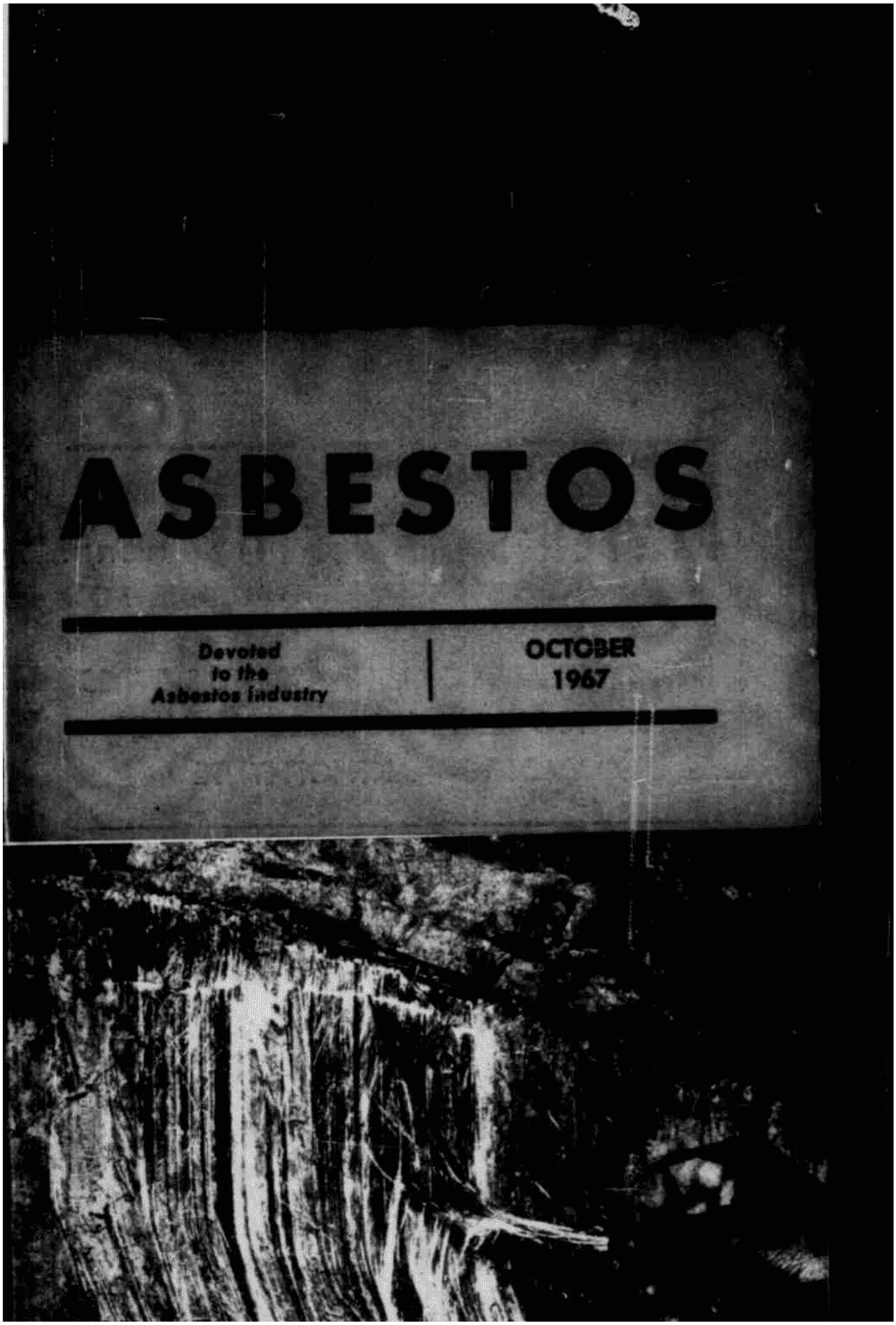

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ASBESTOS

VOLUME 49 OCTOBER 1967 NUMBER 4

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The Importance of Shorts & Floats in the Asbestos Industry

By: W. Noel Reakes

(Mr. Reakes is retired technical service and merchandising manager for National Asbestos Mines Limited.)

Canadian asbestos shorts and floats grades classified as Group 7 are an important part of most asbestos mining companies' production program depending on the percentage of this type of ore in their asbestos deposits.

The percentage of Group 7 grades produced from the mill ore varies from 15% to as high as 80%. During the period 1948-1959 the average percentage of production of asbestos shorts was approximately 43% of the total asbestos production or shipments, whereas since then it has dropped about 4%.

The principal reasons for this reduction being the lesser amount of fibre being used in the thinner type of flooring and the improvements made in the quality of the fibres by reducing some of the so-called "fines" content.

It is possible that the reduction in consumption would have been greater were it not for the new uses being found through the increasing recognition of their value in industry. To some people, asbestos means the longer fibres, such as are used in spinning processes and allied products. Those who perhaps know the frayed ends of an iron cord contain some asbestos as an insulation little realize that the floor tile they walk on, the acoustical ceiling, or the automobile undercoating may contain a goodly percentage of the shorter grades of asbestos fibres known as Asbestos Shorts. These shorter fibres are to be found in many of the 3,000 uses of asbestos, the largest of which is the flooring industry.

While asbestos shorts may indicate to some one length or grade of asbestos, they are actually divided into 7 gradations, namely 7D, 7F, 7H, 7K, 7M, 7R, and 7T, each run having successfully shorter fibre lengths and higher fines content along with the two classifications of the air floated fine asbestos called Asbestos Floats, 7RF and 7TF.

The asbestos shorts are the result of separating and collecting the shorter fibres by screening and other processing in the mill proper. The asbestos floats, however, being of much

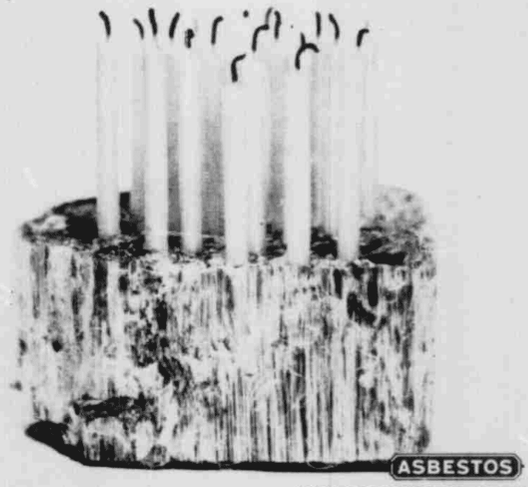
We've been the largest independent producer of chrysotile asbestos for 92 years – on the strength of our fibre

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In this, our Country's Centennial Year, we can look back on almost a century of growth that has made Asbestos Corporation Limited the largest independent producer in the free world. Today, our 4 plants produce all grades of asbestos from crude to the shortest fibre.

And the asbestos that starts down in our mines ends up in your textiles, asbestos cement products, brake linings, acoustic tiles, or floor covering. You'll find ACL asbestos almost everywhere . . . in consumer appliances, in building materials, even in paints, plastics and rubber. Right now modern laboratory trained technicians are looking for new and exciting ways of producing and applying asbestos.

Asbestos Corporation Limited, proud of its years of growth and service to industry, looks to the future. If you need any grade of chrysotile asbestos fibre, we have it.



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Thetford Mines, Quebec, Canada

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finer nature and particle size, are obtained as airborne particles of fibrous asbestos or fine powder inherent in the air streams in the various aspirating hood pipe line systems situated over the mill screens. The separation of the asbestos particles from the air is made with bag or other type filters.

