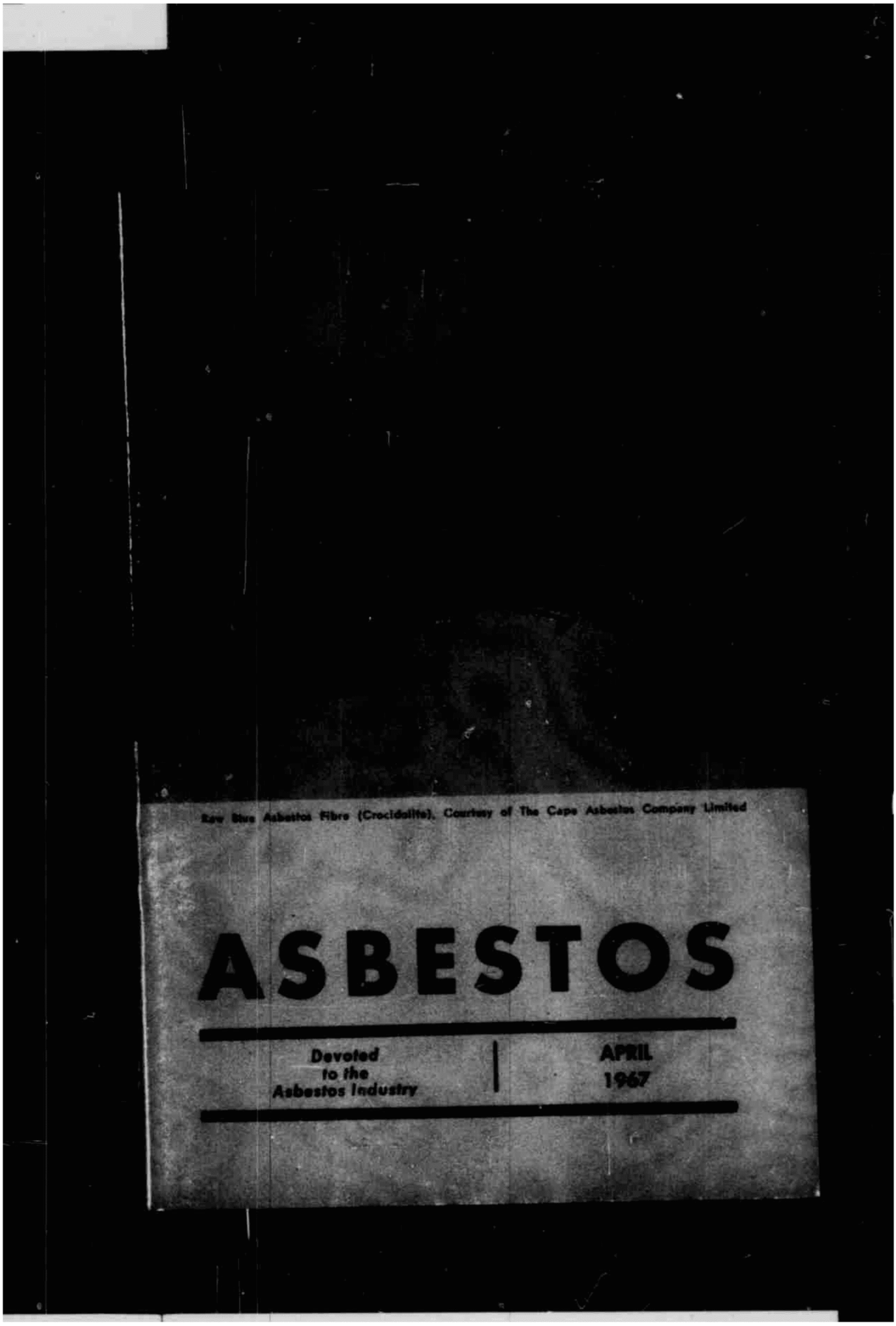

Raw Blue Asbestos Fibre (Crocidolite). Courtesy of The Cape Asbestos Company Limited
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ASBESTOS

VOLUME 48 APRIL 1967 NUMBER 10

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BRITISH ASBESTOS INDUSTRY

Part 3B: Asbestos in the Plastics Industry

By: C. Z. Carroll-Porczynski

Part 3A appeared in the March 1967 issue of ASBESTOS.

(This is the third of four parts of the article "British Asbestos Industry" which has been written by Mr. C. Z. Carroll-Porczynski, a leading expert in the Asbestos Industry, for publication in ASBESTOS. Part 4 will appear in a future issue.)

Asbestos Mats For Plastics Reinforcement

New methods of processing Amosite and Crocidolite asbestos fibres in mat form readily utilized for plastics reinforcement[9] have been developed by Cape Insulation and Asbestos Products Limited, London. Noramite asbestos mats are specially selected grades of Amosite (fawn) and Crocidolite (blue) asbestos fibres, carded into mat form and bonded with polyester resin to give handling strength. Noramite mats show high resistance to hot and cold corrosive attack and are particularly suitable for the lining of storage tanks, pickling and plating tanks, pipework and fume extraction equipment.

These mats can be pre-impregnated and press moulded in the conventional manner to produce dense, strong materials with, depending on the resin system used, a high degree of resistance to chemical attack. Hand lay-up laminates prepared from epoxide resin and blue asbestos mat offer good resistance to a wide range of chemicals, but if resistance to hot acids is of importance then phenolic resin-based laminates are particularly suitable.

Processed blue fibres may be used as reinforcement in dough moulding compounds and moulding flocks.

Pre-impregnated tapes based on blue asbestos roving can be used to wind pipes and ducting and can also be used to prepare undirectional laminates.

TABLE VI—MECHANICAL PROPERTIES OF PRESSURE LAMINATES[10]

REINFORCEMENT	PHENOLIC RESIN CROCIDOLITE MAT	EPOXIDE RESIN CROCIDOLITE MAT	POLYESTER RESIN CROCIDOLITE MAT	PHENOLIC RESIN CROCIDOLITE PAPER
Moulding pressure—lbs./sq. inch (kg/sq. cm)	800-1,000 (56-70)	210-250 (14.8-17.5)	300 (21)	1,000 (70)
Moulding temp.—°F (°C)	300 (149)	450 (232)	250 (121)	320 (160)



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And we found one. We discovered a way to make clean spinning fibres cleaner with lower carding and spinning losses. A better "yield" means better profits. Perhaps you too should yield to the trend to higher quality. We feel that these improvements will make our spinning fibre asbestos of even greater value to the spinner.

