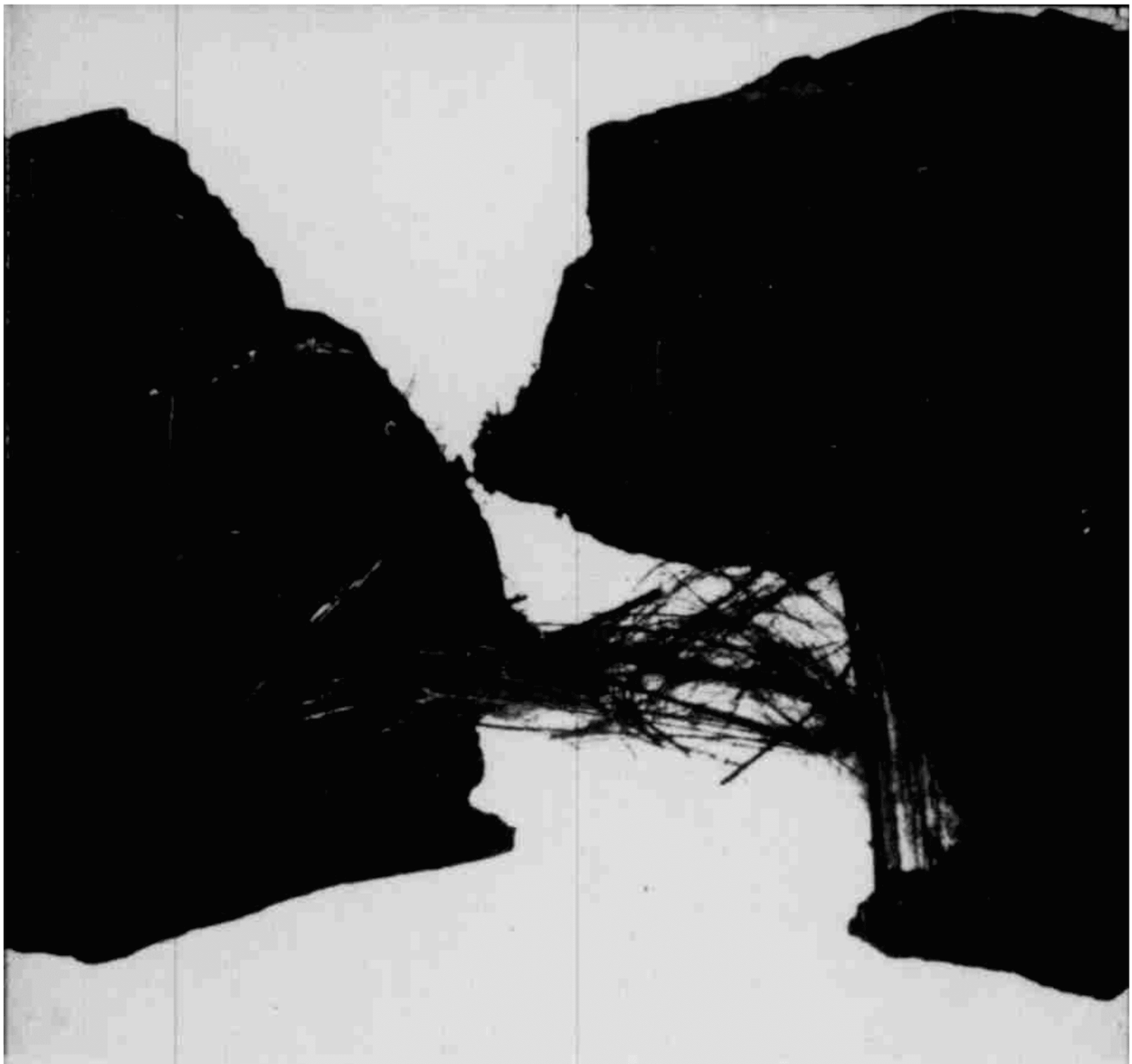


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ASBESTOS

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CONTENTS

CARDING OF ASBESTOS & CARRIER FIBERS 2
BRAKE SAFETY—NO. 2:
BRAKE LINING TEST FAILURES 14
ASBESTOS RESEARCH 18
A CENTENNIAL LOOK AT ASBESTOS 20
AUTOMOBILE SALES 22
BUILDING 24
MARKET CONDITIONS 30
IMPORTS & EXPORTS 38
INDUSTRY NEWS 44
ASBESTOS PRICES 52
ASBESTOS STOCK QUOTATIONS 54
ASBESTOS PATENTS 56

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CARDING OF ASBESTOS & CARRIER FIBERS

By: J. L. Tucker, Textile Consulting Engineer

(This is the fourth of a series of articles prepared by Mr. Tucker for discussion by readers of ASBESTOS.)

In all branches of the textile industry, cards are primarily used for the production of a product such as sliver, web or roving. While passing through the card, the fibers are being opened, cleaned, and mixed or blended. If the importance of the card depends on its having to do a major job of opening, cleaning or blending the fibers, then the quality of the product produced will not be of the highest quality.

If the fibers have been sufficiently opened, cleaned and blended prior to being fed to the card, then the products produced should be of a high quality and the operating efficiencies at the card and at following manufacturing processes should be at a maximum. The prime objective at the card is to produce a product, and the opening, cleaning and blending normally would be taken for granted.

Providing the preparatory processing of the fibers has been the best or at least satisfactory, then the correct type of card is necessary in order to produce products that contain outstanding characteristics at maximum production speeds and efficiencies. Generally speaking, an asbestos card can produce some kind of product at some speed or some efficiency, but there are still the questions relating to the design or construction of the card. For instance: is the present card of the correct design for fibers as short as asbestos of the 2, 3 and 4 grades; are the fibers overly processed in the cards; are there too many attachments or moving parts on the present cards; are the workers and strippers actually separating the carrier fibers from the asbestos fibers; are the asbestos fibers actually being bounced rather than carded; are the diameters of the rolls and cylinder correct for both the short asbestos fibers and the long carrier fibers; and, if a card was designed and built specifically for the asbestos textile industry, would production be greater and product quality higher.

The card normally used in the asbestos textile industry was originally designed and built for the woolen and wor-



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sted textile industries. To make the card suitable for the asbestos textile industry, either the card manufacturer or the asbestos textile plant engineers must modify it. These modications are generally minor—specific type of card clothing, specific type of rubb or condenser aprons or tapes, settings changed, speeds lowered (this in many instances relates to condition), dust collecting attachments, etc.

This woolen or worsted card that has been modified for processing asbestos and carrier fibers was originally designed and built for processing fibers much longer than asbestos fibers of grades 2, 3, and 4. In some lots or from some suppliers, No. 1 grade asbestos, because of its length, might be comparable with the wool fibers of the shorter lengths. The comments made thus far are in most instances based on discussions with representatives of textile machinery organizations, carders or department foremen who have processed many types of fibers, observations made at different textile plants, and the writer's experience in the carding of many organic and inorganic fibers.

Characteristics of wool fibers are hardly comparable with those of asbestos or with most carrier fibers. In carding, length of fibers is important and paralleling of fibers while in the card has been emphasized by some. Because of their length, wool fibers allow a "dragging" or "combing" action to take place. Due to centrifugal force, some fibers must have sufficient length to be held and fray out from the surface of the cylinder (card clothing). If this is true for good carding, then does asbestos fiber have sufficient length or is it being carried as tufts, bunches, or spots, etc.?

The cards differ in the number or sets of workers and strippers—usually 5 to 8 sets attached to the card. What diameter of worker and stripper rolls do the best job for asbestos and carrier fibers? What speeds have been found to be most practical?

It should be noted again that asbestos fibers can be overly processed and it appears as though this can occur at the card.

