# ASBESTOS

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ASBESTOS RM TEXTILES

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WE AMERICANS THRIVE ON ENTHUSIASM. OUR PROGRESS IN ALL THINGS HAS COME FROM FOLLOWING OUR AMBITIONS, OUR ASPIRATIONS AND OUR IDEALS IN OUR OWN, UNHAMPERED WAY. WE INSIST ON THIS FREEDOM. WE HAVE FOUGHT FOR IT. WE ARE AGAIN FIGHTING FOR IT WITH A ZEALOUS MANPOWER AND AN AMAZING PRODUCTIVE INGENUITY THAT ONLY AN ENTHUSIASTIC PEOPLE CAN DEMONSTRATE. TODAY, WITH THE ASBESTOS PRODUCTS OF **RAYBESTOS-MANHATTAN** MEETING A VARIED WAR-TIME NEED, WE ARE LOOKING AHEAD TO A TIME WHEN THESE SAME PRODUCTS WILL MEET A WIDE DEMAND AS AMERICAN ENTHUSIASM DIRECTS ITSELF TOWARD BUILDING A BETTER POST-WAR WORLD.

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INDUSTRIAL SALES DIVISION
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# "ASBESTOS"

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

C. J. STOVER, *Proprietor*
A. S. ROSSITER, *Editor*

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

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Phillips Studio

*C. J. STOVER — Founder and Owner of "ASBESTOS"*


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# C. J. STOVER

It is with deepest regret that we announce the death on May 2nd, of C. J. Stover, founder and owner of this magazine. Mr. Stover passed away at his home, 130 Summit avenue, Jenkintown, Pa., after a long illness. He was in his early 60's.

Mr. Stover was born in Bellefonte, Pa. As a young man he came to Philadelphia to study medicine, but before completing the course decided in favor of a business career. He became connected with the asbestos industry in 1904 when he entered the employ of the Keasbey & Mattison Company, Ambler, Pa. He was elected vice president of that firm in 1912.

In 1917 he resigned from the Keasbey & Mattison Company to establish his own office in Philadelphia, for the purpose of making his services available as a consultant to the entire asbestos industry. During World War I, he was secretary-treasurer of the Asbestos Trades Bureau, formed by the asbestos industry to co-operate with the War Trade Board of the U. S. Government. He founded the magazine "ASBESTOS" in July, 1919.

In 1922 he accepted the position of President and Managing Director of Consolidated Asbestos Limited of Montreal, Canada. Upon the merging of Consolidated Asbestos Limited with other asbestos mining companies in 1926, Mr. Stover returned to Philadelphia, and resumed his consulting activities, continuing until ill health forced his retirement in October, 1943.

Mr. Stover was a member of the Abington Presbyterian Church, the Union League of Philadelphia, and was a 32nd degree Mason.

He is survived by his widow, Maud Medary Stover, and two sons, Lieut. Carrell J. Stover, U. S. N. R. and First Lieut. Richard M. Stover, U. S. A. A. F., also two grandchildren.

In accordance with the expressed wishes of Mr. Stover and of his family, the publication of "ASBESTOS" will be continued under the same policy and by the same staff as in the past.



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# UNFINISHED BUSINESS

An editorial under that title in the April 1944 issue of the Canadian Mining Journal (published at Gardenvale, P. Q., Canada) has been so much enjoyed by us that we are quoting it in its entirety. Any comment on it by us would be superfluous.

"One may perhaps be forgiven for wondering how much further along the road of destiny human progress would have travelled had all the things that men have started to do been carried thru to their conclusion.

"So much that men do, in the final analysis, comes under the heading of 'unfinished business' and in that fact lies one of mankind's greatest tragedies. So many great thoughts die thru lack of interest; so many great efforts become diffused and lost, and many, beyond measure, are the spiritual impulses that wither in the arid deserts of scepticism.

"It is more than probable that, in the sum of any man's life, the things he has left unfinished far outweigh the things he has brought thru to an end. Countless are the men who start to lead their fellows to better things but get astray on the 'road that leads from the cradle to the grave.' Numberless are the minds that have lifted to inspiration only to be battered down again by the mere essentials of living, and innumerable are the little things we all start to do, but never finish.

"It has ever been so, and it probably always will be so. Perhaps it is in the very nature of things that it must be so, because time is fleeting and the hours slip into days and the days slide into weeks, months and years so effortlessly. And with the noiseless passage of time, so many things can happen—death, circumstance, event—and so the greatest picture is never painted, the greatest book never written, the finest music never composed, the most splendid project never completed, the furtherest research never finished.

"One may, or may not, accept the inevitability of unfinished business in human affairs so far as the individual is concerned. One may accede to the philosophy that, so long as the world may last, the lives of men will be littered



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# Carey HEAT INSULATIONS



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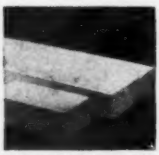
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with broken dreams, and strewn with the ruins of things that had great beginnings but no endings. One may argue that the accomplishment of the little more than compensates for the loss of so much, and that, in the long run, the scales balance.

"It is true that history supports the theory that salvage from the wreckage of effort thru the ages has given us progress, but this does not alter the fact that there is tragedy in what has been lost, or that there are some things that we cannot allow to become unfinished business and the mightiest of these in our world today is the matter of peace that follows the war.

"Already there are too many signs that some of the fine objectives we have sought and given voice to, are becoming diffused and weakened by the buffeting cross-currents of self-interest. As a result, purpose is beginning to lose its clarity and aims that should have crystallized have lapsed into an amorphous mass of indefinitude. If the drift persists, the war and the peace that follows will become unfinished business, and that, unquestionably, will be the greatest tragedy the world has ever known, because what is left unfinished in this matter will never be finished in the scheme of life or the structure of society which we call democracy, and which, with all its faults, is the finest expression of the individual that mankind has yet achieved."

## PROGRESS PROGRAM

A program for the year was presented to the stockholders of Raybestos-Manhattan, Inc., by its President, Sumner Simpson, in his report at their annual meeting held on April 4th.

It seems to us that the seven points covered by this program could be adopted by any of the asbestos firms, and it is in a spirit of helpfulness to the Industry that they are listed below:

1. Continue to produce essential war materials in increasing quantities until the war is won and peace comes.
2. Secure prompt settlement of contracts as they are terminated and watch working capital.



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# ASBESTOS

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3. Watch rubber and asbestos surplus materials, and assist in an orderly disposition of them; give assistance to others in the disposition of surplus materials—and watch our own inventory situation.

4. Review and improve sales distribution methods, develop new products and resume manufacture of peacetime products as soon as conditions permit.

