ASBESTOS

December

1967

As the Holiday Season approaches, our thoughts turn to its true meaning. During the course of the year and in the rush of events, we tend to overlook the important friendships and associations that are the real basis of all business relationships. And so it is that we would like to set aside the routine of business and express our sincere hope that your Holiday Season will be Joyous and the New Year will bring Peace and Prosperity.

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ASBESTOS

VOLUME 49 DECEMBER 1967 NUMBER 6

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1967 REVIEW OF ASBESTOS

In the process of compiling this review, it seemed to us that the Asbestos Industry certainly has been active. There has been a noticeable and continued increase in the fields of research and development, and many asbestos properties are either being developed or their capacities enlarged. Also, the variety of publications, papers and surveys, etc., made available this year appear more informative and comprehensive, and of a more technical nature.

It has been our pleasure to serve you and we can only hope you will continue to consider us a source from which to obtain information related to the Asbestos Industry. We also seriously hope you will let us know what you like about ASBESTOS and what you would like to see published in ASBESTOS.

The following is a review of happenings within the Asbestos Industry that were recorded, during this past year, in ASBESTOS. Although in compact form, we have endeavored to be as complete as space would permit and sincerely hope you will find it a useful reference for many years to come.

EXPO '67

ASBESTOS published, in various issues throughout the year, items covering the role the Asbestos Industry played at Expo '67. Our June 1967 front cover featured the Asbestos Plaza with its beautiful fountain effect. This plaza was sponsored by the Quebec Asbestos Mining Association and the photograph for illustration was issued through the courtesy of QAMA and the Quebec Asbestos Information Service. Other items were concerned with the pavilions of the various countries, the extensive use of Quebec asbestos, and Johns-Manville's participation, including its own exhibit.

ANNIVERSARIES

Uniroyal, Inc.—75th anniversary; on March 30th, 1892, a small group of New England footwear companies pooled their knowledge and equipment and now this billion-dollar corporation is one of America's fifty largest corporations.

Canadian Johns-Manville Co. Ltd. entered its 50th year in 1967. The company is Canada's leading producer of asbestos fibre and in 1966 it was estimated that 92% of J-M

The **R. C. M. Company** - *known all over the world as a Firm highly specialized in the manufacture of equipments for the production of asbestos-cement pipes and sheets - make available their own experience for the solution of the following problems*

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- *pneumatic transport and ensilage of cement*
- *automatic preparation of asbestos mix*
- *hydrodesintegration of asbestos with patented process*
- *automatic preparation of slurry with turbomixer*
- *centralized recording of asbestos and cement weighings*
- *pipe curing by means of roller conveyor*
- *automatic sheet corrugation and quick maturing of them*
- *modernization of pipe machines with two forced feeded sieve cylinders.*

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Cable Address: Erciem Torino - Phone: 233823/4/5 - 284837 - 284797

manufactured products sold in Canada were manufactured in that country.

Gebr. Wehrhahn celebrated its 75th anniversary on November 2nd, 1967. Located in Delmenhorst, Germany, the company is one of the leading manufacturers of machines and complete plants for the asbestos-cement industry.

DISTRIBUTOR APPOINTMENTS & AGREEMENTS

Noyes Brothers Pty. Ltd., under the guidance of *Simplicity Engineering Company*, will manufacture and sell Simplicity equipment throughout the major industrial areas of Australia . . . *Simplicity* has appointed *H. C. Blanchard & Sons, Inc.*, Lisbon Falls, Maine, to serve as dealers in Maine and New Hampshire, for its complete line of vibrating screens, feeders, conveyors and crushers . . . *R. A. Young & Son, Inc.* has been appointed by *Simplicity* to serve as dealers for the aggregate industry in Oklahoma and Arkansas.

Nicolet Industries, Inc. has signed a joint option agreement with *Rex Asbestwerke Graf von Rex KG*, Germany, for the manufacture of high-performance, pure asbestos yarn. Terms include the exclusive marketing of this textile yarn in the United States and Canada.

M. J. Boylen 1967 Prospectors has entered into an agreement for the purpose of exploring concession properties selected by *Canadian Johns-Manville* whereby *Advocate Mines Limited* will obtain a 20% carried interest in mineral discoveries of other than asbestos. In the event a commercial asbestos deposit is discovered, Prospectors will hold a 20% carried interest.

Canada has granted a $9-million loan to *India* for the financing of an exploration program which will include a search for asbestos.

ASSOCIATIONS/CONFERENCES/SEMINARS, ETC.

Conference on the Physics and Chemistry of Asbestos Minerals—at Oxford University.

Canadian Shippers Council—newly created by sixteen Canadian trade associations to speak for Canadian companies in matters of international transportation of cargo.

Friction Materials Standards Institute—unanimously voted in full support of Periodic Motor Vehicle Inspection on a nationwide basis.

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Association of British Mining Equipment Exporters (ABMEX)—formed to facilitate the cooperation of mining engineers and designers in Great Britain to assemble suitable combinations of equipment for the varied conditions of coal and mineral mining and make available specialized skills, etc., to the rest of the world.

Institute for Asbestos Information—concluded an agreement with Bell & Howell where B&H will produce xerographic reprints of previously unobtainable books on asbestos.

MERGERS/ACQUISITIONS/AGREEMENTS

L. G. Hancock and E. A. Wright purchased all assets of *Australian Blue Asbestos Pty. Limited*, the operating subsidiary of Colonial Sugar Refining Company.

U.A.M. (Universal Asbestos Manufacturing Co. Ltd.) merged with The Cape Asbestos Company Limited. Since the two companies' products are complementary, and not competitive, a wider range will be available and will result in improved service to the industry and a more advanced and coordinated research effort.

Don International S.A., a joint venture between Small and Parkes Limited and Johns-Manville Corporation, officially opened its factory at Manage (Hainaut), near Brussels, Belgium. The new company will produce and market automotive and industrial friction materials within the European Economic Community.

The Ruberoid Co. has merged into *General Aniline & Film Corporation* and is now being operated as a division of GAF.

Gulf & Western (Canada) Limited purcased 50% of the stock of *Hedman Mines Limited* and will provide additional financing for the completion of a substantial asbestos project at Matheson, Ontario, Canada.

Bell Asbestos Mines Ltd. purchased shares of *Cassiar Asbestos Corporation Limited* from *Conwest Exploration Company Limited*. Conwest will continue to provide the management for Cassiar Asbestos.

Supradur Manufacturing Corporation acquired the Kalamazoo, Michigan, concrete operations of a subsidiary of AMAX, and a wholly-owned subsidiary "Precast' Schokbeton, Inc." was formed by Supradur. This acquisition takes Supradur outside the individual residential housing field.

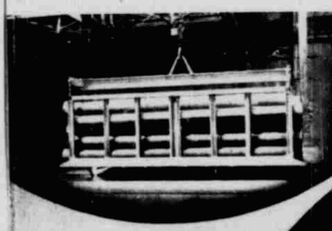
ACSCO, Turin, Italy, acquired the assets and interests of *Acindustries (1965) Limited*, Cyprus, to establish, in

AUTOMATIC PLANTS TO MAKE SOCKETED PIPES

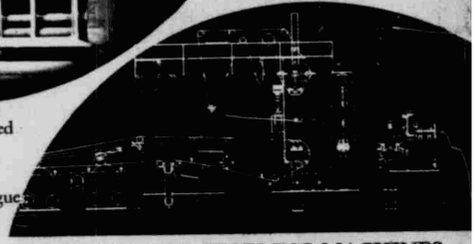


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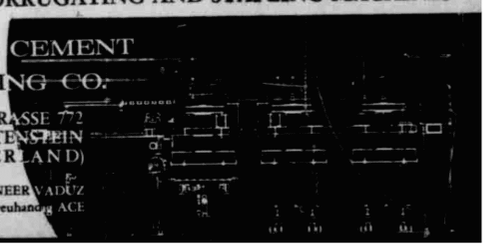


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Cyprus, a plant for the production of pressure and non-pressure asbestos-cement pipes.