The feeders attached to the card are considered by some as of minor importance because of the weigh-box, weigh-pan or dump-pan that periodically drops similarly

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weighted amounts of fiber on a feed apron going to the feed rolls of the card. In some instances, the feeder is dropping compact lumps or large bunches of fibers into the weigh-box and the fibers are not distributed evenly throughout the length or width of the weigh-box. This is due to a slow stripper comb, or because of the condition of the fiber placed in the feeder, or because of a combination of conditions. The more fibers have been opened prior to the feeder and the more these fibers have been intimately mixed, without deteriorating the processing characteristics of the fibers, the more evenly they will be distributed in the weigh-box.

There are three methods for presenting the fibers to the feed rolls of any card and to asbestos cards:

Method A—This method is most commonly used in asbestos textile plants and consists of a feeder, with weigh-box, and feed apron delivering fibers to feed rolls. A tuft-like mat or sheet is formed by the fibers dropping from the feeder into the weigh-box, then on to the feed apron going to the feed rolls of the card. This method does present a fairly uniform weight per yard of fiber entering the card, but within the yard there could be many thick and thin spots.

Method B—This method relates to the use of the sheet or felted fibers that have been rolled into a lap form of the correct width and weight per yard. (This was discussed in the third article of this series). The sheet of fibers in lap form is fed directly to the card, thus eliminating the use of a feeder normally attached to the card. This method appears to present the most intimately blended and evenly distributed fibers to the card, but there are problems involved in order to present the fibers to the card in this sheet form; such as, (1) a cotton type lap picker has to be obtained, (2) the width of a standard cotton lap picker in the last 45 years has been 40 inches (Cotton lap pickers were previously obtainable in 40 and 45 inch widths and there may be some used 45-inch pickers still available. However, none of these are wide enough for the production of 48-inch, 50-inch or more widths of sheets for asbestos cards. Many textile plants other than asbestos have extended the width of these pickers to 48 and 50 inches.

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European textile machinery builders do supply 48 and 50 inch wide cotton-type lap pickers), (3) there will be air circulation problems to be solved, and (4) the sheets of asbestos and carrier fibers in lap form do not have the handling strength of other fibers of the same weight in sheet form. (This situation deteriorates as the asbestos fiber content is increased for grades above Underwriters'. Some who have evaluated this process have used paper backing on the sheets as they are made into lap form. Others have experimented with resin-like spray agents for strengthening the surfaces of the sheet in addition to the paper backing. The paper backing is removed before the sheet enters the feed rolls.)

Method C—This method also relates to the use of fibers in a sheet and lap form but only the 100% carrier fibers are made into a sheet and lap. (Note: Method D was commented on in the third article of this series.) This sheet of 100% carrier fibers is fed directly to the card but while it is moving toward the card on a feed apron the asbestos fibers are dropped from a feeder to the sheet as it unrolls from the lap. The feeder straddles the feed apron. This method, said to be in use in Europe, is flexible to the extent the sheet of carrier fibers is the same for all grades and the asbestos fibers dropping from the feeder can be regulated or controlled in order to produce the required grade or product or the required amount of asbestos fiber to produce products containing the correct amount of asbestos. Naturally there are problems involved in the installation of such a process, some identical to those for Method B (above): obtaining the width lap picker required for the production of the needed width sheet; air circulation problems because of the sheet width needed; and, laps 48 inches or wider are somewhat difficult to handle but their strength can be sufficient with proper transportation equipment.

Method B appears to blend the fibers more intimately before they contact the cylinder, particularly in that the asbestos and carrier fibers were previously blended before contacting the lickerin at the card.

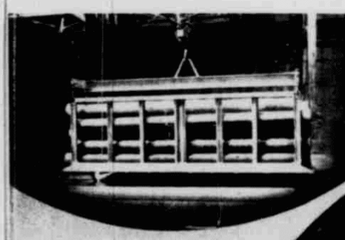
Most plants would like to evaluate a fiber mix by some machine, process or procedure that would make the evalua-

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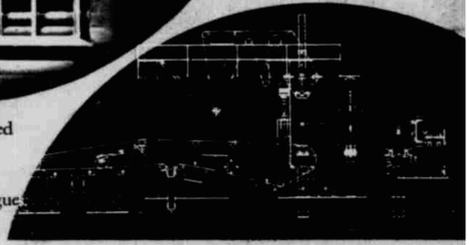


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tion in minutes or within one or two hours. There is the possibility that some organization or plant has originated such a method, but if so, it is not generally known.

The 10-inch sample card which is being used in the wire insulating industry was originally designed and built for the woolen and worsted textile plants to evaluate their fiber mixes particularly the color or shade of dyed fibers and to note whether or not the batches of fiber vary in shade from day to day. There is the possibility that someone in the asbestos textile industry has originated a method or simplified process of some kind for quick evalution of fiber mixes. Possibly the 10-inch card has been included in such a procedure, or can be, particularly in that there is now available a 10-inch sample card with tape condenser. As yet, there apparently is no feeder available for such a miniature card so it would have to be fed by hand, weighing the fiber blends and laying them evenly on the feed apron.

There is still the question — What can be done and should be done to have a card designed and built especially for the carding of asbestos and carrier fibers?

JOINT IDCNA/TIAC 1967 CONVENTION will be held in conjunction with Expo '67 at the Queen Elizabeth Hotel, Montreal, Canada, from July 2nd through 6th, 1967. The theme of this joint (Insulation Distributor-Contractors National Association & Termal Insulation Association of Canada) insulation industry convention is "Insulation for Man & His World".

EQUIPMENT TRADE SHOW will be the highlight of the third biennial national meeting of *Armstrong Cork Company Approved Gasket Fabricators* in Lancaster, Pennsylvania, June 22nd and 23rd, 1967. The program also includes new product announcements, management information sessions, and a discussion of marketing plans and strategy. More than twenty companies will display the latest equipment for fabricating gaskets.

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BRAKE SAFETY

(With all the controversy over automotive safety, Raybestos-Manhattan's Grey-Rock Division, a leading manufacturer of brake linings, has issued a brake safety kit containing six fact sheets of accurate technical material on brakes—one of the most vital safety features of a vehicle. Grey-Rock's experts will be glad to elaborate on any of this material or answer questions that might arise, particularly at the time that state or federal safety standards might be imposed on all automobiles sold in the United States.)

(Fact Sheet No. 2 on Brake Lining Test Failures is published below. The remaining fact sheets will appear in future issues of ASBESTOS and will cover lack of uniform brake lining standards, what mechanics should check and repair in inspecting brakes, tips on using brakes safely, and quotes from experts on brakes. The fact sheet on brake types appeared in March 1967 ASBESTOS.)

No. 2—Brake Lining Test Failures

One of the most critical components of a braking system is the brake lining that comes in direct contact under pressure with the whirling drum or disc to slow down and stop a vehicle. To be effective and safe, the lining must be tough enough to resist, repeatedly, the destructive high temperatures generated by braking action.

Unfortunately, many brake linings have been found seriously inadequate for today's driving conditions.

In tests conducted in 1963 by the National Association for Stock Car Advancement and Research, Inc. (NASCAR), at Daytona International Speedway, nineteen brands of brake linings purchased on the open market were subjected to typical driving conditions, and then given final destruction tests.

Most of the linings, regardless of price, failed the tests, indicating that the public usually does not get linings with sufficient reserve capacity or resistance to heat fade to permit safe operation at speeds over 60 miles per hour.

Again in 1964, NASCAR tested twenty-six leading brands of brake linings purchased in the field. This time, the tests were non-destructive but were devised to duplicate stops made by drivers in various types of traffic occasioned by present-day conditions, from super-highway speeds to ordinary highway driving.

In this second series of tests, it was concluded that most linings were unsafe for use at high speeds or in

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mountainous areas where brakes are worked hard and are required to perform at high temperatures. Only a small number of the linings were considered satisfactory for high-speed service. (NOTE: Summaries of the brake lining tests are available on request.)