5. Improve machinery and equipment.

6. Review costs of operation and seek cost reductions.

7. Provide employment for as many men and women as possible and continue human relations program.

# A. S. T. M. MEETINGS

*Textile Materials (D-13)*

At meetings held in March by Committee D-13 on Textile Materials and sub-committees thereunder a number of problems were covered, including discussion of specifications for asbestos cloth. We hope to report in detail later on as to actions taken.

*Thermal Insulating Materials (C-16)*

At the various subcommittee meetings and main session of Committee C-16 on Thermal Insulating Materials the several regular and emergency specifications and test methods were reviewed, particularly from the standpoint of desirability of adopting some as standard and changing some of the emergency items from this status to regular A. S. T. M. tentative standards. The committee has issued twelve emergency specifications for various types of materials, six tentative test methods also have been issued, and a set of definitions of terms have been in existence for three years. Three of the tentative methods pertaining to insulating cement—sampling and mixing (C-163), bulk Density (C-164), covering capacity and volume change (C-166) are to be submitted to ballot for adoption as standard; also definitions (C-168) and the test for thickness and density of blanket (C-167). It is announced that a proposed standard setting up requirements for insulating board was nearing completion.

Concerning the emergency specifications, eight are considered suitable for approval as regular tentative spe-



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# RU-BER-OID OFFERS INDUSTRY CUSTOM-BUILT HEAT INSULATIONS

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cifications and will also be referred to ballot. The five emergency specifications for thermal insulating cement are: 85 per cent magnesia (ES-8), asbestos, long fibre (EX-9), mineral wool (ES-10), mica (ES-11), and diatomaceous earth (ES-12); also three specifications covering blanket thermal insulation for building (ES-14), industrial purposes (ES-15), and refrigeration purposes (ES-16).

Further information concerning these emergency specifications can be obtained from the American Society for Testing Materials, 260 S. Broad St., Philadelphia, 2,

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The 47th Annual Meeting of the American Society for Testing Materials will be held at the Waldorf-Astoria, New York City, June 26th to 30th, 1944. The Provisional Program for the meeting, carrying synopses of the technical papers and reports will, we understand, be included in the May bulletin of the Society.

## MONGOLIA

An article on Mongolia, in the April 22nd issue of Foreign Commerce Weekly (published by the U. S. Department of Commerce) contains the following paragraph on asbestos:

"In 1934 asbestos was discovered at a number of localities in southeastern Suiyuan—viz: Pankow, Luchowwan, Shihueiyaotzu, Shaopuhai, and Shapatzu. The Pankow deposits possess an estimated reserve of about 20,000 tons, and next in order of importance are those of Shihueiyaotzu, about 2½ miles from the Chasuchi Railway station, with an estimated reserve of 12,000 tons."


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**KEASBEY & MATTISON COMPANY, AMBLER, PENNA.**



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# TESTS FOR COTTON CONTENT[1]

An inquiry received by us recently asked for the various methods of testing asbestos textiles for cotton content. Perhaps other readers of "ASBESTOS" would like to have such informamtion handy for reference.

---

One method of testing for cotton content is that given as standard by the American Society for Testing Materials in their Standard Specifications on various Asbestos Textiles—yarn, cloth, tape for electrical purposes, etc. It follows:

One test specimen, weighing not less than 5 g. shall be taken from each sample roll, and dried to constant weight in an oven at 105 to 110 C. (220 to 230°F.), and the weights of the dried specimens recorded. The specimens shall be placed in an electric oven and heated for not less than 1 hr. at 800 to 810 C. (1470 to 1490°F). After removal from the oven they shall be cooled in a desiccator to room temperature, and then weighed. The weight of the residue shall be divided by the factor 0.86[1] to determine the original weight of the asbestos content. This weight of asbestos content shall be divided by the weight of the dried specimens to obtain the percentage of asbestos. The average of the determinations shall be the asbestos content.

Note: Specimens that are soiled, or have been sized, or otherwise treated, shall be prepared for testing by removing hydrocarbon materials with chloroform, and then boiled 5 min. in distilled water. The specimens shall then be tested in accordance with the above procedure.

[1] This factor is based upon a proved average of 14 per cent water of crystallization in chrysotile asbestos.

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The above method, which we understand is the one at present followed in a number of specifications issued by the U. S. Navy Department, General Electric Company, Westinghouse Electric & Mfg. Company, and others, is a practical method but as stated in the footnote is based on the assumed average of 14% water of crystallization in the asbestos fibre, whereas actually asbestos fibre varies in its

[1] A limited quantity of reprints of this article is available—10c each.



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water of crystallization, some specimens running as low as 13% and others exceeding 15% chemically combined water.

J. M. Weaver, Research Engineer, Raybestos-Manhattan, Inc., tells us that where it is highly necessary to make a positively accurate determination of the cotton content, there is an older method, in certain Navy Department Specifications, now largely discarded. It is as follows:

A known weight of approximately 1 gm. of the material, dried 1 hour at 105-110°C., is transferred to a porcelain or platinum boat and inserted in a combustion glass tube in an electric organic combustion furnace; the tube is heated for 1 hour at a low red heat, during which time a current of oxygen gas traverses the tube. This gas is passed thru two U-tubes containing calcium chloride to remove moisture and finally into a Vanier or similar absorption bulb containing a strong solution of caustic potash, which absorbs the carbon dioxide produced by the burning of the cotton in the sample. Three-elevenths of the increase in weight of the Vanier bulb represents the weight of the carbon in the cotton of the cloth or yarn. This is 44.0 per cent of the cotton. Therefore, percentage of cotton equals:

$$\frac{3/11 \times \text{increase in weight of Vanier bulb}}{0.444 \times \text{weight of dried sample}} \times 100$$

This result is reported as the percentage of cotton in dried yarn or cloth. The percentage of asbestos in the dried material equals 100 minus the percentage of cotton. The oxygen gas used should be purified in the usual manner.

It is necessary to extract from test specimens any oil, grease, etc., by the use of chloroform in an extractor, then to proceed as specified.

