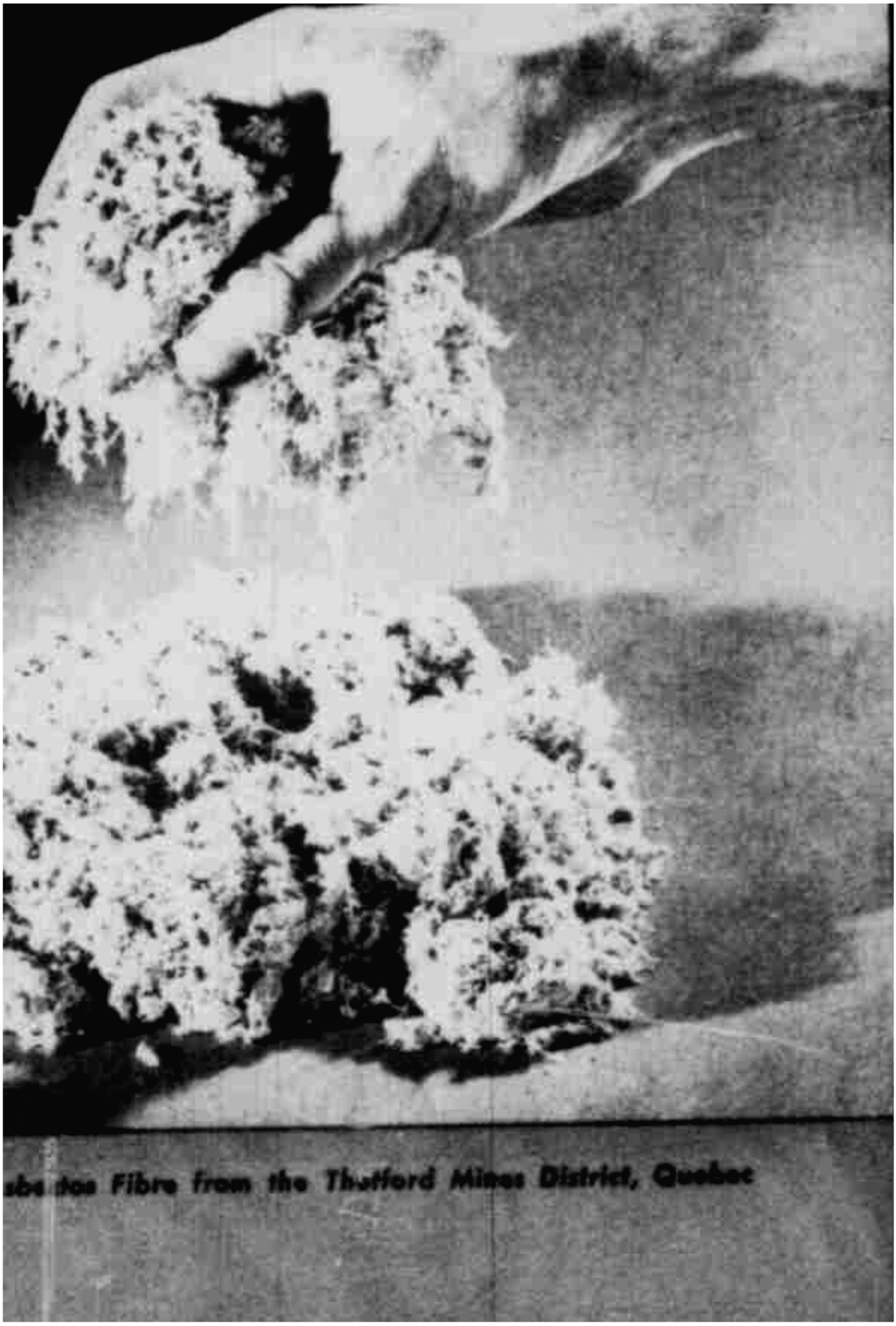


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VOLUME 47 **SEPTEMBER 1965** **NUMBER 3**

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FIBRE TESTING
FOR THE ASBESTOS CEMENT INDUSTRY

By: A. A. Hodgson, B.Sc., Ph.D., F.R.I.C., Head of the Research Laboratory, Cape Asbestos Fibres Limited, London, England

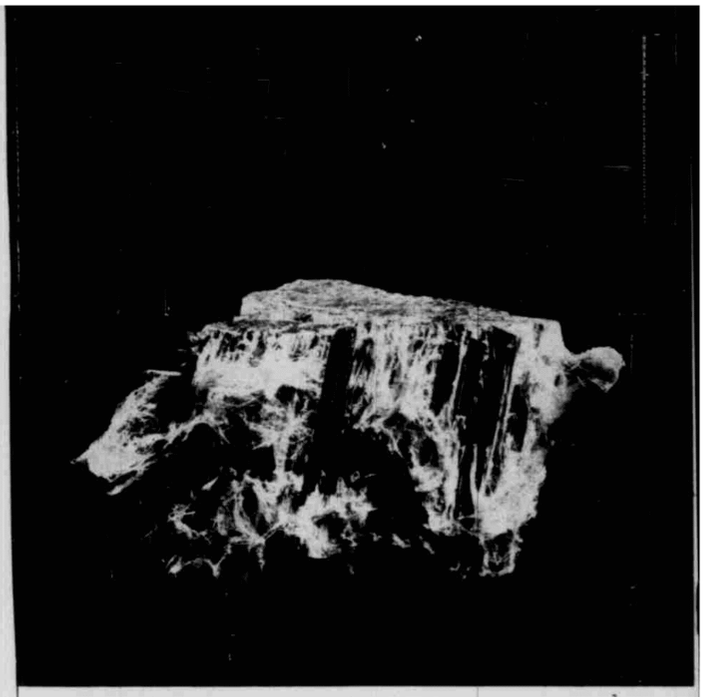
(This article is submitted as a contribution to the Asbestos Industry. It will be published in two parts and Part II will appear in the October 1965 issue of ASBESTOS. Cape Asbestos Fibres Limited is a member of the Cape Asbestos Group.)

PART I

For several years there has been an increasing demand on the part of many asbestos cement manufacturers for more information on fibre test methods. This may seem an unusual state of affairs since the principles of fibre testing defined by the asbestos producers are to all intents and purposes well known. Nevertheless an apparent gap exists between the producers' and the manufacturers' viewpoints of standard test methods. It is the aim of this article to help to fill this gap by bringing some bearing on the adaptation and interpretation of these methods in the asbestos-cement industry.

There are five techniques of fibre testing vital to this industry, and these can be apportioned to two consecutive stages of fibre implementation: (1) the processing of asbestos fibres; (2) the incorporation of asbestos fibres in the end product. Part I of this article deals with the significance of a wet classification test, and measurement of degree of openness in the processing of fibre. Part II deals with three tests designed to assess filtration properties, wet bulk volumes or buoyancies, and reinforcement properties and to provide results of direct consequence in the asbestos cement manufacturing process. All these methods can be made equally applicable to chrysotile and to the amphibole asbestos fibres, amosite, anthophyllite, and blue asbestos.