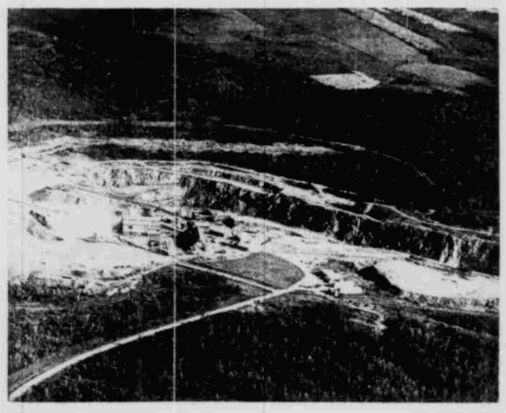
ATI MEETING—The June meeting of the Asbestos Textile Institute will be held at the Lucerne Motel, 4959 Sherbrooke Street East, Montreal, P.Q., Canada, on June 8th and 9th, 1967. Registration will be on June 7th. Because of the anticipated shortage of rooms during Expo '67, a deposit for one night's lodging ($23.50) must accompany the reservation request. These should be sent very promptly to Mr. Les Agres, Manager, Lucerne Motel Annex, specifying both the arrival and departure dates.

There will be an official reception at Expo '67 and a conducted tour for the Institute group on June 8th, and the Canadian members of ATI will host for luncheon on that day.

SAMUEL A. ABRAHAMS, internationally known chemical engineer, died February 28th, 1967, at his home in Berkeley, California, after an illness of several months. He was 62. A graduate of the University of California, Mr. Abrahams had been connected with the industrial use of asbestos products and their manufacture since 1927 and is well known by people in this field throughout the world. He had, at one time, been insulation manager for the Pabco Products Division of Fibreboard Corporation. Also, he had been a manager for The Philip Carey Manufacturing Company at Plymouth Meeting, Pennsylvania. In 1959 and 1960, he served as a technical assistance expert to the government of Israel, having been appointed by the United Nations.

Memorial contributions may be made to the Samuel A. Abrahams Memorial Scholarship Fund, at the College of Chemistry, University of California at Berkeley. This scholarship fund was created to perpetuate Mr. Abraham's great interest in scientific achievements.

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Asbestos Research

(The following has been excerpted from an article on asbestos, by H .M. Woodrooffe, which appeared in the February 1967 issue of the Canadian Mining Journal, pages 196-198.

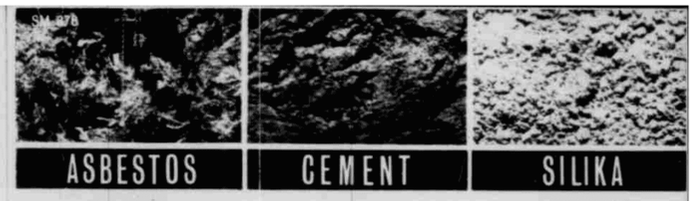
It has been estimated that there are over 3,000 uses for asbestos fibres and research is the key to development of new uses. Interest in short fibres for asphalt pavement is continuing and use of fibre in paper manufacture is receiving much attention. Recent research on asphalt road surfacing has shown that some asbestos-asphalt mixtures are impermeable to water penetration and that 20-25% less asphalt is necessary when asbestos is used to obtain equivalent quality.

In a new research development in the United States, chrysotile is being processed into colloidal particles. The fibre is chemically treated to separate the fibres and weaken them at periodic positions. Mechanical treatment then breaks the fibres into approximately 5,000 angstroms in length and 200 angstroms in diameter. This colloidal product can be used as a flow and viscosity control agent in plastics, paints and other products. The surface chemistry of the fibre is said to be altered by the chemical treatment.

In another development, asbestos-filled polypropylene has grown into a 20-million pound market. This material has solved certain corrosion and assembly problems in specific automobile parts such as electrical connectors, high temperature parts, coil forms, ventilator air inlet housing, etc. Its use in the automobile industry alone for 1966 is estimated at 10-million pounds.

A recent U.S. patent has been issued claiming the use of about 5% by weight of the short asbestos fibre grades as a binder in the production of taconite pellets.

OSCAR H. RITTER, 76, died suddenly on March 19th, 1967. He started business activities in 1909 in London and continued in Hamburg after World War I. Under his management for over 45 years, the firm "Tropag" reached its present importance in the import of asbestos, ores and minerals, metals, and chemicals.



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A Centennial Look at Asbestos

Asbestos is economically the most important non-metallic mineral in Canada today. Productive value in 1966 was $167-million, approximately 20% of the total for industrial minerals.

Asbestos was known in the Eastern Townships of Quebec many decades before its commercial importance was recognized. In a history of this area published in 1869 it is recorded that "the finer varieties of asbestos have been wrought into gloves and cloth that are non-combustible. Local residents of that period referred to the mineral as "coton a pierre." The construction of a railway through eastern Quebec in the late 1870's stimulated interest in the asbestos deposits of the area. In 1878, the first commercial production began, 50 tons being shipped from the property of Andrew Johnson at Thetford. Production has been continuous since that date ,and Andrew Johnson's pit became one of the underground mines of Asbestos Corporation Limited. Other mines were developed during the same period and by 1887 there were 11 operating companies in Quebec.

Canada's position as an exporter of asbestos was established very early in its history as the usefulness of the mineral was recognized in world markets. In 1966, some 95% of the total production of 1½-million tons was shipped to world markets.

(Reprinted from "A Centennial Look at Industrial Minerals", Group V—Asbestos and Miscellaneous, Canadian Mining Journal, April 1967.)

J-M VINYLCRAFT—Johns-Manville Corporation has made two additions to its growing line of high-style Vinylcraft flooring: MARRAKECH and LUNETTE. Marrakech is an embossed vinyl-asbestos flooring with a smooth, rich beauty of polished slate. Lunette's pattern creates a design of interlocking circles and the tile is embossed of travertine in combination with a slate-like texture. Joint lines are almost completely masked or minimized by the tiles' patterns. The tiles may be installed above, on or below grade and come in a 12"x12" size and a ⅛" thickness.

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Winchester, Mass.	W. D. Egleston Company, Inc.

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Automobile Sales

FEBRUARY 1967 motor vehicle factory sales from plants in the United States totaled 660,205 (passenger cars—525,612; trucks and buses—134,593). The total for February 1966 was 917,572. The total for the first two months of 1967 was 1,457,487 compared to 1,867,653 for the same 1966 period.

Motor vehicle factory sales from plants in Canada totaled 70,158 in February 1967 compared to 77,212 in February 1966.

United States motor vehicle imports for February 1967 were as follows: new passenger cars—79,523 valued at $127,431,153; used passenger cars—331 valued at $330,663; trucks and buses—7,475 valued at $13,590,990; and, automotive parts—valued at $43,966,296.

MINE SAFETY & HEALTH—Five years of research that has led to continued advances in safety and health for thousands working at mines throughout the United States are summarized in a report issued by the U.S. Bureau of Mines. This report has been published as Information Circular 8306 and is entitled "Research and Technologic Work at the Health and Safety Research and Testing Center, Fiscal Years 1960-1965." A copy can be obtained without charge from the Bureau of Mines, Publications-Distribution Section, 4800 Forbes Avenue, Pittsburgh, Pennsylvania 15213. Requests for the publication should specify its number and title.

GUMMI ASBEST KUNSTSTOFFE

is the asbestos periodical in Europe which covers editorially in each issue the production, processing and application of asbestos. Therefore, it is read by all firms connected with the importing and processing of asbestos in 60 countries and is used for advertising by the asbestos mines all over the world.

Subscription fee DM 66.—plus postage per year.