National Gypsum Company and *Congoleum-Nairn, Inc.* have reached a tentative agreement in principle for the merger of Congoleum into National.

Raybestos-Manhattan, Inc. and *American Chain & Cable Company, Inc.* negotiations for a merger were terminated as the two companies were unable to agree on consolidation terms.

D.U. 1967 Prospecting Syndicate was formed to prospect for minerals in the province of Quebec, Canada. One of the parties to the agreement is Asbestos Corporation (Explorations).

Johns-Manville has made an inquiry of *Fibreboard Corporation* looking toward the purchase for cash of the Gypsum Division of Fibreboard.

PLANTS/EXPANSIONS/REORGANIZATIONS

American Asbestos Textile Corporation is producing at its new yarn mill near Milford Square, Pennsylvania. The new yarns are knotless whenever desired, of unusual uniformity and superior breaking strength, and within greatly reduced variation limits.

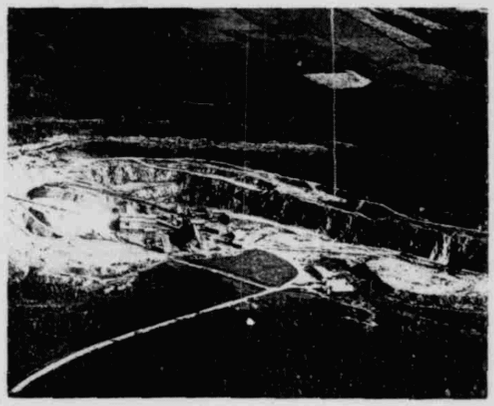
BBA Group Limited (formerly British Belting & Asbestos Limited) has been formed to administer and develop the Group as a whole. Also, Scandura Limited is now a wholly-owned subsidiary of BBA and is responsible for the manufacture and world-wide distribution of BBA asbestos textiles, packings and jointings, and Scandura conveyor and transmission beltings, and industrial textiles.

Bell Asbestos Mines Ltd. purchased a 22-acre tract of land in the greater Vancouver, British Columbia, area on which it plans to erect a plant for the manufacture of asbestos-cement products.

Co-operativa Boliviana de Cemento is constructing a cement factory in Cochabamba, Bolivia. The *Sociedad Asbestera Boliviana* intends to establish an asbestos processing plant at Cochabamba from which the new cement company would draw supplies of raw materials.

Glenco Asbestos Limited, Livingston, Scotland, is being sponsored by *Birla Brothers (Pvt.) Limited*, Calcutta, India, to manufacture asbestos-cement products for the building industry.

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Hellenit is to establish a $2-million asbestos-cement plant in Salonica, Northern Greece.

Hume Industries (Far East) Limited is constructing a new asbestos-cement sheeting plant at its Bukit Timah works in Singapore.

H. K. Porter Company, Inc. has a new tape laboratory at the Quaker (Philadelphia, Pennsylvania) Works of its Thermoid Division to do research and development work on both new and existing products.

Tripoli, Libya will be the locale for a £500,000 factory to produce asbestos-cement pipes, and later asbestos-cement sheets. The capital is being supplied by Swiss-Italian asbestos-cement producers and Libyan investors.

ASBESTOS PROPERTIES

White Asbestos Mining Company's asbestos property near Barraba, New South Wales, Australia, will be jointly explored by *Castle Tin Mines* and *Merit Oil Limited*.

Thornwood Asbestos Mine, near Gwanda, Rhodesia, is to reopen. Messrs. A. D. Theron & Sons (Pvt.) Limited have taken the mine on tribute with the option to purchase from Rand Mines Limited.

Penge Asbestos Mine, South Africa, has a new $6.5-million mill complex designed primarily for milling shorter grades of amosite.

Gefco (Griqualand Exploration & Finance Co. Ltd.) plans to modify the treatment plants at its two Elcor mines and also is opening a new mine to compensate for falling outputs at older properties. This new mine should reach full production early in 1969.

Terra Nova Explorations is considering a proposal by a large asbestos mining concern for continuation of the exploration of its asbestos property at St. Omer, Quebec, Canada.

Cassiar Asbestos Corporation is studying its Letain asbestos group in British Columbia, which is held by its wholly-owned subsidiary, Kutcho Creek Asbestos Company. Also, Cassiar's open pit and asbetos milling complex at Clinton Creek, in the Yukon, is expected to produce two products: CP fiber (Clinton pipe), a Group 4 product; and CY fiber, a Group 5 product. Both of these products are an asbestos-cement fiber of better grades.

Sphere Development Corporation plans to explore the Caley claims, in the area of the Clinton Creek asbestos mine.

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near Dawson City, Yukon. This is the property that Cassiar Asbestos and Canadian Johns-Manville previously studied.

Abitibi Asbestos Mining is exploring avenues to finance for production of its asbestos-bearing property in Maizerets Township, Northwestern Quebec, Canada. The fiber is largely in Groups 4 and 5 and is suitable for asbestos-cement products.

Lansdowne Explorations Limited has concluded there is a good chance for the development of more and higher grade asbestos fiber at its property in Soissons Township, Quebec, Canada. It has been recommended that the adjacent property be acquired by staking.

Golden Gate Explorations Limited's 76-claim Rex asbestos property, near Haines Junction, Yukon, underwent an evaluation program by a large, but undisclosed, company.

McAdam Mining Corporation is developing its asbestos property in McCorkill Township, east of Chibougamau, Northwestern Quebec, Canada. An underground test program will provide sufficient fresh and uncontaminated material for bulk testing to assess the grade and quality of the chrysotile fiber.

Bell Asbestos Mines Ltd. has awarded a contract to Cementation Limited to sink a shaft at Thetford Mines, Canada.

Intercontinental Enterprises, Inc., under Dr. Felix B. Acebedo, is introducing and promoting abroad, a mining venture of newly discovered asbestos in the Philippines, particularly in the province of Zambales. There is also a bright possibility of exporting the asbestos fiber.

Jaquays Asbestos Corporation plans to close down some of the higher cost operations of its Old El Dorado Mine when the South El Dorado area is fully developed.

Ethiopia—Samples of asbestos from deposits in Ethiopia sent to the U.S. Bureau of Mines were analyzed and the fiber from Dubicha, Sidamo, was deemed of low probable commercial value, and the samples from Marwa, Harar, and Tigre should be of commercial value.

PROCESSING MACHINERY & EQUIPMENT

Carrier Manufacturing Company—SWIRL-A-FLOW is the new name of the former industry-renowned Whirlpool Mixer and entire line of vibrating hoppers.

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MINES AND MILL IN GILA COUNTY

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Simplicity Engineering Company—new, shorter, sharper stroke "Z" screen for high speed fine screening.

PRODUCTS & MATERIALS

Asbestos Corporation of America—APLEX, a new asbestos line used in the filling of polypropylene . . . L-FIL, asbestos which is used in the filtering area . . . also developed an excellent material used in the paint field and especially suited for corrosion resistance areas.

Atlas Asbestos Company—PARE-SOLEIL, new asbestos-cement corrugated product which solved the major problem of high density of the sun's rays at the immediate entrances and exits of the Louis-Hippolyte Lafontaine Bridge Tunnel, Canada.

Cape Asbestos Group—NORAMITE MAT is now available with amosite asbestos fibers as well as the familiar Noramite asbestos-reinforcing materials based on Crocidolite (blue) asbestos fibres (Cape Insulation Limited) . . . AMOSITE, because of its reinforcing strength and high heat resistance, has become a component of many of the new exothermic and hot-top insulations now being used extensively in the foundry and steel industries (data from North American Asbestos Corporation).