Many asbestos-cement works process the fibre as received into the works by milling in one way or another. It is not always appreciated that processing goes on throughout all the handling and wet mixing operations up to the point where asbestos cement slurries feed on to the sheet or pipe-making machine. Inevitably in processing asbestos



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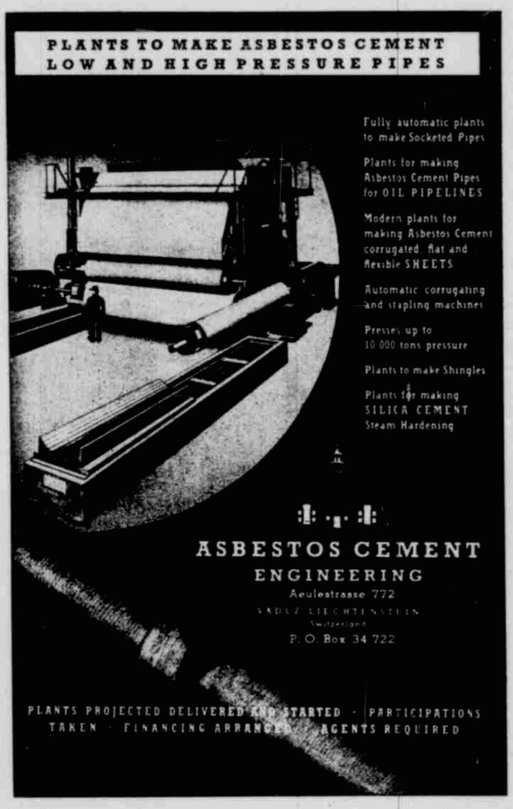
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fibres suffer various degrees of damage by shortening and a wet classification test, such as the McNett method, is the only satisfactory way by which the full extent of this can be assessed. The sequence of screens generally recommended in the McNett test, that is, those of 4 mesh, 14 mesh, 35 mesh and 100 or 200 mesh, are so chosen to be of benefit in classifying fibres up to ½-inch or so maximum length as commonly used in asbestos-cement manufacture. The standard method of test recommends a sample weight of 10 gm. dry fibre, but there is of course no objection to the testing of a proportionate weight of wet fibre, provided its moisture content is known. Fibre samples may therefore be tested at any stage in wet or dry fiberizing processes.

Straightforward comparison of McNett results of fibres before and after various stages of processing shows how much fibre shortening takes place by a fall in the amount of the 4 mesh fraction and a rise in minus 100 mesh value. It is an interesting observation that with most fibre processing techniques this often represents the net change in the McNett results; intermediate fractions may change by relatively small amounts. More elegantly the results of McNett tests can be expressed by a McNett Index by taking the sum of (% 4 mesh x 1) + (% 14 mesh x 2) + (% 35 mesh x 3) + (% 100 mesh x 4) + (% -100 mesh x 5). The factors are quite arbitrary, but have the effect of accentuating the finer fractions, which indicate the extent of fibre shortening. A moderate rise of 30 to 50 units in the McNett Index of a fibre through processing would not be considered abnormal for any grade or type of fibre. A rise of 100 or more in the Index might suggest that the milling process is too severe, or that the fibre is too brittle.

An indication of degree of shortening of a fibre is insufficient by itself. It is essential to know how much a fibre has been opened or fiberized by processing. The measurement of degree of openness or more precisely, degree of fiberization, is probably the most important test of direct practical use which can be applied to asbestos fibre, as well as being the simplest and quickest test to do. The technique requires an air permeability apparatus with which may be measured the time taken for a fixed volume of air to be drawn through a tightly packed plug of asbestos fibre. The time in seconds so measured may be converted by means of a suitable table of factors to any apparent surface



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area expressed in cm^2/gm. For all practical purposes this apparent surface area gives a good relative indication of the degree of fiberization of asbestos fibre, although it may be less than one third of the absolute surface area as measured by gas absorption methods. The air permeability method has the one disadvantage that it cannot be applied to wet processed fibres, and even after drying out such fibres do not give satisfactory results in this test. There is scope for someone to develop a wet permeability method to fill this gap in fibre testing. The present alternative, of course, lies in the assessment of opening by wet bulk volume or buoyancy tests.

There are two makes of air permeability apparatus in general use, the electro-mechanical Blaine-Dyckerhoff apparatus, and the manually operated Rigden apparatus. Both employ the same principle. A glass U-tube of precise diameter and part filled with a non volatile oil is connected at one end to a small hand pump and the other end to a precisely dimensioned metal cell into which a definite weight of asbestos fibre is packed. The oil is drawn up one limb of the U-tube by means of the hand pump and is then allowed to fall to its original level, as it does so, drawing air through the plug of fibre. The time which the air takes to pass through the plug is measured as the oil level passes two predetermined points on the limb of the tube.

The complex expression connecting all the dimensions and parameters of the apparatus and method is known as the Kozeny-Carman equation. It is not essential to state this equation here, but it is important to note that one of the parameters involved is the density of the material under test. If all asbestos minerals had the same density the task of comparing degrees of openness would be simplified to a mere comparison of measurements of time in the air permeability test. However this is not so; chrysotile asbestos has a density of 2.55, amosite a density of 3.44, and blue asbestos a density of 3.37. Comparison of surface area of chrysotile and these amphibole asbestos types cannot be effected unless these densities are taken into account.

A further complication arises in that it is physically hardly possible to pack a fixed weight of all types of fibre into the air permeability cell. Well fiberized amphibole asbestos has considerable bulk and it requires great pressures to close the cell. Ideally then, the air permeability

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cell should be contained in a suitable press, the two components being an integral unit. In a good design the cell consists of a cylinder having a perforated plate at one end, and encloses a fairly long piston; again perforated at its face. The piston moves as far as a fixed stop so that a fibre bed of precise thickness can be contained between the two perforated faces of the cell. The complete cell is positioned in a stout, and accurately made hand operated press facilitating closure of the cell. Ideally air permeability measurements should be made with the lowest practical porosity, or tightest packing, of the fibre bed. But whereas chrysotile fibres pack with reasonable ease to low porosities, it may still not be practical to do this with well opened amphibole fibres. The sole alternate lays in using a smaller weight of fibre.

Universal comparison of the degree of opening of asbestos fibres then requires a table of factors drawn up from the Kozeny-Carman equation, converting the measurement of time in the air permeability method to apparent surface area. This table of factors takes into account the densities of different types of asbestos, and allows for the use of several sample weights to overcome the packing difficulties encountered with bulky fibres. This is a reasonably accurate method of approach and it overcomes the anomalies arising from calibration of the apparatus with a material of known surface area.