These asbestos shorts are further divided into several varieties of each classification such as 7D, 7R, etc. The development over the years has resulted in many of the grades having different qualities, thus a producer might have anywhere from 1 to 5 or more types of a 7R grade, each with its own peculiar range of values. These values can include crudiness, fines, wet volume, absorption, and other characteristics best suited for a particular need. Thus, quality is somewhat relative to the end use of the asbestos.

Of the 423,000 tons of asbestos shorts (excluding floats) shipped in 1966, there was approximately 15% each of 7D, 7M, and 7T grades, 44% of 7R's and the balance, 7F, 7H and 7K grades. The greatest use of the 7R grade is in the flooring industry which has consumed as much as 170,000 tons in North America in a year.

Other significant uses for these asbestos shorts or floats are: plastics, insulating cements, caulking and roofing compounds, friction materials, asphalt mastics, adhesives and coatings, millboard and plasters, etc.

LEAD/ASBESTOS BOARD—When designing a prototype airport control tower for the Federal Aviation Agency, reduction of airborne noise took top priority. Stringent requirements for minimizing effects of airborne noise on tower personnel resulted in the use of sheet lead in roof components. Thus far, over 50 tons of lead have been used in the towers based on the original design. The roof section of the structure consists of a 2-inch layer of insulation on top of the steel roof deck followed by the lead and an asbestos board underlayment for the neoprene roofing surface. About 35 units will be used before the project is completed. They are the first prefabricated structures ever built specifically for aircraft control operations.

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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Woven Asbestos-Polyester Mitts

A producer of precision investment castings switched to woven asbestos-polyester mitts for foundry workers, when tests showed that they would outlast other types by four times at intermittent heat of 2,000°F.—and cost 30% less.

Arwood Corporation, at its Groton, Connecticut, plant, specializes in the manufacture of precision castings for aircraft, missile, ordnance and electronic industries. This process involves the use of wax patterns which are surrounded by ceramic material, then fired at high temperatures to form the molds into which white hot metal is later poured. After the ceramic mold has been baked in an oven at 2,000°F., to burn out the embedded wax pattern, it is transferred by hand from tongs to a table having a sand bed. Handling is necessary to position the mold firmly upright on the layer of sand. Molten alloy at 3,150°F. is then poured into it and allowed to cool before the shell mold is broken away. The hand operation (grasping the hot mold and placing it on the table) takes from 2 to 3 seconds. It requires mitts to protect the foundry worker's hands from severe heat.

In 1964, Arwood made evaluation tests on three types of heat-resistant safety mitts for this operation. The type which proved to have much greater serviceability was made by the *Glofane Company*, Whitestone, New York, of Polybestos woven asbestos-polyester cloth, produced by the Asbestos Textile Division of *Raybestos-Manhattan, Inc.* The tests, and subsequent service over two years, showed that a foundryman could use a single pair of Glofane Polybestos mittens for a full work-day, during which he handles about 300 white hot ceramic shell molds. What is more, the new mitts are 30% cheaper than those previously used which only lasted between 1 and 2 hours.

Polybestos fibers, blended with asbestos fibers to make R/M Polybestos cloth, are not materially damaged by temperatures up to 500°F. This is 250°F. more than could be achieved with the usual blend of asbestos and cotton. Although Glofane Polybestos mitts are used in heat 5 times above the designed limit, they afford full protection to a foundry worker's hands throughout the day.

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Amphibole Mineral Fibers—What Purpose?

Crocidolite (Blue) asbestos and Amosite asbestos are the two most important fibrous forms of the mineral Amphibole. However, these types of asbestos are very much less known and their properties much less understood than the more commonly used Chrysotile asbestos. In many applications Crocidolite or Amosite is blended with Chrysotile to achieve optimum results.

Following is a quick summary of the principal reasons for specifying Amphibole fibres and their more important properties:

Strength—The greater strength of Blue Crocidolite asbestos (the strongest of all natural mineral fibres) is the reason for its increasing demand in high pressure asbestos-cement pipe and in plastic reinforcement.

Resilience—Amosite asbestos has more fibre resilience than any other form of asbestos. Blue Crocidolite is also high in resilience. The resilience or springiness of the fibres results in lower bulk density, which is a principal reason the Amphibole fibres are so widely used in thermal insulation products.

Filtration—Both Crocidolite and Amosite are recognized as being very fast filtering fibres in wet processing, as in asbestos-cement product manufacture. This property of rapid water release enables very high machine speed and faster production.

Fibre Length—Amosite and Blue Crocidolite fibres are generally longer than other types of asbestos. These fibres are available in a range of gradings with fibre lengths averaging from 1/8" to 4", or more. Fibre length can be purchased at lower cost in Amosite and Crocidolite than for other types of asbestos.

Stability—The Amphibole fibres are extremely stable in respect to heat, moisture resistance, weathering, and to most forms of chemical attack. Blue Crocidolite has the highest general chemical resistance of all mineral fibres, and Amosite only slightly less.

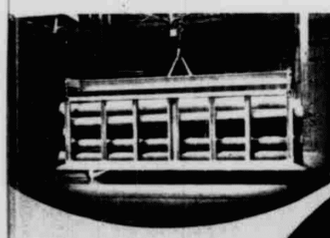
(Reprinted from Asbestos News, March 1967, North American Asbestos Corporation).

AUTOMATIC PLANTS TO MAKE SOCKETED PIPES

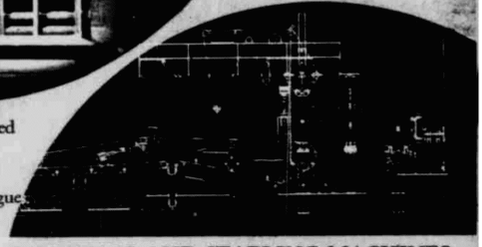


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Chrysotile's Superior Tensile Strength

The superior tensile strength of chrysotile asbestos fibers is but one of the advantages provided by the material as used in Raybestos-Manhattan's asbestos-reinforced plastics. Laboratory and simulated field tests conducted by research and product engineers at R/M show that the tensile strength of the asbestos fibers as compared to the strength of such other fibers as glass, silica, nylon, and rayon, is far superior; it is at least twice that of glass and almost eight times that of nylon.

The reinforcing asbestos provides extremely low thermal conductivity and diffusity, uniform ablation, excellent dimensional stability and high resistance to thermal shock in the many reinforced plastic products supplied to the aerospace industry.

The fineness of the asbestos fibers also permits a dense structure with maximum surface area for resin adhesion. The fibers as used for reinforcing in RPD Pyrotex® provide an extremely high heat-insulating value and are most beneficial for high-temperature applications. RPD Pyrotex is a composite material, available as asbestos-reinforced felts, tapes, mats and molding compounds.

PORTER BULLETINS—A series of nine new bulletins presents a variety of information about H. K. Porter Company, Inc.'s Thermoid line of asbestos textile products. Each bulletin describes specific products, constructions, applications, and illustrations. Also included are charts with applicable information such as thickness, weight, strength, and sizes. The bulletins cover the following individual asbestos textile products: cloth; yarns, cord and thread; cloth to military specifications; tapes; conveyor belting; solid lap and roving; safety cloths; and, rope, wick and tubing.

BS 569:1967—Asbestos Cement Rainwater Goods, has been revised by the British Standards Institution and is now available.

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Merger—National Gypsum/Congoleum

The directors of National Gypsum Company and Congoleum-Nairn, Inc. have ratified and confirmed the action of Colon Brown, chairman and president of National Gypsum and Frederick H. Cook, chairman and president of Congoleum in reaching tentative agreement in principle for the merger of Congoleum into National.

The directors of the two companies authorized their respective officers to prepare a plan and agreement of merger to be presented for action by the respective boards at special meetings to be held October 19th, 1967. They were also authorized to direct the preparation of proxy soliciting material for use in obtaining the necessary approvals of stockholders of the two companies on the merger. It is presently contemplated that special meetings of the stockholders of the companies will be held in the latter part of December, with the view toward consummating the merger on or about December 31st, 1967.