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ASBESTOS CORPORATION LIMITED ASBESTOS
Thetford Mines, Quebec

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Tensile strength— lbs/sq. inch (kg/sq. cm)	35,000-38,000 (2,460-2,670)	20,000-22,000 (1,405-1,545)	24,000-25,000 (1,690-1,760)	19,000-20,000 (1,335-1,405)
Flexural strength— lbs/sq. inch (kg/sq. cm)	60,000-66,000 (4,220-4,640)	42,000-43,000 (2,950-3,020)	44,000-45,000 (3,090-3,160)	42,000-44,000 (2,950-3,093)
Compressive strength— lbs/sq. inch (kg/sq. cm)	28,000-32,000	30,000-31,000	24,000-25,000	—
Young's Modulus in Tension— lbs/sq. inch (kg/sq. cm)	3.53 (0.248) x 10^6	2.8 (0.197) x 10^6	3.06 (0.215) x 10^6	2.94 (0.206) x 10^6
Specific gravity	2.08	1.6	1.7	2.9

Recent Inventions

Some examples of recent British inventions in the asbestos-reinforced plastics field include:

A laminated material produced by superimposing two or more asbestos fabrics impregnated with molten caprolactam, followed by heating to convert the lactam to polyamide which is solid at ordinary temperature (British Patent 957,915 — I.C.I. Limited).

A combination of waste rubber and asbestos which could be used, among others, as an underlay for carpets, and so on. (British Patent 949,165 — Industrial Processes Limited).

A jet propulsion motor having on the inside surface of its propulsion nozzle a heat-resistant, protective layer made of asbestos-bonded phenolic or epoxy resin (British Patent 988,930 — Bristol Aerojet Limited).

An asbestos-reinforced, thermoplastic sheet material based on polystyrene, polymethyl methacrylate, polyvinyl chloride, and so on. (British Patent 978,940 — Turner Brothers Asbestos Company Limited).

One of the most important companies engaged in the manufacture of reinforced plastics is J. W. Roberts Limited, a Turner and Newall company. This company sells a range of formed laminated products under the trade name "Ferobestos". These products, largely based on chrysotile asbestos, use flocks, felts and fabrics and the resin systems are based on phenol-formaldehyde, silicones and furane resins. British Industrial Plastics Limited, also belonging to the Turner and Newall group and comprising eight home and three overseas companies, produce a wide range of resins and moulding materials.

It is impossible to list every company using asbestos

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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in its moulding and laminated products, but, in addition to those already mentioned, the following are engaged in this field: Tufnol Limited, Birmingham, Warwickshire; Bristol Aerojet Limited, Bristol, Somerset; Permali Limited, also of Bristol; Asbestos Reinforced Plastics Division of Cape Insulation Limited; and Kestner Evaporator and Engineering Company Limited, Greenhithe, Kent.

The Kestner Company was founded at the turn of the century for the production of chemical plants.

It developed material, called Keebush, which is now recognized throughout the world wherever the users of acid and corrosive reagents are employed. Keebush is a solid material manufactured from either phenol-formaldehyde resin, with asbestos or graphite filler, or furane resins with asbestos or graphite filler. This material is graded according to the resin and filler; thus Grade "M" is resistant to acids and aqueous solutions, also to certain solvents, while Grade "H" is resistant to strong alkalis, aromatic hydrocarbons, esters, ketones and chlorinated solvents. Some physical properties of Keebush are shown in the table below:

TABLE VII

	KEEBUSH GRADE "G"	KEEBUSH GRADE "M"
Tensile strength— lbs/sq. inch (kg/sq. cm)	2,000 (140)	2,500 (175)
Compressive strength— lbs/sq. inch (kg/sq. cm)	8,000 (550)	10,000 (700)
Modulus of rupture— lbs/sq. inch (kg/sq. cm)	3,900 (275)	3,775 (265)
Shear strength— lbs/sq. inch (kg/sq. cm)	3,100 (220)	4,100 (290)

This plastics material is being used in the manufacture of pickling plants, acid storage tanks, pipes, chimneys, reaction towers, and countless other products where acid resistance is of primary importance. The conception of this material and its development by the company was and still is British.

A new range of asbestos-reinforced thermoplastic sheet materials, under the name "Duraform", has been developed

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by Turner Brothers Asbestos Company Limited. The properties of these materials include high strength and stiffness, good chemical and weathering resistance, low coefficient of expansion, high impact strength at ambient and low temperatures, and attractive appearance.

The properties of one member of the range, an asbestos/polyvinyl chloride material, are listed in the table below:

TABLE VIII

Tensile strength—lbs/sq. inch (kg/sq. cm)	10,000-15,000 (700-1,055)
Crossbreaking strength—lbs/sq. inch (kg/sq. cm)	20,000-30,000 (1,405-2,110)
Flexural modulus—lbs/sq. inch (kg/sq. cm)	1.6-3.0 (0.112-0.210) x 10^6
Impact strength (notched) foot pounds (kg.m)	3.2 (0.442)
Coefficient of expansion	1.6 x 10^{-5} per °C
Heat distortion point	100°C (212°F)

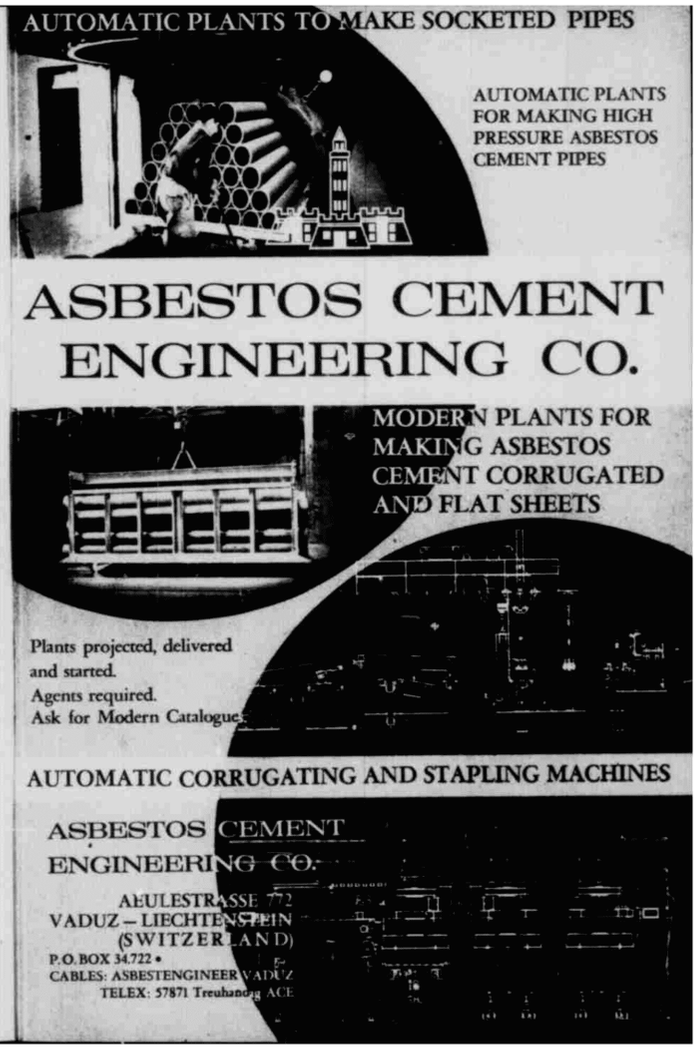
(The material is classed as self-extinguishing.)