There are several ways in which the knowledge of apparent surface area of fibres helps in the manufacturing process, but all of these are bound up with the one aim of using fibre efficiently. The reinforcing properties of fibres increase with increasing degree of openness, but this does not go on indefinitely because milling processes are never perfect. Fibre shortening inevitably takes place with increasing fiberization, eventually leading to losses in reinforcement and bulking properties. The effects of milling of any given fibre can be observed by setting changes in its McNett Index against changes in its surface area. Obviously a substantial increase in the latter corresponding with a small increase in the former is preferable to any other state of affairs, particularly the converse. In other words the efficiency of a mill must be construed in terms of its ability to fiberize, rather than to disintegrate, asbestos fibres.

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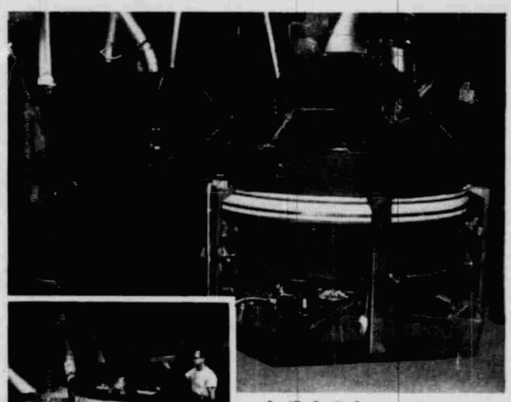
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ready for use in asbestos cement lies between 10,000 and 20,000 $cm^2gm.$, chrysotile representing a higher figure than amphibole fibres. Amphibole fibres (blue and amosite asbestos) make a considerable contribution to the wet bulk volume of asbestos-cement slurries, and to the control of density of the finished product, and bring about an even dispersion of all types of fibre throughout all the wet stages of manufacture. It is therefore important to know that asbestos fibres have been sufficiently fiberized to achieve their fullest potential in these respects, an aim which in turn leads to the more economical use of fibres.

J-M POLYESTER CHEMITE—Johns-Manville has revealed the development of an asbestos-reinforced polyester pipe system, called Johns-Manville Polyester Chemite pipe. This new pipe, an addition to the J-M line of Chemtite pipe composed of asbestos-reinforced epoxy and phenolic pipes, valves, and fittings, can convey at low cost strong oxidizing chemicals, as well as a wide range of other highly corrosive fluids. With epoxy, phenolic, and polyester systems, Chemtite now provides the widest range of chemical resistance available in reinforced plastic pipe. The new pipe system is a combination of crocidolite asbestos fibers and a Bisphenol-A polyester resin. The asbestos fiber is chemically inert, with tensile strength in the order of 250,000 psi. The polyester resin offers a high resistance to a wide range of oxidants. These materials are physically and chemically linked together by a unique manufacturing process into a dense, homogeneous product which eliminates the need for resin-rich liners and end coatings. Pipe, fittings, and valves are all manufactured from the identical impervious material. The new Chemtite pipe is recommended for handling nitric and chromic acids, sodium hypochlorite, hydrogen peroxide, wet chlorine, and fluorinated phosphoric acid at maximum temperatures of 200°F and pressures to 100 psi. All three J-M Chemtite pipe systems, asbestos-reinforced epoxy, phenolic, and the new polyester, are easily and quickly assembled through use of a combination thread and cement-socket joint that eliminates waiting for cement to harden.



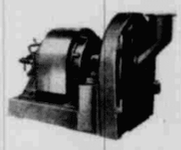


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J-M Asbestos-Cement Bulkhead

Shoreline property, particularly in Southern areas, is getting a boost these days with a new corrugated asbestos-cement sheet, or bulkhead, made to protect man-made land against erosion. The material is being employed extensively in new communities and to rehabilitate public shoreline property in older established towns.

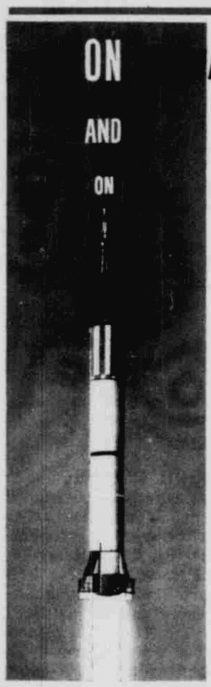
In the past, many owners of shoreline property have had to cope with the failure of various types of bulkhead. Whatever the material or the cause, it has resulted in continued soil erosion. Remedies for bulkhead failure often prove to be expensive and, unfortunately, these remedies often are not lasting.

Much of the new asbestos-cement bulkhead material, being used particularly throughout Florida and along the Gulf Coast, is made by Johns-Manville, the first firm to introduce a bulkhead specifically designed to protect shorelines.

The J-M bulkhead sheets are made of asbestos fibers and Portland cement formed under pressure to produce 10-inch wide corrugations. This advanced design, with its deep molded contour, provides more than five times the lateral strength found in conventional sheets often used for canal bulkheads. The firm believes that its product will provide a quality of performance unknown heretofore and that homeowners no longer will have to contend with their bulkheads breaking, cracking, sinking or failing in other ways.

According to Johns-Manville, the bulkheads may be installed with normal jetting procedures and they do not require special handling equipment. The unique design of the lap-joint maintains alignment and continuous contact between the sections. However, J-M emphasizes that these corrugated bulkheads should be installed by experienced contractors in accordance with designs prepared by registered engineers. The performance of a bulkhead installation depends upon accurate engineering design and exacting construction procedures.

ASTM COMMITTEE C-16 on Thermal Insulating Materials, Sheraton Motor Inn, New York City, October 3-6, 1965.



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CASSIAR ASBESTOS — The Canadian federal government will provide financial aid up to $2,783,000 to construct transportation facilities for a new asbestos mining project at Clinton Creek, near Dawson in the Yukon. The federal aid will take three forms: reconstruction of the first 37 miles of the Dawson-Alaska Boundary (Sixty Mile) road; provision of two-thirds of the cost of building a mine access road (including a bridge across the Forty Mile River) from the Dawson-Alaska Boundary Road to the mine property; and, purchase of a new ferry to operate over the Yukon River at Dawson and improvements to the docking facilities. This is in line with the federal government's policy of stimulating mining development in the Yukon and Northwest Territories and will assist in narrowing the gap between northern and southern mining costs.

The company involved, Cassiar Asbestos Corporation, will invest some $14,000,000 to place the mine in production. Cassiar plans to start production at the rate of 40,000 tons of fibre per year. At this rate announced ore reserves will last 19 years but a good possibility exists that these reserves will be increased considerably.

R/M ASBESTOS-REINFORCED PLASTICS — A new brochure just published by the Aerospace Division of Raybestos-Manhattan, Inc., contains a nine-page chart which is a comprehensive guide to the selection of R/M's asbestos-reinforced plastics for rocket and missile applications. The chart covers three R/M product lines: RPD Pyrotex felts, tapes, and mats which are pre-impregnated and available with a wide selection of resin systems; RPD Pyrotex plain unimpregnated felts; and RPD molding compounds. For each of the 37 product types described, the chart recommends applications and provides data on asbestos fiber length, resin system, recommended laminating cycles, and recommended post cure cycles. Included in the chart are details on the products' typical physical properties, such as tensile, flexural, compressive, and shear strengths; elongation percentages; specific gravity; thermal conductivity; and a description of the test panel mold cycles used to determine these typical values.