Everite Limited—new type of ACOUSTICAL PANEL which is incombustible and features excellent sound absorption properties . . . six-meter lengths of asbestos-cement pressure pipe being produced with a constant internal bore.

Johns-Manville Corporation—Vinyl Quarry, Centurian Terraflex, Marrakech, Lunette, Lambeau Parquet, Parquet Terraflex, and Phoenecian Terraflex have been added to J-M's line of vinyl-asbestos floor tile . . . METAL-ON is insulating the hot-water piping of the new development laboratory of Atomic Energy of Canada Limited . . . CHEMTITE asbestos-plastic pipe is handling corrosive compounds at Texas Gulf Sulphur's concentrator at its plant in Hoyle, Canada . . . MBF (moving bed filter) is a radically new type of filter for the successful and economical treatment of industrial wastes and the tertiary treatment of sewage to produce usable water (jointly researched and developed by J-M and Scientific Developments, Inc.).

The Marley Tile Company—MARLEYDEK roofing sheet, after tests lasting eight years, is claimed to have re-

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ceived no maintenance and to have kept the roofs which it covered watertight. The roofing sheet is described as a flexible non-ageing vinyl with a backing of asbestos.

National Gypsum Company—COLORED CORRUGATED "400", an asbestos-cement sheeting factory-finished in Plasti-Clad, used in the new air separation plant of American Cryogenics, Inc., Savannah, Georgia.

H. K. Porter Company, Inc.—RWL-100, *custom lag* rewettable lagging, is a new asbestos lagging material which has a built-in adhesive that impregnates the asbestos cloth throughout.

Raybestos-Manhattan, Inc—'GATOR TAPE L-8735, a new moisture-, oil- and flame-resistant woven-asbestos tape for insulating underground cable . . . ASBESTOS LAGGING CLOTH, a new adhesive-backed material for thermal insulation of pipes, flanges, turbines and similar applications in ships and steam plants.

Scott Laboratories, Inc.—ACID-WASHED ASBESTOS FILTER PADS, in the new and improved "F" series, are designed especially for filtration of liquids such as pharmaceuticals and chemicals. Several advantages of these pads are available only through the use of the especially designed automatic equipment recently installed by Scott.

Turner Brothers Asbestos Company Limited—ALUMINIZED ASBESTOS CLOTH is aluminized by laminating an extremely thin film of polyester, metallized by vapor-distilled aluminum, on to the specially-treated surface of the base cloth.

Miscellaneous—ASBESTOS BOARD, under lead, was chosen to minimize effects of airborne noise on tower personnel on a prototype airport control tower for the Federal Aviation Agency . . . ASBESTOS WICKS could solve the problem of oil pollution in the oceans of the world, according to a French scientist.

TESTS & RESEARCH

ASTM—A steering committee has been authorized to effect the organization of a new technical committee on resilient floor coverings . . . A symposium will be held at the coming winter meeting to examine biological deterioration of nonmetallic materials . . . Test shows that corrugated asbestos-cement sheet exposed for five years as a canal bulkhead to be in excellent condition . . . Committee C-17 re-

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viewed a proposed specification and method of test for asbestos-cement panels with foam cores, reviewed a request for incorporating another standard pipe length in ASTM specifications, and received reports on research projects concerning color stability, color bulkheads and freeze and thaw tests.

U.S. Bureau of Mines—establishing a new mining research laboratory on Juneau Isle, Alaska, to help further the research and development necessary for realizing the state's potential as a source of essential minerals and fuels.

FILMS

Are We Fire Safe?—National Fire Protection Association, 8-minute, 16 mm., full color & sound, $88.00 per print.

Challenge in the Rock—on the mining industry in British Columbia and the Territories, sponsored by the Mining Association of British Columbia and the British Columbia and federal governments.

Modern Paving Techniques With Asbestos Fiber and Asphalt Mixes—Johns-Manville Corporation, 16 mm., full color, 21 minutes.

BOOKS/ARTICLES/PAPERS, ETC.

Siding Shingles Application Manual; Flat Sheets Application Manual; Index to ASTM and Government Specifications for Industrial Insulations; Mineral Processing Patents Issued During 1966; Asbest Cement Technik; Asbestos Yesterday, Today and Tomorrow; Properties and End Use Applications of Chrysotile Asbestos from the New Indra Deposit, California; The Mineralogy and Crystal Chemistry of Amphibole and Serpentine Asbestos; Hollow Chrysotile Fibers; "R" Value Designation for Building Insulation; Chrysotile Asbestos (relationship of the surface and thermal properties to the crystal structure); Handbook of Asbestos Textiles, third edition; Asbestos Cement Industry; Drilling and Blasting at Normandie Mine (Asbestos Corporation Limited); The Asbestos Cement Industry and the National Economy (translated from Russian); 1967 Survey of Mines (Canada); Asbestos Thesis; The Use of Mineral Wool in Asbestos Cement Sheet Production; Canadian Mining Projects; Asbestos & Research on Industrial Minerals (by H. M. Woodrooffe); A Centennial Look at Industrial Minerals (Canada); Two New Serpentine Group Minerals; Fluoranti-gorite & Fluorochrysotile; The Free World's Largest Asbes-

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tos Producer (Jeffrey Mine, Canadian Johns-Manville); The Role of Unconformities in the Localization of Epigenetic Mineral Deposits in the United States and Canada; Distribution of Amphibole Asbestos in Rocks of the Ukranian Shield, USSR; Asbestos at Pomfret (South Africa); Specifications for Textile Testing Machines; Asbestos Textiles Used for Electrical Insulating Purposes; Specifications and Methods of Test for Asbestos Tapes; Test for Woven Asbestos Cloth; Definition of Terms Relating to Textile Materials; Metric Practice Guide; Standard Specification for Flat Asbestos-Cement Sheets;

COMPANY BROCHURES

Cape Asbestos Group—construction and application of MARINITE components using mechanical dry joint system (Marinite Limited) . . . MARINITE, a monolithic asbestos sheet material now available in the building industry (Marinite Limited) . . . documentation on NORAMITE reinforcement materials (Cape Insulation Limited).

The Philip Carey Mfg. Co.—Form No. 6551 Rev., lists all types of Carey industrial insulations and insulating cements . . . Form No. 6714, complete line of asbestos paper, rollboard and millboard.

Certain-teed Products Corporation—NEW LOOK, shows broad scope of company's services to the building and construction industry and also shows new corporate symbol.

Delavan Manufacturing Company—Sonac Ultrasonic Mining Controls, describes advantages of employing ultrasound over other types of mining controls under adverse conditions.

Holmes Insulations Limited—Holmes Uniblok thermal insulation for a wide range of industrial applications at temperatures to 1,900°F; is a unique combination of amosite asbestos fiber, mineral wool, and other inorganic materials.

Johns-Manville Corporation — TR-504A, installation guide for TRANSITE underground air duct . . . ACTION, Summer 1967 issue, contains coverage on J-M's participation in Expo '67, State University of New York, USS John F. Kennedy, and the Francisco Grande resort in Casa Grande, Arizona.

H. K. Porter Company, Inc.—series of nine bulletins on the Thermoid line of asbestos textile products .

asbestos

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☐ IN CANADA—The Flintkote Co. of Canada Ltd., 30th St., Long Branch, Toronto, Ontario; Flintkote Mines Ltd., Thetford Mines, P.Q., Canada ☐ IN ENGLAND—The Flintkote Co., Ltd., Allum House, 1 Filmer Square, London W-1, England.

FLINTKOTE

Raybestos-Manhattan, Inc.—data sheet on 'GATOR underground cable insulating woven asbestos tape.

Simplicity Engineering Company—catalog describing line of D'Centegrator impact type crushers . . . Catalog Z-61 covers new line of Z-screens.

Turners Asbestos Cement Company Limited—SILUMINITE asbestos paper tubes and sections and SINDANYO asbestos-cement machined tubes and rods; TURNALL asbestos-cement SPANTILES; and, TURNALL GRANITONE decorative asbestos-cement sheets.

