it, or if there is any possibility of a misunderstanding.

Anybody can make a rough sketch distinct enough that the manufacturer or seller can readily understand what is wanted. It is not at all necessary to be skillful as a "sketcher". Make a rough general sketch and then point out the part wanted by means of an arrow. The more information given to the manufacturer the better and the more promptly can the repair be made.

For instance if it is a broken gear, it is not always sufficient merely to inform the manufacturer that "the cast iron gear on the back side of the machine we bought from you last November is broken". Yet manufacturers do receive "explanations" that are just as vague as that. As a result the wrong part is often shipped.

Many machines don't have any particular right, front, left, or rear, so be careful about using those words in your description. There is nothing better than a rough sketch, even tho it may be exceedingly rough.

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NEWS OF THE INDUSTRY

BIRTHDAYS

W. N. Bolster, President and Treasurer, General Insulation Co., Boston, Mass., September 20.

J. W. Ledeboer, Second Vice President, Keasbey & Mattison Company, Ambler, Pa., September 20.

W. C. Dodge, Jr., Vice President, Ferodo & Asbestos, Inc., New Brunswick, N. J., September 21.

C. Stanley Morgan, Detroit, Mich., September 25th.

R. H. Temple, Secretary-Treasurer, Thermoid Co., Trenton, N. J., September 25.

W. J. Moeller, Vice President, The Philip Carey Mfg. Co., Lockland, Cincinnati, Ohio, September 26.

E. R. Teubner, Jr., President and Treasurer, Philadelphia Asbestos Co., Philadelphia, Pa., September 26.

O. H. Cilley, Assistant General Manager, United States Asbestos Division, Raybestos-Manhattan, Inc., Manheim, Pa., Sept. 27.

W. H. Fehrs, Assistant to President, Union Asbestos & Rubber Co., Cicero, Ill., September 28.

J. M. High, The Ruberoid Co., New York City, September 28.

O. P. Hennig, President, Hennig Asbestos & Packing Co., Chicago, Ill., October 3.

W. W. Dunkin, Treasurer, Southern Friction Materials Co., Charlotte, N. C., October 5.

Harry E. Smith, General Manager, The Manhattan Rubber Mfg. Division, Raybestos-Manhattan, Inc., Passaic, N. J., Oct. 8.

John H. Victor, President Victor Mfg. & Gasket Co., Chicago, Ill., October 9.

Russell E. Crawford, Secretary, Ehret Magnesia Mfg. Co., Valley Forge, Pa., October 9.

P. C. Rowe, Executive Vice President and Director, The Flintkote Co., New York City, October 9.

A. L. Penhale, Sales Manager, Asbestos Corporation Limited, Thetford Mines, P. Q., Canada, October 11.

R. Tomlinson, President, Pacific Asbestos Supply Co., Portland, Ore., October 12.

W. W. F. Shepherd, Chairman of Board, Keasbey & Mattison Company, Ambler, Pa., (residing in England), October 13.

Thomas D. Stone, President, Stone Industrial Equipment Co., Springfield, Mass., October 14.

R. H. Shainwald, President, Plant Rubber & Asbestos Works, San Francisco, Calif., October 15.

David E. Kelley, President, Kelley Asbestos Products Co., Kansas City, Mo., October 16.

Thomas Lehon, Vice President and General Manager, The Lehon Co., Chicago, Ill., October 17.

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Wm. F. Reed, President and Treasurer, Asbestos Distributors, Inc., Port Chester, N. Y., October 17.

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

RAYBESTOS RECONVERSION CONFERENCE

The semi-annual sales conference of the Raybestos Division, Bridgeport, Conn., was held recently at the Long Shore Country Club in Westport, Conn., with all district managers and headquarters personnel in attendance.

The conference was highlighted by an address by R. B. Davis, Vice President and General Manager. Mr. Davis reported on the production records at the Stratford plant, and stated that many



Raybestos District Sales Managers

of the new friction materials developed in the Raybestos laboratories for use in the war are now being gradually released for civilian cars, buses, trucks, and heavy industrial equipment.