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Automobile Sales

The Automobile Manufacturers Association, Detroit, Michigan, has issued the following statistics of motor vehicle factory sales from plants in the United States for JUNE 1965: total 1,058,647 (passenger cars 894,102; trucks and buses 164,545). The total for June 1964 was 893,160. The figures for the first six months of 1965 was 6,029,730 compared with 5,243,029 for the same period 1964.

NORAMITE ASBESTOS FIBRES—Cape Insulation and Asbestos Products Limited is now marketing Noramite crocidolite and amosite fibres in all the forms applicable in the reinforced plastics industry. Although the use of asbestos fibre as a plastics reinforcement is well established, especially in ablative applications in the rocketry field, the forms previously available were severely restricted. Now the outstanding properties of crocidolite fibres, having both tensile strength and an E Modulus two and a half times that of glass fibres, are available to the designer and the moulder with all the consequent advantages. For example, lack of stiffness is one of the main disadvantages of glass fibre laminates. By the incorporation of this recently developed Noramite mat into the structure, greatly increased stiffness is obtained. Full engineering and design data for a very large variety of reinforced compositions incorporating Noramite are given in CIAP's latest document on Noramite products. The chemical resistance of crocidolite fibre is well-known and Noramite mat can be very successfully used in corrosive applications, thus opening up many new possibilities in the chemical industry. The forms in which the Noramite fibre is being marketed are mat; tape for winding, polyester based dough moulding compound; epoxy based flock; spraying fibres, crocidolite roving; and asbestos paper.

NFPA—Fire Prevention Week, internationally sponsored by the National Fire Protection Association, October 3rd through 9th, 1965.



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WALTER E. MILLER, 72, Chairman of the Board and Executive Vice-President of Philadelphia Asbestos Corporation, died on Friday, August 20th, 1965. Mr. Miller had been associated with the insulation firm for 27 years having begun his career as a salesman-estimator. Active in trade association work, he helped to organize the Insulation Distributor-Contractors National Association, Philadelphia Insulation Contractors Association and the Middle Atlantic Insulation Contractors Association and served all three groups as an officer and director.

HOME IMPROVEMENT COUNCIL—The first annual Southern Regional Home Improvement Conference will be held at the Fontainbleau Motor Hotel, New Orleans, Louisiana, October 3rd and 4th, 1965. The Conference will be co-sponsored by the National Home Improvement Council and the New Orleans Chapter of NHIC.

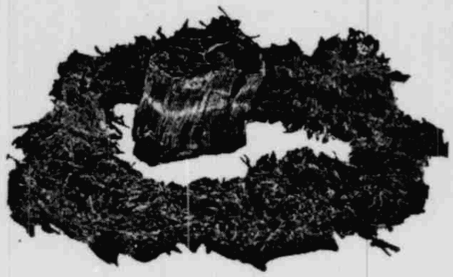
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Building

JULY 1965—The already favorable outlook for building activity during the months immediately ahead received further support as July 1965 new contracts, valued at $4,794,790,000, ran 4% ahead of last year's total, it was announced by F. W. Dodge Company, a division of McGraw-Hill, Inc. July's gain made it a string of four consecutive months in which 1965 construction contract value topped last year's amounts. This record volume of new work initiated since spring means that most contractors and suppliers will be busier than ever during the next few months. However, there is still a persistent lack of balance in building markets, with just about all of this year's growth coming solely from the nonresidential building sector. Both housing and heavy construction, by contrast, have been lagging a bit behind their cumulative 1964 volume. Nonresidential building contract value, at $1,691,347,000, was ahead 9% from July 1964. Commercial buildings (stores, warehouses, offices), educational buildings and public buildings were the big gainers. Manufacturing building declined moderately and contracts for hospitals were down sharply. Residential building contract value, at $1,952,387,000, was 2% below July 1964. Contracts for apartment buildings held even with the year-ago total, while single-family value slipped 2%, and non-housekeeping residential building value was off 13%. This reversal of the recent improvement in housing activity was mainly a regional weakness. Nonbuilding construction contract value advanced 9% with $1,151,056,000. Contracts for streets and highways provided a solid 7% boost while more than $100-million in dam projects helped to swell the total. However, contracts for utilities construction fell well short of the year-ago amount.

At the end of seven months, total contract value amounted to $29,435,324,000, to lead last year's cumulative total by 2%.

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T&N TODAY is a 32-page book on the history and activities of Turner & Newall Limited. The four companies which amalgamated in 1920 to form Turner & Newall Limited all had a common interest in asbestos. Today, the group operates over 20 companies and employs 39,000 people. It owns asbestos mines in Africa and Canada. The products of its manufacturing companies range far beyond asbestos-based materials such as asbestos-cement and brake linings. For example, plastics now figure prominently in most T&N manufacturing companies' operations. The industries to which they are major suppliers include building, transport, chemicals, engineering and shipbuilding. The book illustrates the way in which T&N products serve these and other industries.

SMITH & KANZLER COMPANY, Linden, New Jersey, has indicated that a licensing possibility exists with them in many countries throughout the world on Spray-Craft sprayed asbestos mineral fiber. S&K presently has two licensees, one in Japan, Nippon Asbestos Company Limited, and one in Australia, Bradford Insulation (S.A.) Limited. The licensing includes the use of the company's trade name "SprayCraft" and also covers the manufacture of the special SprayCraft spraying machines which are the most advanced design in the Industry, as well as use of S&K's various fire tests.

A new brochure on SprayCraft is available upon request to anyone interested.

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Carey-Canadian's 7RF-9, available in commercial quantities, has proved to be of extreme interest to resin compounders, joint cement manufacturers and others seeking an asbestos float with the above properties.

Samples and complete information on Carey-Canadian 7RF-9 floats may be obtained from the warehouse locations listed below or by writing to Carey-Canadian Mines, Ltd., P.O. Box 15095, Lockland, Cincinnati, Ohio 45215, or The Philip Carey Company, Ltd., Ville St. Laurent, Montreal 9, P. Q., Canada.