HOLMES UNIBLOK—A new pamphlet describing Holmes Uniblok thermal insulation for a wide range of industrial applications at temperatures to 1,900°F. is available from Holmes Insulations Limited, Canada. A unique combination of mineral wool, Amosite asbestos fibre, and other inorganic materials, Uniblok is available in sheets up to 24″ x 36″ and thicknesses from 1 inch to 4 inches. The pamphlet lists physical properties, conductivity and gives instructions for applications, weather proofing, etc.

MMG (The Munich Fair and Exhibition Company) has purchased BAUMA (the International Construction Machinery Fair) and negotiations were concluded on August 17th, 1967 by the ratification of a purchasing contract. The object of this contract was the conveyance of the property in the shares, the offices and registered BAUMA trademark from BAUMA to MMG. Thus, MMG is now entitled to plan and carry out the Fair in its own name. In 1969, the Fair will be held, for the first time, on the Munich Fair Grounds.

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Whatever your asbestos needs, check first with National Asbestos Mines, Thetford Mines, P.Q., Canada. Or write to National Gypsum Company, Buffalo, N.Y. 14202.

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ASBESTOS FIBRES

H. E. Humphreys, Jr.—Deceased

Harry Elmer Humphreys, Jr., age 66, retired President and Chairman of Uniroyal, Inc., died of a heart attack, in White Plains, New York, on September 3rd, 1967. He joined Uniroyal in 1938 and was elected Chairman of the board of directors in 1951, the position he held until his retirement on January 31st, 1965, although he remained as a member of the board of directors and the executive committee.

In October 1949, during Pennsylvania Week, the Philadelphia Chamber of Commerce presented Mr. Humphreys with the Commerce and Industrial award.

Mr. Humphreys was very well-known and respected by those in the Asbestos Industry and will be greatly missed by his many friends and associates.

DIRECTORY OF UNITED STATES STANDARDIZATION ACTIVITIES, by Joan E. Hartman, provides a descriptive inventory of the fields, products and services of nearly 500 organizations involved in standardization activities in the United States—the Federal Government, standards associations, and technical and trade associations. A comprehensive index lists important product areas such as textiles, paper, leather, ceramics, plastics, electrical equipment, rubber, and cement. Those interested or engaged in national standardization activities, as well as engineers, manufacturers, purchasing agents, and specification writers, will find this directory a useful reference. Effective use of standards results in increased industrial production and a higher quality of goods produced. (National Bureau of Standards Miscellaneous Publication 288; issued August 1, 1967; 276 pages; $2.00 — foreign remittances must be in U.S. exchange and should include an additional one-fourth of the publication price to cover mailing costs).

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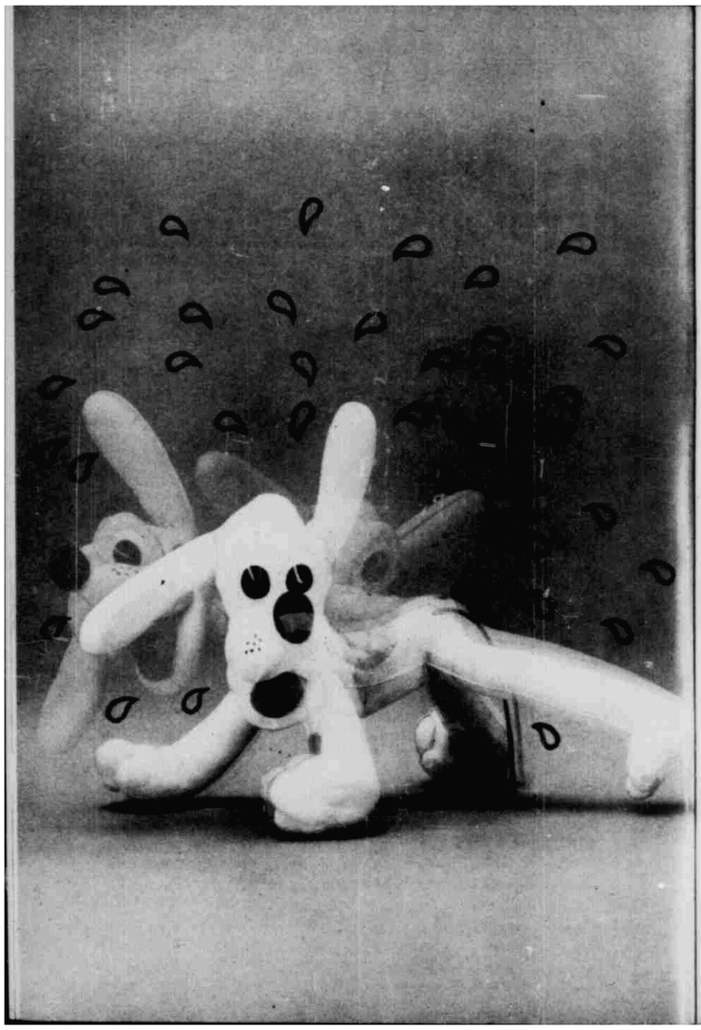
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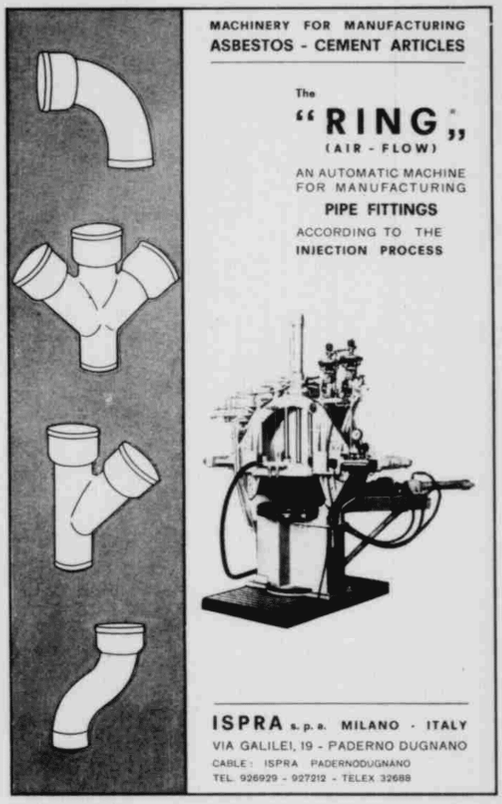
Automobile Sales

JULY 1967 motor vehicle factory sales from plants in the United States totaled 530,830 (passenger cars—425,549; trucks and buses—105,281). The total for July 1966 was 625,319. The total for the first seven months of 1967 was 5,423,794 compared to 6,480,731 for the same 1966 period.

Motor vehicle factory sales from plants in Canada totaled 44,474 for July 1967 compared to 54,881 in July 1966.

NORAMITE AMOSITE MAT—For a number of years, *Cape Insulation Limited* has been successfully marketing the *Noramite* range of asbestos reinforcing materials based on *crocidolite* (*blue*) asbestos fibres. These products have a high modulus and excellent chemical resistance. Now, after careful development work both in the laboratory and in production, the company is offering a similar range of asbestos reinforcing materials based on *Amosite* asbestos fibres. Amosite fibre has a lower tensile strength than Crocidolite fibre but the Young's modulus and chemical resistance is very similar in both types. Amosite fibre's light fawn color, as opposed to the dark blue color of Crocidolite, makes it much easier to detect air bubbles in the laminate and consequently lay-up can be faster. The price of Noramite Amosite Mat is directly competitive with glass fibre chopped strand mat. When it is considered that approximately half the amount of Noramite Amosite Mat is required in the laminate compared with glass fibre mat to achieve the same stiffness, the consequent cost savings are remarkable.