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Another accurate method which has been copied from old specifications issued by Westinghouse Electric & Mfg. Company, is similar to the old Navy method but stipulates a different formula for calculation. This method reads:

The test for cotton shall be made in the following manner: Cut several representative square inch samples of cloth into small bits and extract thoroly with chloroform or ether to remove all grease, fats and oily matter. Dry for an hour at 110° C. (230° F.). Weigh about one gram of the extracted sample into a boat, and place in a combustion



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# LIGHTWEIGHT

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tube heated to dull redness. Connect the drying train and pass thru it a gentle current of dried and purified oxygen. Pass the products of combustion and surplus oxygen thru a drying bulb containing sulphuric acid and absorb the carbon dioxide formed in a weighed Vanier bulb containing potassium hydrate. Approximately 30 minutes will be required to complete the combustion and wash out the train. Calculate the difference in weight of the Vanier bulb before and after the combustion, representing $CO_2$ to pure cellulose ($C_6H_{10}O_5$). The extracted and dried sample shall be taken as 100 per cent and considered to contain only asbestos and cotton. The formula for calculation is:

$$\frac{\text{Weight of } CO_2 \times 100 \times 0.6137}{\text{Weight of Dried Sample}} = \% \text{ Cellulose } (C_6H_{10}O_5).$$

---

There is still another method found in Chemical Abstracts, Vol. 16, page 4068 (1922). This is as follows:

*Analysis of Mixtures of Asbestos and Cotton.* P. Heermann and H. Sommer, recommend the use of an ammoniacal solution of Cu $(OH)_2$ (Kuoxam) made as follows: Dissolve about 50 g. cryst. $CuSO_4$ in about 300 cc. distilled $H_2O$ and when cool and dropwise concentrated $NH_4OH$ till the next drop begins to produce the blue color resulting from re-solution of the precipitate. Filter and wash by suction, then while still moist dissolve in 25% $NH_4OH$ by shaking and cooling in a closed Erlenmeyer flask. Keep in a cool dark place. A ten day old Kuoxam solution containing 18.5 g. per 1. Cu was found to dissolve cellulose to the extent of 1.5 to 2 times the weight of the Cu contained. The speed with which the cotton dissolves varies with the cotton and the age of the Kuoxam. Disintegrate 0.2 - 0.5 g. of the asbestos-cotton material, which has stood and been weighed in air with a relative humidity of 65%. Dry at 110° and calc. the hydroscopic mixture. Extract any fat with ether and det. the fat. Boil 2 hrs. with distilled $H_2O$ to remove salts, starch, etc., and determine the loss in weight. Then mix with 30 cc. freshly made Kuoxam, shake frequently for 12 hrs., filter thru a weighed and dried Gooch crucible, using gentle suction. Wash first with concentrated then with dilute Kuoxam, finally with weak $NH_4OH$ till the blue color disappears. Dry at



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# ASBESTOS

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110° to const. weight. Determine the cotton by difference. As a check one can determine the cotton. Neutralize the solution with dilute $H_2SO_4$ adding some NaOl also wash until weakly acid. Filter the pptd. cellulose on a Gooch crucible, wash free from Na with hot water then free from Cu with $NH_4OH$, dry at 110° and weigh.

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Mr. Weaver suggests that readers of "ASBESTOS" engaged in research work or employed in a laboratory, might be interested in trying the Navy Department's method of preparing treated samples of asbestos for test purposes. It is to be found on page 10 of Navy Depa.tment Specification 17-I-29, issued January 22, 1942. It is an exceedingly effective method of getting rid of treating materials which many kinds of asbestos products must receive when designed for particular service applications.

## NEW TEXTILE COMBINES ASBESTOS AND GLASS

A new textile is made by combining asbestos and glass fibres. It is made either by combining asbestos and glass fibres to form yarns, or by combining asbestos and glass yarns in the weaving operation. The high strength of the material is said to be primarily due to the glass, while the asbestos increases abrasion resistance.

In textile terms the combination cloth may be classified as an inorganic canvas or duck.

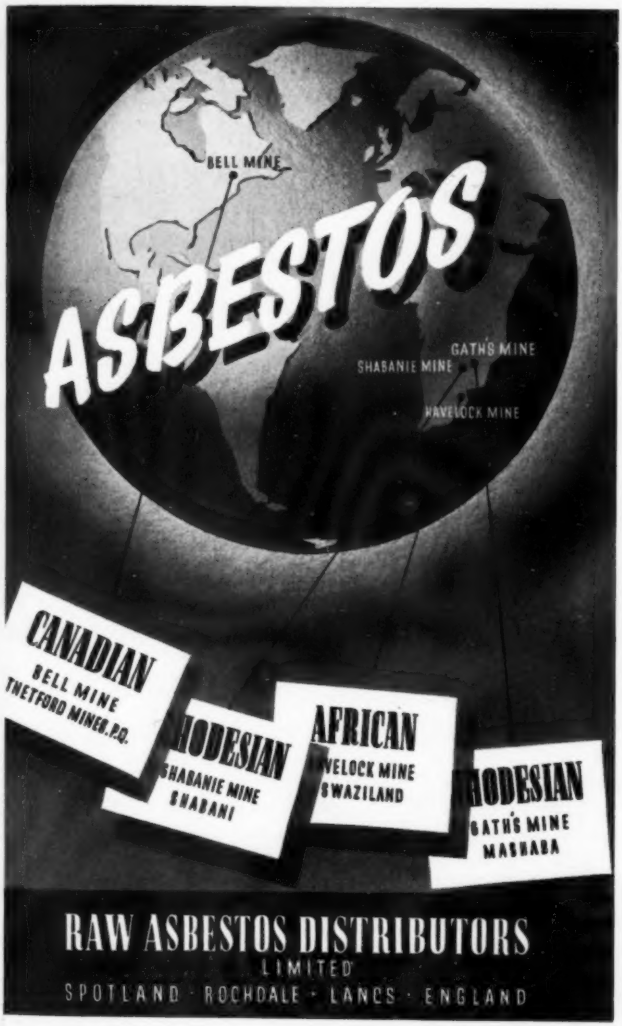
It is intended for applications requiring high strength combined with light weight, high abrasion resistance and resistance to high temperatures and corrosive fumes.

This new type of textile is being employed as a protective boot in war planes. In fabric form it is used for gun boots, tail-wheel boots, and—in the P-47 Thunderbolt —to protect retractable landing gear from the hot exhaust of the supercharger. In cord form the textile is used for shroud lines on military flares.

There are many post-war possibilities for the use of this asbestos-glass combination product. Further information concerning it can be obtained from Owens-Corning Fiberglas Corporation, Toledo, Ohio.



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# FOURTEEN MILES DOWN TO THEA

## *First leg of its journey to America . . . Cy Asb*

**As an aeroplane flies, the romantic littlé 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**

TRADE MARK REG.