Published by: A. W. Gentner Verlag KG, 7 Stuttgart-W Forststr. 131, Postfach 688.



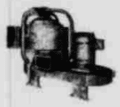
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BAUER

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Building

MARCH 1967 total construction contract value climbed to $4,424,414,000. The steady improvement in contracting since early this year has been confined almost exclusively to the housing market where so much of last year's decline occurred. There is no question that credit ease has been the key to the housing pickup, but with this recovery still far from complete, total construction activity remains 7% behind the very strong values reported March 1966.

Nonresidential building contracts totaled $1,713,515,000, only a 1% decline from the March 1966 value. Industrial and commercial building contracts held their year-ago pace with the help of two large projects. Humble Oil's $95-million refinery in California boosted the manufacturing building category 21% for the month while office building contracts advanced 18% with the inclusion of U.S. Steel's 64-story, $50-million triangular tower in Pittsburg. Stores and warehouses ran 25% behind their March 1966 contract value, and institutional building contracts equaled the year-ago amount with educational projects ahead 13% and hospital and health treatment buildings off 27%.

Residential contract value, $1,583,766,000, was 21% behind the year-ago amount. However, this month's decline was the smallest since last June. Apartment building came through with a surge and exceeded the March 1966 total by 4%. Nonhousekeeping contracts were off 31% with declines in hotels, motels, and dormitories.

Nonbuilding construction was dominated by three big electric utility contracts, together valued at more than a quarter of a billion dollars. Despite sizeable declines in highway contracts and water supply projects, nonbuilding construction value topped the year-ago amount by 12% at $1,127,133,000.

FIRST THREE MONTHS 1967: Nonresidential $4,282,289,000 no % change; Residential $3,569,733,000 down 25%; and Nonbuilding $2,655,117,000 down 2%—total construction $10,507,139,000 down 11% from the first three months of 1966. (F. W. Dodge Company, a division of McGraw-Hill, Inc.)

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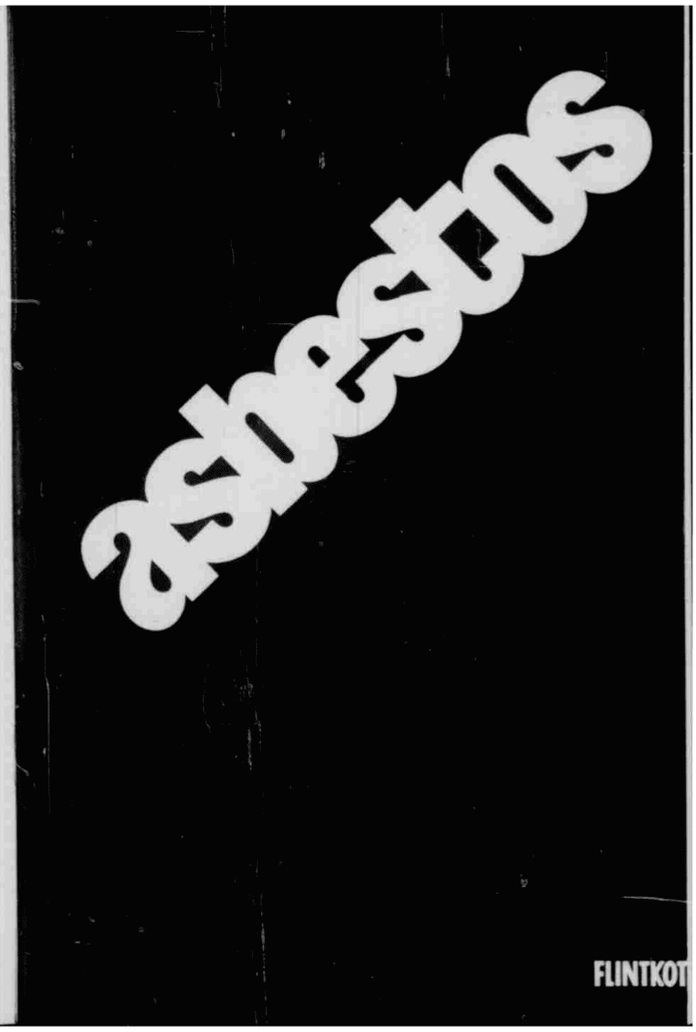
Represented by: W. M. Deckman, Mechanicsville, Pa. A6
Tel: 215-794-7338

G. A. WILSON, Director in charge of Export Sales for *J. W. Roberts Limited*, Horwich, Bolton, England, retired on November 30th, 1966, after 22 years with the company. He joined Roberts in 1945 and in 1948 was made Manager of the Spray Operations Department. He was named Export Sales Manager in 1957 and was later appointed to the Board of Directors.

RUSSIAN TRANSLATION—A full translated copy of "The Asbestos Cement Industry and the National Economy" by Y. S. Grizak, which appeared in the January-February 1967 issue of the Asbestos Bulletin (announced in February 1967 ASBESTOS—page 22) is available from the publishers of the Asbestos Bulletin: Astex Publishing Co., 22-23 North Street, Guildford, Surrey, England.

SIMPLICITY ENGINEERING COMPANY has issued a new catalog describing its line of D'CENTEGRATOR Impact Type Crushers. It cites examples of typical installations, includes standard construction details designs, and describes the models 24A and 40A D'CENTEGRATOR Asbestos Fiberizer.

DODGE PRICING MANUAL—A new manual containing construction cost data on nearly everything from greenhouses to mail chutes has been issued by the F. W. Dodge Company, a division of McGraw-Hill, Inc. The 170-page reference volume, which will be updated and issued annually, provides information for general construction pricing and scheduling, checking prices, extra work costs, pricing uncommon items, and budget estimating. It lists thousands of construction items trade by trade, unit by unit, and includes data on labor, costs, material costs, and output per day. It also provides index figures for labor and material prices, as well as the cost of fringe benefits, for fourteen trades in each of the major metropolitan centers. (Dodge Construction Pricing & Scheduling Manual—$9.95)



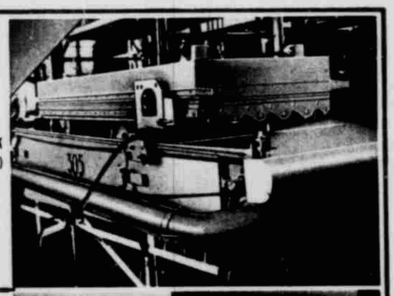
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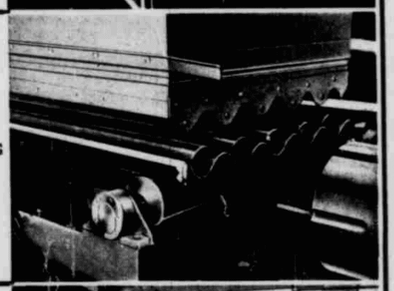
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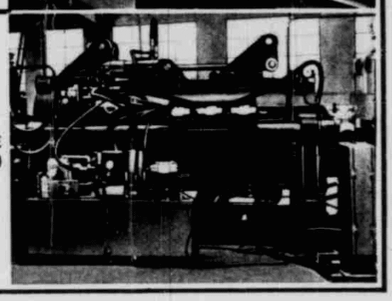
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MARKET CONDITIONS

General Business.

While general business continues to show recessionary trends there are a few bright spots in the overall picture. Automobile sales showed a healthy increase during early April after a very disappointing first quarter. Latest figures indicate a halt or reveral of the slow down trend in industrial production and, despite signs of continuing softness in many lines the percentage of unemployed in the total work force has shown no appreciable increase up to now. First quarter profits of many large corporations were sharply down and predictions are that second quarter results will not be much better. Despite this, the stock market has been strong and every short period of decline has been followed by a strong recovery and the general trend has been upward since the first of this year. At this point we find most prognosticators looking forward to general business improvement during the last half of the year but hedging as to when the uptrend will start and how strong it may be. At best the present situation is "confusing."