GOVERNMENT PUBLICATIONS

United States—General Statistics for Industry Groups and Industries; Research and Technologic Work at the Health and Safety Research and Testing Center, Fiscal Years 1960-1965; Assigning an Area of Influence for an Assay Obtained in Mine Sampling; Directory of United States Standardization Activities; Solution Studies of Chrysotile, Lizardite and Antigorite: Asbestos in 1966; World Mineral Production in 1966; separate preprints on the mineral industry, in 1965, of Arizona, Vermont, Canada, Bolivia, Philippines, Cyprus, Greece, Australia, South Africa, India, Angola-Mozambique-Portuguese Guinea, Rhodesia-Zambia-Malawi, and Basutoland-Bechuanaland-Swaziland; 1965 review of the mineral industries (metals and non-metals, except fuels); 1965 asbestos chapter; regional mineral industry review, 1965, of North America, and also Africa.

Canada—Canada's Mineral Production 1966; Asbestos preprint; 1965 Directory of Mining Establishments; Asbestos Products Manufacturers 1964, and also 1965; Index of Standards and Specifications; Standard for Asbestos-Cement Industrial Vent Pipe; Standard for Asbetos-Cement Flue Pipe; Mining in Canada; What the Mining Industry Means to Canada.

Australia—Bulletin No. 72, extract of chapter on asbestos from Australian Mineral Industry: The Mineral Deposits, contains data from 1915 to 1960.

Britain—Export Handbooks, series entitled "Services for British Exporters"; Statistical Summary of the Mineral Industry; standards on Asbestos-Cement Pressure Pipes (revised), Asbestos-Cement Rainwater Goods, and Pitch Impregnated Fibre Pipes and Fittings for Drainage Below and Above Ground.

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Cyprus—The Geology and Mineral Resources of the Pharmaka-Kalavaos Area; Cyprus Annual Report 1966.

India—standard on Asbestos-Cement Flat Sheets.

AWARDS

Asbestos Story Ring was presented to Klaus Rheinhold, retired partner of Becker & Haag, Hamburg, Germany, and George W. Smith, retired president of Bell Asbestos Mines Ltd. (10th casting).

Certificate of Appreciation, from the Asbestos Textile Institute, to William S. Hough, former president of the Institute.

Queen's Award to Industry, 1967, conferred on Scapa Group Limited by Her Majesty the Queen of England, in recognition of Scapa's outstanding export achievement.

Honorary Degree of Doctor of Public Service, to William S. Simpson, president of Raybestos-Manhattan, Inc., at Fairfield University's 17th commencement exercises.

RETIREMENTS

The following gentlemen have retired from their respective positions throughout the Asbestos Industry and we wish them much success and good health in their future interests:

G. A. Wilson—director in charge of export sales, J. W. Roberts Limited, November 30, 1966;

A. H. (Herbert) Parkes—managing director, Small and Parkes, December 31, 1966;

M. C. Bentall—export sales director, Turner Brothers Asbestos Company Limited, end of 1966;

Robert F. Orth—general manager, pipe division, Johns-Manville Corporation, December 31, 1966;

William G. Collins—chief chemist at central testing laboratory, Johns-Manville Products Corporation (Waukegan, Illinois, plant), January 31, 1967. Mr. Collins plans to set up consulting activities;

W. H. Soutar—assistant to the Jeffrey Mine Manager, Canadian Johns-Manville Company Limited, April 1, 1967;

Edwin C. Lindstrom—quality control manager, Johns-Manville Corporation, April 1, 1967;

Dr. Albert J. Phillips, director of research, American Smelting & Refining Company, April 30, 1967;

Robert S. King—chairman, The Philip Carey Manufacturing Company, June 15, 1967;

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W. Noel Reakes—technical service and merchandising manager, asbestos fibre division, National Asbestos Mines Limited, August 31, 1967;

R. S. Williams—sales manager-western district, Canadian Johns-Manville Company Limited, December 31, 1967;

Reuben H. Chase—director and vice president of Kohler & Chase, and also interested in Products and Production Devices, Inc.;

J. E. Morrison—manager of asbestos plant, Asbestos, Quebec, Canadian Johns-Manville Company Limited;

Milton R. Maddux—director of purchasing, The Philip Carey Manufacturing Company.

DEATHS

Below is a list of the men in the Asbestos Industry whose passings were recorded this year in ASBESTOS. Their absence will be greatly felt but their many contributions will be remembered for many years to come.

Leslie Martin Cassidy—former president, chief executive officer and chairman of the board, Johns-Manville Corporation; February 8, 1967.

Samuel A. Abrahams—connected with the industrial use of asbestos products and their manufacture since 1927; formerly insulation manager for Pabco Products Division of Fibreboard Corporation, and later manager for The Philip Carey Manufacturing Company; February 28, 1967.

Oscar H. Ritter—manager of "TROPAG", Hamburg, Germany; March 19, 1967.

Herbert Abraham—director and honorary chairman, The Ruberoid Co.; April 4, 1967.

Edgar R. Gervais—retired industrial relations manager, Johns-Manville Corporation; June 16, 1967.

Alvin F. Heinsohn—vice president and director, Raybestos-Manhattan, Inc.; July 13, 1967.

Harry Elmer Humphreys, Jr.—retired president and chairman, Uniroyal, Inc.; September 3, 1967.

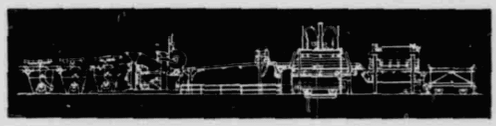
Fred A. Mett—founder and president of Powhatan Mining Company, and pioneer and developer for uses of amphibole asbestos; October 4, 1967.

MISCELLANEOUS

Asbestos-cement products are making impressive strides in a drive for a bigger piece of the construction market, ac-

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cording to a report from Canadian Johns-Manville Co. Ltd.

Brazil—The Mineral Research Plan of the National Department of Mineral Production will cost Brazil US$29.8-million for chrysotile.

Colombia—Promising deposits of many minerals, including asbestos, have been reported by the Colombian Minister of Mines.

Ferodo/SABS—M. Andre Collineau and M. M. Decaestecker, from Ferodo Limited, visited the Asbestos Testing Laboratory of the South African Bureau of Standards to acquaint themselves with the work being done in the field of asbestos, and to inspect the testing facilities they were able to offer.

World's biggest brake, from Small and Parkes Limited, has been installed at the pit head of the 9,000-foot-deep gold mine in the Western reef, near Johannesburg, South Africa.

North American Asbestos Corporation introduced two new gradings of short-fibred amosite — RK and 6605 — very much shorter in fibre length and lower in cost than the traditional amosite gradings.

Canada's asbestos centers were toured by five Mexican business and government representatives. Sponsored by the Department of Trade and Commerce, the mission visited asbestos mines, testing laboratories and production facilities.