Other speakers were General Sales Manager Norman Leeds, Jr., S. E. Shepard, Director of Replacement Sales and James L. McGovern, Supervisor of Field Sales.

The District managers present were E. S. Allen, Central District; J. P. Sink, Pacific Coast; C. H. Robinson, South Eastern; A. S. Butterworth, Southwestern; H. B. Kalagher, New England; F. H. Lugar, Chicago, and H. G. Arentzen, North Eastern.

WANTED

Experienced engineer for Asbestos Cement Industry capable of handling men and having knowledge of machine design. An excellent future assured the right man. Write giving full particulars and experience. Address 9A-G, "ASBESTOS", 17th Fl., Inquirer Bldg., Philadelphia 30, Pa.

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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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C. L. OWENS, GENERAL SALES MANAGER

C. L. ("Check") Owens has been appointed General Sales Manager of The Philip Carey Mfg. Company, the announcement coinciding with the 18th anniversary of Mr. Owens' joining the Carey organization.



C. L. Owens

First associated with his father's building and contracting company, The F. W. Owens Co., in Louisville, Ky., Mr. Owens has been connected with various phases of the building materials field since leaving college.

He joined the Carey organization in 1927 as a salesman and has held the following positions with the company: Special Representative, Branch Manager in Omaha, Chicago and Cincinnati, and Assistant General Sales Manager.

THE RUBEROID CO. reported for the three months ending June 30, 1945, net profit of $187,903, equal to 47c per share, after providing for reserves and estimated taxes; compared with $202,915, equal to 51c per share, for the second quarter of 1944. Net sales in the second quarter of 1945 amounted to $7,724,549, compared with $7,243,771 in the corresponding period of 1944.

For the first six months of 1945, net profit, after providing for reserves and estimated taxes, amounted to $341,719, equal to 86c per share, compared with $358,331, equal to 90c per share, in the like period of 1944. Net sales in the first half of this year amounted to $14,646,880, compared with $14,126,950 in the corresponding period of 1944.

Included in the net earnings reported are items of $46,400 in the second quarter, and $57,200 in the first half of 1945, representing estimated post-war refund of Federal excess profits taxes.

RUSTLESS PIPE FOR WAR AND PEACE, by Frederick Squires, Petroleum engineer, Illinois State Geological Survey, Urbana, was published in the Oil and Gas Journal (Tulsa, Okla.) August 4th issue.

Many readers of "ASBESTOS" may be interested in this article, which describes seven different joints for Asbestos Cement Pipes, and gives results of tests made on them, and also describes various tests (compression, bursting, collapse and tensile strength) on Asbestos-Cement Pipe itself.

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FOR HIGH GRADE

ASBESTOS PAPERS

AND

INSULATIONS

CONTACT

SMITH & KANZLER CORP.

Manufacturers of

ASBESTOS PRODUCTS

ELIZABETH, N. J.

Established - 1920

Our Motto:

High Quality and Prompt Service

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THE RUBEROID CO.--PROMOTIONS



Louis Herscovitz *Walter G. Cowan* *Samuel P. Moffit*

Louis Herscovitz, formerly sales manager of the Western division of The Ruberoid Co., has been elected vice president and general sales manager with headquarters at the company's main offices in New York City. Mr. Herscovitz has been associated with Ruberoid for the past 17 years, and in 1941 was elected to the board of directors. Except for two years of service with the U. S. Marines in the first World War, he has been connected with the building materials industry all of his working life, having been first employed by The Barrett Company and later as a sales executive of H. F. Watson Co., asphalt roofing manufacturers, acquired by Ruberoid in 1928.

Walter G. Cowan, formerly manager of the company's Eastern division, has been elected vice president and general manager of manufacturing. Mr. Cowan has been with Ruberoid since 1938 and in 1941 was elected to the board of directors. Prior to joining Ruberoid he had been connected for 20 years with Certainteed Products Corporation, first as Chicago manager and later as manager of the roofing division. He served in the first World War as a lieutenant, junior grade, in the U. S. Navy.