Asbestos—Raw Material.

Quebec asbestos fibre shipments for the Industry during March 1967 totalled 112,096 tons, an increase of 11,779 tons or approximately 12% above the same period last year.

Year to date shipments at 244,332 tons are 18,991 tons or 7% lower than those of 1966 for the same period.

Asbestos—Manufactured Goods.

Asbestos Textiles. In spite of a general softening in the market in heavy industry and curtailment in automotive output, the asbestos textile industry continues to run at capacity. As a result of the Space tragedy at Cape Kennedy, there seems to be a growing concern by all Government agencies of the necessity for an overall review of

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Guildford

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Séailles
Paris

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Bremen

GREECE
Textile
Improvements Ltd.
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HOLLAND
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ASARCO

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safety standards with respect to fire resistance. This awareness also seems to be reaching the general public and undoubtedly will result in industry appraisals of fire safety standards. The asbestos textile industry has already stepped forward with its resources and fully expects to contribute asbestos products through research, development, and technology to meet this challenge.

Asbestos Brake Lining. The present market for this material is good and should be even better during the coming months.

Asbestos-Cement Shingles, Roofing & Siding. The late arrival of good weather has delayed construction projects both in new construction and home improvements. However, with the easing of tight money and the inevitability of better weather, this condition should greatly improve in the very near future.

Asbestos-Cement Pipes. At present, the volume of demand for this product remains satisfactory although competition is keen.

Asbestos Filter Fiber. The filter fiber market in Arizona is steady and should show a 5% increase in sales by the end of the year. A seasonal increase is anticipated for the fall sugar campaigns.

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

METAL-ON—More than 7,000 feet of Metal-On now insulate all the hot-water piping being used in the new development laboratory of Atomic Energy of Canada Limited, Sheridan Park, Ontario. Metal-On, produced by *Canadian Johns-Manville Co. Ltd.*, was chosen for its attractiveness, its adaptability to change (it can be easily removed, and replaced on new piping alignments), and it will withstand frequently being walked on, handled, and abused. In addition, it provides efficient insulation at temperatures up to 1,200°F. This pipe covering consists of a calcium silicate material tradenamed "Thermobestos" and is protected on the outside by a polished aluminum jacket which is .016" thick.

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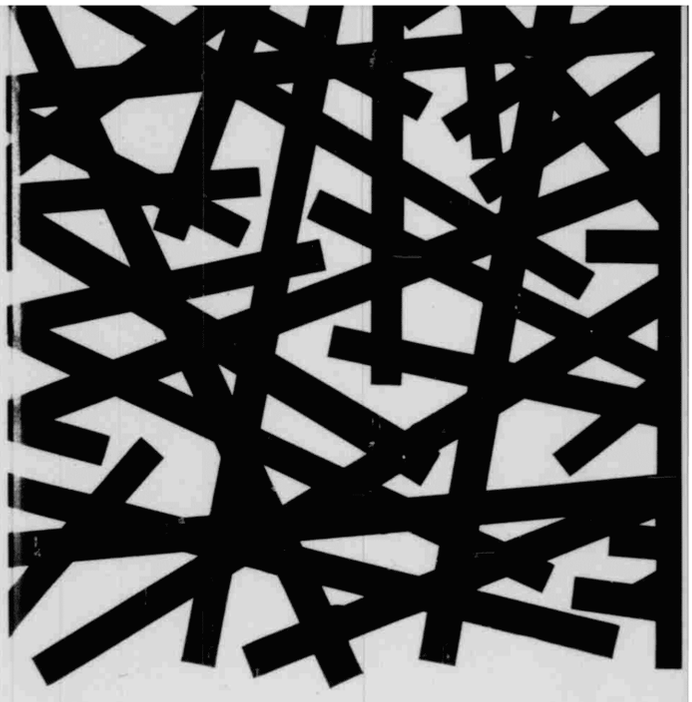
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NORAMITE—The latest documentation on Noramite reinforcement materials has been issued by *Cape Insulation Limited*, London, England, and copies are obtainable upon request. This very comprehensive and well-planned publication contains much information, including graphs and illustrations, about the materials, such as: introduction; properties of Amphibole fibre compared with other reinforcement materials; properties of laminates reinforced with Noramite; chemical resistance; engineering design data; Noramite in boat building, the chemical industry, and winding applications; Noramite pre-mix products; data and price list of Noramite Mat Type B and reinforced tape; Noramite pre-mix compounds, asbestos fibres, and phenolic pre-preg.

ASTM PUBLICATIONS—The American Society for Testing and Materials has issued a comprehensive list of over 500 available publications dealing with the knowledge of materials, materials evaluation, and the standardization of methods of test and specifications for materials. Included in this list are standards, standard adjuncts, standards compilations, indexes, symposiums, manuals, data compilations, charts, and photographs.

ASTM METRIC PRACTICE GUIDE, 2nd edition, is now available from the American Society for Testing and Materials. This 46-page Guide includes a complete table of conversion factors, listed both alphabetically and by subject, explicit instructions for introducing SI (Systeme International d'Unites) units in tables and figures as well as in the text. Excerpts from the Metric Practice Guide are being included in each part of the 1967 Book of ASTM Standards. (Single copy, requested on company letterhead, free from ASTM Headquarters, 1916 Race Street, Philadelphia, Pa. 19103. (Additional copies are $1.00 each).

AUSTRALIA—8,302,000 square yards of asbestos-cement sheets were produced during the 3rd quarter of 1966: July—2,966,000; August—2,598,000; September—2,738,000.



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CEMENT ASBESTOS PRODUCTS COMPANY, Alabama, in which American Smelting and Refining Company has a 40% interest, has successfully completed its first full year of operations and has become established as a supplier of asbestos-cement pipe in the southeastern market area.

CHEMTITE, an asbestos-plastic pipe from *Canadian Johns-Manville Co. Ltd.*, will play its part in the operations of Texas Gulf Sulphur Company's huge, 335,000 square foot concentrator, at its Hoyle, Canada, plant, now nearing completion. Chemtite of asbestos and phenolic resins were specified to handle the corrosive compounds under a pressure of between 50 and 60 p.s.i.

Chemtite pipe is made under a special process where blue asbestos fibre is formed into asbestos sheets and placed on a mandrel. One of three resins (aromatic amine-cured epoxy, phenolic or Bisphenol A polyester) is then applied under heat and pressure to the asbestos linking the two physically and chemically.

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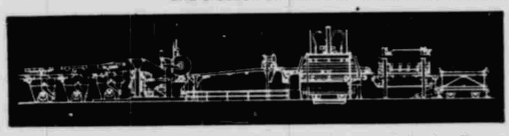
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IMPORTS & EXPORTS

Imports Into U.S.A.

(Figures from U.S. Bureau of the Census)

	Short Tons JAN 1967	FEB 1967
Unmanufactured Asbestos:		
Amosite, Crude, Mozambique	..	20
Rhodesia	..	50
South Africa	871	1,425
Crocidolite (Blue), Crude, South Africa	1,970	1,737
Chrysotile, Crude, Canada	15	5
Finland	101	64
South Africa	..	218
Chrysotile Spinning Fibers, Canada	1,283	995
South Africa	..	12
Chrysotile, Other, Canada	53,279	42,346
Italy	2	..
Yugoslavia	..	1,323
Asbestos, Other, Canada	1,320	1,434
Finland	440	61
Portugal	10	..
South Africa	101	..
United Kingdom	..	23
	59,392	49,713

January 1967 valued at: $6,354,987
February 1967 valued at: $4,967,948

Unmanufactured Asbestos Goods:	JANUARY 1967	
Asbestos Yarn, Slivers, etc. ..... Lb	152,635	$ 73,620
A-C Pipes, Tubes & Fittings ..... Lb	5,910,006	251,652
Asbestos-Cement Articles, Other ..... Lb	1,349,047	172,062
Asbestos Articles, Other	..	100,770
		$ 598,104

	FEBRUARY 1967	
Asbestos Yarn, Slivers, etc. ..... Lb	86,771	$ 62,577
A-C Pipes, Tubes & Fittings ..... Lb	2,353,827	105,108
Asbestos-Cement Articles, Other ..... Lb	1,458,602	210,437
Asbestos Articles, Other	..	5,439,676
		$5,817,798

Havelock Asbestos Mine, for many years Swaziland's main mineral producer with respect to value of production, was pushed into second place by the Ngwenya iron ore mine.