Applications are cladding panels and curtain walling for the building industry, chemical plant, machinery guards, advertising and road signs, and sandwich panels for prefabricated buildings. It is also used as an integrally bonded decorative surface for asbestos-cement sheet for use in buildings.

Laminated Plastic Products Limited, Ware, Hertfordshire, is another British company engaged in development, production and sales of a wide range of asbestos-based plastics, particularly for use in the chemical industry.

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GEORGE W. SMITH

Receives Asbestos-Story Ring

George W. Smith, retired President of Bell Asbestos Mines, Ltd., Thetford, Quebec, Canada, was the recipient of the Asbestos-Story Ring on November 22nd, 1966. He has been an active member of the Asbestos Industry for over 41 years. A group of Mr. Smith's friends gathered at the Mount Stephen Club in Montreal for a reception and dinner. In addition to paying him very deserved compliments and respect, he was presented with the 10th casting of the ring with his monogram engraved in an onyx setting. The design of the ring, through the gold engraving, symbolizes and depicts the story of asbestos from mining of the raw fiber, through the manufacturing processes, and into various typical finished products. (It is interesting to note that those in attendance represented over 600 years in the Asbestos Industry.)



The photograph above shows the prominent leaders in the Asbestos Industry who attended the occasion: (seated left-to right) W. A. Jaitch, A. S. Johnson, George W. Smith, A. L. Penhale, Philip Meyer, W. J. Johnson; (standing left to right) L. W. Bladon, K. Lindell, C. B. Brown, J. A. D. Marcotte, F. P. Smith, W. S. Cowell, W. W. Oughtred, G. F. Jenkins, and J. D. Christian. (M. Messel and S. R. Zimmerman, Jr. were unable to attend.)

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Expo 67

Canada, celebrating her one-hundredth year of confederation, will be the cultural, entertainment and business-building capital of the world during the Universal and International Exhibition, to be held in Montreal from April 28th through October 27th, 1967. Called for short, "Expo 67", it is not merely a "World's Fair". Under the umbrella of the theme "Man and His World" selected by international agreement are assembled representative products of many countries, not with the idea of making sales on the spot but rather of demonstrating value and usefulness to man through originality of presentation.

Some seventy nations are represented, making this the most international exhibition in history. The previous record was made at Brussels in 1958, with 45 countries represented. The United Nations pavilion is designed to reflect the desire and determination of ordinary people to see their governments use the U.N. to help bring order, justice, peace and decency into the affairs of mankind. Canada tells the story of man in the environment of Canada. The United States shows the creative efforts of man based on life in a prosperous and automated society. The Netherlands has built its story around Man and the Ocean. Israel discusses man's struggle against the desert. France will present Tradition and Invention, dedicated to modern France and its contribution to the world. The Union of Soviet Socialist Republic's pavilion has as its theme, Everything in the Name of Man for the Good of Man. A roof in the form of a sail is the dominant feature of the Italian pavilion, while inside the building are displayed some of Italy's famous art treasures. Korea presents a building combining a wealth of tradition with modern architecture, wood being the only material used; its theme being Man and His Hands. The Japanese pavilion combines ultra-modern materials with ancient architecture. Burma discloses many treasures under the theme Man and Friendship. Greece will show its preoccupation with that freedom of the human spirit that is indispensable for the flowering of man's creative genius.

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all aspects of the economy, primary and secondary, and the most up-to-date financial and commercial records.

The *Quebec Asbestos Mining Association* is spending $75,000 on a plaza which will give predominance to their product. The center piece of the plaza will be a large asbestos rock fountain. It is intended to arrange the display in such a way as to give the impression of the rock floating in the basin.

For Canada, Expo 67 marks a point where the nation's maturity is recognized by her own people and by the rest of the world. It is an instrument of national consciousness, and a contribution to man's unity.

TURNERS ASBESTOS CEMENT COMPANY LIMITED will mark *B.S. 690* on future supplies of its corrugated sheets. This action is being taken to assist building inspectors and other authorities, as asbestos-cement corrugated sheets for roof and wall claddings are acceptable under The Building Regulations 1965 only if they meet the requirements of B.S. 690:1963. Relevant products of T.A.C. manufacture are made in accordance with the British Standard concerned.

QAMA—At the annual meeting of the Quebec Asbestos Mining Association, the following officers were elected for the ensuing year: President—M. J. Messel; Vice President—W. W. Oughtred; Treasurer—George Robinson; Secretary and General Manager—Paul A. Filteau; and, Legal Adviser—Ivan Sabourin, Q.C.

Members of the board of directors are W. W. Oughtred, F. P. Smith, Dr. K. V. Lindell, Dr. R. J. Merrill, J. A. Main, M. J. Messel, R. S. Coleman, and P. A. Meyer.

ASTM STANDARDS—The following two parts of the American Society for Testing and Materials' Book of Standards are now available: Part 12, Chemical-Resistant Nonmetallic Materials, Clay and Concrete Pipe and Tile, Masonry Mortars and Units, Asbestos-Cement Products, Natural Building Stones ($8.00, 30% discount to ASTM members); Part 29, Electrical Insulating Materials ($22.00, 30% discount to ASTM members).

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Uniroyal—75th Anniversary

For roughly 70,000 employees, 42,000 stockholders and more than 140,000 customers, March 30th, 1967, is the 75th birthday of a billion-dollar corporation which was started on an investment of $100,000. It was on this date, in 1892, that a small group of New England footwear companies decided to pool their knowledge and equipment for greater efficiency and greater profit. This marked the start of one of America's fifty largest corporations—Uniroyal, Inc., (new name of U.S. Rubber).

The 75 years of progress of this company are indicative of the evolvement of the industrial system in America.

In 1892, U.S. Rubber had nine plants, located in Rhode Island, Massachusetts, Connecticut, New Jersey and Pennsylvania. Today, Uniroyal has seventy-nine plants, spotted from coast to coast in the United States and in fourteen countries abroad.