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Warehouse stock located at:

Baltimore, Md.	A. B. Kohl Sales Company
Brooklyn, N.Y.	Empire Ace Insulation Mfg. Company
Brooklyn, N.Y.	Smith Chemical & Color Company
Buffalo, N.Y.	Commercial Chemicals, Inc.
Chicago, Ill.	Chicago Firebrick Company
Cleveland, Ohio	Donald McKay Smith, Inc.
Dallas, Texas	Thompson-Hayward Chemical Company
Davenport, Iowa	Thompson-Hayward Chemical Company
Des Moines, Iowa	Thompson-Hayward Chemical Company
Detroit, Mich.	A. E. Fleming Company
Garwood, N.J.	Asbestos Corporation of America
Houston, Texas	Thompson-Hayward Chemical Company
Indianapolis, Ind.	Thompson-Hayward Chemical Company
Kansas City, Mo.	Thompson-Hayward Chemical Company
Knoxville, Tenn.	A. G. Heins Company
Little Rock, Ark.	Thompson-Hayward Chemical Company
Los Angeles, Calif.	E. S. Browning Company
Memphis, Tenn.	Thompson-Hayward Chemical Company
Milwaukee, Wisc.	Sprinkmann & Sons
Minneapolis, Minn.	Thompson-Hayward Chemical Company
New Orleans, La.	Thompson-Hayward Chemical Company
Oklahoma City, Okla.	Thompson-Hayward Chemical Company
Philadelphia, Pa.	George A. Rowley & Company, Inc.
Pittsburgh, Pa.	McCann-Shields Paint Company
St. Louis, Mo.	Thompson-Hayward Chemical Company
San Francisco, Calif.	E. S. Browning Company
Seattle, Wash.	Durkin Chemicals, Inc.
Trenton, N.J.	H. M. Royal, Inc.
Winchester, Mass.	W. D. Egleston Company, Inc.

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How the devil's asbestos cuts floor tile cost.



High in the Diablo Mountains, the new Johns-Manville Coalinga mill produces a very special grade of asbestos. Diablo, of course, is Spanish for devil. And the unusual asbestos mined in this central California range is proof some devils are really good guys.

Coalinga fibers are short and strong. Which makes them ideally suited to floor tile use. And they are exceptionally bright and clean. Which enables tile manufacturers to cut pigment cost substantially.

Still more proof the Diablos are good guys: this range promises an almost unlimited supply of short, bright, floor-tile-perfect asbestos fiber. Utilizing the most modern production methods, the J-M Coalinga mill assures their usefulness to our friends in the flooring industry.

For asbestos fiber literature, write Canadian Johns-Manville Co., Ltd., Box 1500, Asbestos, P.Q. Or Johns-Manville, Asbestos Fiber Sales, Research and Engineering Center, Manville, N.J.

JM

Johns-Manville

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MARKET CONDITIONS

General Business.

General business continues good. As this is written the deadline for the steel industry settlement with the union is rapidly approaching with no agreement in sight. It is felt, in some quarters, that Government intervention, if necessary, will prevent a work stoppage. Strike or no strike, it is predicted the steel companies will spend an unprecedented amount of money over the next few years for modernization of their facilities and this could give a big boost to the capital goods producers and, consequently, to the entire economy. The state of business is pretty well evidenced by the fact we have gotten through the summer without experiencing the usual "lull" in business. The international situation is still a cause for great concern and solutions to the many problems confronting the entire world are not easy to come by. It can only be hoped that solutions can and will be found which will effectively limit present conflicts and eventually stop them.

Asbestos—Raw Material.

Quebec asbestos fibre shipments for the Industry during July 1965 totalled 96,621 tons, 4,526 tons or approximately 4% lower than the same period last year. Year to date shipments at 606,482 tons are running 36,665 tons or approximately 6% below those of 1964.

Asbestos—Manufactured Goods.

Asbestos Brake Lining. The present condition of this market is excellent and should continue strong for the rest of the year.

High Pressure Insulation. There is a good backlog of orders for this material. The condition of the market is stable and a continued good volume of orders is expected during the coming months.

U.S. Rubber developed Asbeston® so you could use asbestos where you never could before.

Asbeston.

It does all the things regular asbestos does. Only it's lighter; and stronger for its weight. And because it's lighter and stronger, you can use it in more places in more ways. It's also a lot easier to work with. (Our engineering staff can make it easier still—they'll actually tailor any Asbeston fabric, yarn or tape or whatever to the specs of your operation.)

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Asbestos-Cement Pipes. A strong seasonal market is exceeding last year's performace in most sections of the country. The intense federal, state and local government interest in water and anti-pollution control is stimulating a long-range health outlook and will stir continuing activity for the rest of the year.

The above comments have been made by various informed executives in the Industry. All comments are welcome.

MINERAL FIBER PRODUCTS BUREAU has reported a sharp increase in sales of asbestos-cement sheets for commercial and industrial construction. Sales of asbestos-cement corrugated sheets rose 16.5% to 14,620 tons in the first four months of 1965. Sales of flat asbestos-cement sheets used for interior as well as exterior construction increased by 4.3% to 15,939 tons. The Bureau's figures represent 100% of the industry's production for industrial use, but do not include the production of specially formulated corrugated sheets used for canal bulkheading.

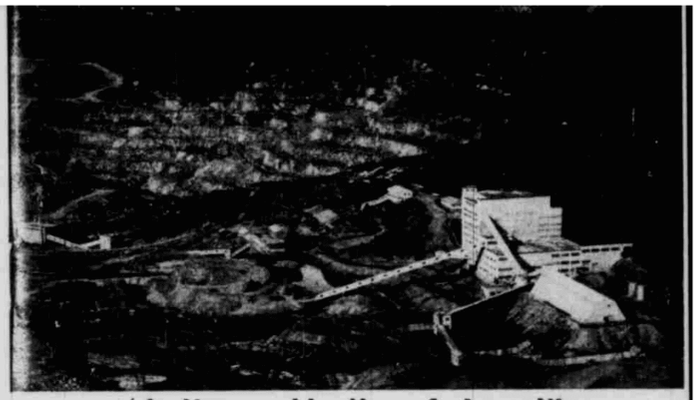
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Lake's annual capacity of 100,000 tons of high grade chrysotile asbestos fibre is processed to meet the special requirements of its customers.

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Keyser & MacKay
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Textile Improvements Ltd.
Guildford, England

ENGLAND
Metal Traders, Ltd.
Asbestos Division
London

FRANCE
Dieppedalle & Seailles
Paris

GERMANY
Atlanta Bauer & Co.
Bremen

GREECE
Textile Improvements Ltd.
Guildford, England

HOLLAND
Keyser & MacKay
Amsterdam

INDIA
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Calcutta

ITALY
Amianto Del Lago
Torino

JAPAN
C. Itoh Co., Ltd.
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PRODUCTION

Canada—According to the Dominion Bureau of Statistics, Ottawa, production of asbestos in Canada during MAY 1965 amounted to 109,117 tons compared to 124,656 in May 1964. Total for the first five months of 1965 was 438,629 compared to 476,497 for the same period in 1964.

Cyprus—According to the Ministry of Commerce & Industry, Nicosia, 3,701 short tons of asbestos were produced during the 2ND QUARTER 1965: April—none; May—1,100; and, June—2,601.

Rhodesia—The Ministry of Mines and Lands, Salisbury, has issued the following statistics on asbestos for JUNE 1965: Production—15,543.04 short tons; valued at £739,389.11.10.

Canada's Asbestos Products Manufacturers—1962, annual census of manufacturers, has been issued as Catalogue No. 44-203 and copies can be obtained from the Dominion Bureau of Statistics, Industry Division, Ottawa, Canada (50¢ each).