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Exports From U.S.A.

(Figures from U.S. Bureau of the Census)

		DECEMBER 1966	
Unmanufactured Asbestos:			
Crude & Spinning Fibers	s.tons	58	$ 17,529
Non-Spinning Fibers	s.tons	1,861	261,361
Waste & Refuse	s.tons	844	104,989
		2,763	$ 383,879
Manufactured Asbestos Goods:			
A-C Shingles & Clapboard	Lb	678,290	$ 79,842
Other A-C Articles	Lb	649,708	89,216
Gaskets & Packing	Lb	419,838	443,637
Textiles & Yarns	Lb	109,082	102,598
Mfrs. other than Friction Materials		..	475,991
Clutch Facings, Including Linings	No	255,781	190,209
Brake Linings	Lb	558,154	424,319
			$ 1,805,812

		YEAR 1966	
Unmanufactured Asbestos:			
Crude & Spinning Fibers	s.tons	1,455	$ 324,503
Non-Spinning Fibers	s.tons	137,962	3,973,066
Waste & Refuse	s.tons	17,218	1,413,531
		156,635	$ 5,711,100
Manufactured Asbestos Goods:			
A-C Shingles & Clapboard	Lb	20,019,472	$ 1,797,301
Other A-C Articles	Lb	9,484,466	1,332,319
Gaskets & Packing	Lb	5,356,689	5,260,945
Textiles & Yarns	Lb	1,799,911	1,326,227
Mfrs. other than Friction Materials		..	5,058,219
Clutch Facings, including Linings	No	2,246,986	1,897,143
Brake Linings	Lb	7,260,962	5,236,102
			$21,908,256

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Exports From Canada

(Published by Dominion Bureau of Statistics) DECEMBER 1966

Unmanufactured Asbestos:

Short Tons

	Crude	Milled Gp. 3	Milled Gp. 4&5	Shorts Gp. 6-9
United States	7	1,405	8,966	24,133
United Kingdom	..	846	6,181	5,848
South America	..	37	8,049	3,493
Central America & Mexico	..	65	2,560	120
Europe	10	1,730	40,307	21,083
Japan	22	482	4,276	20,047
Other Countries	..	16	14,923	3,360
	39	4,581	85,262	78,084

Total Unmanufactured Asbestos—167,966 Valued at—$ 22,597,000

Manufactured Asbestos Goods:

Asbestos Brake Linings & Facings	$ 133,000
Asbestos-Cement Building Materials	41,000
Asbestos Basic Products, Other	33,000
	$ 207,000

Unmanufactured Asbestos:

YEAR 1966

	Crude	Milled Gp. 3	Milled Gp. 4&5	Shorts Gp. 6-9
United States	65	16,266	200,775	440,075
United Kingdom	..	4,371	72,985	53,655
South America	..	341	48,252	15,136
Central America & Mexico	..	255	21,606	3,513
Europe	36	10,372	241,455	122,211
Japan	71	1,632	17,732	56,030
Other Countries	..	1,586	94,957	22,785
	172	34,823	697,762	713,405

Total Unmanufactured Asbestos—1,446,162
Valued at—$182,483,000

Unmanufactured Asbestos Goods:

Asbestos Brake Linings & Facings	$ 567,000
Asbestos-Cement Building Materials	937,000
Asbestos Basic Products, Other	866,000
	$ 2,370,000

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INDUSTRY NEWS

HAPPY BIRTHDAY

R. M. Bateman, Deputy Chairman & Joint Managing Director, Turner & Newall Limited, Manchester, England, May 15.
W. Vermeer, Jr., Managing Director, Chemische Productenhandel J. J. van de Vrande, Haarlem, The Netherlands, May 16.
John J. Dempsey, President, Armor Products, Inc., New York City, May 18.
Norman L. Barr, Director, Atlas Asbestos Company, Montreal, Canada, May 19.
Kurt Schwarz, Vice President, Supradur Manufacturing Corporation, Wind Gap, Pennsylvania, May 19.
Robert A. Schneider, Senior Consulting Engineer, Certain-teed Products Corporation, Riverside, California, May 21.
E. Gaskell, Managing Director, Cape Insulation & Asbestos Products Limited, London, England, May 22.
William J. Van Akin, Assistant to President, The Ruberoid Co., New York City, May 23.
Charles J. Clark, Vice President, Asbestos & Magnesia Materials Company, Chicago, Illinois, May 25.
Louis F. Frazza, Vice President & General Sales Manager, Johns-Manville Corporation, New York City, May 26.
Geo. V. Hamilton, President, Geo. V. Hamilton, Inc., McKees Rocks, Pennsylvania, May 26.
Paul A. Benke, Vice President & General Manager, H. K. Porter Company, Inc., Pittsburgh, Pennsylvania, May 27.
A. J. McMullen, President, Garlock Inc., Palmyra, New York, May 27.
Giles Fendall Newton, Honorary President, The Cape Asbestos Company Limited, London, England, May 27
Kenneth M. Eden, Assistant to President, Nicolet Industries, Inc., Florham Park, New Jersey, May 28.
Edward C. Koch, Vice President, Orangeburg Mfg. Co., division of The Flintkote Company, Orangeburg, New York, May 28.
Frederick A. Wagner, Vice President—Administration, National Gypsum Company, Buffalo, New York, May 30.
George A. Gelish, President, Port Asbestos Insulation Company, Brooklyn, New York, June 1.
Eugene W. Odenwaldt, Vice President—Manufacturing, National Gypsum Company, Buffalo, New York, June 2.
Bert I. Bertelsen, President, Drycor Felt Company, Staffordville, Connecticut, June 3.
Harold F. Plate, Sales Manager, Carey-Canadian Mines Limited, Cincinnati, Ohio, June 3.
G. C. Scowcroft, President, Carey-Canadian Mines Limited, East Broughton Station, Quebec, Canada, June 3.
John C. Heid, Jr., Director, Manpower Development, Building &

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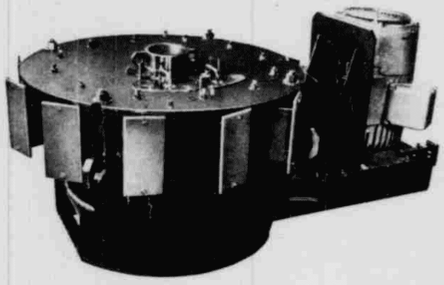
Industrial Products, The Ruberoid Co., New York City, June 4.
Charles L. Sell, Director, Purchases & Traffic, The Ruberoid Co., New York City, June 4.
Marvin Pekovsky, Manager, Advertising & Sales Promotion, Floor Covering Division, The Ruberoid Co., New York City, June 5.
Yvan Couture, Director of Public Relations, Canadian Johns-Manville Company Limited, Asbestos, Canada, June 6.
Leonard B. Farrell, Vice President, Industrial & Public Relations, The Ruberoid Co., New York City, June 6.
Murray F. MacDonald, Vice President & General Manager, Building Products Division, Johns-Manville Corporation, New York City, June 6.
Joseph N. Yorke, Vice President—Finance, H. K. Porter Company, Inc., Pittsburgh, Pennsylvania, June 6.
Herbert Morton Ball, Vice President, General Counsel & Secretary, Johns-Manville Corporation, New York City, June 9.
Robert F. Deerfield, Product Pricing Manager, Building Products, The Ruberoid Co., New York City, June 9.
W. B. Evans, Corporate Vice President—Marketing, The Philip Carey Manufacturing Company, Cincinnati, Ohio, June 10.
Walter Fenn, Director in Charge of Contract Department, Atlantic Asbestos Corporation, New York City, June 12.
G. S. Sutcliffe, Joint Managing Director, Turner & Newall Limited, Manchester, England, June 12.
A. H. Bagenstose, Vice President—Sales, Carey-Canadian Mines Limited, Cincinnati, Ohio, June 14.

