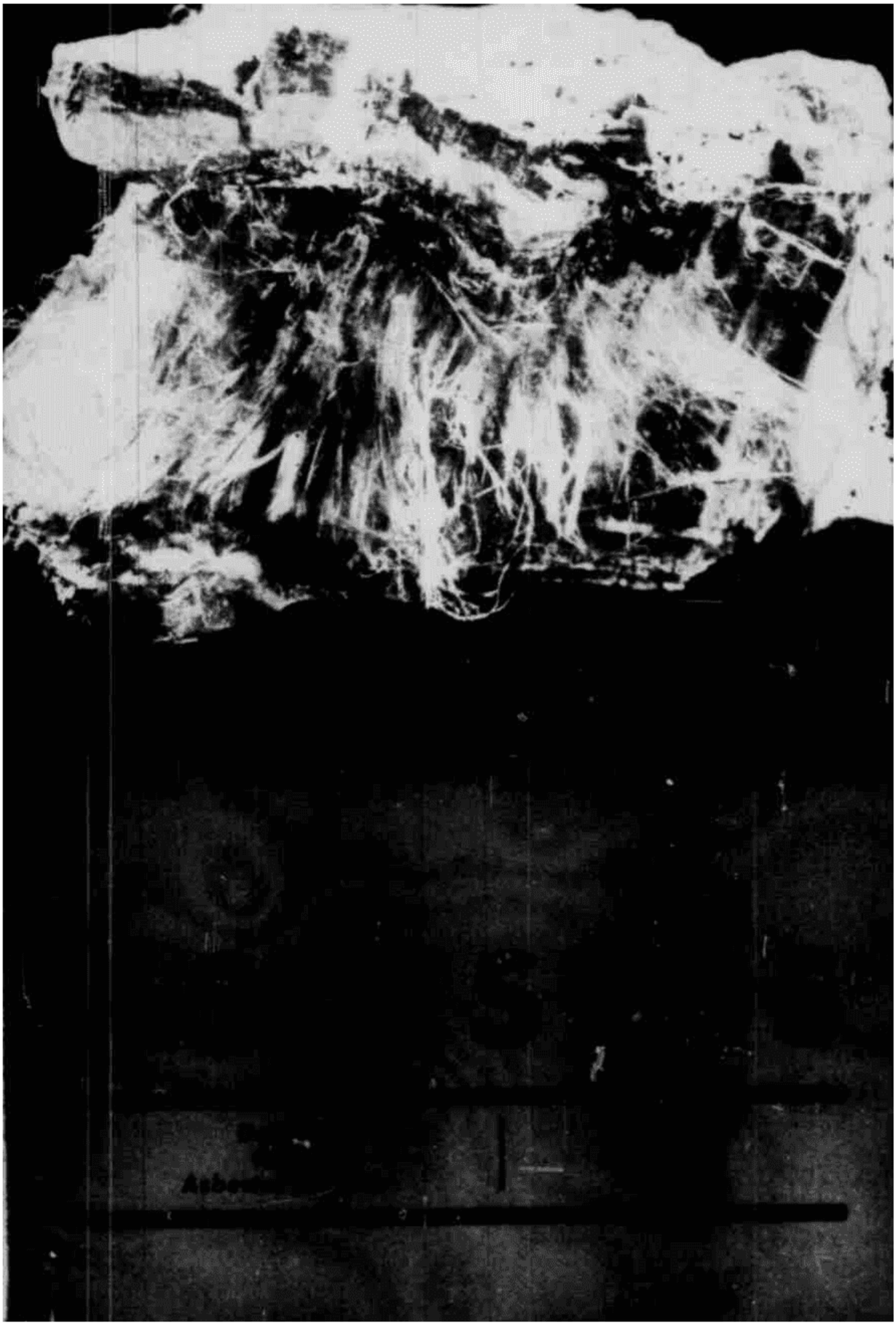
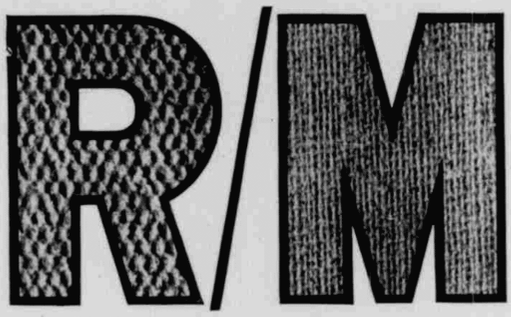


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RAYBESTOS-MANHATTAN, INC.
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ASBESTOS

VOLUME 48 MARCH 1967 NUMBER 9

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ASBESTOS is indexed regularly by Engineering Index, Inc.