In 1892, U.S. Rubber had only one product line—waterproof rubber footwear. Today, Uniroyal markets 1,200 lines of products. Less than half its output is in rubber. The remainder is in chemicals, plastics, textiles and synthetic fibers.

In its first year, the concept of industrial research was yet unknown. In 1911, U.S. Rubber became one of the first companies to have a research laboratory. Today, Uniroyal has 5,000 scientists-chemists, physicists, mathematicians and engineers dedicated to forward planning for the company's tomorrow.

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.

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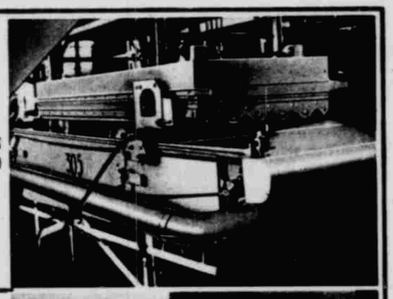
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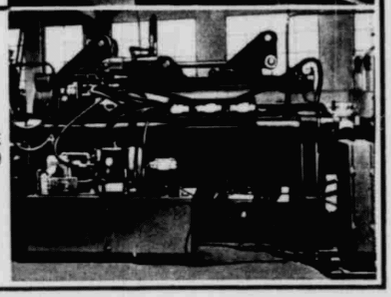
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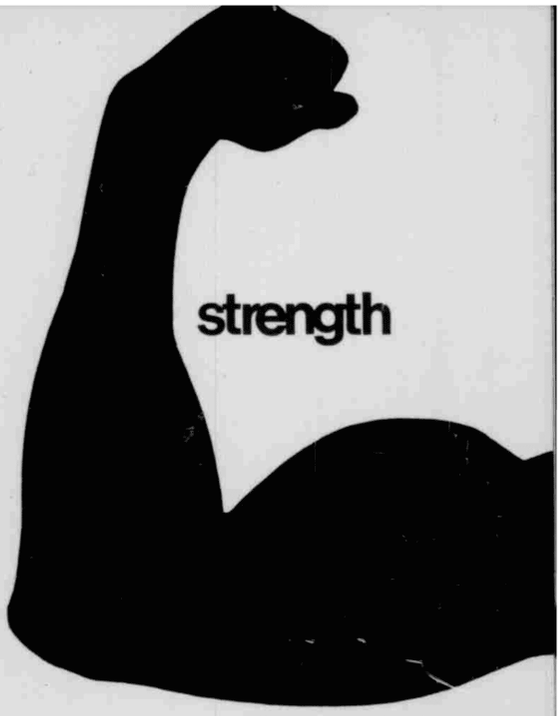


CANNONE (80 Atm. PRESSING)

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PROPOSED MERGER/CAPE ASBESTOS & UAM —The formal offer for the Ordinary Share Capital of the Universal Asbestos Manufacturing Company Limited (UAM) has now been sent out on behalf of The Cape Asbestos Company Limited (CAC). In a letter to CAC shareholders, Chairman R. H. Dent stated UAM products are complementary to and not competitive with the Cape Group's products. The wider range which would be available should result in an improved service to industry, and the research effort of the companies could be coordinated and made more effective in developing the advanced products needed for use with modern building systems. Under the terms of the offer, two UAM directors will be invited to join the CAC board, and Mr. Dent and two other CAC nominees would join the UAM board; Mr. Dent becoming Chairman of UAM. The present intention of CAC is to maintain the name, identity and goodwill of UAM, and terms and conditions of employment of the staff and all employees of UAM will not be adversely affected by the proposed merger. UAM directors are of the unanimous opinion that the merger would be in the best interests of UAM, its ordinary shareholders and its employees, and strongly recommend acceptance.

JOHNS-MANVILLE CORPORATION and SMALL AND PARKES LIMITED, of Manchester, England, will organize a company in Belgium to produce and market friction materials in the European Common Market. S&P is a subsidiary of The Cape Asbestos Company Limited. A new plant is currently under construction at Seneffe/Manage, Belgium, about 15 miles from the city of Mons. Production is scheduled to start in September of this year. The arrangement incorporates a complete exchange of technical and production data between the partners. The company which S&P set up last year in Belgium for this purpose, Don International S.A., is now to be renamed *Don-Manville S.A.*, and will be jointly owned by Cape and J-M. Products which will be manufactured will be for automotive and industrial applications, particularly in the expanding market for disc brake pads.



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MARKET CONDITIONS

General Business.

General business shows some signs of slackening. Automobile sales are off about twenty-five percent from the level of last year and sales of major appliances are also declining, indicating that consumers are tightening their purse strings. Work weeks in many industries are dropping back to the normal 40 hours as overtime is being cut down. While the recent cut in interest rates and various measures taken by Government are mildly inflationary, it remains to be seen whether such moves will overcome the recessionary trends now in evidence. The stock market has been strong and, to some observers, this means investors and speculators see an upward turn for business in the reasonably near future. It is now obvious that many industries are taking steps to reduce inventories and this correction will take some time but, once it is accomplished, a resumption of the upward trend in the general economy seems very probable. Present indications are that this turn will not take place until the latter part of this year.

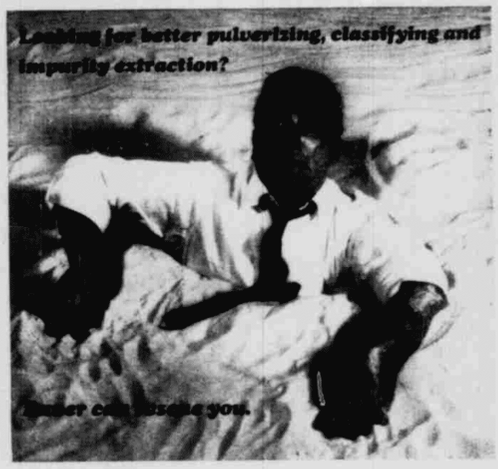
Asbestos—Raw Material.

Quebec asbestos fibre shipments for the Industry during February 1967 totalled 67,399 tons, a reduction of 18,177 tons or approximately 21% under the same period last year.

Year to date shipments at 132,236 tons, are 30,771 tons or 19% lower than those of 1966 for the same period.

Asbestos—Manufactured Goods.

Asbestos Textiles. Although certain areas of the textile industry are operating on a curtailed basis, this softness is confined primarily to consumer goods. The demand for asbestos textiles, as well as industrial textiles, generally remains brisk with sales for the first quarter reaching or



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exceeding predicted levels. Due to the increase in asbestos fiber prices and other cost increases, there are indications that the asbestos textile industry will also follow with a general price increase.