Samuel P. Moffit, formerly vice president in charge of sales, has been promoted to the position of executive vice president of the company.

Stanley Woodward, vice president in general charge of the Southern division, with headquarters in Baltimore, and *E. M. Railton*, vice president in general charge of the Western division, with headquarters in Chicago, have been made members of the executive committee.

WANTED

CONTRACT MANAGER—Preferably graduate engineer, to assume complete management of Midwestern pipe covering operation. Knowledge of pipe covering sales, estimating, job organization and supervision essential. Excellent opportunity with old established company. Please write fully. Box No. 19C-L, "ASBESTOS", 17th Fl., Inquirer Bldg., Phila., 30, Pa.

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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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ASBESTOS TEXTILE INSTITUTE. A general meeting of the Institute will be held on September 26th at the University Club, Philadelphia. Special meetings of the Sales Promotion and Technical Committees will also be held this month (September) on dates previous to the general meeting.

THE CAPE ASBESTOS COMPANY, LIMITED, has closed its War Emergency Office at Runnymede House, Old Windsor, Berks, and after September 3rd all communications should be addressed to them at Morley House, 26/30, Holborn Viaduct, London, E. C. 1.

THE MANHATTAN RUBBER MFG. DIVISION, at Passaic, N. J. sold a considerable quantity of its products for use in preliminary laboratory work in the development of the atomic bomb as well as in the actual manufacture of it at the huge secret plant at Oak Ridge, Tenn. The principal items were belting, hose and molded rubber products.

ASBESTOS CORPORATION LIMITED, have declared regular quarterly dividend of 20c a share, plus a bonus of 10c per share, both payable September 30, to record September 1. A similar distribution was made on June 30.

JOHNS-MANVILLE NEWS PICTORIAL (the J-M house organ for employees) lists in its August 15th issue, the many products which they supplied to the Manhattan Project (the secret code name for the atomic bomb development and production work). They are: Shingles, Rock Wool Batts, Roll Roofing, Corrugated Transite, Flat Transite, Fabracoustic, Asphalt Tile, Flexwood, Duxseal, Magnesia, Superex, Asbestos Siding Shingles, Rock Cork, Wool Felt, Transite Pipe, Rod and Plunger Packing, Sheet Packing, Gaskets, Asbestos Wick and Rope, Friction Materials, Refractory Cements, Asbestos Textiles, Firefelt, Sponge Felt, Asbestocel, Asbestos Millboard and Paper, No. 1620 Fireblock, Marinite, Trancel, Niagrite, Seigelite and Hellite.

THE RUBEROID CO. The Board of Directors on August 28th declared a dividend of 25c per share on the capital stock of the corporation, payable September 25, 1945, to stockholders of record at the close of business on September 10. Dividends of 25c per share were paid previously this year on March 26 and June 25.

MANHATTAN RUBBER MFG. DIVISION of Passaic, N. J., has received word that its Army-Navy "E" Award for meritorious service on the production front has been renewed for the third time. This adds a third White Star to the burgee!

The Manhattan Rubber Mfg. Division has made hose for fuel oil, hydraulic controls and instruments on aircraft, and brake lining for all types of fighter planes and bombers; also rubber aviation engine mounts for isolating vibration and a long line of engineered products for war equipment and vital industries.

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THE ASBESTOS MINING INDUSTRY, 1944, is the title of an eight-page mimeographed pamphlet recently published by the Dominion Statistician, Mining, Metallurgical and Chemical Branch, at Ottawa, Canada.

It gives statistics on production, exports, and sales of asbestos during 1943, comparing with previous years. Other data on consumption of asbestos in specified Canadian industries, capital employed in the Asbestos Industry in Canada, wage earners, fuel and electricity used, power equipment, taxes, etc., is included. Can be obtained for 25c (coin) from the Department of Trade and Commerce, Dominion Bureau of Statistics, Ottawa.

H. M. ASHLEY, has been appointed Sales Supervisor for the Atlanta Branch of The Philip Carey Mfg. Company. Mr. Ashley has been associated with the Company since July 1937, having been saleman in the Lexington, Ky., sales territory for the past eight years.