ASBESTOS was founded in July 1919 and published monthly since that date by Secretarial Service at 807 Western Saving Fund Bldg., S. E. Corner Broad & Chestnut Sts., Philadelphia, Pennsylvania 19107.
Telephone: 215-546-0420

Trust of C. J. STOVER, *Proprietor*; E. E. COX, *Editor*

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Second Class Postage Paid at Philadelphia, Pennsylvania, U.S.A.

SUBSCRIPTION RATES — United States, $3.00 per year; All Other Countries, add $1.00 for postage; Current Copies, 25 cents each; Back Copies, 35 cents each (Payable in U. S. Funds).

BRITISH ASBESTOS INDUSTRY

Part 3A: Asbestos in the Plastics Industry

By: C. Z. Carroll-Porczynski

Part 3B will appear in the April 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.)

Since the first decade of this century, large quantities of asbestos have been used in combination with phenol-formaldehyde resins serving as a reinforcing agent, an additive or a filler.

Because the phenomenal strength and tremendous surface area of asbestos fibres give remarkable bonding characteristics, virtues coupled with high resistance to heat and chemicals, the material is finding increasing use in combination with silicones, phenols, epoxies, furanes, polyesters, vinyls and other resins. By virtue of the combination of many unique properties, asbestos-reinforced plastics have entered almost every branch of modern industry and in particular the aerospace industry[6].

TABLE I—PROPERTIES OF ASBESTOS FIBRES

	CHRYSOTILE [1]	CROCIDOLITE [2]
Density—g/cubic cm	2.2 - 2.6	3.0 - 3.4
Tensile strength—lbs/sq. inch (kg/sq. cm)	up to 450,000 (31,640) average 350,000 (24,610)	up to 600,000 (42,180) average 500,000 (35,150)
Modulus of elasticity—lbs/sq. inch (kg/sq. cm)	26.5 (1,863) x 10^6	27.1 (1,905) x 10^6
Fusion point	2,700°F (1,482°C)	2,180°F (1,193°C)
Surface area (approx.)	10 square m/gm	—
Fibre diameter	180 - 250 Angstroms	—
Chemical resistance	alkalis good acids poor	alkalis good acids excellent

[1] Quoted from "Lake Asbestos" booklet by Lake Asbestos of Quebec Ltd.
[2] Quoted from Cape Asbestos Co. Ltd. publications.

In Britain a wide range of asbestos-resinated felts, moulding flock and powders has been developed by Turner Brothers Asbestos Company Limited. These materials are marketed under the trade-name Durestos. Table II shows the performance of type RA.1, which is a high-strength grade felt incorporating long chrysotile asbestos and phenolic resin.



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Missile Application

This type of resinated-asbestos felt is used, among other purposes, for the manufacture of wings and fairings of the Hawker Siddeley Firestreak air-to-air missile.

Another example of its application in this field is the B.A.C. Bristol-Ferranti Bloodhound twin-ramjet anti-aircraft missile. In this case, expansion cones for nozzles of boost motors are made of resinated-asbestos felt. The British Aircraft Corporation Limited is also producing a range of other asbestos-based missile components, such as nozzles for motor tubes, missile tail-pipes and heat barriers. Several asbestos-based missile parts are also being produced in Britain by Coin Insulation Limited.