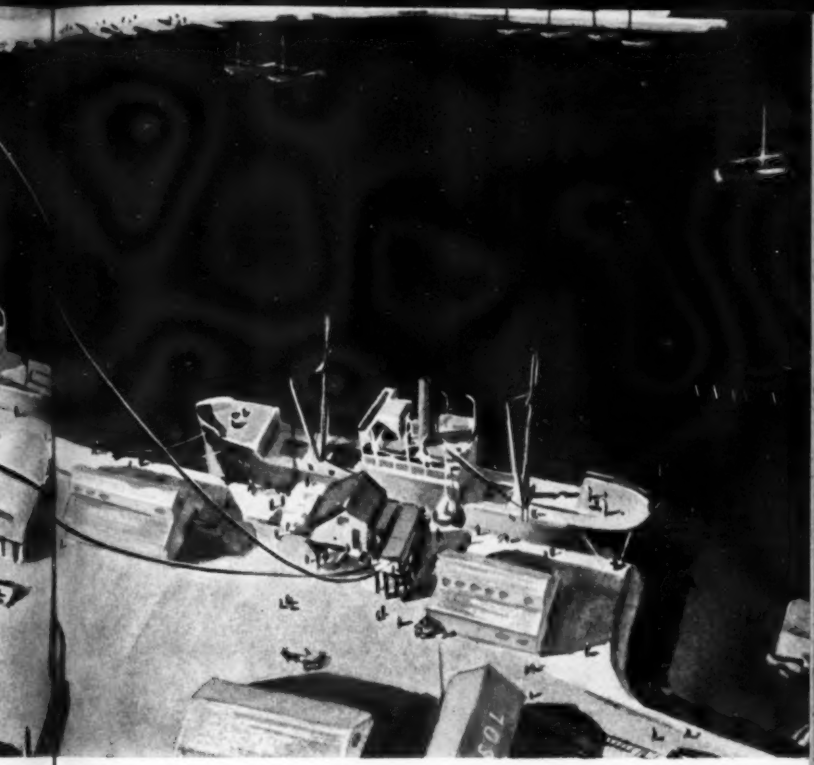
**ASBESTOS**

**8 WEST 40th STREET, NEW YORK, N. Y. . . . 27 SIMMONDS ST.,**

EVERY TYPE OF RAW ASBESTOS CARRIED IN STOCK: ARIZONA • AUSTRALIAN • BOLIVIAN •

*Manufacturers of Asbestos Cement Board and Cyprus Asbestos Siding . . .*


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# THEA . . . FROM A MILE IN THE SKY

## . . . Cy 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.

TRADE MARK REGISTERED

**TOS ITED INC.**

**ST., JOESBURG, SOUTH AFRICA . . . WORKS: MILLINGTON, NEW JERSEY**

VIAN • CA CHINESE • CYPRUS • INDIAN • RHODESIAN • RUSSIAN • SOUTH AFRICAN BLUE AND YELLOW

Co anufacturers of *New Era Insulation*, lightest rigid insulation for all temperatures


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# JOHNSON'S COMPANY

ESTABLISHED IN 1875

*Head Office*

Thetford Mines, P. Q., Canada

*Mines*

Thetford Mines, Quebec
Black Lake, Quebec

Producers of All Grades of

RAW ASBESTOS

AGENTS

| | |
|---|---|
| GREAT BRITAIN | A. A. BRAZIER & CO.<br>203 Winchmore Hill Road<br>London, N. 21; England |
| CHICAGO, ILL. | GRANT WILSON, INC.<br>4101 West Taylor Street |
| NEW YORK, N. Y. | CONNELL ASBESTOS MFG. CO.<br>165 Clymer Street<br>Brooklyn, N. Y. |
| SAN FRANCISCO, CALIF. | LIPPINCOTT CO., INC.<br>461 Market Street |

# DISMOUNTABLE HOUSES EXPERIMENT BY FPHA

Two experimental dismountable housing units were recently designed by the Federal Public Housing Authority, in cooperation with Purdue University Research Associates of Lafayette, Ind. The purpose was to investigate costs, speed and feasibility of demounting and re-erecting.

One of the units is a Portable Shelter Unit (PSU) designed for short term occupancy in trailer type projects, whose sanitary facilities are in separate and communal structures. Four foot wide panels were manufactured of two by three inch wood studding with plywood both sides. They were assembled with screws at plates and corners and nailed battens at panel joints to form a building 12½ ft. x 20½ ft. Floor panels were framed on two by sixes with the plywood finish glued thereto. A partition separated the bedroom from the living room which contains built-in strip kitchen, cabinets and studio couch. The plans for this unit make provision for adding a second bedroom as needed. The entire structure can be delivered "knocked down."

The second unit is designed as a War Dwelling Unit (WDU) and is designed for a standard war housing family dwelling with bath room, store room, kitchen, living room and three bedrooms, forming a structure 20 x 32 ft. The plans make provision for one, two or three bedrooms as needed. The construction is similar to that of the Portable Shelter Unit. Electric lead-wires were built into the panels to permit concealed wiring. Both units are provided with space heaters and are completely insulated.

The two units were built at Lafayette, disassembled, trucked to final destinations (the PSU went to Cabin John Md., and the WDU to Cameron Valley, near Alexandria, Va.) and reassembled at those sites. Neither unit presented any difficulties in reassembly and there was no evidence of damage to structure and practically none to the finish.

While no mention is made in the Government release of any asbestos product being used, asbestos products, especially asbestos-cement products, could be used in such units and the experiment will no doubt be of interest to those of our readers working on pre-fabricated housing.



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# MARKET CONDITIONS

## GENERAL BUSINESS

The factor in all business, whether in the essential class or otherwise, which is causing the most concern at the present time is the manpower situation. There is no doubt but that many businesses will be inconvenienced very greatly in the next few months, because of the taking of their young men into the armed forces.

At the moment, on the verge of the invasion of Europe by the Allied Nations, it isn't easy to foresee the trend of general business, or to say just when, where and how much production for civilians will be permitted this year. This mostly hinges on the success of the invasion and the speed with which it is accomplished.

For instance WPB Chairman, Donald M. Nelson, at the recent meeting of the Automobile Industry Advisory Committee said "A return to the production of automobiles depends entirely on military events." On the other hand a program for production of 200,000 electric flat irons is expected to get under way shortly.

And all the while needed war production is going forward with gratifying speed.

## ASBESTOS - RAW MATERIAL

Various comments on the raw material market are as follows:

"The demand for asbestos fibre remains steady, the controlling factor being the manpower situation, which is not improving. Spinning fibre demand is running about the same as in the first quarter, and the supply appears adequate to meet requirements. Production is improving with the advent of better weather."

"The asbestos textile fibre situation is in good balance at the present time, and all manufacturers have good working inventories. Shipments from South Africa have not been too good recently and the inventories of these grades have decreased and probably will not improve in the near future."

"Shortage of freight cars at the Canadian Mines is



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affecting the shipments from Canada to the United States''

"All prices on raw asbestos are firm.''

We understand that current prices on Canadian asbestos fibre have been extended until June 30th.

## ASBESTOS - MANUFACTURED GOODS

*Asbestos Textiles.* The demand for Asbestos Textiles is showing a tendency to increase in the face of a slight lowering in textile production, making textile allocation mmore difficult each month.