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

Carey 1966 Annual Report—Net earnings in 1966 for The Philip Carey Manufacturing Company amounted to $2,874,285 compared with the 1965 figure of $2,613,604. Net sales were $80,988,495 against $78,453,688. Capital expenditures for plant and equipment amounted to $4,854,533.

Substantial expenditures were made at the company's mine and mill in Quebec, Canada, for equipment to permit the production of additional specialty grades of uniform high quality asbestos fibre. A large percentage of the output of the mill is in the short fibre category and the market for these grades is becoming increasingly competitive.

National Gypsum 1966 Annual Report—Consolidated sales of $253,017,370 in 1966 were down from 1965 sales of $258,984,590 for National Gypsum Company. Net income was $16,826,036 against $17,891,274 the previous year. Funds generated from operations (cash flow) in 1966 amounted to $39,496,325 compared to $40,403,765 in 1965. Net working capital was $7,397,650, which included an increase of $4,947,028 in cash and government securities. The ratio of current assets to current liabilities at the end of 1966 was 5.9 to 1 compared to 4.9 to 1 at the end of 1965.



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Ethiopia—Sample of asbestos from deposits in Ethiopia sent to the U.S. Bureau of Mines Metallurgy Research Center for analysis, were determined to be of the following chemical analysis: Dubicha, Sidamo, total iron as Fe_2O_3—10.0, MgO—25.86, Na_2O—.05, CaO—.18, amphibole, anthophyllite variety, weak fibers, probable commercial value of the sample is low; Marwa, Harar, total iron as Fe_2O_3—16.44, MgO—10.86, Na_2O—6.17, CaO—3.20, amphibole, crocidolite variety, impure with 20-30% other minerals present, should be possible to beneficiate into a useful product, should be of commercial value; and, Tigre, total iron as Fe_2O_3—22.45, MgO—11.37, Na_2O—7.27, CaO—.46, amphibole, crocidolite variety, excellent quality, long fiber, nearly free of impurities, should be of commercial value. (Mineral Trade Notes—April 1967).

Asbestos Corporation Limited has suspended its development program at Asbestos Hill in the Ungava area of northeastern Quebec, Canada, because of an enormous escalation in costs. The engineers in charge of the construction program, last year, estimated it would cost $66.3-million to bring the asbestos property into production by around 1970. Estimates made last month now indicate the cost had increased by $18.5-million to $84.8-million. Accordingly, it was decided to defer the project pending a complete reappraisal. Arrangements have been halted for the sale by private placement of $33-million in debentures which would have been used, in part, to finance the project. A further complicating factor which influenced this decision was the great doubt and uncertainty concerning the future tax structure with respect to the mining industry resulting from recent recommendations of the Carter Commission on taxation.

Lansdowne Explorations Limited has submitted an evaluating report on its asbestos property in Soissons Township, Abitibi East County, Quebec, Canada. It summarizes the work carried out as of January 20, 1967, which has consisted of geophysical surveying employing both magnetic and vertical loop electromagnetic methods, and eleven drill holes for a combined 4,829 feet of drilling. Expenditures to date for this exploration have totalled approximately $62,000.00. Most of the property is underlain by peridotite, much of which is serpentinized and altered. Cross-fibre asbestos occurs on much of the property where drilled in fibre length of ½ to about 4mm. Further diamond drilling has been recommended with a specific target in the north-central part of the property where it is concluded there is a good chance for the development of more and higher grade fibre. In conjunction with this recommendation, it is suggested that some 600 acres adjacent to the east of the property be acquired by staking. The company intends to solicit the participation of other mining companies in the overall planning of any additional work to be carried out.

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H. K. Porter 1966 Annual Report—Net sales in 1966 of H. K. Porter Company, Inc., increased 6% to $294,985,335 compared to $278,990,242 in 1965. Net income amounted to $7,440,090 compared to $5,713,308. Record capital expenditures for plant and equipment during 1966 totaled $12,032,711.

Asarco 1966 Annual Report—Net earnings of American Smelting and Refining Company reached $69,234,000 in 1966 compared to $52,456,000 in 1965. Net current assets at year end increased from $191,670,000 in 1965 to $213,529,000 in 1966. Demand for all the company's products was very strong throughout the year making possible capacity operations at the mines, mills, smelters and refineries.

Production and sales of asbestos fibres by Asarco's wholly-owned subsidiary, Lake Asbestos of Quebec Limited, increased during 1966. Slightly improved ore grade together with continued technological advances in milling and more efficient use of capacity contributed to increased production. Ore reserves were maintained. The long-range contract stripping program begun in 1965 is now about 20% completed. Production of asbestos amounted to 117,365 short tons in 1966 against 114,803 in 1965. Shipments of asbestos reached 115,021 short tons in 1966 compared to 106,551 in 1965.



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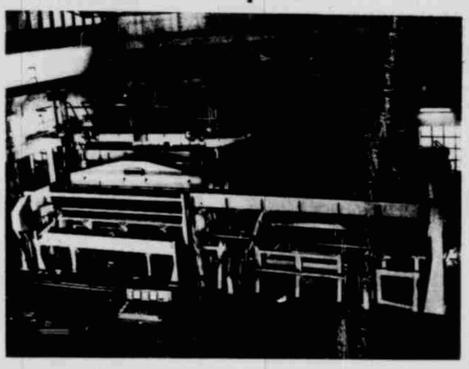
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ARIZONA— Per Ton of 2,000 lbs., f.o.b. Globe, Arizona

(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 April 1, 1967) Canadian Currency

Crude No. 1	$ ..	$1,410.00
Crude No. 2	..	760.00
Group No. 3 (Spinning Fibre)	360.00 to	588.00
Group No. 4 (Shingle Fibre)	198.00 to	335.00
Group No. 5 (Paper Fibre)	140.00 to	165.00
Group No. 6 (Waste, Stucco or Plaster)	..	101.00
Group No. 7 (Refuse or Shorts)	47.00 to	85.00

CASSIAR— Per Ton of 2.000 lbs., f.o.b. North Vancouver, B.C.