TABLE II—PHYSICAL PROPERTIES OF CURED DURESTOS FELT GRADE RA. 1

Specific gravity	1.75
Tensile strength In direction of fibres	29,000 lbs/sq. inch (2,040 kg/square cm)
Tensile strength (Transverse)	19,000 lbs/sq. inch (1,335 kg/square cm)
Compressive strength (Edgewise)	23,000 lbs/sq. inch (1,620 kg/square cm)
Normal to sheet)	78,000 lbs/sq. inch (5,480 kg/square cm)
Shear strength (Normal to sheet)	19,000 lbs/sq. inch (1,335 kg/square cm)
Resistance to compression maximum yield (Normal to sheet)	2.5 per cent.
Moulding pressure	560 lbs/sq. inch (39.4 kg/square cm)

The British Aircraft Corporation Limited has patented (British Patent 778,682) a process for the manufacture of fuselages for guided missiles. According to this invention, such a fuselage consists of a moulded, tubular skin with integral, longitudinal stiffeners and with at least two diaphrams made from a heat-hardened resin adhesively secured to the skin. The skin is made from felts about 0.075 inch (1.9 mm) thick and consists of equal parts by weight of asbestos fibre and phenol-formaldehyde resin. The moulding of this fuselage is carried out at a pressure of about 100 pounds/square inch (7.03 kg/square cm) and a temperature of 140 degrees C (284 degrees F).

A fuel drop-tank is another example of a successful application of Durestos. Normally used on fighter aircraft

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for extra fuel, these tanks have also been fitted to larger aircraft, such as the Canberra jet bomber, and they have been used as containers for water in controlling bush fires. A plastics-gel bomb has also been developed from the Bristol asbestos-phenolic fuel drop-tank. It is essentially a standard plastics drop-tank fitted with an igniter in place of the filler cap. It is claimed that the plastics-gel bomb is superior to the metal type, because fragmentation is more complete and the distribution of the contents over the target area is wider and more even.

Cabin Floor Use

A further example of application of resinated-asbestos felts in aircraft is the cabin floor of the B.A.C. Britannia airliner. Here, the requirements of lightness and strength were fulfilled by the use of two skins of phenolic-asbestos, separated and stiffened with bonded end-grain balsa-wood interlayers. It is claimed that this form of construction provides a rigid component, with good heat- and sound-insulation properties. The cabin air-conditioning system in this aircraft is also trunked in phenolic-asbestos mouldings, some of which are of considerable diameter and complexity of form.

The Hawker Siddeley Comet aircraft employs asbestos-based plastics for a fan housing. Compressor blades in jet engines, retaining rings, washers, and control-cable pulleys and sleeves are representative of heat-and wear-resistant phenolic-asbestos parts finding application in the aircraft industry. Bearings machined from asbestos-based laminates are of particular interest to the aircraft engineer, since they are resistant to corrosion and are likely to last at least six times longer than those made from metal. Numerous aircraft sealing components also incorporate resinated Durestos felt, a typical example being the jet pipe sealing ring on the Comet.

Closely connected with the aircraft industry is the development of radar, and here again asbestos is being utilized appreciably. An example is a large radar reflector moulded in Durestos felt by F. G. Miles Limited, to the specification of A. C. Cossor Limited, and a high-speed radar scanner unit developed under Government contract and manufactured by The British Aircraft Corporation[7].

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Similarly to resinated-asbestos felts, both asbestos cloth and asbestos paper are widely used in Britain for the reinforcement of plastics.

The table below shows average properties of asbestos fabric and asbestos paper laminates bonded with phenolic resin and marketed by Bakelite Limited, 12 Grosvenor Gardens, London S.W. 1.

TABLE III

	PAPER BASE—H287	FABRIC BASE—H10849
Tensile strength—lbs/sq. inch (kg/sq. cm)	16,000 (1,125)	5,000 (350)
Crossbreaking strength—lbs/sq. inch (kg/sq. cm)	28,000 (1,970)	11,000 (770)
Shear strength—lbs/sq. inch (kg/sq. cm)	14,000 (985)	11,000 (770)
Impact strength—edgewise—foot pounds (kg.m)	0.55 (0.076)	1.0 (0.138)
Density—g/cubic cm	1.68	1.60

Quoted from Bakelite Ltd., Technical Data Sheet H287 and H10849.