Asbestos Brake Lining. This market is very strong except for car production cutbacks. The outlook for the resale friction material market is very bright and it appears that the volume of orders will be good throughout the year.

Asbestos Paper & Millboard. This market is presently very steady—little change from last year. A continuation of these conditions is expected throughout 1967.

Asbestos Felt. The volume of demand for this material is strong, but pricing is weakening. A good volume of sales is anticipated during this year and should be approximately 10-15% over 1966.

Corrugated & Flat. The flat sheet business is about the same as this time last year but 1967 year-end reports should show an increase in usage over 1966. The current amount of activity for corrugated material is slightly less than last year but should equal or possibly be 5% ahead by the end of this year.

High Pressure Insulation. This market is presently very strong and this situation should continue during the months ahead. Many jobs are being bid, and plants, operating at capacity, have a large backlog. An increase in the price of calcium silicates is now in effect due to rising costs of raw materials, labor and transportation.

Asbestos-Cement Shingles, Roofing & Siding. Volume of sales is exceedingly low, prices are depressed and competition is fierce. Total volume for 1967 will probably be less than last year although better weather conditions and

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& Fibres

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anticipated new construction should improve the present situation in the near fuure.

Asbestos-Cement Pipes. There is improvement in the amount of work in water and sewer projects being bid in the last few months. Due to the lack of available business throughout 1966, however, the competitive urge to share in this market has had a serious effect on profits. Additional improvement should show in the second quarter of this year. There is a hesitancy to comment on the last half of the year due to Government slowdown in advancing Federal funds and the uncertainties of future costs of Viet-nam.

Asbestos Filter Fiber. The Arizona filter market remains very steady and supply continues to meet the demand. In view of the United States' embargo of Rhodesian fiber, sales volume should be on the increase for Arizona filter fiber.

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

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Johns-Manville Asbestos Fiber Sales, Research and Engineering Center, Manville, New Jersey, U.S.A.

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Automobile Sales

JANUARY 1967 motor vehicle factory sales from plants in the United States totaled 797,282 (passenger cars—651,210; trucks and buses—146,072). The total for January 1966 was 950,081.

Motor vehicle factory sales from plants in Canada totaled 75,791 in January 1967 compared to 77,260 in January 1966.

United States motor vehicle imports for January 1967 were as follows: new passenger cars—102,305 valued at $150,742,520; used passenger cars—208 valued at $239,234; trucks and buses—13,489 valued at $18,313,256; and, automotive parts—valued at $48,353,910.

WORLD'S BIGGEST BRAKE—The biggest brake in the world left a Manchester, England, factory to be installed at the pit head of the 9,000-foot deep gold mine on the Western reef near Johannesburg, South Africa. Technicians at *Small and Parkes Limited* have calculated that if this giant brake were cut up, the material in it would reline the brakes on over 1,000 family cars. The brake will control the winding drum which will lower men and materials to the gold face and lift the precious metal to the surface. The actual brake has a diameter of 16-feet and consists of two pairs of brake shoes, each two feet wide.

ASTM 70th annual meeting will be held at the Statler-Hilton, Boston, Massachusetts, from June 25th through 30th, 1967.

Cable Address "Fraruggles" Telephone (201) 379-2186

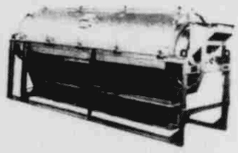
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Building

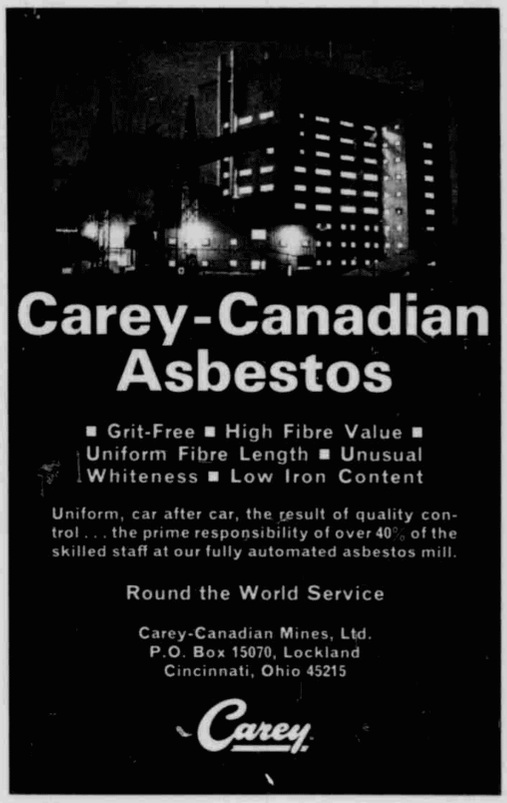
FEBRUARY 1967—A pickup in building contracts brightened the outlook for construction activity over the months ahead. The value of construction contracts for February totaled $3,300,014,000, 8% below the comparable year-ago amount. The latest Dodge Index of construction contract value rose 13%, to 146, from January's weak showing of 126. This was the highest Index reading since last September's 146. With this latest gain, construction demand now stands about halfway between the suppressed level of the past few months and the peak rate which had been reached almost a year ago. Housing has clearly strengthened from its very low fourth quarter volume, and nonresidential building appeared more bouyant.

Nonresidential building contracts, at $1,429,831,000, advanced 5% in value over last February. The combined total of commercial and industrial building contracts edged slightly ahead, but store building declined and offset most of the advance in factory and office projects. A strong gain in educational building contracts brought the institutional group ahead 6%. Hoespitals and religious buildings were down sharply.

Residential building contracts were valued at $1,056,426,000. Although 25% below last February, this month's figure reflects a modest but welcome improvement over the depressed volume of a few months ago. Both single family homes and apartments shared in this seasonally-adjusted advance.

Nonbuilding construction contracts held even with last year's total and amounted to $813,757,000. The value of new street, highway, and bridge projects initiated was up 4%, but the big gain resulted from water supply and sewer projects. Contracting for utilities construction, which ran exceptionally heavy during most of 1966, has now declined to a more normal level.

FIRST TWO MONTHS 1967: Nonresidential $2,603,394,000 up 1%; Residential $1,988,818,000 down 27%; Nonbuilding $1,531,976,000 down 11%—total construction $6,124,188,000, down 13% from the first two months of 1966. (F. W. Dodge Company, a division of McGraw-Hill, Inc.)