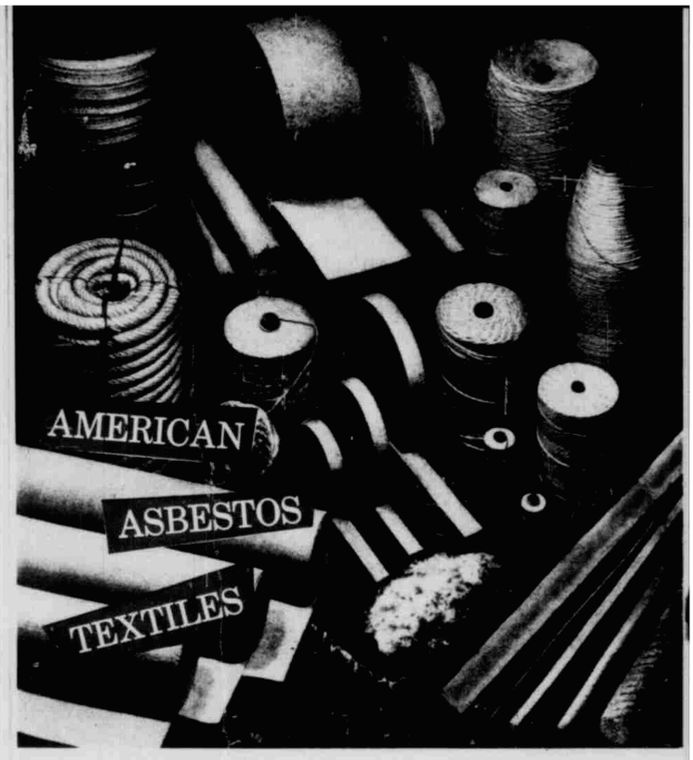
Hilados Y Tejidos De Asbesto S.A., of Toluca, Mexico, has been accepted for Associate Membership in the Asbestos Textile Institute.

ACSCO (Asbestos-Cement Service Company Limited), Turin, Italy, has resolved the problem of the deformation of asbestos-cement pipes occurring during the process of initial hardening (ovality).

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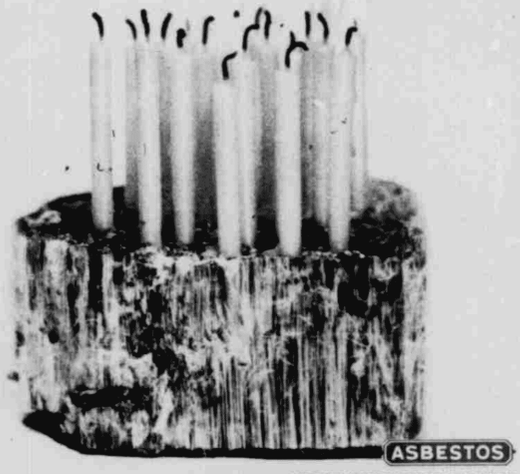
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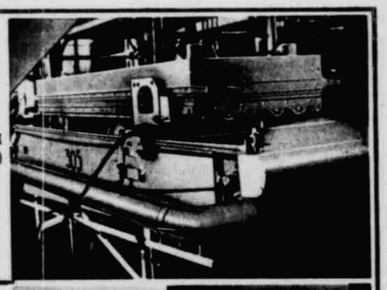
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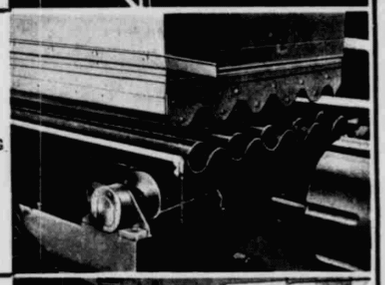
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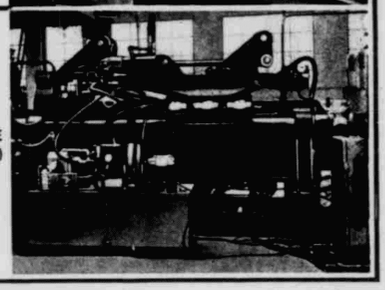
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Automobile Sales

SEPTEMBER 1967 motor vehicle factory sales from plants in the United States totaled 710,531 (passenger cars —601,001; trucks and buses—109,530). The total for September 1966 was 747,192. The total for the first nine months of 1967 was 6,458,735 compared to 7,439,807 for the same 1966 period.

Motor vehicle factory sales from plants in Canada totaled 75,668 for September 1967 compared to 56,689 in September 1966. The total for the first nine months of 1967 was 675,309 which compares with 639,042 for the same period in 1966.

DON INTERNATIONAL S. A. officially opened its factory at Manage (Hainaut), near Brussels, Belgium, on November 6th, 1967, and is now in a strong position to attack the market for automotive and industrial friction materials (brake linings, clutch facings and disc brake pads) within the European Economic Community. Costing over £1,000,000, the project is a joint venture by *The Cape Asbestos Company Limited* and the *Johns-Manville Corporation* of New York. The 27-acre factory site has 15,000 square feet of covered area for the manufacture of brake linings and will be employing 100 workers by early 1968. Production of brake linings has begun and distributors in Belgium, France, Germany, Italy and Holland will shortly be receiving Belgian-made materials for the replacement trade. Within the next month or so, the original equipment contracts in the Common Market, including materials for Fiat and Mercedes Benz, will be handed over for Belgian manufacture to Don International by Johns-Manville and *Small and Parkes Limited* (a member of the Cape Asbestos Group of Companies).

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Building

(From: F. W. Dodge Company, a division of McGraw-Hill, Inc.)

OCTOBER 1967 contracts for future construction set another new high and extended the record-breaking pace of the two previous months. A commitment of $5,053,226,000 for new construction projects was 23% above last October, with gains in all major categories. Residential building contracts, valued at $1,887,148,000, were 54% higher than last October (when the housing market had skidded to its 20-year low). Nonresidential building contracts were up 4% and valued at $1,874,217,000. Nonbuilding construction contract value was up 19%, at $1,291,861,000.

FIRST TEN MONTHS 1967: Residential $16,468,-051,000, up 3%; Nonresidential $17,084,967,000 up 2%; and, Nonbuilding $11,257,443,000 up 2%—total construction $44,810,461,000, up 3% from the first ten months of 1966.

DOW BUILDING COST CALCULATOR—Costs of building construction have gone up 2.5% in the year ending October 31st, 1967, and 1.5% since April of this year. The basic reason for this rise was an average 6% increase in hourly wages for building trades craftsmen. The Dow Building Cost Calculator survey checks costs in 158 cities in the continental United States and 33 in Canada. It is produced from cost data collected from realtors, materials suppliers, contractors, and building trades unions and employers groups.

DODGE SPEC-FAX—A new construction information service will be introduced in January 1968 by Dodge. Spec-Fax will notify building products manufacturers and suppliers when the specifications for construction projects call for the type of products they produce or sell. The new national service will provide subscribers with copies of product specifications taken from actual construction projects in sufficient time for them to take appropriate sales action. Spec-Fax will be issued while building projects are in the bidding stages. During 1968, over 20,000 building projects covering more than 1,200 product categories will be reviewed.

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BAU 68—The Third International Trade Exhibition of Building Materials, Structural Elements and Interior Finishing will be held on the Munich Exhibition Grounds, Germany, from February 17th through 25th, 1968. Also as part of the BAU 68 will be renovation and modernization of old buildings, wood used in the construction of buildings, and house technics, thus giving the trade visitors valuable suggestions as to the application of building materials. Beside individual exhibitors from Austria, France, Italy, Sweden and Switzerland, collective shows will be held by Great Britain and France.

ASTM NOTES—meeting of Committee C-17 on Asbestos-Cement Products, Washington, D.C., February 6th through 8th, 1968 . . . recommendations submitted by technical committees for Society action under the Interim Procedure for Standards, including adoption of tentatives as Standard without revision for specification for asbestos-cement pressure pipe, non-pressure sewer pipe, perforated underdrain pipe, fiberboard insulating panels, and linings for asbestos-cement pipe, and methods of testing asbestos-cement pipe . . . Part 14 of 1967 Book of Standards now available and concerns thermal insulating materials, acoustical materials, joint sealants, fire tests, and building constructions.

PAPER BY R. G. WOOLERY—"Properties and End Use Applications of Chrysotile Asbestos From The New Indra Deposit, California" was presented by Mr. Woolery at the fourth joint meeting between CIMM and AIME. This chrysotile asbestos deposit differs from the sources of most chrysotile products. These differences are examined with respect to geology, mining, and processing. The significance of a new colloidal grade chrysotile is presented in terms of its physical properties and end-use application. Included are some comparative data between this new form of chrysotile and the more conventional short-fibered products. Also, some of the newer modified asbestos products being produced at Union Carbide's King City Plant are discussed.