Mr. Ashley is a graduate of the University of Illinois; he was manager of the Indianapolis office of W. H. Edgar & Sons, Sugar Brokers, prior to joining the Carey organization in 1937.

BRITISH INSULATED CABLES LIMITED of Prescot, Lancashire, England, on June 29th amalgamated with Callender's Cable & Construction Company, Ltd., and the new Company, viz: British Insulated Callender's Cables Limited, has acquired the main assets of the two companies.

PATENTS

This information obtained from the Official Patent Gazette, published weekly by the U. S. Patent Office, Washington, D. C.

Copies of patents can be obtained by sending 10c (in coin) to The Commissioner of Patents, Washington, D. C., giving the patent number, date issued, name of patentee and name of invention.

Apparatus for Producing Composition Brake Lining. No. 2,380,230. Granted on July 10, 1945, to Thomas L. Gatke, Oak Park, Ill. Application November 29, 1939. Serial No. 306,627.

Apparatus for producing transversely grooved composition brake lining material in long coil strips ready for curing. Further description upon request.

Thermal Insulation Material, made from Fibrous Substances. No. 2,381,214. Granted on August 7, 1945 to Walter Garner, Menstone-in-Wharfedale, England. Assignor of one half to Lister & Co., Limited, Bradford, England. Application Sept. 18, 1943. Serial No. 502,985. In Great Britain April 2, 1942.

A fibrous structure comprising textile fabrics into which are woven textile elements which connect the fibres together and a packing of fibrous material between the said fabrics, the said textile elements being in rows, the said packing being in lengths lying respectively between the rows and each of said textile fabrics having a weft in a direction transverse to the

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rows and a warp substantially only between the packing lengths.

Process for Separation of Asbestos Fibre from Associated Solids. No. 2,381,369. Granted on August 7, 1945 to James S. Sconce, Niagara Falls, N. Y. Assignor to Hooker Electrochemical Co., Niagara Falls, N. Y. Application March 14, 1942. Serial No. 434,792.

The method of recovering and conditioning for re-use, asbestos fibre that has been used in the composition of a diaphragm overlying the foraminous cathode of an electrolytic cell producing chlorine and caustic alkali where it has been in contact with caustic alkali and brine and to become swollen by the gelatinizing action thereof and the diaphragm has accumulated a deposit including carbonaceous and calcareous matter filtered or precipitated out of the electrolyte, which comprises agitating the mass with 20 to 100 times its weight of water to detach the fibres from each other and from the particles of foreign matter and cause minute air bubbles to attach themselves selectively to the individual swollen fibres; diluting the mass still further until it is in presence of not less than 2,000 times its weight of water; allowing the diluted mass to segregate; and recovering the fibres from the upper part of the resulting suspension.

Fabric Pad for Laundry and Like Presses. No. 2,382,141. Granted on August 14, 1945, to Edward Lionel Dawson and Harold Taylor, Spotland, Rochdale, England, assignors to Turner Brothers Asbestos Co., Limited, Spotland, Rochdale, England. Application January 20, 1943. Serial No. 472,998. In Great Britain January 26, 1942.

A fabric pad for laundry and like presses comprising a plurality of superposed layers of open mesh, woven asbestos cloth, a plurality of layers of woven asbestos cloth of less coarse textile superposed on the first mentioned layers and a top layer of fine quality woven asbestos cloth, the edges of which are secured to the edges of the bottom layer of the first mentiond layers, asbestos yarns forming the various layers being impregnated with a synthetic resin.

Ironing Board Cover. No. 2,382,830. Granted on August 14, 1945 to Herbert E. Sunbury, Rutherford, N. J. Assignor to United States Rubber Co., New York. Application February 20, 1945. Serial No. 578,823.