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A6

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PRODUCTION

Canada—DECEMBER 1966 asbestos production amounted to 120,099 tons compared to 148,010 in December 1965. Total for the YEAR 1966 is 1,479,281 compared to 1,387,555 for 1965. (Dominion Bureau of Statistics, Ottawa)

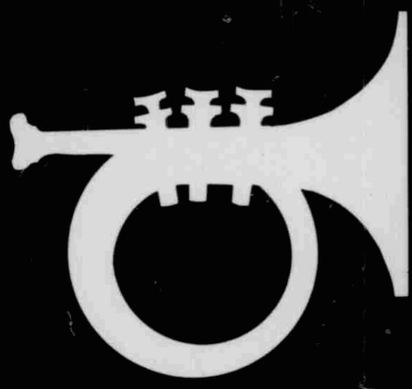
South Africa—THIRD QUARTER 1966 production of asbestos totalled 72,810 short tons (Amosite—25,146, Chrysotile—9,740, Cape Blue—35,929, Transvaal Blue—1,995). (Department of Mines, Johannesburg)

Swaziland—Mineral production, worth R12,940,553 in 1966, showed an increase of R2,598,482 on the 1965 total. Value of Chrysotile asbestos produced reached R4,986,804 in 1966 compared to R5,793,501 in 1965.

Asbestos/Australia—Extract of the chapter on asbestos from "Australian Mineral Industry: The Mineral Deposits" has been issued by Australia's Department of National Development as Bulletin No. 72. This bulletin gives tables from the years 1915 to 1960 on production, percentage production by states, and principal localities. It covers the composition, properties, uses, etc. of chrysotile, crocidolite, amosite, anthophyllite, tremolite and actionolite asbestos. Also included, by state, are the types of asbestos and location and workings of the various deposits.

The Mineral Industry of Vermont (preprint from the 1965 U.S. Bureau of Mines Minerals Yearbook—10¢)—The value of the minerals produced in Vermont reached a record high of $27.4-million. Compared with 1964, the 1965 production of asbestos declined 6% in tonnage, but increased 4% in value due to increased sales of higher quality material. Twenty-four grades of asbestos were produced. The Vermont Asbestos Mines, division of The Ruberoid Co., produced and processed chrysotile asbestos at its mine and mill at Lowell, in Orleans County.

Abitibi Asbestos Mining Co. Ltd.—The tests carried out on the drill core from Abitibi's asbestos property at Maizerets Township, Quebec, Canada, indicate that, to a depth of 600 feet, a probable 30-million tons of asbestos bearing serpentinite will be available for open pit mining. This structure is open for more tonnage at depth and to the west. Laboratory tests carried out on the drill core have shown that a strong, clean, fast-draining cross fibre asbestos is recoverable in Groups 4, 5 and 6. In addition to the structure drilled, a ground magnetometer survey on adjoining properties in which Abitibi has acquired an interest has located several magnetic anomalies which may well be asbestos bearing.



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Imports Into U.S.A.

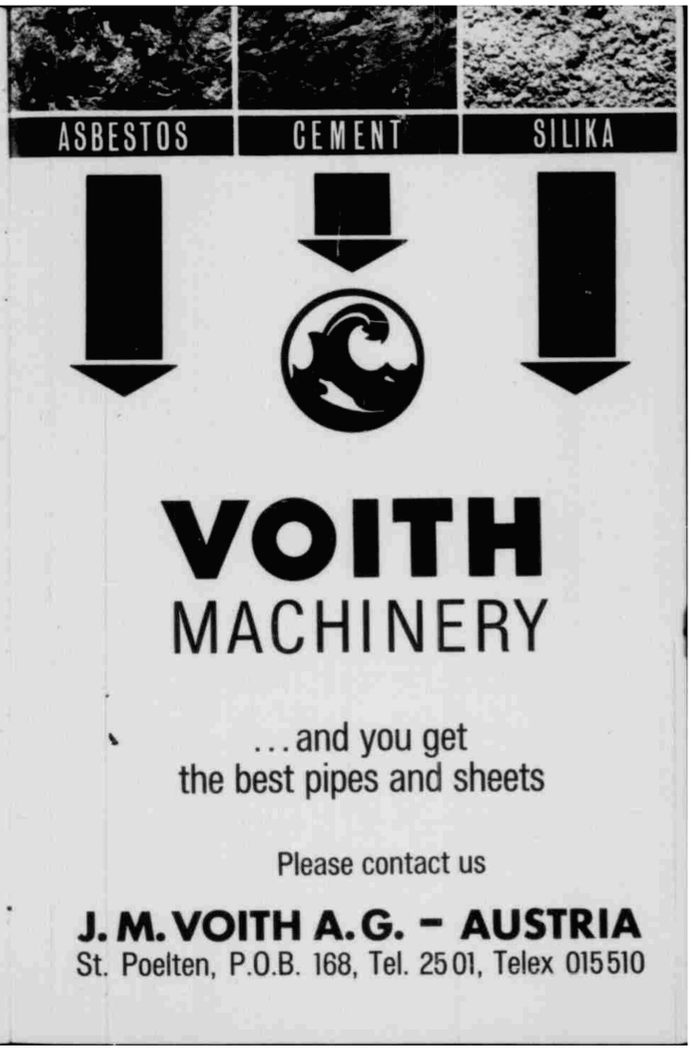
(Figures from U.S. Bureau of the Census)

	Short Tons DEC. 1966	YEAR 1966
Unmanufactured Asbestos:		
Amosite, Crude, India	..	2
Mozambique	..	80
South Africa	920	23,699
United Kingdom	..	25,422
Crocidolite (Blue), Crude, Australia	..	300
Bolivia	..	3
South Africa	1,912	26,993
United Kingdom	..	2
Chrysotile, Crude, Canada	..	151
Finland	..	98
Mozambique	..	228
Rhodesia	20	465
South Africa	196	5,984
United Kingdom	..	16
Yugoslavia	..	3,629
Zambia	..	1,304
Chrysotile Spinning Fibers, Canada	1,703	16,309
Mozambique	..	25
South Africa	25	530
Yugoslavia	..	813
Chrysotile, Other, Canada	36,254	610,273
Italy	..	2
Mozambique	..	50
Portugal	..	10
Rhodesia	10	10
South Africa	..	3,500
United Kingdom	..	20
USSR	..	98
Asbestos, Other Canada	2,059	27,375
Finland	286	2,465
Italy	..	2
Mozambique	..	72
Rhodesia	..	125
South Africa	..	1,261
United Kingdom	12	330
	43,397	751,646

December 1966 valued at: $ 4,336,806

Year 1966 valued at: $73,099,297

Manufactured Asbestos Goods:	DECEMBER 1966	
A.C Pipes, Tubes & Fittings	Lb 2,553,631	$ 123,812



Asbestos-Cement Articles, Other	Lb	948,159	115,333
Asbestos Yarn, Sliver, Rope & Other .		..	134,252
			$ 373,397

YEAR 1966

A-C Pipes, Tubes & Fittings	Lb	55,661,354	$2,591,114
Asbestos-Cement Articles, Other	Lb	16,680,714	1,973,548
Asbestos Yarn, Sliver, Rope & Other		..	2,326,775
			$6,891,437

Exports From U.S.A.