Asbestos, by Timothy C. May, preprint of chapter from U. S. Bureau of Mines Bulletin 630 "Mineral Facts and Problems, 1965 edition" is available from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C., 20402 (10¢ each). This preprint contains data on background of asbestos, definition of terms, grades and specifications, technology, uses, by-products, alternate materials, reserves, sources of statistical information, production, consumption and trade, strategic considerations, government programs, prices, taxes, transportation, research, outlook, problems, and references.

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IMPORTS & EXPORTS

Imports Into U.S.A.

(Published by Bureau of the Census) MARCH 1965

Unmanufactured Asbestos:	Short Tons
Amosite, Crude, Republic of South Africa	1,320
Crocidolite (Blue), Crude, Rep. of South Africa	3,726
Chrysotile, Crude, Canada	1
Zambia, Southern Rhodesia & Malawi	270
Chrysotile Spinning Fibres, Canada	1,244
Zambia, Southern Rhodesia & Malawi	25
Chrysotile, Other, Canada	60,983
Zambia, Southern Rhodesia & Malawi	177
Asbestos, Other, Canada	2,910
Finland	99
Republic of South Africa	40
Zambia, Southern Rhodesia & Malawi	55
	70,850
Valued at $7,115,933	

Manufactured Asbestos Goods:	Pounds	Value
A-C Pipes, Tubes & Fittings	12,079,218	$648,227
Asbestos-Cement Articles, Other	1,492,035	152,045
Asbestos Yarn, Sliver, Rope, etc. & other		68,173
		$868,445

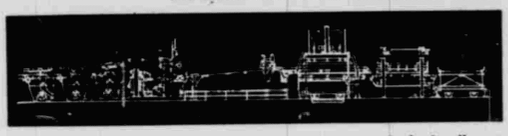
Sprayed Insulations Limited has appointed the following to further licensees of the "Silbestos" Sprayed asbestos process: M. G. Paschalides & Company Limited, P. O. Box 1185, Nicosia, Cyprus and M. Anderssons Isolering, Jarnvagsgaten 10, Ornskoldsvik, Sweden.

Lake Asbestos of Quebec Limited is constructing an office extension to house sales personnel who are being moved from the company's New York office. Once the office is completed, LAQ's entire asbestos sales operations around the world will be headquartered in the Thetford Mines, Canada, area.

Midwest Asbestos Company, 1023 Harney Street, Omaha, Nebraska, had a fire on August 13th, 1965, which gutted out its office and warehouse. A spilled can of liquid adhesive, ignited by the pilot light on a gas furnace, was determined to be the cause of the fire. According to Allen H. Wotherspoon, President, the company is operating but looking for new warehouse space and offices, either temporary or permanent.

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Machinery for the asbestos - cement industry is the result of more than a man's age of experience in the development, construction and erection of machines for asbestos-cement.



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Exports From U.S.A.

(Figures by Bureau of the Census) MARCH 1965

Unmanufactured Asbestos: Short Tons

Crude & Spinning		Non-Spinning Fibers		Waste & Refuse	
Italy	34	Belgium	10	Belgium	33
Japan	25	India	1,127	Japan	498
Mexico	107	Japan	612	Korean Rep	1,067
W. Germany	2	Korean Rep	297	Mexico	2
Other Ctys	11	Viet-nam	100	Netherlands	13
	179	W. Germany	8	Phil Rep	45
		Other Ctys	7	U. Kingdom	30
			2,161	Viet-nam	50
				W. Germany	21
				Other Ctys	5
					1,764

Total Unmanufactured Asbestos....4,104 Valued at..$469,822

Manufactured Asbestos Goods:	Net Qty	Value
A-C Shingles & Clapboard ..... Lb.	523,209	$ 52,455
Other A-C or Fiber-Cement Items ..... Lb.	1,266,905	243,421
Asbestos Gaskets & Packing ..... Lb.	288,160	464,659
Asbestos Textiles & Yarns ..... Lb.	228,709	144,382
Asb Mfrs. other than Friction Matls.	..	564,029
Asb Clutch Facings incl. Linings ..... No.	215,915	239,353
Asbestos Brake Linings ..... Lb.	741,409	524,257
		$2,232,556

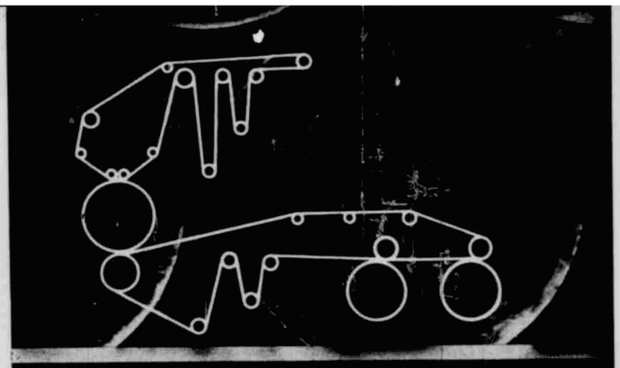
Cyprus Exports—The Ministry of Commerce & Industry, Nicosia, has issued the following asbestos export statistics for the 2ND QUARTER 1965 (in long tons): April—840, valued at £39,410; May—1,775, valued at £79,290; and, June—1,376, valued at £65,670 (total 3,991 long tons, valued at £184,370).

„ Tropag "

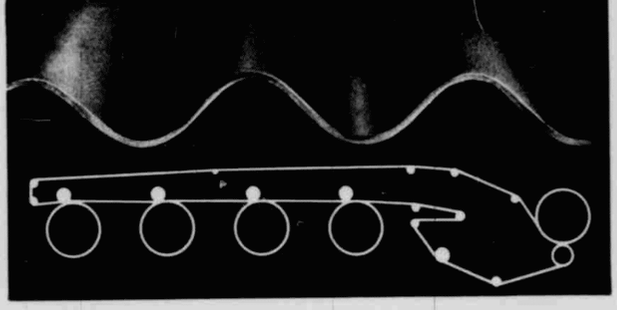
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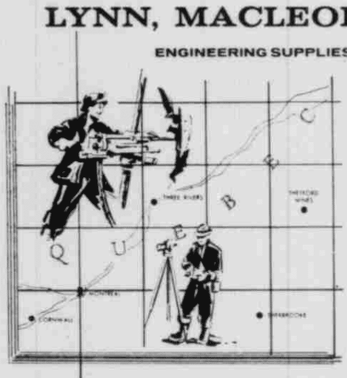
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INDUSTRY NEWS