"The textile situation is still tight'' says another correspondent, "with requirements of the Navy cable manufacturers increasing as is also demand of the Navy for asbestos cloth as a covering for insulation while the manpower situation is reducing production.''

Practically all types of mechanical packings and gaskets are tight, especially those made from asbestos textiles.

*Brake Lining.* Demand steady thru regular channels. Government business direct and indirectly thru equipment builders is increasing beyond limits of Industry to supply.

Sales for March continued the upward trend started last year and resulted in a volume that is now the highest on record. Sales for domestic consumption, as well as those for export, exceeded the returns for the same month last year and also those for February, 1944. As a result of the increases so far this year, the first quarter is higher than that for the same period in previous years.

*Asbestos Paper.* This market is steady, both as to demand and prices. Future trend of demand, however, is regarded as downward, altho at least one manufacturer tells us that he expects another good year for this commodity, having quite a backlog of orders with indications that that condition will continue thruout the year.

*Asbestos Millboard.* There has been a decrease in demand for Asbestos Millboard during the past month but prices remain firm. Important is the number of inquiries for Millboard being received from old pre-war channels of distribution and while of course demand cannot be expected to be anywhere near as great as it was when the Industry was working on Government orders, it is believed that it will continue at a normal rate.



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*Insulation. High Pressure.* The demand for High Pressure Insulation seems to have steadied, at current levels. There are certain projects that require immediate delivery, but the general rush demand has eased off and there is a trend not developed specifically yet, which indicates a lessening demand sometime in the fall. Prices are firm.

We are told that in sizes under 3" the delivery difficulties are considerable, because of the demand for Maritime and Navy ships; the larger sizes of pipe covering are relatively easy to what they have been in the past. Also block is in a much better delivery position than it has been.

*Insulation. Low Pressure.* Demand in this market is decreasing. Prices are steady.

*Asbestos-Cement Products.* The situation on asbestos-cement shingles, sidings and wallboards continues unchanged with the demand for these products far exceeding the supply in all sections of the country. As against this heavy demand production is limited by the shortage of labor which prevents manufacturers from getting the benefit of lower costs which usually result from maximum factory production.

A price increase of 20c per bbl. recently granted to cement manufacturers in the northeastern area, will undoubtedly also have a further adverse effect on costs of cement to the extent of 2% or 3% over all which, added to other increases that have accumulated during the past year or so, will narrow the profit margain on shingles and sidings to a point where it is practically certain that the manufacturers of these products will be compelled to ask O. P. A. for some relief.

There is a steady demand for corrugated sheets and we are told that most manufacturers have a considerable backlog of corrugated orders. Large quantities of corrugated sheets are being used in the Pacific areas.

The market for flat sheets continues steady.

Prices on asbestos-cement products show no signs of weakening and under OPA regulations they cannot, of course, increase.

The situation on asbestos-cement pipes remains about



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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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the same. Companies have large inventories and are operating at a fraction of capacity. The building program of the armed forces in the United States proper is largely completed and the industrial program is fast reaching the same state. Future demand is therefore questionable.

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The above comments have been received from men in close touch with actual field conditions in the various markets.

## PRODUCTION STATISTICS - CANADA

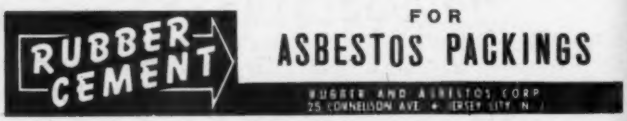
According to Preliminary Report on the Mineral Production of Canada for 1943, recently issued by the Dominion Bureau of Statistics, at Ottawa, Canada, production of Asbestos in Canada for the past four years, was as follows:

| | | | | |
|---|---|---|---|---|
| In 1940 | 346,805 | short tons | valued at | $15,619,865 |
| In 1941 | 477,846 | short tons | valued at | 21,468,840 |
| In 1942 | 439,459 | short tons | valued at | 22,663,283 |
| In 1943 | 427,141 | short tons | valued at | 21,738,686 |

Production of Asbestos monthly during 1943 is given as follows:

| | | | |
|---|---|---|---|
| January | 32,304 | July | 43,449 |
| February | 35,897 | August | 39,768 |
| March | 39,982 | September | 38,967 |
| April | 33,116 | October | 33,665 |
| May | 48,512 | November | 38,706 |
| June | 43,171 | December | 36,264 |
| | | Total | 463,801 |

Total of the monthly figures do not agree with the yearly total given above because the monthly figures were compiled from monthly reports received from the principal operators.







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## WHEN YOU CHECK UP ON YOUR PLANT'S PAY-ROLL SAVINGS PLAN FIGURES!

These days, things change with astonishing speed. The Pay-Roll Savings Plan set-up that appeared to be an outstanding job a short time ago, may be less than satisfactory today.

Check up on your plant. Check up to see if all are playing their parts to the full. Check up to see if 'multiple-salary-families' are setting correspondingly multiple-savings records.

Other groups may need attention. Workers who have come in since your plant's last concerted bond effort. Or, those who have advanced in pay, but not in their bond buying. Or those who never took part in the plan at all. A little planned selling may step contributions up materially.

Your job isn't finished, even when you've jacked participation up to the top. You've still got a job before you! The task of educating your workers to the necessity of not only buying bonds, but of *holding* them. Of teaching that a bond sold before full maturity is a bond robbed of its chance to return full value to its owner—or his country!

So start *checking* . . . and *teaching* . . . today!

War Bonds To Have And To Hold!

LET'S ALL BACK THE ATTACK WITH WAR BONDS!

*The Treasury Department acknowledges with appreciation the publication of this message by*

"ASBESTOS"
PHILADELPHIA, PA.

*This is an official U. S. Treasury advertisement—prepared under auspices of Treasury Department and War Advertising Council*



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# CONTRACTORS AND DISTRIBUTORS PAGE

## AMENDMENT TO ORDER L-41

Several minor changes have recently been made in Conservation Order L-41, and are covered by Release WPB-5494 (obtainable from the Office of War Information, Washington, D. C.)

To the Asbestos Industry the most important is that the permitted allowance of $1,000 for a farm including the farm (dwelling) houses continues, but not more than $200 of this amount may be expended on any farm house on a farm property.

Also the erection of farm silos manufactured by a producer under the terms of Order L-257 has been added to the list of exceptions for which WPB permission is not required. It is felt that the limitations placed on the manufacture of farm silos by Order L-257 have proved sufficiently restrictive for the conservation of materials and labor and that further restrictions on their erection should be removed from Conservation Order L-41.

## BUILDING

Total volume of construction activity in the United States in February was $304,459,000, a 5 per cent decline from the January level and 60 per cent less than the $767,262,000 volume put in place during February 1943, according to War Production Board announcement on April 12th.