Mr. Woolery is Technology Manager-Asbestos of the Chemicals and Plastics Development Division of Union Carbide Corporation.

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MARKET CONDITIONS

General Business.

The biggest recent news affecting international business was the British announcement of devaluation of the pound. This culminated a long but losing battle to avoid such a step which finally had to be taken to avert bankruptcy. While Ireland immediately followed suit and Denmark and Israel indicated they would do likewise, the United States and other leading banking countries said they would take no such action at this time. This should improve Britain's position in selling to world markets which is the chief purpose behind the move.

Business, in general, is somewhat spotty. Even in industries where sales are good, the profit squeeze is being felt and competition is very keen for the business available. The long predicted upsurge has not yet made itself felt and there is only a short time left in this year to prove the forecasters correct. While Christmas buying will probably give the usual fillip to retail sales, it takes more than a short, seasonal spurt to have any appreciable effect on the heavier industries.

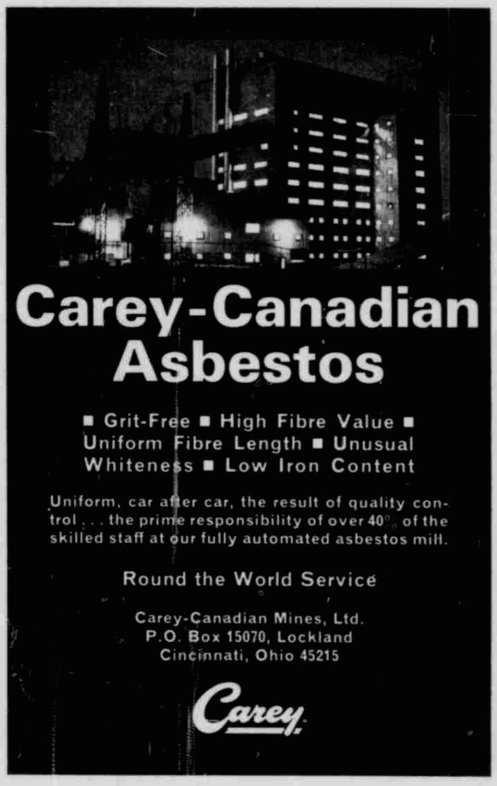
Asbestos—Raw Material.

Quebec asbestos fibre shipments for the industry during October 1967 totalled 113,992 tons, an increase of 4,070 tons or approximately 4% over the same period last year.

Year to date shipments at 996,576 tons are running 66,712 tons or approximately 6% lower than those of 1966.

Asbestos—Manufactured Goods.

Asbestos Textiles: The present market situation in respect to asbestos textiles shows a good overall level of activity. The outlook is very favorable and there is considerable optimism for greater activity during the early part of 1968.



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Asbestos Brake Lining: The condition of the market, at present, for this material is excellent and the outlook is very good for the coming months.

Asbestos-Cement Pipes: Volume of business for asbestos-cement pipes is spotty and highly competitive. Increased costs of materials and labor have placed further pressure on profits. The normal seasonal decline is expected for the immediate future.

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

CENTER FOR PROFESSIONAL ADVANCEMENT is offering the following short courses during January 1968: Chemical Marketing Workshop; January 9th through 11th; Noise Measurement and Control Workshop, January 15th through 17th; and, Basic Electronics Workshop for Scientists and Engineers, January 22nd through 26th.

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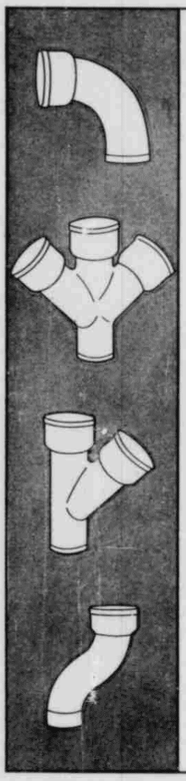
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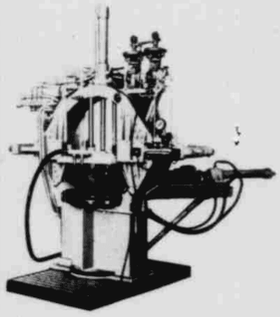
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MACHINERY FOR MANUFACTURING
ASBESTOS - CEMENT ARTICLES

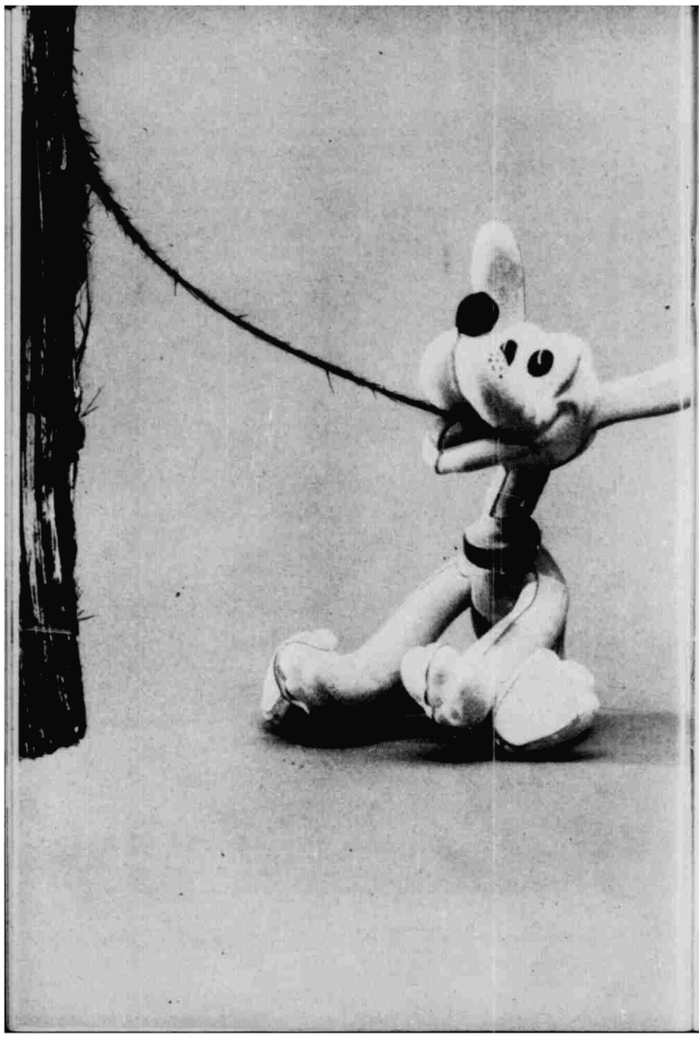
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TW3760

PRODUCTION

Australia—FOURTH QUARTER 1966 asbestos production amounted to 3,637 short tons: Chrysotile—106; Crocidolite—3,531. YEAR 1966 asbestos production totalled 13,467 short tons: Chrysotile—627; Crocidolite—12,840. Apparent consumption for 1966 was 63,967 short tons compared to 19,966 in 1965. (Bureau of Mineral Resources)

Cyprus—THIRD QUARTER 1967 production of asbestos amounted to 7,893 short tons: July—2,522; August—2,790; and, September—2,581. (Ministry of Commerce & Industry, Nicosia)

Italy—Output of asbestos during 1966 totalled 82,068 metric tons, about 14% above the 71,862 produced in 1965. (U.S. Mineral Trade Notes)

Thailand Seminar—During the second week of January 1968, the Thailand Department of Mineral Resources is planning to hold a seminar in Bangkok to discuss the "Development of the Mining Industry in Thailand". Objectives for discussion are: the role of government and private enterprise in the development of the mining industry; capital formation and taxation, as it affects mining; and, the country's mineral potential and conservation.