(Figures from U.S. Bureau of the Census) — NOVEMBER 1966

Unmanufactured Asbestos:

Crude & Spinning Fibers	s.tons	64	$ 10,995
Non-Spinning Fibers	s.tons	2,446	350,970
Waste & Refuse	s.tons	2,624	188,583
		5,134	$ 550,548

Manufactured Asbestos Goods:

A-C Shingles & Clapboard	Lb	943,610	$ 81,414
Other A-C Articles	Lb	377,500	73,535
Gaskets & Packing	Lb	452,619	391,361
Textiles & Yarns	Lb	162,567	117,963
Mfrs other than Friction Materials		..	350,237
Clutch Facings, including Linings	No	185,835	147,858
Brake Linings	Lb	732,865	488,701
			$1,651,069

South Africa Exports—THIRD QUARTER 1966: 58,414 short tons of asbestos were exported, valued at R6,672,240 (Amosite—21,312, R2,109,312; Chrysotile—5,380, R403,917; Cape Blue—29,381, R3,861,774, Transvaal Blue—2,341, R29,237). (Department of Mines, Johannesburg)

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LAKE ASBESTOS

ASARCO
A subsidiary of American Smelting and Refining Company

Exports From Canada

(Published by Dominion Bureau of Statistics) NOVEMBER 1966

Unmanufactured Asbestos: Short Tons

	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
United States	..	1,304	10,930	31,392
United Kingdom	..	586	6,219	6,072
South America	..	3	4,713	1,069
Central America & Mexico	..	30	2,288	253
Europe	2	793	15,345	8,413
Japan	2	118	2,751	6,858
Other Countries	..	376	9,253	3,418
	4	3,210	51,499	57,475

Total Unmanufactured Asbestos—112,188 Valued at—$13,959,000

Manufactured Asbestos Goods:

Asbestos Brake Linings & Facings	$ 18,000
Asbestos-Cement Building Materials	75,000
Asbestos Basic Products, Other	30,000
	$ 123,000



Phenolic Resins

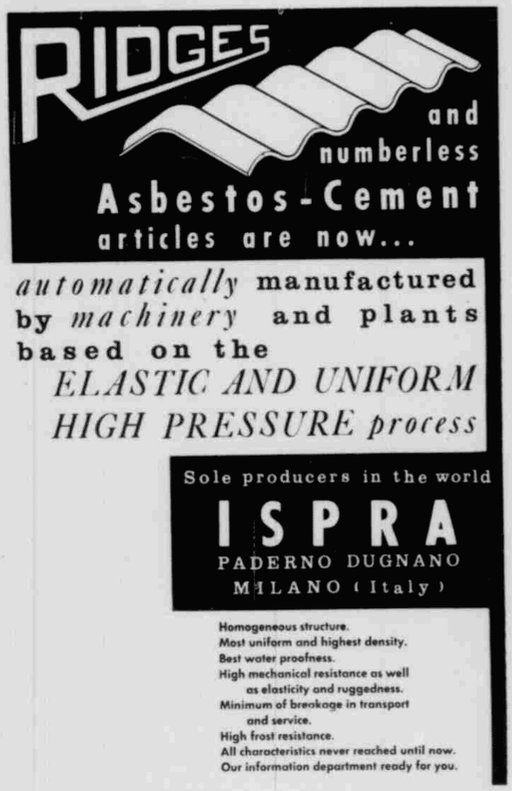
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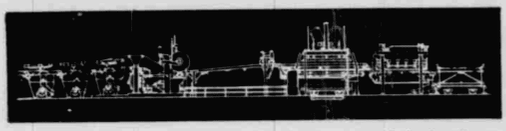
HAPPY BIRTHDAY

Alfred G. Sinclair, President, Canadian Johns-Manville Company Limited, Port Credit, Ontario, Canada, April 15.
Philip A. Meyer, Vice President, Asbestos Fibre Division, Nicolet Industries, Inc., Florham Park, New Jersey, April 16.
M. T. Voiles, Manager, Supradur Manufacturing Corporation, Wind Gap, Pennsylvania, April 21.
E. A. Boadway, Chairman of the Board, Carey-Canadian Mines Limited, East Broughton Station, P.Q., Canada, April 23.
J. Stokes Clement, Vice President & General Manager, Sandura Division, The Ruberoid Co., New York City, April 23.
Joseph G. Hall, Vice President-General Manager, Building Products Division, The Ruberoid Co., New York City, April 24.
Carl Resnikoff, Assistant Vice President-Sales, Floor Covering Division, The Ruberoid Co., New York City, April 25.
Edward R. Stevens, President, Baldwin-Ehret-Hill, Inc., Trenton, New Jersey, April 25.
W. Lindsay Wylie, Vice President & General Manager, Fibers and Textile Division, Uniroyal, Inc., New York City, April 26.
J. Carroll Johnston, President, Atlas Asbestos Company, North Wales, Pennsylvania, April 28.
Robert D. Bradford, President, American Smelting & Refining Company, New York City, April 29.
Merlin W. Simon, Executive Vice President, Sprinkmann Sons Corporation, Milwaukee, Wisconsin, April 30.
Richard H. Jaffer, President, York Insulation Company, Inc., Hillside, New Jersey, May 1.
George O. Hart, Jr., Vice President, Kelley Asbestos Products Company, Kansas City, Missouri, May 2.
Guy George Gabrielson, Jr., President, Nicolet Industries, Inc., Florham Park, New Jersey, May 4.
W. S. Cowell, President, Ferodo (Canada) Limited & Albion Asbestos Packings (1959) Limited, Montreal, Canada, May 5.
J. William Duncan, Vice President for Industry Relations and Trade Sales, National Gypsum Company, Buffalo, New York, May 8.
F. Parker Smith, President, Bell Asbestos Mines Ltd., Thetford Mines, Canada, May 10.
C. R. Elliott, Vice President & Secretary-Treasurer, Cassia Asbestos Corporation Limited, Toronto, Canada, May 11.
R. B. Todd, Director, Atlas Asbestos Company, Montreal, Canada, May 11.
Frank C. Waters, Marketing Director, Wunderlich Limited, Sydney, N.S.W., Australia, May 12.