This volume of $304,459,000 comprised the four major classifications; total military, $69,374,000; industrial expansion, Government and privately financed, $72,085,000; housing, Government and privately financed, $65,000,000; and all other construction, including public roads, sewer and water community buildings, farm utilities and other non-residential, $98,000,000.

Another slight decrease, approximately 3 per cent, is estimated for March bringing the activity for the first quarter of 1944 to an estimated $921,000,000 or 61 per cent under the $2,376,000,000 volume of the first quarter of 1943.

Activity in the second and third quarters is expected to show mild seasonal gains as the relative importance of the volume of work in the restricted normal construction categories tends to overcome the continued decline persisting in construction work for direct war purposes.

## AREA TABLES FOR FLANGES

On the opposite page will be found the first of twelve insulation area estimating tables for flanges and flanged fittings, compiled by Elbert R. Sitton of Houston, Texas. The others will be published monthly, one each month. We feel sure estimators will find them useful.



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## SERIES 15 150 LB. FLANGES.

| Pipe Size | Metal Area | 1" * | 1½" * | 2" * | 2½" * | 3" * | 3½" * | 4" * |
|---|---|---|---|---|---|---|---|---|
| ½" | .50 | 1.02 | 1.44 | 1.85 | 2.27 | 2.68 | 3.10 | 3.51 |
| ¾" | .50 | 1.07 | 1.49 | 1.90 | 2.32 | 2.74 | 3.15 | 3.57 |
| 1" | .55 | 1.10 | 1.52 | 1.94 | 2.36 | 2.78 | 3.23 | 3.64 |
| 1¼" | .60 | 1.14 | 1.57 | 2.01 | 2.44 | 2.88 | 3.32 | 3.76 |
| 1½" | .65 | 1.17 | 1.63 | 2.10 | 2.56 | 3.03 | 3.49 | 3.96 |
| 2" | .80 | 1.44 | 1.93 | 2.43 | 2.92 | 3.42 | 3.92 | 4.41 |
| 2½" | 1.00 | 1.71 | 2.24 | 2.76 | 3.29 | 3.81 | 4.33 | 4.86 |
| 3" | 1.20 | 1.93 | 2.48 | 3.02 | 3.57 | 4.12 | 4.66 | 5.21 |
| 3½" | 1.40 | 2.15 | 2.72 | 3.29 | 3.86 | 4.43 | 5.00 | 5.57 |
| 4" | 1.60 | 2.36 | 2.95 | 3.54 | 4.13 | 4.72 | 5.31 | 5.90 |
| 5" | 1.80 | 2.59 | 3.21 | 3.84 | 4.47 | 5.10 | 5.73 | 6.36 |
| 6" | 2.10 | 2.80 | 3.48 | 4.15 | 4.83 | 5.51 | 6.18 | 6.86 |
| 7" | 2.40 | 3.16 | 3.87 | 4.57 | 5.28 | 5.98 | 6.69 | 7.40 |
| 8" | 2.70 | 3.53 | 4.27 | 5.01 | 5.75 | 6.49 | 7.23 | 7.97 |
| 9" | 3.10 | 3.97 | 4.73 | 5.48 | 6.22 | 6.96 | 7.71 | 8.46 |
| 10" | 3.50 | 4.42 | 5.20 | 5.99 | 6.77 | 7.56 | 8.34 | 9.13 |
| 12" | 4.40 | 5.53 | 6.40 | 7.27 | 8.15 | 9.02 | 9.89 | 10.77 |
| 14" | 5.20 | 6.49 | 7.43 | 8.36 | 9.30 | 10.24 | 11.18 | 12.12 |
| 16" | 6.30 | 7.60 | 8.61 | 9.62 | 10.63 | 11.64 | 12.65 | 13.66 |
| 18" | 6.80 | 8.00 | 9.04 | 10.07 | 11.11 | 12.15 | 13.19 | 14.23 |
| 20" | 7.90 | 9.20 | 10.30 | 11.40 | 12.51 | 13.62 | 14.73 | 15.85 |
| 24" | 10.00 | 11.36 | 12.58 | 13.80 | 15.03 | 16.26 | 17.49 | 18.72 |

Compiled by Elbert R. Sitton

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



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# NEWS OF THE INDUSTRY

## BIRTHDAYS

Geo. V. Hamilton, Owner, Geo. V. Hamilton Co., Pittsburgh, Pa., May 26.

Giles Newton, Managing Director, Cape Asbestos Company, Ltd., London, England, May 27.

S. H. Ralph, Vice President, and Director, The Flintkote Co., New York City, May 27.

George Dick, Manager, Asbestos Corporation Limited, Thetford Mines, Quebec, Canada, May 28.

F. E. Schluter, President, Thermoid Co., Trenton, N. J., May 31.

F. H. Shipe, President, Asbestos Covering & Roofing Co., Washington, D. C., May 31.

Phil Ziegenfuss, President & Treasurer, Insulating Materials Co., St. Louis, Mo., June 2.

Walker Jamar, President, Walker Jamar Co., Duluth, Minn., June 11.

Howard Snow, President, Southern Friction Materials Co., Charlotte, N. C., June 11.

Geo. A. Hull, Vice President, Union Asbestos & Rubber Co., Chicago, Ill., June 14.

Congratulations and best wishes are extended to all these gentlemen on the occasion of their birthdays.

• • • —

## RAYBESTOS EXHIBIT

More than 22,000 people, including practically every top government official, visited the first National Labor-Management Production Exposition in Washington recently to witness the war efforts of sixty-four leading industries.

Large crowds were attracted to the exhibit of the War Production Committee of the Raybestos Division, Bridgeport, Conn., where an actual Flying Fortress wheel was displayed, with Raybestos Brake Blocks.

Another outstanding feature of the Raybestos exhibit were the "Stuporman" cartoons depicting the "slaphappy" worker. "Stuporman" is the original creation of Robert C. Giblin, Raybestos machinist, and has become a national institution, sponsored by the official War Production Drive, and used in war plants thruout the country.

**THE STORY OF AMERICAN BRAKEBLOK,** second in the series of special articles on various firms in the brake lining field which are being published in Brake Service appeared in their April number.



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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.I.**
FACTORY, BARKING, ESSEX

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




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## PAT SMITH IN NEW POST WITH PHILIP CAREY

E. W. (Pat) Smith, formerly with Johns-Manville Sales Corporation, has been named Vice-President and Director of Sales of The Philip Carey Mfg. Company and its subsidiaries.



*E. W. Smith*

His appointment, recently announced by R. S. King, President of The Philip Carey Mfg. Company, is a part of a general expansion program.

An alumnus of the University of Illinois, Mr. Smith has spent his entire business career in the building material industry, starting as a salesman in Northern Minnesota, and serving as sales supervisor and branch manager before entering executive sales work in New York.