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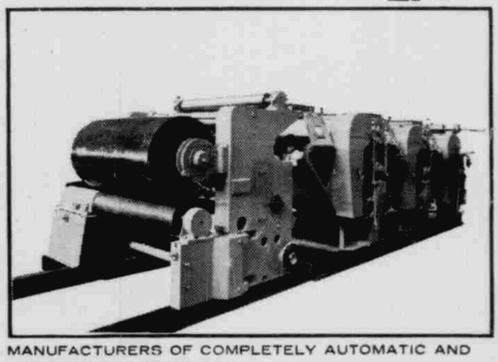
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IMPORTS & EXPORTS

Imports Into U.S.A.

(Figures from U.S. Bureau of the Census) — Short Tons

Unmanufactured Asbestos:	JULY 1967	AUGUST 1967
Amosite, Crude, South Africa	1,050	1,167
Crocidolite (Blue), Crude, South Africa	1,073	472
Chrysotile, Crude, Canada		1
Italy		1
Mozambique		35
Rhodesia		210
South Africa		750
Chrysotile, Spinning Fibers, Canada	925	1,917
Rhodesia	75	
Yugoslavia	661	
Chrysotile, Other, Canada	43,662	43,682
Rhodesia	192	
Yugoslavia	661	
Asbestos, Other, Canada	2,823	3,497
Finland	127	215
Portugal	15	
Rhodesia		141
South Africa	85	50
United Kingdom		25
	50,688	52,163

July 1967 valued at: $5,036,364
August 1967 valued at: $5,552,798

Manufactured Asbestos Goods:			JULY 1967
Asbestos Yarn, Slivers, etc.	Lb	251,127	$141,274
A-C Pipes, Tubes & Fittings	Lb	3,243,736	130,534
Asbestos-Cement Articles, Other	Lb	1,399,230	210,912
Asbestos Articles, Other			139,969
			$622,689

			AUGUST 1967
Asbestos Yarn, Slivers, etc.	Lb	115,588	$ 81,012
A-C Pipes, Tubes & Fittings	Lb	2,784,883	167,414
Asbestos-Cement Articles, Other	Lb	987,209	134,081
Asbestos Articles, Other			170,553
			$553,060

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Exports From U.S.A.

(Figures from U.S. Bureau of the Census) — JUNE 1967

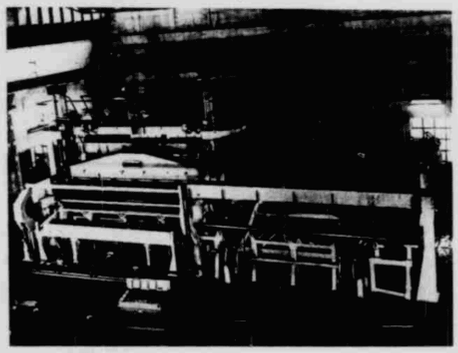
Unmanufactured Asbestos:			
Crude & Spinning Fibers	s.tons	75	$ 23,669
Non-Spinning Fibers	s.tons	2,747	357,003
Waste & Refuse	s.tons	1,986	171,896
		4,808	$ 552,568
Manufactured Asbestos Goods:			
A-C Shingles & Clapboard	Lb	2,967,019	$ 261,109
Other A-C Articles	Lb	7,757,295	628,061
Gaskets & Packing	Lb	472,564	493,847
Textiles & Yarns	Lb	664,540	219,088
Mfrs. other than Friction Materials			408,133
Clutch Facings, including Linings	No	160,345	205,208
Brake Linings for automotive use	Lb	457,835	330,159
Brake Linings, Other	Lb	367,015	246,309
			$2,791,974

(Figures from U.S. Bureau of the Census) — JULY 1967

Unmanufactured Asbestos:			
Crude & Spinning Fibers	s.tons	135	$ 29,621
Non-Spinning Fibers	s.tons	1,667	240,156
Waste & Refuse	s.tons	1,511	138,670
		3,313	$ 408,447
Manufactured Asbestos Goods:			
A-C Shingles & Clapboard	Lb	1,967,819	$ 198,860
Other A-C Articles	Lb	1,842,789	192,927
Gaskets & Packing	Lb	384,047	443,055
Textiles & Yarns	Lb	476,747	179,649
Mfrs. other than Friction Materials			431,951
Clutch Facings, including Linings	No	434,401	285,742
Brake Linings for automotive use	Lb	482,071	332,349
Brake Linings, Other	Lb	227,565	177,085
			$2,241,618

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Exports From Canada

(Published by Dominion Bureau of Statistics) JULY 1967

Unmanufactured Asbestos: Short Tons

	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
United States		1,184	13,038	29,797
United Kingdom		345	7,218	6,055
South America		22	4,125	659
Central America & Mexico		33	2,237	178
Europe	2	236	18,728	14,515
Japan	1	149	1,789	5,210
Other Countries	1		3,890	1,640
	4	1,969	51,025	58,054

Total Unmanufactured Asbestos—111,502 Valued at—$14,104,000

Manufactured Asbestos Goods:

Asbestos Brake Linings & Facings	$ 15,000
Asbestos-Cement Building Materials	80,000
Asbestos Basic Products, Other	99,000
	$ 194,000

Australia Imports—FOURTH QUARTER 1966 asbestos imports amounted to 14,922 short tons: Amosite—2,703; Chrysotile—11,638; Other—581. YEAR 1966 asbestos imports reached 55,152 (valued at about $6,437,000): Amosite—9,950; Chrysotile—43,108; Other—2,094. (Bureau of Mineral Resources)

Australia Exports—FOURTH QUARTER 1966 total for all types and grades of asbestos was 1,098 short tons. YEAR 1966 totalled 4,644. (Bureau of Mineral Resources)

Cyprus Exports—THIRD QUARTER 1967 exports of asbestos totalled 5,229 tons, valued at £224,368: July—1,881, £86,049; August—1,713, £68,620; and, September—1,635, £69,699. (Ministry of Commerce & Industry, Nicosia)

Italy Imports—YEAR 1966 imports of asbestos reached 43,620 metric tons compared to 38,639 in 1965. Principal supplying countries, by order of tonnage, were South Africa, Canada, U.S.S.R., and Rhodesia. Imports of high-grade asbestos into Italy increased about 13% in response to growing local requirements. (U.S. Mineral Trade Notes)

Italy Exports—YEAR 1966 asbestos exports amounted to 35,937 metric tons, which compares to 25,669 in 1965. Principal receiving countries, by order of tonnage, were West Germany, France, Poland, Spain, and Cuba. (U.S. Mineral Trade Notes)

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Heat sealing may be carried out as with other polyethylene bags or by using the new automated flat-end heat sealer available from Thomas Bonar/Bonar & Bemis. Labels and trademarks printed directly on 'Sclairpak' bags remain clean, sharp and legible. Clear film permits quick inspection by customers without the need for opening bags.



For full information contact Thomas Bonar & Co. (Canada) Ltd. and Bonar & Bemis Ltd., exclusive 'Sclairpak' suppliers. Or write: Du Pont of Canada Limited, Dept. A-SP-2, Box 660, Montreal 3, Que.

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CANADA

'Sclairpak' is the registered trademark of Du Pont of Canada Limited, for its high-strength industrial polyethylene bag.

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INDUSTRY NEWS

HAPPY BIRTHDAY

Andrew S. Halley, Senior Vice President, Fiberboard Corporation, San Francisco, California, December 18.

George J. Pecaro, President & Chief Executive Officer, The Flintkote Company, New York City, December 20.

Harry C. Redstone, Executive Vice President & Secretary, Asbestos Distributors, Inc., Port Chester, New York, December 20.

Edwin E. Hokin, President, Unarco Industries, Inc., Chicago, Illinois, December 21.

Robert L. Clark, Treasurer & Chairman, The Clark Asbestos Company, Cleveland, Ohio, December 22.