FIBROUS SILICATES—For those who have not read this very comprehensive and informative booklet by Dr. A. A. Hodgson, head of the fibre laboratory of Cape Asbestos Fibres Limited, copies are still available. The booklet covers an introduction, mining and applications of asbestos, its structural, chemical and physical properties, thermal decomposition and surface properties.



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Building

AUGUST 1967 Dodge Index of construction contract value climbed to a new high of 165. The total value of contracts for future construction reached $5,103,750,000, 18% above last year's amount, with sizeable gains in all construction categories. August's strong showing is further evidence of the steady improvement that has been taking place in construction during 1967. Starting at a level almost 20% below last year, the cumulative comparison for 1967 has improved with each succeeding month, and now things have just about evened out.

Residential building contracts totalled $1,912,112,000, 26% above August 1966. Both single-family housing and apartments showed strong gains.

Nonresidential building strength was concentrated in only two categories—office buildings and hospitals. Gains of more than 50% in these two areas boosted the month's total contract value to $1,846,605,000, 7% ahead of last August. Industrial buildings, stores, and public buildings all slipped below year-ago values, but educational construction contracts held about even.

Nonbuilding construction contract value amounted to $1,345,033,000, a 25% gain over the previous August's total. Highway construction, still responding to the restoration of Federal funds, advanced 26%. Sewer systems and water supply projects scored a 41% increase, and several large dam and reservoir jobs boosted the total to nearly double that of last August. Contracts for utilities construction declined 24%.

FIRST EIGHT MONTHS 1967: Residential $12,873,001,000 down 4%; Nonresidential $13,471,710,000 up 1%; and, Nonbuilding $8,836,686,000 no % change—total construction $35,181,397,000 down 1% from the first eight months of 1966. (F. W. Dodge Company, a division of McGraw-Hill, Inc.)

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CARRIER MANUFACTURING COMPANY has renamed its industry-renowned Whirlpool Mixer and its entire line of Vibrating Hoppers. The new *Swirl-A-Flow* line consists of three basic members: whirlpool-type hopper, standard type gyrated hopper, and heavy-duty type gyrated hopper. The *Swirl-A-Mix* Blender works entirely on vibrating principles, is self-cleaning and dust-tight, and can operate at 100% capacity on unbelievably low horsepower. Carrier engineers special equipment tailored to unique customer requirements and also manufactures the controlled-rate vibrating feeder, Adjust-A-Flow, the Vibrating-Screw Conveyor, etc.

SCOTT LABORATORIES, INC. has announced a new, improved "F" series of acid-washed *asbestos filter pads*. Eleven different porosities are available. These pads have been designed especially for filtration of wines, spirits, juices, pharmaceuticals, cosmetics, chemicals, and other liquids. Advantages for the new "F" series pads include: acid-washed freedom from calcium, copper and iron pick up; activated asbestos for adsorption of sub micron organic materials; higher performance/flow rate ratio; high wet strength; superior uniformity; and, lint-free, scuff-resistant backs. Several of these advantages have been made available only through use of the especially designed automatic equipment recently installed by Scott. *Bulletin FP-7*, describing these pads, is available upon request.

ASBESTOS/OIL POLLUTION—Asbestos may one day prove an answer to the problem of oil polluting the oceans of the world. Scientists believe the best way to remove large-scale oil pollution, which presents a hazard to marine and human life, is to burn the oil slick off the water before it reaches land. A French scientist claims "bombing" oil slicks is like trying to light an oil lamp with a firecracker. The answer, he believes, is to manufacture miles of asbestos rope, soak the woven fibre in kerosene and ignite the ropes from a ship. Great bundles of these asbestos wicks (a giant version of those already used in cigarette lighters) could be used.

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MARKET CONDITIONS

General Business.

General business continues good although the anticipated fall upturn has not yet become as vigorous as was expected. The work stoppage at Ford Motor Company shows no signs of a quick settlement and this has resulted in sharp cutbacks on the part of that company's many suppliers. It seems certain that the ultimate settlement, which will set the pattern for the entire industry, will be definitely inflationary, that is, beyond the "official" limits considered non inflationary by Government economists. There is no doubt that inflation is a serious threat to the stability of the whole economy.

The problem is whether it can be prevented or ameliorated by the proposed temporary tax increase on individual and corporate incomes or whether some drastic cuts in Government spending would better serve the purpose. As we see it, the tax increase could lead to cutbacks in spending for both consumer and capital goods and, in view of already narrowing corporate profit margins, could actually force manufacturers to raise prices, which is just what we are trying to avoid. It will be interesting to see which course is selected and, in the long run, whether it achieves the desired result.

Asbestos—Raw Material.

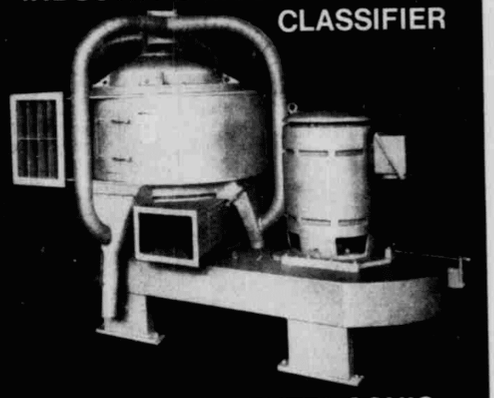
Quebec asbestos fibre shipments for the Industry during August 1967 totalled 109,070 tons, a reduction of 21,517 tons or approximately 16% from the same period last year.

Year to date shipments at 767,892 tons are running 75,888 tons or approximately 9% lower than the same period in 1966.

Asbestos—Manufactured Goods.

Asbestos Textiles. The present market for asbestos textiles is strong. Based on the current order position, there is good reason to expect that fourth quarter sales of asbestos textiles will be maintained at the high level of the year to date.

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Asbestos Brake Lining. The market for friction materials has been strong and very steady throughout the summer months. This situation is expected to continue, but demand will probably decrease in volume during the last two months of this year.

Asbestos Paper & Millboard. There has been some slackening of demand for these materials during the summer months; however, an increase in volume of demand is anticipated during the fourth quarter. Year-end reports should show a normal volume of business.

Asbestos Felt. Amount of sales for asbestos felt is high and a good volume is expected for the year. There is little hope, however, of prices becoming firm.

Flat. Volume of business is running ahead of last year for heavy asbestos pigmented cement sheets which are used for laboratory furniture table tops and fume hoods. However, like most of the construction industry, amount of sales is slow for the thinner asbestos-cement sheets.

High Pressure Insulation. Following a slight downward trend during mid-summer, this market is now on the increase and is consistent with the past year's performance. Demand is expected to continue to be strong for the balance of 1967.

Asbestos-Cement Shingles, Roofing & Siding. There is a definite up-swing in the amount of orders for siding, but the demand for roofing is still lagging. Volume of business for the year, as a whole, should be good.

Asbestos-Cement Pipes. The market activity for asbestos-cement pipes in the United States is somewhat stronger in the third quarter than it was during the first half of the year and is expected to remain fairly active for the balance of the year. Demand in 1968 is expected to be a little ahead of 1967. Government programs are a major stimulus in the public works markets (water and sewer) and the Viet-nam situation will continue to dictate the amount of spending in these sectors. Water and sewer pipe needs continue to grow beyond present levels of construction activity.

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

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R-M/AMERICAN CHAIN PROPOSED MERGER —On September 8th, 1967, Raybestos-Manhattan, Inc. and American Chain & Cable Company, Inc. jointly announced a plan for the consolidation of the businesses of the two companies. The plan was subject to final approval of the Boards of Directors and stockholders of both companies. However, on September 26th, William S. Simpson, president of R-M announced that negotiations for this possible merger were terminated, as the two companies were unable to agree on consolidation terms.