Mr. Smith served as an Officer in World War I and has two sons, Pat, Jr., in the Army Air Corps and Ed in the Navy on a Destroyer Escort.

Mr. Smith will make his headquarters at Lockland, Cincinnati, Ohio, where the General Offices of The Philip Carey Mfg. Company are located.

. . . —

## JOHN P. FICK DIES

John P. Fick, aged 56 years, surviving partner of the firm of Edward G. Fick & Company, insulation and roofing contractors, died suddenly on April 12th, at his office, 2008-10 Harford Avenue, Baltimore, quickly following in death his brother, Edward G. Fick, who also died suddenly at his home on December 5, 1943.

Soon after leaving school at an early age, Mr. Fick was associated with the heating and power industry for a period of about fifteen years. In 1915 he joined his brother, Edward G. Fick, in forming a partnership which operated successfully under the style of Edward G. Fick & Company.

Mr. Fick is survived by Mrs. M. Elizabeth Fick and eight children. One of his sons, T/4 Joseph A. Fick, is a member of the U. S. Army Medical Corps, having left this country twenty-two months ago, eight of which have been spent in New Guinea. Another son, Seaman John Ralph Fick, is connected with the U. S. Coast Guard.

This company now specializes in the maintenance of insulation and roofing in industrial plants, and institutions. It will continue to be operated under the old name, on the same premises, 2008-10 Harford Ave., by members of both families, with the same personnel who have been associated with the partners for many years.



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## CAREY BUYS PAPER PLANT

The purchase of the Wardlow-Thomas Paper Company of Middletown, Ohio, was announced recently by The Philip Carey Mfg. Company, Lockland, Cincinnati, Ohio and brings to nine the total number of plants now operated by Carey. Other manufacturing units are located in Hamilton and Middletown, Ohio; Perth Amboy, N. J.; Plymouth Meeting and Philadelphia, Pa.; and Lennoxville and West Broughton, Canada.

According to R. S. King, President of Carey, the acquisition of the Middletown property is another step in the general expansion program of the company both for wartime and postwar production.

The Company has under consideration the manufacture of pulp and paper products for war use in this plant. Ultimately this unit will produce certain building materials now manufactured in other Carey plants.

The new property consists of six acres of ground with a number of substantial brick mill buildings housing two-cylinder paper machines, power plant and coating mill with accessory equipment. Wardlow-Thomas employees will continue under the management of H. L. Brooks, former Vice President. Mark A. Thomas, former President and Treasurer, will retire. The Wardlow-Thomas Paper Company is one of the oldest paper making industries in the Miami Valley.

• • • —

## RAYBESTOS-MANHATTAN, INC. HOLDS UNIQUE STOCKHOLDERS MEETING

Stockholders of Raybestos-Manhattan, Inc. at their annual meeting at the Biltmore Hotel, on April 4, re-elected all Directors of the Company. Following the meeting there was a period of questions and discussions and a luncheon. About three hundred stockholders attended, including W. W. Dashiell, last surviving founder of The Manhattan Rubber Mfg. Co. (now the Manhattan Division) in its 51st year. Mr. Dashiell, who is 89 and still active, spoke briefly.

Directors of Raybestos-Manhattan, Inc. are:

| | |
|---|---|
| Sumner Simpson | J. H. Matthews |
| J. F. D. Rohrbach | O. H. Cilley |
| S. R. Zimmerman | E. H. Jeffords |
| Geo. R. Weber | Robert Abbott |
| J. H. Merrell | Robert W. Atkins |
| F. L. Curtis | J. R. Dillon |
| W. H. Dunn | Clifford Hemphill |
| R. B. Davis | E. G. Hines |
| Harry E. Smith | |

An impressive feature of the meeting was a display of war and postwar products of each division and employes relations programs, enabling stockholders to become acquainted with work being done at each of the operating divisions.



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## SMITH, DAVIS, VICE PRESIDENTS RAYBESTOS-MANHATTAN, INC.

Announcement has recently been made of the election of Harry E. Smith, General Manager of The Manhattan Rubber Mfg. Division, Passaic, N. J., and Robert B. Davis, General Manager of The Raybestos Division, Stratford, Conn., as Vice Presidents of Raybestos-Manhattan, Inc., at a meeting of directors of the corporation held in New York on April 4th.



*Left—*
*Robert B. Davis*

*Right—*
*Harry E. Smith*



Both Mr. Smith and Mr. Davis are members of the Board of Directors.

. . . —

**"THE MINING INDUSTRY OF THE PROVINCE OF QUEBEC IN 1942"** has just been published by the Department of Mines at Quebec, P. Q., Canada, and contains a four and half page chapter on Asbestos. No statistics are given (in line with the policy to publish no information as to shipments, exports or other trade figures on "war minerals"). A summation of the operations carried on at each asbestos mine in the Province of Quebec during the year (1942) constitutes most of the chapter.

**THE RUBEROID CO.** reported for the three months ending March 31, 1944, net profit of $155,415, equal to 39 cents per share, after providing for all taxes and a reserve of $30,000 for wartime contingencies, and after taking into account the post-war refund of excess profits tax.

On the same basis net profit of $146,362, equal to 37 cents per share, was reported in the first quarter of 1943.

Net sales in the March quarter of 1944 amounted to $6,883,178, compared with $5,592,823 in the corresponding period last year, an increase of 23 per cent.

Earnings in this year's first quarter before providing for Federal income and excess profits taxes and wartime contingencies amounted to $507,165, compared with $425,862 in the like 1943 period.



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**THE ASBESTOS INDUSTRY IN 1943** is the subject of Mineral Market Report MMS No. 1167, released by the U. S. Bureau of Mines on April 27, 1944.

The Report, as implied by its title, gives a summary of the Asbestos Industry in 1943, commenting on general conditions, war uses, control measures, market trends, new developments and comments briefly on the Industry in the most important asbestos producing countries and centers.

Included also are production figures for Canada. (See page 28).

Copy of the report can be obtained by request to the U. S. Bureau of Mines, Washington, D. C.

**JOHNS-MANVILLE** reported for the first quarter of 1944 (ending March 31) sales of $24,450,541, compared with $23,752,895 in the same period in 1943.

Earnings, after all taxes were $1,451,565 in 1944, compared with $1,087,119 in the first quarter of 1943.

The preferred stock (25,000 shares) was called for redemption on April 1, 1944 and there are now no shares of preferred stock outstanding. The effect of the retirement of these 25,000 shares has been to eliminate a prior charge against earnings of $175,000 a year.

The informal regional meeting of J-M stockholders held in New York on April 20th, was attended by more than 180 stockholders. Because of war conditions it was not found practicable to hold meetings in other sections of the country this year, but the April issue of J-M Stockholders News contains full information as given at the New York meeting.