In general, the performance of fabric-based laminates will depend upon the fabric weave, weight and the length of fibres used.

Bearing Materials

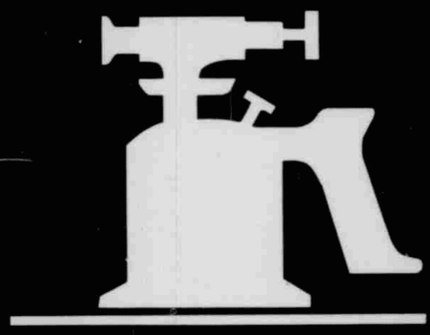
The table below shows the physical properties of asbestos-based bearing materials.

TABLE IV—PHYSICAL PROPERTIES OF ASBESTOS-BASED BEARING MATERIALS

	LAMINATED® ASBESTOS CLOTH BASE	LAMINATED® ASBESTOS FELT BASE	WO'IND® ASBESTOS YARN BASE
Ultimate tensile strength lengthways—lbs/sq. inch (kg/sq. cm)	7,000/12,000 (490/840)	17,000/33,000 (1,195/2,320)	11,000 (770)
Ultimate compressive strength—lbs/sq. inch (kg/sq. cm)	28,000/39,000 (1,970/2,740)	54,000/75,000 3,800/5,270)	18,000 (1,265)
Ultimate cross-breaking strength—lbs/sq. inch (kg/sq. cm)	11,000/25,000) (770/1,760)	23,000/40,000 (1,620/2,810)	
Density—g/cubic cm	1.65	1.72	1.47

Uses of asbestos in dry bearings include: centre pivot liners, side bearers, draw-bar liners, and brake-gear bushes on railway locomotives and rolling stock.

Asbestos-based, grease-packed bearings (sealed-for-life bearings) are used in suspension, steering, king-pin and brake linkage bushes for motor vehicles and other equipment. The uses of asbestos-based, water-lubricated bearings



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range from small circulating pumps for heating systems to rolling-mill bearings and stern-tube bearings for large ships, and in mixers, bottling plants, food processing machinery, chemical machinery, and so on (8A). Two of the largest British manufacturers of asbestos-based bearing materials are Railko Company (jointly owned by Birfield Industries Limited, London, and BBA Group Limited, Cleckheaton, Yorkshire) and J. W. Roberts Limited, Horwich (near Bolton, Lancashire), a Turner and Newall company.

Asbestos fibre offers to moulders the advantage of making parts of greater strength with better finish; plasticity is controlled; mould shrinkage minimized; there is no surface crazing and parts show minimum creep as they age. A range of moulding compounds produced in Britain by Bakelite Limited, is shown in the table below.

TABLE V—MECHANICAL PROPERTIES

	GRADE X.250 S.F.	X.261/4	X.250 L.F.
Impact strength—foot pounds (kg.m)	0.35-0.45 (0.048-0.062)	0.08-0.12 (0.011-0.016)	0.90-1.20 (0.12-0.16)
Crossbreaking strength—lbs/sq. inch (kg/sq. cm)	7,500-10,500 (530-740)	8,000-9,500 (560-670)	9,500-13,500 (670-950)
Tensile strength—lbs/sq. inch (kg/sq. cm)	3,500-6,000 (245-420)	4,000-6,000 (280-420)	3,500-7,000 (245-490)
Crushing strength—lbs/sq. inch (kg/sq. cm)	18,000-25,000 (1,265-1,755)	17,000-23,000 (1,200-1,620)	20,000-25,000 (1,410-1,755)
Specific gravity	1.87-1.98	1.85-1.96	1.85-1.96
Plastic yield 180°C (356°F)—mm	3-6	2-6	1-3
Blister temperature—(°C) (°F)	180-200 (356-392)	185-205 (365-401)	180-200 (356-392)

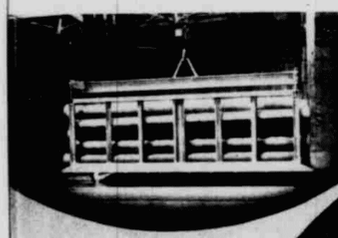
OUTSTANDING ACHIEVEMENT in the mineral-resources field has won recognition from one of the United States' leading scientific and technical organizations for *Walter R. Hibbard, Jr.*, Director of the U.S. Bureau of Mines, and *Charles W. Merrill*, Chief of the Bureau's Division of Minerals. The American Institute of Mining, Metallurgical, and Petroleum Engineers has named Dr. Hibbard as recipient of its 1967 James Douglass Gold Medal Award. AIME's 1967 Mineral Economics Award was presented to Mr. Merrill.