MARLEYDEK roofing sheet, after tests lasting eight years, is claimed to have received no maintenance and to have kept the roofs which it covered watertight. As a result, *The Marley Tile Company*, of Sevenoaks, Kent, England, is launching the material commercially. Marleydek is described as a flexible non-ageing vinyl with a backing of asbestos. It is said to adhere to virtually any structural roofing material and to be resilient enough to take up sub-structure movement.



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H. K. PORTER COMPANY, INC. has completed a new tape laboratory at the Quaker (Philadelphia, Pennsylvania) Works of its Thermoid Division. The laboratory has additional equipment, more space, and a finer control of temperature and humidity conditions. Its functions are research and development work on both new and existing products, quality control testing, feasibility analysis for changing materials and specifications, and pilot equipment use. The tapes are widely used for electrical, manufacturing, and mechanical requirements.

SOUND ABSORPTION—The National Building Research Institute, Pretoria, South Africa, has issued C.S.I.R. Technical Note No. X/BOU 112 on Sound Absorption, which was prepared by the National Physical Research Laboratory. It contains graphs and data on the physical properties that make a material suitable for absorbing sound and explains the three types of sound absorbers; panel resonators, frictional absorbers, and resonant absorbers.

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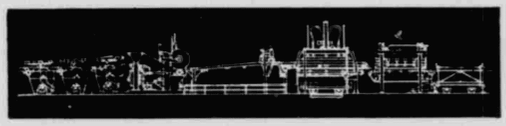
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Johns-Manville Asbestos Fiber Sales, Research and Engineering Center, Manville, New Jersey, U.S.A.

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ASTM A/C PROGRAMS REVIEWED—During the annual meeting of The American Society for Testing & Materials, Committee C-17 on Asbestos-Cement Products reviewed a proposed specification and a method of test for asbestos-cement panels with foam cores. The committee also reviewed a request for incorporating another standard pipe length in ASTM specifications, and turned the matter over to the proper subcommittee for study. Progress reports were given on several research projects, including a one-year exposure program for studying the color stability test, a study of the durability of color bulkheads at various sites, and a series of freeze and thaw tests.

INSULATION GUIDE—Index to ASTM and Government Specifications for Industrial Insulations has been compiled by the National Insulation Manufacturers Association. The new summary indexes the thirty ASTM, Military and Federal specifications covering the types and forms of industrial insulation currently supplied by NIMA members. It covers calcium silicate, diatomaceous silica, magnesia and mineral fiber insulations in the four forms used: pipe insulation; block and board; cement; and, blankets and felts. The accepted maximum temperatures of insulations indexed range to 1,900°F.

PART 2, 1967 FITTINGS OF BS 2760 (pitch impregnated fibre pipes and fittings for drainage below and above ground) has now been published by the British Standards Institution. The standard covers fittings made of pitch impregnated fibre, pitch impregnated asbestos fibre and polypropylene. (8/-each; postage 9d extra will be charged to non-subscribers)

SOLUTION STUDIES OF CHRYSOTILE, LIZARDITE AND ANTIGORITE, by G. T. Faust and B. S. Nagy, has been issued by the U.S. Department of the Interior as Geological Survey Professional Paper 384-B. Early work on solution studies of serpentine-group minerals is reviewed and interpreted. (20c—paper cover)



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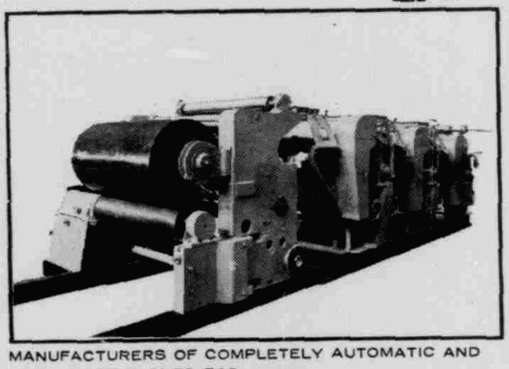
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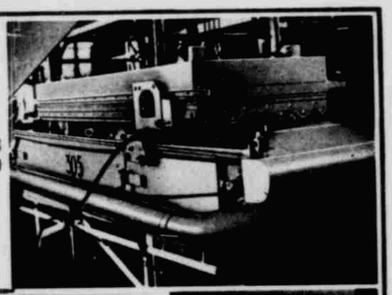
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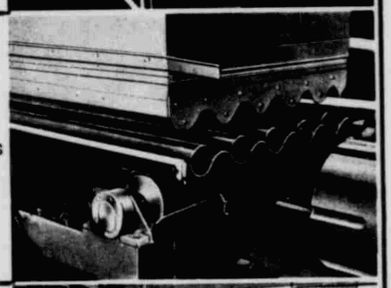
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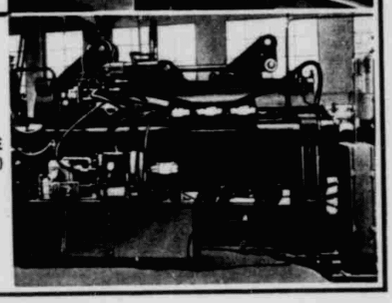
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IMPORTS & EXPORTS

Exports From U.S.A.

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

Unmanufactured Asbestos:			
Crude & Spinning Fibers	s.tons	93	$ 38,405
Non-Spinning Fibers	s.tons	579	76,703
Waste & Refuse	s.tons	2,051	175,700
		2,723	$ 290,808
Manufactured Asbestos Goods:			
A-C Shingles & Clapboard	Lb	2,595,920	$ 235,845
Other A-C Articles	Lb	2,119,846	249,049
Gaskets & Packing	Lb	460,720	467,568
Textiles & Yarns	Lb	133,756	124,656
Mfrs. other than Friction Materials			340,654
Clutch Facings, including Linings	No	271,757	244,016
Brake Linings for automotive use	Lb	462,628	351,382
Brake Linings, Other	Lb	161,434	144,883
			$2,158,053

Exports From Canada

(Published by Dominion Bureau of Statistics) — MAY 1967

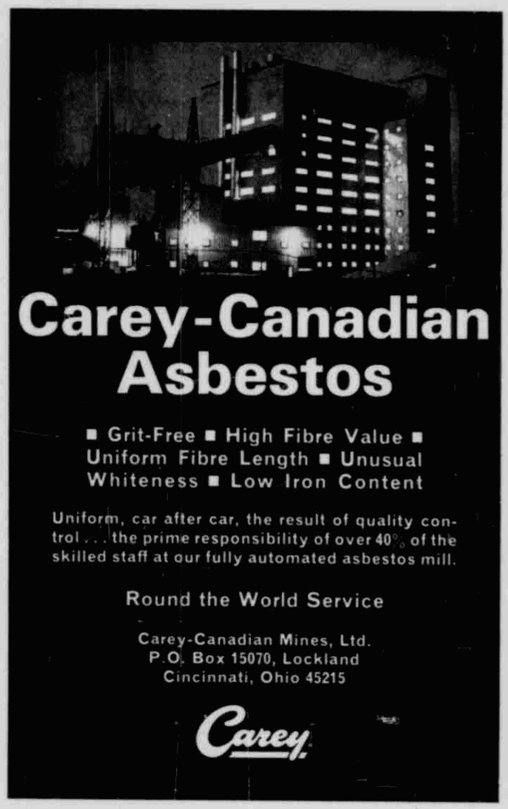
Unmanufactured Asbestos: — Short Tons

	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
United States	7	1,320	17,571	35,678
United Kingdom		220	8,629	6,177
South America		29	3,483	1,172
Central America & Mexico			2,319	621
Europe	3	749	14,653	7,347
Japan	20	289	2,379	7,626
Other Countries		748	10,670	3,880
	30	3,355	59,704	62,501