(As of April 1, 1967) Canadian Currency

AAA grade (non-ferrous spinning fibre)	$ 810.00
AA grade (non-ferrous spinning fibre)	643.00
A grade (non-ferrous spinning—Canadian Group 3)	484.00
AC grade (asbestos-cement—Canadian Group 4)	345.00
AD grade (asbestos-cement—Canadian Group 4)	284.00
AK grade (shingle fibre—Canadian Group 4)	241.00
AS grade (shingle fibre—Canadian Group 4)	200.00
AX grade (shingle fibre—Canadian Group 5)	177.00
AY grade (shingle fibre—Canadian Group 5)	126.00

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

(As of April 1, 1967) U. S. Dollars

Group No. 3 (Spinning & Filtering)	$ 319.00 to	$ 342.00
Group No. 4 (Shingle Fibre)	183.00 to	296.00
Group No. 5 (Paper Fibre)	129.00 to	153.00
Group No. 6 (Waste, Stucco or Plaster)	..	93.00
Group No. 7 (Shorts & Floats)	40.50 to	78.00

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ASBESTOS STOCK QUOTATIONS

Close—April 28, 1967

Abex	32½	Flintkote (pfd-B)	41¼
Abitibi	*10⅝	Johns-Manville	58⅛
Advocate	*$3.00	McAdam	*47½
Asarco	60½	Natl Gypsum (com)	42⅝
Asbestos Corp	*22½	Natl Gypsum (pfd)	87
Campbell-Chiboug	*$6.40	Patino	*$9.10
Carey	40½	Porter	91¾
Cassiar	*16⅝	Raybestos	58½
Certain-teed (com)	19	Ruberoid	29⅝
Certain-teed (pfd)	19¼	Unarco	97⅛
Fibreboard	39½	Uniroyal (com)	42½
Flintkote (com)	23½	Uniroyal (pfd)	146½
Flintkote (pfd-A)	83	United Asbestos	*$3.50

*Canadian currency

Advocate 1966 Annual Report—Advocate Mines Limited, sole asbestos producer in Newfoundland, showed further improvements in production and profits. Net profit for 1966 improved to $2,506,726 as compared with $2,082,337 in 1965. Cash generated from mine operations amounted to $3,842,469 before capital expenditures, while net addition to plant and equipment amounted to $1,492,420. 2,006,738 tons of ore were milled and 65,201 tons of asbestos fibre were produced for a recovered grade of 3.25%. Not only was the total fibre recovery of 3.25% considerably higher than the 1965 figure of 2.94%, but production of A-25 fibre was up 8%, again with a marked improvement in quality. During the year, 57,102 tons of A-25 fibre and 500 tons of A-35 fibre were shipped. (The Northern Miner)

Cassiar 1966 Annual Report—Net profit for the year 1966 amounted to $4,145,766 which compares with $3,688,472 for 1965. Revenue from sales of asbestos fibre ($20,393,363) and investments ($255,863) totalled $20,649,226 against $17,753,512 the previous year. Capital expenditures at the Clinton Mine amounted to $10,209,859. At the Cassiar Mine, equipment renewal and additional mill equipment totalled $1,078,439 and the cost of waste removal was $2,508,192. The market for all grades of fibre was strong throughout the year, sales exceeded production, and fibre inventories were reduced to a minimum working level. The forecasts from customers of their 1967 fibre requirements indicate continued growth.

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ASBESTOS PATENTS

U.S. Patents on Asbestos and Asbestos Products, by Oliver S. North.

U.S. Patents may be purchased from The Commissioner of Patents, Washington 25, D.C., at a cost of 50 cents each. Remittance should be in coin, currency, or check, and the number(s) of the patent(s), name(s) of inventor(s), and date(s) of issue should be shown.

U.S. Patents issued from March 14th through April 11th, 1967.

3,311,459—Chemical Heating Device In Sheet Form, T. Francis & M. H. Jones (assigned to Ontario Research Foundation, Toronto, Ontario, Canada), March 28, 1967.

3,311,516—Flexible Compositions With Rigid Setting Properties, K. L. Jaunarajs & F. L. Pundsack (assigned to Johns-Manville Corporation, New York City), March 28, 1967.

3,313,636—Fire Retardant Bituminous Compositions, N. D. Blair & C. T. Bean, Jr. (assigned to Hooker Chemical Corporation, Niagara Falls, New York), April 11, 1967.

3,313,675—Laminate and Process of Preparing the Same, J. C. Petropoulos & A. E. Rimpel, Jr. (assigned to Formica Corporation, Cincinnati, Ohio), April 11, 1967.

R/M 1966 Annual Report—Net sales for Raybestos-Manhattan, Inc. during 1966 were $119,508,012, compared with $105,575,844 in 1965. Net income reached $7,570,000 against $6,363,495. For 1966, current assets were $47,527,953, current liabilities amounted to $10,573,970, and expenditures for plant facilities were $5,853,022.

United Asbestos 1966 Annual Report—The 19th annual report of United Asbestos Corporation Limited and its wholly owned subsidiary Detinu Holdings Limited shows the net income for the year 1966 as $1,514,348 which compared to the 1965 figure of $1,303,781. The joint venture operation with Lake Asbestos of Quebec Limited resulted in the production of 117,365 tons of fibre and shipments of 115,021 tons. The open pit enlargement program continued throughout the year and a total of 12,360,000 tons of ore, waste rock and overburden was handled. Concentration of ore values, in the dryer section prior to milling, continued. A total of 3,076,000 tons was handled of which 36.6% representing 1,125,000 tons were discarded as waste and 1,951,000 tons of ore were milled. The mining operation returned a net profit of $4,973,619 including capital and deferred development expenditures amounting to $2,131,599.

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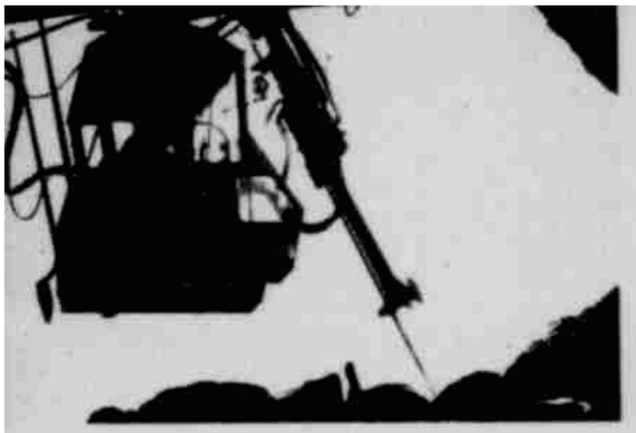
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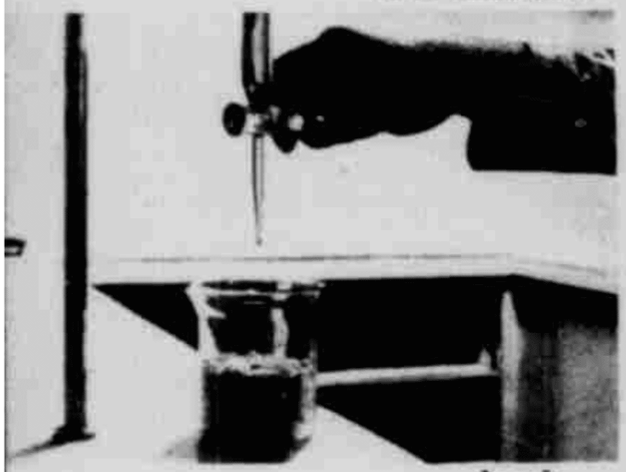
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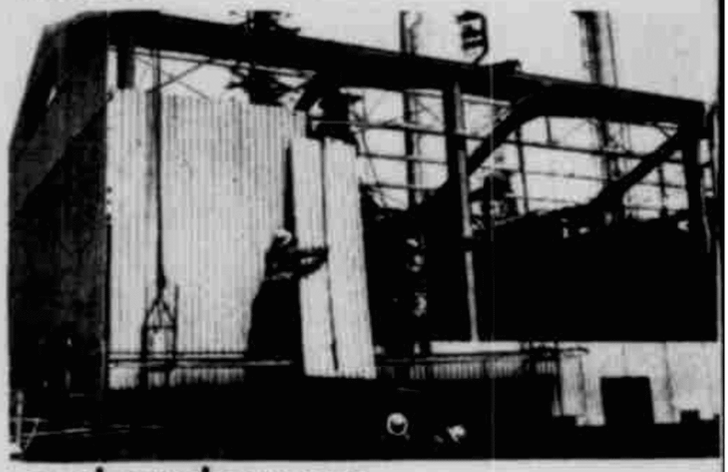
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