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

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shingles **on machines of**

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Asbestos Corporation 1966 Annual Report—The 41st annual report of Asbestos Corporation Limited and its subsidiary companies has been submitted. For the year 1966, sales amounted to $39,166,628, which compares with the 1965 figure of $33,232,846. Net income for the year, at $5,135,055, was 37% higher than 1965's figure of $3,736,028. Ore milled reached the total of 8,091,000 tons in 1966 against 7,070,000 in 1965. At the Asbestos Hill project, preproduction, development and construction costs totalled $13,178,224 as of December 31st, 1966.

J-M 1966 Annual Report—Johns-Manville Corporation's sales for the year 1966 were $512,496,000 compared with $480,180,000 in 1965. Net earnings were $38,038,000 against $34,134,000. All twelve divisions operated profitably at higher volume. Additions to J-M properties, improvements and replacements, including capital expenditures for new facilities came to $28,278,000 in 1966 compared with $21,231,000 in 1965.

Increased customer demand and company use of J-M raw materials resulted in record shipments in 1966, up 13% from the 1965 level. Products containing asbestos, diatomite or perlite accounted for 44% of the 1966 sales volume. Asbestos fiber sales increased 22% over 1965 levels. This reflected the world-wide demand for this vital material for asbestos-cement sheet, pipe and other building and industrial products.

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ASBESTOS STOCK QUOTATIONS

Close—March 31, 1967

Abex	32¼	Flintkote (4½ pfd)	84
Abitibi	*$11.25	Garlock	16⅝
Advocate	*$3.10	Johns-Manville	57½
Asarco (3a)	63⅜	Natl Gypsum	40¾
Carey	40⅞	Natl Gypsum (pfd)	87
Cassiar	*$16.00	Patino	*$9.40
Certain-teed (com)	20	H. K. Porter	91½
Certain-teed (pfd)	20⅜	Raybestos-Manhattan	59⅛
Fibreboard	34	Ruberoid	31¼
Flintkote	22¾	Unarco	10¼
Flintkote (4 pfd)	78½	Uniroyal	42¼
		Uniroyal (pfd)	154½

*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 February 14th through March 7th, 1967.

3,304,197—Composition Characterized By Uniformly Distributed Inorganic Additives, F. L. Pundsack & G. P. Reimschussel (assigned to Johns-Manville Corporation, New York City), February 14, 1967.

3,305,519—Friction Elements and Method of Making The Same, S. B. Twiss & E. J. Sydor (assigned to Chrysler Corporation, Highland Park, Michigan), February 21, 1967.

3,307,617—Method in the Manufacture of an Exchanger Packing and Exchanger Packing Manufactured According to Said Method, C. G. Munters, March 7, 1967.

3,307,969—Friction Material, R. G. Quinn (assigned to Johns-Manville Corporation, New York City), March 7, 1967.

3,307,989—Roofing Product and Method of Application, N. P. Harshberger, March 7, 1967.

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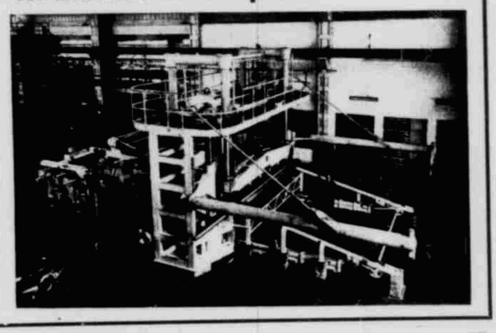
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ARIZONA— Per Ton of 2,000 lbs., f.o.b. Globe, Arizona

(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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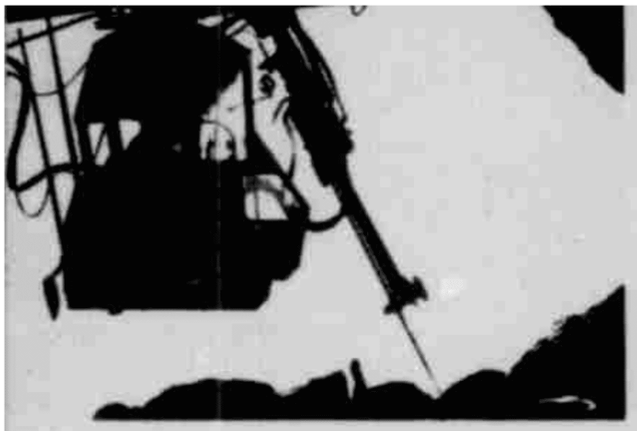
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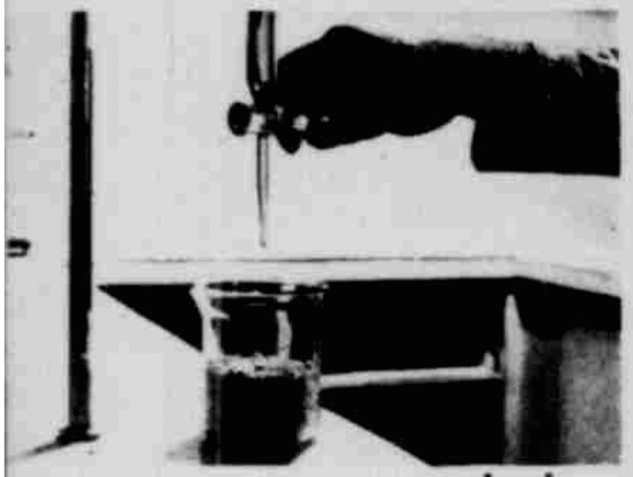
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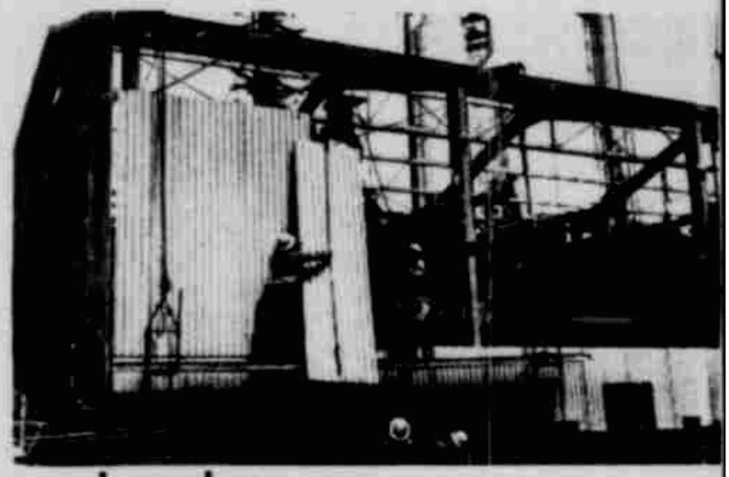




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