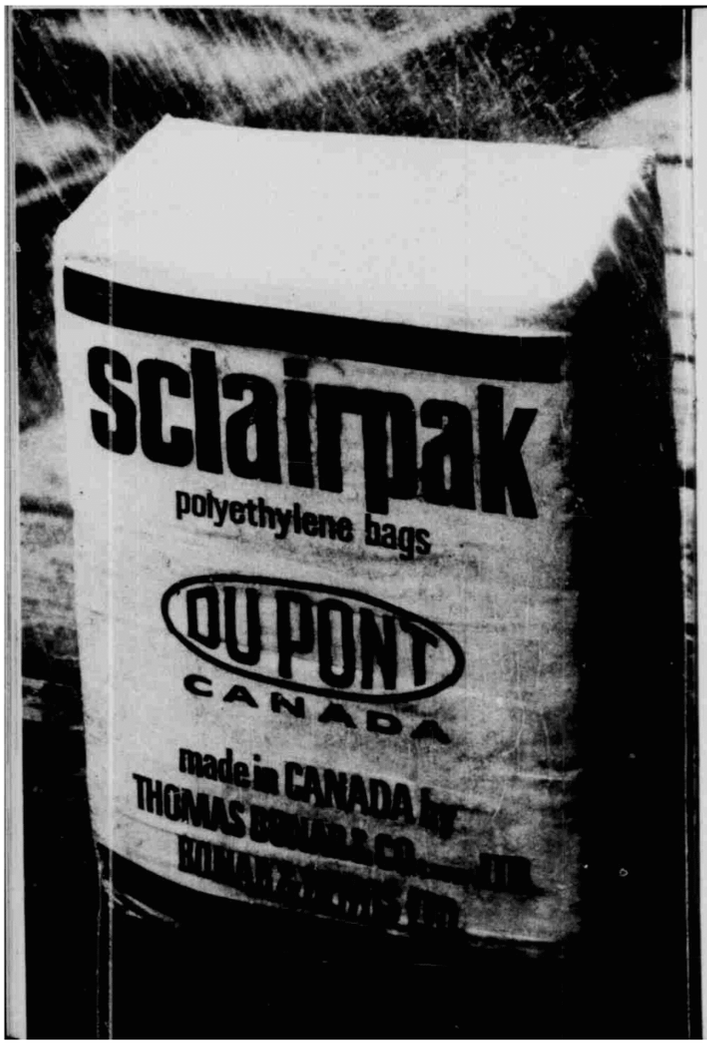
Total Unmanufactured Asbestos—125,590 Valued at—$16,059,000

Manufactured Asbestos Goods:

Asbestos Brake Linings & Facings	$ 97,000
Asbestos-Cement Building Materials	162,000
Asbestos Basic Products, Other	67,000
	$326,000



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INDUSTRY NEWS

HAPPY BIRTHDAY

Joseph N. Kuzmick, Vice President at Manhattan Rubber Division, Raybestos-Manhattan, Inc., Passaic, New Jersey, October 15.

David E. Kelley, President, Kelley Asbestos Products Company, Kansas City, Missouri, October 16.

William F. Reed, President & Treasurer, Asbestos Distributors, Inc., Port Chester, New York, October 17.

Irl W. Rose II, Director, Advertising & Sales Promotion, The Ruberoid Co., New York City, October 18.

Charles P. Miller, Treasurer, Scandura, Inc., Charlotte, North Carolina, October 20.

R. Dodds-Hebron, Executive Vice President & Production Manager, Bell Asbestos Mines Ltd., Thetford Mines, Quebec, Canada, October 22.

James C. Murphy, Vice President—Sales, Floor Covering Division, The Ruberoid Co., New York City, October 23.

Francis E. Dutcher, Vice President for Building Materials Divisions, Johns-Manville Corporation, New York, October 24.

John H. Steiner, Chairman of the Board, Supradur Manufacturing Corporation, Wind Gap, Pennsylvania, October 24.

James W. Liddell, President, Armstrong Contracting and Supply Corporation, Lancaster, Pennsylvania, October 26.

Richard W. Henry, Director, Sales, Industrial Insulations, The Ruberoid Co., New York City, October 27.

H. C. Morton, Vice President, Thermoid Division-Russell Works, H. K. Porter Co., Inc., Middletown, Connecticut, October 28.

H. R. Palmer, Vice President—Corporate Development, The Philip Carey Manufacturing Company, Cincinnati, Ohio, October 28.

Walter R. Foote, Vice President, Manufacturing, Floor Tile Division, The Ruberoid Co., New York City, October 30.

Max E. Meyer, Secretary, North American Asbestos Corporation, Chicago, Illinois, October 31.

John F. Corcoran, President, Chembest Division, Unarco Industries, Inc., Chicago, Illinois, November 2.

Kenneth T. Dawes, Vice President, Asbestos Corporation Limited, Thetford Mines, Canada, November 2.

Clark A. Bailey, Vice President for J-M Sales Corporation & General Sales Manager for J-M Pipe Division, Johns-Manville Corporation, New York City, November 3.

Antoinette Ozurovich, Secretary-Treasurer, Atlantic Asbestos Corporation, New York City, November 3.

Ernest S. Sprinkmann, President, Sprinkmann Sons Corporation, Milwaukee, Wisconsin, November 3.

Charles B. Purcell, President, Western Asbestos Company, San Francisco, California, November 4.

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William P. Barry, Assistant Secretary, Smith & Kanzler Company, Linden, New Jersey, November 5.
Dirk Salomons, Director and President of the Board, Asbestcementindustrie Asbestona N.V., Amersfoort, Holland, November 5.
Dr. R. J. Merrill, Vice President & General Manager, Carey-Canadian Mines Ltd., East Broughton Station, Canada, November 6.
C. W. Hanslip, Chairman & President, Standco Industries, Inc., Houston, Texas, November 8.
Dr. Richard Gaze, Director, The Cape Asbestos Company Limited, London, England, November 9.
Willis G. Sullivan, Secretary, Asbestos & Magnesia Materials Company, Chicago, Illinois, November 12.
Don L. Hinmon, Vice President for Industrial Divisions, Johns-Manville Corporation, New York City, November 14.
Karl V. Lindell, Chairman, Canadian Johns-Manville Company Limited, Asbestos, Quebec, Canada, November 14.

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

Regional Mineral Industry Review of North America (preprint from the 1965 U.S. Bureau of Mines Minerals Yearbook. 5c)—Combined total value of mineral products in United States and Canada amounted to $24,900-million in 1965, compared with $23,600-million in 1964; thus representing a rise of from 3.4% to 3.5% of gross national product, and from 4.2% to 4.3% in output value. 1965's gains in value of nonmetallic minerals (including construction materials) and fuels amounted to 6.4% and 3.4%, respectively. North American contribution to world asbestos production was 1,366,059 metric tons in 1965 (71.2% of the Non-Communist world; 41.9% of the World production). Consumption of asbestos in North America during 1965 was 782,000 metric tons—40.8% of Non-Communist world production.

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Asbestos in 1966 (annual mineral industry survey, U.S. Bureau of Mines)—United States production (sales) reached 125,928 short tons valued at $11,056,000. Exports and reexports (unmanufactured) amounted to 46,996 short tons valued at $5,763,000. Exports and reexports of asbestos products were valued at $21,963,000. Imports for consumption (unmanufactured) reached 726,459 short tons valued at $73,100,000. Apparent consumption amounted to 805,391 short tons. World production (preliminary figure) reached 3,350,000 short tons. This informative survey also includes data on domestic production, stockpile objective and Government inventories, U.S. imports for consumption by classes and countries, U.S. imports for consumption from specified countries by grades, South African production by varieties and sources, Canadian shipments by grades, and world production by country.