**PETER E. CHANCE,** former general manager of the Brake Lining Manufacturers Association, Inc., was promoted to the rank of Major on April 28th.

Major Chance, who entered the Armed Forces in July 1942, has been connected with the Army for many years, and, prior to his leaving the Association, was a member of the 7th Regiment in New York City. He is stationed at the Tank-Automotive Center in Detroit, Mich.

**UNITED STATES RUBBER COMPANY** announces that Mr. R. J. Bowers is now associated with their Textile Division, 1230 Sixth Avenue, New York City. Mr. Bowers has been connected with the asbestos textile industry for the past eleven years, and has had a wide experience, including both manufacturing and sales.

**GARLOCK PACKING COMPANY.** Net income for 1943 was $999,359, equal to $4.77 a common share, which compared with $1,106,355, or $5.28 a share in 1942.

**DETROIT GASKET & MANUFACTURING COMPANY** show a net profit for 1943 of $519,096, equal to $2.21 a common share, which compares with $412,707 or $1.71 a share in 1942.



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**ASBESTOS CORPORATION LIMITED.** At the annual meeting of the Corporation, held on April 25th in Montreal, President R. W. Steele told stockholders that operations had shown considerable improvement since the beginning of the year—the winter season had been much less severe, and the fibre content of the rock had been much better. Shipments, on the contrary, had not been so good but there are so many factors governing shipments that considerable variation over short periods is to be expected. "Indications" he said, "point to sales for the year (1944) being slightly less than in 1943."

Mr. Steele explained that earnings in 1943 were less than in 1942 because of three factors—very bad operating conditions in the winter of 1943, lower content of fibre in the rock mined and increased wages and material costs. Discussing the current cost factors, Mr. Steele said "The matter of wage demands was submitted to the War Labor Board at Ottawa and we have just received advice indicating a further increase in wages of four cents per hour, retroactive to January 1. This will mean a further increase in costs this year of between $150,000 and $160,000."

## PUBLICATIONS AVAILABLE

**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 foremen—25c 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 United States Rubber Company is beginning construction on a new textile plant (to be devoted to the manufacture of rayon tire cord) at Scottsville, Va., which when completed will produce enough cord annually to build 600,000 medium-sized synthetic rubber truck tires.

The plant is expected to be in operation in October, and will employ 300 people.

. . . —

Our April issue (page 39) asked for the name of the manufacturer of asbestos gloves with air hose attachment. The Pulmosan Safety Equipment Corporation, 176 Johnson street, Brooklyn, N. Y., tell us that they make such a glove.

. . . —

Net sales billed (representing shipments) by General Electric Co. during the first quarter of 1944 amounted to $354,624,206, compared with $277,872,103 for the same period last year, an increase of 28 per cent.

Profit for the first quarter of 1944 was $10,384,405, compared with $10,442,576 for the first quarter of 1943.

. . . —

The postwar problem is to remove artificial shackles on the individual American's creative energy; to rule out regulation that acts as a strait jacket on ambition, invention, economic venture and technological pioneering; to restore normal human incentives of reward and accomplishment.—*President Eric Johnston, U. S. Chamber of Commerce.*

. . . —

Since the start of the national emergency in July 1940, around 550,000 new privately financed dwelling units have been started in war industry areas under the program of the Federal Housing Administration, with insured financing of more than $2,275,000,000.

. . . —

There is available several hundred pounds of scrap in the form of what might be described as rubber coated asbestos paper, some 1/32″ in thickness, some in 1/16″, in small circular pieces. Might be usable in the making of small gaskets. Further information upon request.



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# CURRENT RANGE OF PRICE

As of May 10, 1944

| 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.)

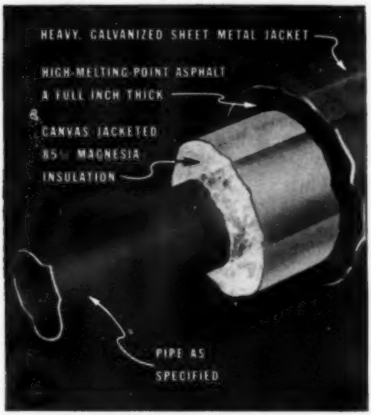
| | | April 1944 | | |
|---|---|---|---|---|
| | Par | Low | High | Last |
| Armstrong Cork Co. (Com.) | np | 35¼ | 37¾ | 36 |
| Asbestos Corp. (Com.) | np | 19½ | 21⅞ | 19½ |
| Celotex (Com.) | np | 11⅛ | 12¼ | 11⅜ |
| Celotex (Pfd.) | 20 | 17¼ | 18 | 17½ |
| Certainteed (Com.) | 1 | 4⅝ | 5½ | 4⅞ |
| Certainteed (Pfd.) | 100 | 57½ | 61½ | 60¼ |
| Flintkote (Com.) | np | 20⅜ | 22⅝ | 20⅝ |
| Flintkote (Pfd.) | np | 104½ | 111 | 111 |
| Johns-Manville (Com.) | np | 87½ | 91 | 89 |
| Johns-Manville (Pfd.) | 100 | Retired April 1, 1944 | | |
| Raybestos-Manhattan (Com.) | np | 28¼ | 29⅞ | 29 |
| Ruberoid (Com.) | np | 28¼ | 29 | 28½ |
| Thermoid (Com.) | 1 | 7 | 7¾ | 7½ |
| Thermoid (Pfd.) | 10 | 45 | 47¼ | 46½ |
| U. S. Gypsum (Com.) | 20 | 70¼ | 74½ | 71 |
| U. S. Gypsum (Pfd.) | 100 | 173 | 178 | 176½ |
| U. S. Rubber (Com.) | 10 | 42½ | 47⅛ | 44¼ |
| U. S. Rubber (Pfd.) | 100 | 135 | 137½ | 137½ |

JOHS P. FICK DIES



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Sectional view of Durant Insulated Pipe, showing construction features. Pipe, insulation and protection are factory-fabricated into units.




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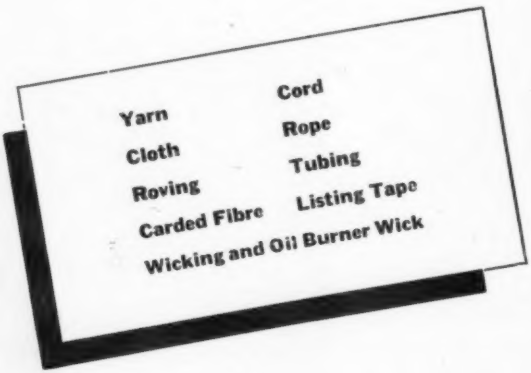
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