HAPPY BIRTHDAY

G. E. C. Pease, Director, Cape Building Products Limited, Cowley Bridge Works, Uxbridge, England, September 2.
R. J. Berry, Vice President, Standard Asbestos Manufacturing Company of Cleveland, Cleveland, Ohio, September 15.
Elliott A. Gordon, Jr., Assistant to Vice President, Floor Tile Div., The Ruberoid Co., New York City, September 15.
W. John Scotford, Technical Director, Wunderlich Limited, Sydney, N.S.W., Australia, September 15.
Jack L. Neal, President, Metate Asbestos Corporation, Globe, Arizona, September 16.
Albert Strodtbeck, Secretary, The Clark Asbestos Company, Cleveland, Ohio, September 17.
Walter F. Marcuse, President, Canadian Asbestos Company, St. Laurent, Montreal, Canada, September 18.
John Despard Christian, President & General Manager, Cassiar Asbestos Corporation Ltd., Toronto, Canada, September 19.
W. W. Oughtred, Executive Vice President, Asbestos Corporation Ltd., Thetford Mines, Quebec, Canada, September 19.
S. Ralph Zimmerman, Jr., Executive Vice President, Raybestos-Manhattan, Inc., Manheim, Pennsylvania, September 19.
William R. Whitener, Sales Manager, Pacific Asbestos Corporation, San Francisco, California, September 20.
Philip M. Malouf, President, United Asbestos Corporation Ltd., Toronto, Ontario, Canada, September 21.
Paul R. Sussman, President, The Sussman Asbestos Company, Toledo, Ohio, September 21.
Victor J. Laskoski, Manager, Asbestos Fibre Sales, The Ruberoid Co., New York City, September 22.
Jay P. Nicely, Vice President-Sales, National Gypsum Company, Buffalo, New York, September 22.
Jack B. Stiles, Works Manager, Wunderlich Limited, Rosehill, N.S.W., Australia, September 24.
Win Brown, Vice President, McArthur Company, St. Paul, Minnesota, September 25.
W. S. Jeffrey, General Manager, Australian Asbestos Pty. Ltd., Marrickville, N.S.W., Australia, September 26.
D. W. Jaquays, President, Jaquays Mining Corporation, Phoenix, Arizona, September 27.
John W. Humphrey, President, The Philip Carey Manufacturing Company, Cincinnati, Ohio, September 28.
James R. Connell, Vice President & Director, The Flintkote Company, New York City, September 29.
Sir William C. Fenton, Chairman of the Board, British Belting & Asbestos Limited, Cleckheaton, England, September 29.
George Courtauld, Director, The Cape Asbestos Company Limited, London, England, October 2.

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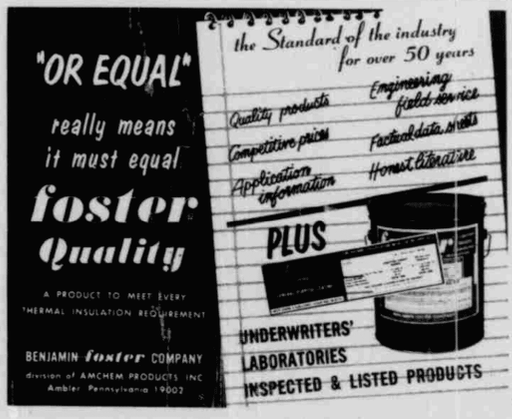
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Patrick Talbot-Smith, Managing Director, Universal Asbestos Mfg. Co. Ltd., Tolpits, Watford, Herts., England, October 2.
Donald A. Bain, Sales Manager, Asbestos Erectors of Canada Limited, Montreal, Canada, October 3.
R. A. Denovan, President, Denovan Limited, Dalkeith, Ontario, Canada, October 4.
Robert E. Skinner, Works Manager, Wunderlich Limited, Melbourne, Victoria, Australia, October 5.
Robert S. Beck, District Manager, Roofing Granule Division, The Ruberoid Co., New York City, October 6.
John W. Brown, Senior Vice President for Sales, National Gypsum Company, Buffalo, New York, October 7.
J. S. Munro, President, Raybestos-Manhattan (Canada) Limited, Peterborough, Ontario, Canada, October 7.
A. L. Penhale, President & Managing Director, Asbestos Corporation Limited, Thetford Mines, Canada, October 11.
David L. Neil, Vice President-Manufacturing, Roofing Granule Division, The Ruberoid Co., New York City, October 12.
H. R. Barrett, Executive Vice President, The Philip Carey Manufacturing Company, Cincinnati, Ohio, October 13.
Gordon G. Hazell, Manager, Technical Sales & Field Engineering, The Ruberoid Co., New York City, October 13.

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



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WIRE- and MACHINE WORKS

741 REUTLINGEN/WESTERN GERMANY

Johns-Manville Corporation has appointed **August Pocius** to the new position of Product Group Manager, Industrial Insulations, Coating and Jackets. He was first employed by J-M as District Engineer and most recently was Product Manager, Industrial Insulations, Coatings, and Jackets.

Dr. H. C. Fischer has been appointed to the newly-created position of Technical Service Manager for the Concrete Specialties Department, of the Celite Division of **Johns-Manville Corporation.** This department develops, produces and markets a variety of chemical admixtures for concrete. Dr. Fischer has been with J-M since 1957 as Chief, Concrete Specialties Section, Celite Department, at the J-M Research & Engineering Center.

National Gypsum Company has appointed **David G. Stenberg** to the new position of Director of Industry Relations, it was announced by Colon Brown, Chairman of the Board. In this new position, Mr. Stenberg will function in a staff capacity and be responsible for maintaining proper sales relationships at executive levels between the company and its major accounts, suppliers and potential suppliers and customers. He will also represent the corporation as a member of the major trade organizations involved in the building materials industry.

Philip Carey—H. R. Palmer, Vice President of The Philip Carey Manufacturing Company announced that **William J. Manion,** of Richardson, Texas, is a first quarter award winner in the company's national "Top 20" sales contest. Mr. Manion was one of five sales representatives to receive this award among all members of the Philip Carey sales organization covering the entire United States.

Orangeburg Manufacturing Company, a division of The Flintkote Company, has appointed **Robert E. O'Sullivan** as Plant Manager of its Ravenna, Ohio, Flintite asbestos-cement pipe plant. Mr. O'Sullivan has been in asbestos-cement pipe production for eighteen years.

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H. K. Porter Company, Inc. has elected **Ernest B. Harper, Jr.** as Vice President and General Manager of its Vulcan-Kidd Steel Division. This division makes high speed, tool and die steels, cold drawn shapes and drill rod.

Certain-teed Products Corporation has appointed **William H. Campbell** as General Merchadising Manager and **Charles E. DeLong** as Secretary. Mr. DeLong succeeds **Arthur O. Graves,** who has retired.

United Asbestos Corporation Limited has elected **Gaston Elie** a Director. Mr. Elie is president of both Transit Tankers & Terminals Limited, and Joseph Elie Limited, and director of Nation Canadian Bank and also General Trust of Canada.

U.A.M.—Universal Asbestos Manufacturing Company and its subsidiary and associated companies has elected **Patrick Talbot-Smith** as Managing Director succeeding **Desmond Kirkness.** Mr. Kirkness will continue as a Consultant.