Asbestos Products Manufacturers 1965 (annual census of manufactures, Dominion Bureau of Statistics, Ottawa, Canada, Catalog No. 44-203, 50c)—Value of shipments and other revenue (manufacturing and non-manufacturing) of this industry amounted to $52.9 million. Shipments and other revenue resulting from the manufacturing activity of this industry totalled $46.2 million. Other revenue (non-manufacturing activity) totalled $6.6 million. The total cost of materials and supplies, fuel, electricity, etc. (total inputs) increased to $713,000. Total inputs represented about 41% of gross outputs (of own manufacture).

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The Mineral Industry of Angola, Mozambique, and Portuguese Guinea (preprint from the 1965 U.S. Bureau of Mines Minerals Yearbook, 10c)—No activity was recorded for asbestos in either Angola or Portuguese Guinea. The following statistics appear for Mozambique: 80 metric tons of asbestos were produced during 1965; 149 metric tons was the estimate for exports of asbestos during 1965 (principal destinations were United Kingdom, United States, and Rhodesia); 11 metric tons of asbestos were imported during 1964 (all from Portugal).

The Mineral Industry of Rhodesia, Zambia and Malawi (preprint from the 1965 U.S. Bureau of Mines Minerals Yearbook, 10c)—Southern Rhodesia: During the period January through September 1965, 117,372 metric tons of asbestos were produced and were valued at $17.5 million; and, 167,406 metric tons were exported which were valued at $30 million. Zambia: no statistics are given for the year 1965, but a total of 1,194 metric tons of asbestos is reported as imports (all from Southern Rhodesia).

The Mineral Industry of Bolivia (preprint from the 1965 U.S. Bureau of Mines Minerals Yearbook, 10c)—The preliminary figure of 7 metric tons (to Chile and the United States) was reported as the total exports of asbestos in 1965. Of the approximate total of 3,158 metric tons, 178 was the production figure for asbestos in 1965 (purchased by Banco Minero). During 1965, Bolivia's principal asbestos mine, the property of A. A. Wormald Asbestos Mining Company in the Chapare region of the Cochabamba Department, substantially increased its output of crocidolite. It was reported that the United States concern, Philipp Brothers Corporation, has contracted to market most of the Bolivian asbestos in the United States.

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MISSOURI, St. Louis
Harry A. Baumstark & Company

NEW YORK, Buffalo
Buffalo Solvents & Chemicals Corp.

NEW YORK, New York
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D.U. 1967 Prospecting Syndicate is a new syndicate which has been formed for the purpose of prospecting for minerals in the province of Quebec, Canada. One of the parties to the agreement is **Asbestos Corporation (Explorations).** The capital of the syndicate is $90,000 which has been contributed by the financing members.

The Mineral Industry of Basutoland, Bechuanaland, and Swaziland (preprint from the 1965 U.S. Bureau of Mines Minerals Yearbook, 5c)—Metals and mineral production consisted principally of asbestos and iron ore. Asbestos output dropped sharply in 1965, owing to the closing of the Moshaneng mine, in Bechuanaland (Botswana), of Marlime Chrysotile Asbestos Corporation Limited, in November 1965. Production of Chrysotile asbestos in Botswana was 806 metric tons in 1965 compared to 1,960 in 1964. Production of asbestos and iron ore in Swaziland accounted for 98.8% of the total value in 1965. Swaziland's Chrysotile asbestos production was 37,089 metric tons in 1965 compared with 36,162 in 1964. Exports of Chrysotile asbestos from Swaziland in 1965 was 37,088 metric tons, principal destinations being United Kingdom, South Africa, and Spain. Asbestos products imported into Swaziland were valued at $1,292,970 during 1965. The Havelock mine continued to produce on an increasing scale and a quarter of a mile from Havelock, an asbestos deposit was extensively examined. A serpentine structure containing pseudo-asbestos fibers was discovered in the Umkomazaan Valley near Nottingham Hill. Numerous other small bodies of serpentinites occur in this area.

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PERSONNEL NEWS

ASBESTOSPRAY CORPORATION

PAUL S. MACO—general manager, insulation products; will be involved with the development and sales of all high temperature insulation materials and coatings.

JOSEPH BEV—applications manager; will assist Mr. Maco in providing best possible service.

SYDNEY L. MILLER—assuming additional duties relative to equipment and service; is vice president.

KENNETH S. HIRSHON—continues the supervision of material manufacture, etc.

THE PHILIP CAREY MFG. CO.

JOHN W. HUMPHREY—chairman of the board; joined Carey as executive vice president in 1948 and was elected president in 1949.

CHARLES E. TENNESSON, JR.—president and chief executive officer; is a vice president of Glen Alden Corporation of which Carey is a subsidiary and since June of this year has been assistant to the president of Carey.

JAY T. DERRICK—director of industrial relations; was formerly vice president of operations for Gerwin Shoe Company.

ROBERT L. SCHELHORN—director of purchasing; is assuming the duties of MILTON R. MADDUX who has retired and will continue to headquarter in the Purchasing Department at the company's General Offices in Cincinnati, Ohio.

WALTON V. LEIBROOK—research section manager of asphalts, emulsions and mastics.

ROBERT L. SHIRLEY—technical representative; will be concerned with sales of asbestos fibre in Detroit, Cleveland, Cincinnati, Buffalo and Pittsburgh.

LLOYD A. PFAFF—manager of Memphis, Tennessee, plant; was plant engineer at the Houston, Texas plant.

JOHNS-MANVILLE CORPORATION

ROLAND N. BARTON—Chicago, Illinois, district sales manager, distributor sales department, Pipe Division.

JOHN L. DURKIN—vice president of J-M Products Corporation; is responsible for computer operations at all J-M locations involving financial, accounting, research and marketing data.

EDWIN C. LINDSTROM—retired April 1st, 1967, as quality control manager.

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NATIONAL GYPSUM COMPANY

CONSON GUSTAVUS—vice president of Western sales, Building Products Division; will headquarter in Long Beach, California.

DAVID G. STENBERG—vice president of trade relations and business development, Building Products Division; will headquarter in Buffalo, New York.

J. WILLIAM DUNCAN—vice president for industry relations and trade sales, Building Products Division; will headquarter in Buffalo, New York.

RAYBESTOS-MANHATTAN, INC.

GEORGE F. DUCKER—general manager of the General Asbestos & Rubber Division at North Charleston, South Carolina; assumes the position held by the late ALVIN F. HEINSOHN.

MARION W. OLIVER—assistant general manager and factory manager, General Asbestos & Rubber Division.

GEORGE W. BARKER—division comptroller, General Asbestos & Rubber Division.

THE RUBEROID CO.

WAYNE H. PAGE—director of engineering, Building and Industrial Products and Roofing Granule Divisions.

RALPH E. CHEESMAN—district sales representative, Industrial Products Division; will be based at Philadelphia, Pennsylvania.