Donald G. Hamme, Director of Research, National Gypsum Company, Tonawanda, New York, December 24.

Joseph J. Kelly, Secretary-Treasurer, Western Asbestos Company, San Francisco, California, December 25.

John Clarke Dempsey, Vice President, Armor Products, Inc., New York City, December 27.

J. C. McKendry, Jr., Vice President, Niagara Asbestos Company, Buffalo, New York, December 27.

M. J. Warnock, President, Armstrong Cork Company, Lancaster, Pennsylvania, December 28.

Vincent W. Drumb, Area Supervisor of Industrial Relations, General Aniline & Film Corporation, New York City, January 2.

Robert G. Beldam, Chairman & Managing Director, Beldam Asbestos Company Limited, Hounslow, England, January 3.

Stephen Derek Hungerford Pollen, Deputy Chairman, The Cape Asbestos Company Limited, London, England, January 4.

William L. Keady, Director, Fiberboard Corporation, San Francisco, California, January 5.

Rupert St. George Riley, Director, The Cape Asbestos Company Limited, London, England, January 6.

M. E. McCrosson, Assistant to Works Manager, Thermoid Division, Russell Works, H. K. Porter Company, Inc., Middletown, Connecticut, January 7.

Harold F. Lundby, Advertising Manager, Building Products Division, The Ruberoid Co.; New York City, January 8.

Charles E. Tennesson, Jr., President & Chief Executive Officer, The Philip Carey Mfg. Co., Cincinnati, Ohio, January 8.

Edward H. Wells, General Manager, Packings & Friction Materials Division, Johns-Manville Corporation, New York City, January 8.

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

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ASBESTOS PRICES

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
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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The *ONLY DISINTEGRATOR* treating the asbestos fibres without breaking them. Disintegrator used so to say by the most important Asbestos Mines of the whole world.

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ASBESTOS STOCK QUOTATIONS

Close—November 30, 1967

Abex	29½	Garlock	22⅞
Advocate	*$2.50	Gen Anil & Film	20¼
Asarco	67⅜	GAF (pfd-1.20)	27⅞
Armstrong Cork	49¾	Glen-Alden	12
Asbestos Corp.	*$21.00	G-Alden (.70)	13½
Bendix	47¾	G-Alden (pfd-3.15)	89¾
Bendix (pfd)	73¼	Gulf & Western	53
Cassiar	*$17.62	G&W (pfd-5.75)	74⅝
Certain-teed	15⅛	Johns-Manville	55¾
Certain-teed (pfd)	17	National Gypsum	41⅜
Conwest	*$5.80	Patino	*$15.12
Fiberboard	34⅜	Porter (pfd)	83
Flintkote	20¾	Raybestos	52⅝
Flintkote (pfd-A)	77	Unarco	11⅛
Flintkote (pfd-B)	35¼	Union Carbide	45⅝
Flintkote (pfd-4)	61	Uniroyal	44⅞
		Uniroyal (pfd)	129

*Canadian currency

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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 October 10th through November 7th, 1967.

3,346,111—Method for Rendering Asbestos Ore Particles Differentially Fluorescent, R. L. Thompson & F. B. Dwyer (assigned to The Colonial Sugar Refining Company Limited, Sydney, N.S.W., Australia), October 10, 1967.

3,346,352—Fire Starting Composition, F. C. McCoy, E. C. Knowles & A. R. Goldsby (assigned to Texaco, Inc., New York City), October 10, 1967.

3,346,490—Heat Resistant Bearing Product, F. W. Eschen (assigned to Johns-Manville Corporation, New York City), October 10, 1967.

3,347,047—Elastomeric Composition for Use as Rocket Insulation, W. A. Hartz & D. A. Meyer (assigned to The Goodyear Tire & Rubber Company, Akron, Ohio), October 17, 1967.

3,347,737—Bearing Surface, E. F. Harford (assigned to E. I. du Pont de Nemours & Company, Wilmington, Delaware), October 17, 1967.

THE RUBEROID CO.

PHILIP B. DALTON—executive vice president, in charge of General Aniline & Film Corporation's domestic and foreign operations which includes the Ruberoid division.

E. J. O'LEARY—senior vice president, responsible for market planning on an overall corporate basis and for high-level governmental and customer liaison.

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- Market Conditions in Australia (Sep-page 22)

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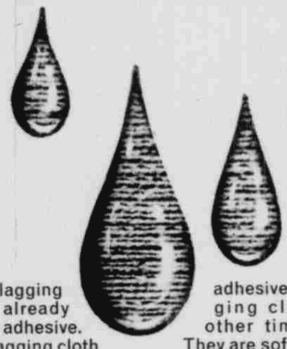
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Milling Asbestos
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Sewerage Systems
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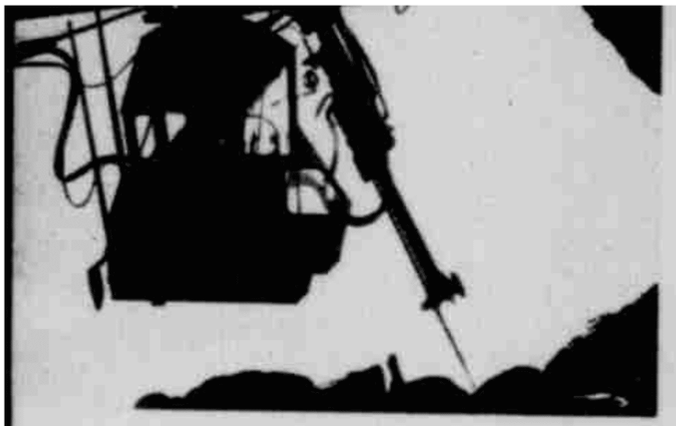


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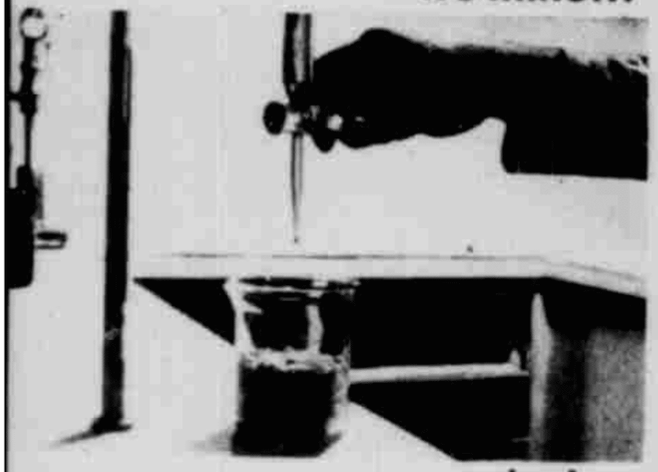
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RAYBESTOS-MANHATTAN, INC.
Manheim, Pa. 17545



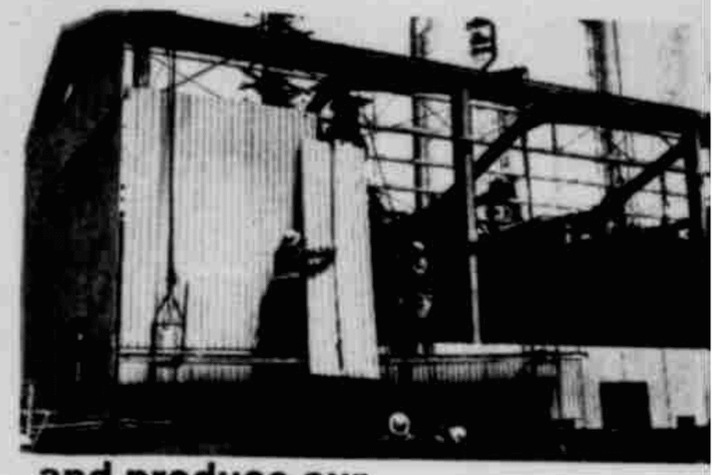
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