A long life, fire resistant cover for household ironing boards comprising a woven fabric having a body area formed of asbestos warps and asbestos wefts that are interwoven with a broken twill weave and integral side borders formed of interwoven cotton warps and asbestos wefts to thereby provide a smooth, non-inflammable fabric that covers the top of the board and more flexible borders adapted to conform closely to the rounded side edges of the board, the warps in the body area being larger than the wefts and disposed predominantly at the ironing surface and impregnated with a fibre laying resin.

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Manufacture of Bell End Pipe. No. 2,383,582. Granted on August 28, 1945 to Ralph L. Barbehenn, Plainfield N. J. Assignor to Johns-Manville Corporation, New York. Application December 22, 1943. Serial No. 515,281.

The manufacture of bell end pipe of hardened compressed fiber-cement composition which comprises forming straight sections of green, uncured pipe of predetermined wall thickness, building up the outside diameter of one end of a freshly formed green pipe section to the inside diameter of a bell end by applying a coating of cement slurry to the outer periphery of said pipe end and wrapping a narrow strip cut from green pipe stock tightly around the coated end of the pipe, forming a bell end extension of the built-up pipe end by applying an aqueous cement slurry coating to the exposed outer surface of the strip wrapping, wrapping a second strip cut from green pipe stock and having a width substantially equal to the width of the first strip plus the length of the bell about the first strip with its rearward edge overlapping the rearward edge of the first strip and with its forward edge extending forwardly of the pipe end to form the bell, chamfering and splicing the ends of the wrapping strips with cement slurry to form longitudinal scarf joint seams and curing the bell end pipe sections thus formed.

BOOK LIST

Asbestos Mining Methods. By C. V. Smith. (Reprint) 16 pages. 25c per copy, discount in quantities of 50 or more.

The Asbestos Factbook. 16 pages. Information in compact form on origin, facts, locations, uses, analyses, qualities, 10c per copy.

Canadian Chrysotile Asbestos Classification. (Reprint) 25c per copy.

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. 8 pages. (Reprint) 25c per copy

Tests for Cotton Content. 4 pages. (Reprint) Describing several methods of testing asbestos textiles for cotton content. 10c per copy.

Chart—Dollars Cost of Uninsulated Pipe. (Reprint) 20c each

Asbestos: The Magic Mineral, by Lilian Holmes Strack. Written especially for school children but every Asbestos Library should have a copy. $1.00 per copy.

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

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PRODUCTION STATISTICS

Canada

(From Department of Mines, Province of Quebec)

	1945	1944
June	39,269 tons	35,329 tons
By Grades	1st Six Mos. 1945	1st Six Mos. 1944
Crude	519 tons	752 tons
Fibre	117,492 tons	91,854 tons
Shorts	125,379 tons	112,730 tons
	243,390 tons	205,336 tons

Tons — 2000 lbs.

United States

(From Chapter from "U. S. Minerals Yearbook 1944")

	1944		1943	
	Tons (2000 lbs.)	Value	Tons (2000 lbs.)	Value
Sales:				
Chrysotile	6,296	$375,317	3,900	$302,289
Amphibole	371	5,017	2,144	32,526
	6,667	$380,334	6,014	$334,815
Actual Production				
Chrysotile	7,187	.....	1,731	.....
Amphibole	371	.....	2,214	.....
	7,558		3,945	

. . . —

This is a new day. Give it all you've got!

. . . —

From exactly the same materials one man builds palaces, while another builds hovels.



TEST

. . . the added sales volume awaiting you among the nation's roofing and siding contractors. Write to . . .

AMERICAN ROOFER and SIDING CONTRACTOR

425 Fourth Avenue, New York City

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THIS and THAT

FIRE PREVENTION WEEK will be celebrated the week of October 7th. Plans for the week should be made at once if they have not been started. Write the National Fire Protection Association at 60 Batterymarch St., Boston, Mass., for suggested programs.

• • • —

At Oak Ridge, Tenn., the construction necessary for the development of the atomic bomb involved the building of a complete city for a population of 78,000, requiring 9,600 housing units, 5,000 trailer units and 90 dormitories, together with a shopping district and other facilities. The first construction was started at Oak Ridge on January 25, 1942.