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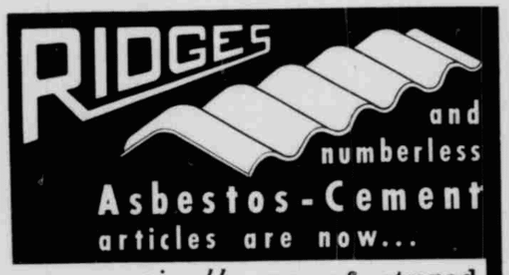
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ARIZONA— Per Ton of 2,000 lbs., f.o.b. Globe, Arizona

(As of July 10, 1964)

No. 1 Crude	$1,410.00 to	$1,650.00
No. 2 Crude	610.00 to	900.00
AAA	..	800.00
Group No. 3 (Non-Ferrous Filtering & Spinning)	425.00 to	750.00
Group No. 4 (Non-Ferrous Plastic & Filtering)	385.00 to	500.00
Group No. 5 (Plastic & Filtering)	250.00 to	400.00
Group No. 7 (Refuse & Shorts)	58.00 to	90.00

CANADA— Per Ton of 2,000 lbs. f.o.b. Mine

(As of January 1, 1965) Canadian Currency

Group No. 1 (Crude No. 1)	$ ..	$1,410.00
Group No. 2 (Crude No. 2, Run of the Mine Crude, Sundry Crudes)	640.00 to	875.00
Group No. 3 (Spinning Fibre)	345.00 to	565.00
Group No. 4 (Shingle Fibre)	190.00 to	320.00
Group No. 5 (Paper Fibre)	115.00 to	156.00
Group No. 6 (Waste, Stucco or Plaster)	..	95.00
Group No. 7 (Refuse or Shorts)	40.00 to	80.00

CASSIAR— Per Ton of 2,000 lbs., f.o.b. Vancouver, B. C.

(As of January 1, 1965) Canadian Currency

AAA grade (non-ferrous spinning fibre)	$ 787.00
AA grade (non-ferrous spinning fibre)	625.00
A grade (non-ferrous spinning—Canadian Group 3)	470.00
AC grade (asbestos cement—Canadian Group 4)	325.00
AD grade (asbestos-cement—Canadian Group 4)	260.00
AK grade (shingle fibre—Canadian Group 4)	220.00
AS grade (shingle fibre—Canadian Group 4)	181.00
AX grade (shingle fibre—Canadian Group 5)	160.00
AY grade (shingle fibre—Canadian Group 5)	120.00

VERMONT— Per Ton of 2,000 lbs., f.o.b. Mine

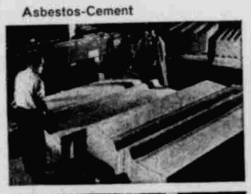
(As of January 10, 1965) U. S. Dollars

Group No. 3 (Spinning & Filtering)	$ 319.00 to	$ 370.00
Group No. 4 (Shingle Fibre)	176.00 to	296.00
Group No. 5 (Paper Fibre)	121.00 to	144.00
Group No. 6 (Waste, Stucco or Plaster)	.. to	88.00
Group No. 7 (Shorts & Floats)	40.50 to	75.00

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U. S. Rubber's Los Angeles, California, sales office of the Textile Division has been moved from Soto and East 46th Streets to 5901 Telegraph Road.

U. S. Rubber—The following assignments were made within the Textile Division of U. S. Rubber Company: **Luther G. Granger,** Manager of Management Engineering; **Samuel R. Moore,** Sales Statistician; and, **Edward A. Morris,** Product Application Specialist, Asbeston products.

Richard H. Burton, Plant Manager, now has the combined direction of the production staffs of **U. S. Rubber Company's** Textile Division plants at Gastonia, North Carolina. He joined the company in 1939.

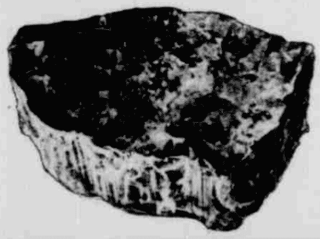
Edward A. Morris has joined the Textile Division of **United States Rubber Company** as Product Application Specialist for Asbeston products. He will be responsible for all development and technical service for Asbeston yarns and fabrics.

William H. Onderdonk has been appointed Director of Industrial Engineering of **U. S. Rubber Company** and will be responsible for world-wide industrial engineering activities on the corporate level. Formerly factory manager of the company's Philadelphia, Pennsylvania, plant, Mr. Onderdonk will be headquartered in New York City.

Simplicity Engineering Corporation, Durand, Michigan, has appointed **David Owens** as Advertising Manager, it was announced by Robert L. Pierce, General Sales Manager. Mr. Owens will assume the advertising post in addition to his previous duties as Market Research Manager. Simplicity manufactures vibratory equipment for the aggregate, brick and clay, mining, foundry and food industries.

Ontario Mining Map—A colorful new map has been prepared by the Ontario Department of Mines, Toronto, Ontario, Canada. Designed specifically for school purposes and for the layman, it is in the form of a folder which deals with different phases of Ontario's mining industry. The map itself shows the geology of the province in simplified form and also the major mineral deposits.

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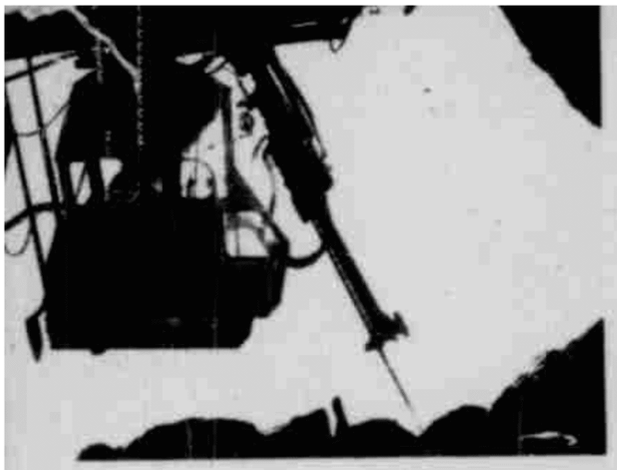
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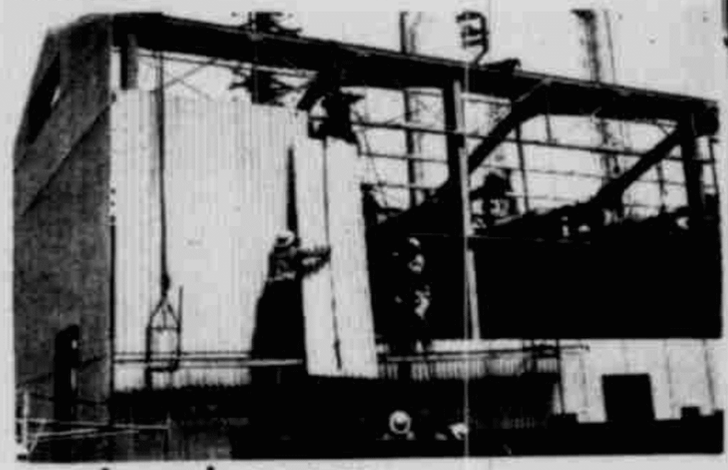
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