Cementation Limited has been awarded a contract by **Bell Asbestos Mines Ltd.** to sink a shaft at Thetford Mines, Quebec, Canada. The shaft is 20 feet in diameter and concrete lined, with a depth of 1,410 feet. Steel sets will be installed in the shaft, simultaneously with the sinking at 12-foot centers. (AC/M Magazine, April-May 1967)

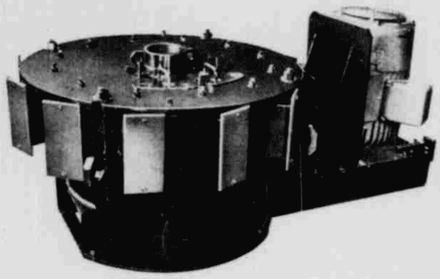
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Mineral Processing Patents Issued During 1966, by Oliver S. North, is now available. This fully-indexed volume of abstracts of the 1966 patent literature is of both immediate and permanent reference value. The abstracts cover most if not all of the significant U.S., Canadian, and British patents issued during 1966 on exploration for and mining of metallic and nonmetallic (excluding solid fuels and petroleum) minerals, beneficiation and concentration of metallic and nonmetallic minerals, extraction of metals from ores, and refining of metals extracted from ores. The book also includes carefully chosen patents issued in Germany, France, Japan, and the U.S.S.R. For many of these patents the book contains flow diagrams, equipment drawings, or other useful illustrations. Included are seven asbestos processing patents. (540 abstracts; 5 separate indexes, consisting of 3,000 entries; 230 pages; $15.00 each, postpaid).

French consumption of asbestos is now supplied wholly from foreign countries, but until 1965, when the Canari mine in Corsica closed, about 6,800 metric tons were drawn from Corsica. From 1964 to 1966, imports of asbestos declined from 109,500 metric tons to 92,600 metric tons. Of these imports 36,000 metric tons were delivered by Canada, 7,600 by South Africa, and 49,000 from other countries.

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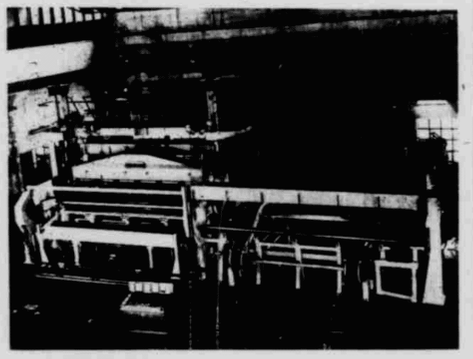
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ASBESTOS STOCK QUOTATIONS

Close—September 29, 1967

Abex	33¼	Glen-Alden	14⅜
Advocate	*$2.55	G-Alden (.70)	15⅝
Asarco	71⅞	G-Alden (pfd—3.15)	103½
Armstrong Cork	58⅜	G-Alden (pfd—2.25)	58½
Arm. Cork (pfd)	70¼	Gulf & Western	54⅜
Asbestos Corp.	*24⅜	G&W (pfd—1.75)	171½
Bendix	52¾	G&W (pfd—3.50)	209½
Bendix (pfd)	84	G&W (pfd—5.75)	75¼
Certain-teed	18½	Johns-Manville	62⅜
Certain-teed (pfd)	19¼	National Gypsum	45
Conwest	*$5.25	Natl Gypsum (pfd)	79
Fibreboard	37⅞	Patino	*$9.75
Flintkote	24	Porter (pfd)	86⅞
Flintkote (pfd)	78⅛	Raybestos-Manhattan	57¾
Garlock	18⅜	Unarco	13½
Gen Aniline & Film	21⅝	Uniroyal	45
GAF (pfd—1.20)	30¼	Uniroyal (pfd)	133½
		United Asbestos	*$8.65

*Canadian currency

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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

BUILT ON A ROCK

Crude Asbestos is the rock on which our business is built. In the Scandura Factories at Cleckheaton and West Auckland it is used to manufacture everything for which asbestos is best, from yarns and cloths to all types of jointings and packings. Our Research Laboratories keep us at the head of development; Asbestos is *our* subject.

THE ASBESTOS DIVISION OF **SCANDURA LIMITED**

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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 August 15th through September 5th, 1967.

3,336,254—Floor Tile Binder Comprising Atactic Polypropylene and Unsaturated Rubber, R. A. White (assigned to Mobile Oil Corporation, a corporation of New York), August 15, 1967.

3,337,392—Conductive Cellulosic Paper Containing Asbestos and Acid Salt of a Polyvalent Metal, W. E. Carlson and W. T. Myers, Jr. (assigned to St. Regis Paper Company, New York City), August 22, 1967.

3,337,922—Device for Dressing Crude Asbestos, K. A. Oesterheld, August 29, 1967.

3,338,667—Recovery of Silica, Iron Oxide and Magnesium Carbonate from the Treatment of Serpentine With Ammonium Bisulfate, F. L. Pundsack (assigned to Johns-Manville Corporation, New York City), August 29, 1967.

3,338,763—Granulation Process for Pyrotechnics Containing Organic Dyes and Vinyl Resins, J. Kristal, E. D. Crane and B. Werbel (assigned to U.S. Secretary of the Army, Washington, D.C.), August 29, 1967.

3,338,848—Adherent Acoustical and Decorative Coating Composition, W. D. Hamilton, August 29, 1967.

3,338,994—Method of Producing Cellular Material from a Dispersion of Asbestos Fiber, G. F. Heron (assigned to Turner Brothers Asbestos Company Limited, Manchester, England), August 29, 1967.

GUMMI ASBEST KUNSTSTOFFE

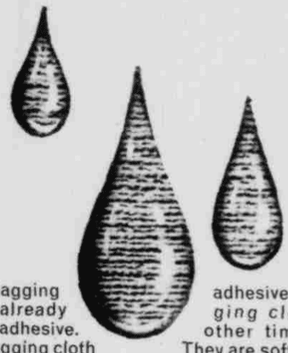
is the asbestos periodical in Europe which covers editorially in each issue the production, processing and application of asbestos. Therefore, it is read by all firms connected with the importing and processing of asbestos in 60 countries and is used for advertising by the asbestos mines all over the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

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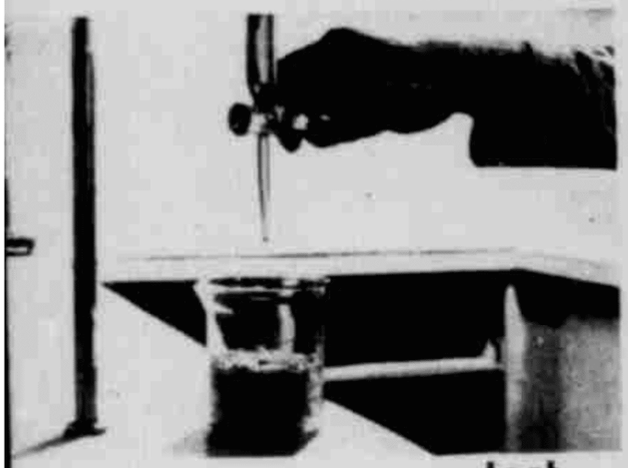
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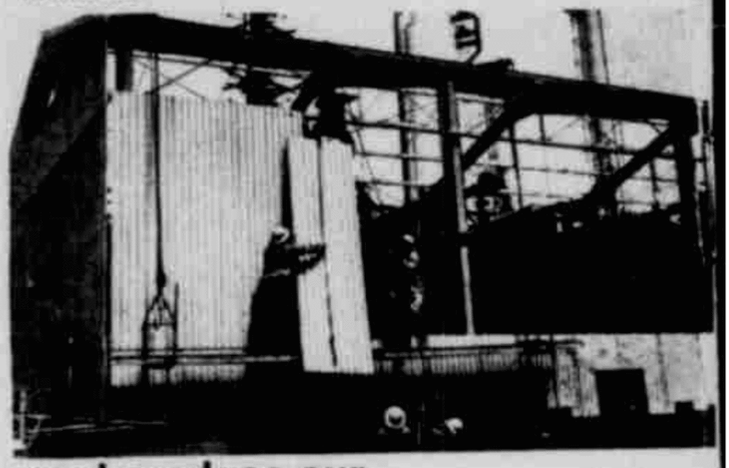
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