• • • —

The introduction by The Philip Carey Mfg. Co., of Careylastic, a hot-poured rubber-asphalt compound for sealing joints in concrete paving and construction has just been announced by Lynn W. Young, Manager of their Highway and Airfield Materials Department. Foremost among the advantages of Careylastic is the perfection of the bond that is obtained.

• • • —

Scientists in the research laboratories of the United States Rubber Co. have developed a new fabric made principally from chicken feathers. The fabric is designed for use in suits, dresses, sweaters and other wearing apparel. It looks like wool but is warmer, softer and lighter than wool.

• • • —

They finished their job—

let's finish ours!

Buy Victory Bonds.

The Victory Loan begins October 29th



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CURRENT RANGE OF PRICE

As of September 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 260.00
Group No. 4 (Shingle Fibre)	62.50 to 90.00
Group No. 5 (Paper Fibre)	44.00 to 53.00
Group No. 6 (Waste, Stucco or Plaster)	33.00 to 35.00
Group No. 7 (Refuse or Shorts)	14.50 to 30.00

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).

		August 1945		
	Par	Low	High	Last
Armstrong Cork Co. (Com.)	np	42¾	52	52
Asbestos Corp. (Com.)	np	25⅛	26	26
Celotex (Com.)	np	15½	18¼	18⅛
Celotex (Pfd.)	20	20¼	21¼	20¾
Certainteed (Com.)	1	10⅞	13⅛	13⅛
Certainteed (Pfd.)	100	161	168	168
Flintkote (Com.)	np	27½	32½	32½
Flintkote (Pfd.)	np	108	110½	109
Johns-Manville (Com.)	np	113½	130	129¼
Johns-Manville (Pfd.)	100	118¼	130	129¾
Raybestos-Manhattan (Com.)	np	33	36¼	36¼
Ruberoid (Com.)	np	36	40	40
Thermoid (Com.)	1	10½	13⅜	13⅜
Thermoid (Pfd.)	10	53½	56½	56¼
U. S. Gypsum (Com.)	20	85½	97¼	97¼
U. S. Gypsum (Pfd.)	100	190¼	193	192¾
U. S. Rubber (Com.)	10	52½	67¾	67¾
U. S. Rubber (Pfd.)	100	161¾	166½	164

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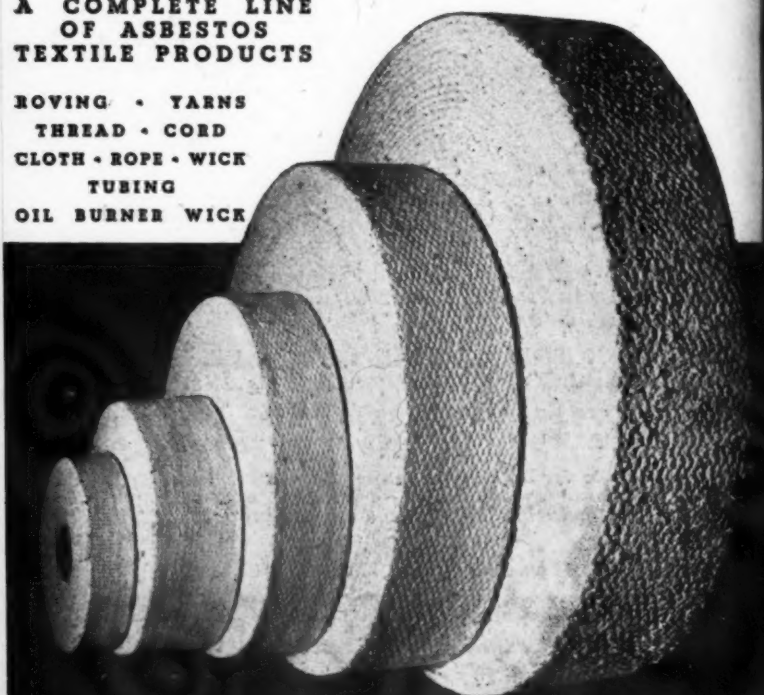
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