AUTOMATIC PLANTS TO MAKE SOCKETED PIPES

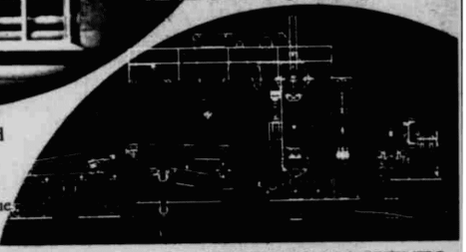


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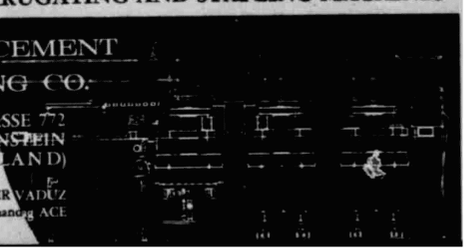


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BRAKE SAFETY

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

(Fact Sheet No. 1 on Brake Types is published below. The remaining fact sheets will appear in future issues of ASBESTOS and will cover brake lining test failures, lack of uniform brake lining standards, what mechanics should check and repair in inspecting brakes, tips on using brakes safely, and quotes from experts on brakes.)

No. 1 — Brake Types

Drum-Type Brakes

Today, the majority of American automobiles, trucks, buses and trailers are equipped with drum-type brakes. While there are different mechanical designs of drum-type brakes, most of them have semi-circular shoes covered with friction-material brake linings or blocks that press outward against a circular drum (rotating with the wheel) when pressure is exerted on the brake pedal. In hydraulic brakes the force for braking is transmitted from the pedal via a master hydraulic cylinder through lines to a cylinder at each wheel.

Disc-Type Brakes

The other basic type of brake, probably destined to come into more general use in the near future, is the disc-type brake. This type has a metal disc or rotor that rotates with the wheel. Flat friction pads mounted on metal shoes press against both side surfaces of the disc when brakes are applied. The force for braking is transmitted from the pedal via a master hydraulic cylinder through lines to pistons on both sides of the discs. The assembly containing the friction pads and pistons is called a caliper. It is mounted astride the disc, much as a rider on a horse. The brake action is similar to the rider applying pressure to the horse's sides with his knees.

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Power Brakes, Air Brakes, Vacuum Brakes

Power brakes such as air brakes and vacuum brakes are not basic brake types. Rather, these terms refer to devices added to drum- or disc- type systems to increase brake output with less physical effort on the part of the driver.

A truck, for example, bearing a sign "Caution—Air Brakes," is equipped with an air compressor that forces air under pressure to reservoir tanks where it is stored. When the brake pedal is depressed, some of the air is released and metered to the brakes.

Power brakes on automobiles utilize the vacuum created at the intake manifold of the running engine to assist braking. The vacuum exhausts air from one side of a piston, causing atmospheric pressure on the other side of the piston to move the piston and apply increased pressure to the brake hydraulic system.

Dual Brakes

The term "dual brakes" does not refer to two separate brake systems or two separate sets of brakes. Rather, it refers to a split method of actuating either drum-type or disc-type brakes.

Instead of the conventional single piston hydraulic master cylinder actuating all four brakes of a vehicle, a double piston master cylinder is used. One of the two pistons actuates the brakes on the front wheels, the second actuates the brakes on the rear wheels.

Hence, if there is a leak in the hydraulic system of one set of brakes, the other set is not necessarily affected. Thus, the margin of safety is increased with dual brakes.

"Fail-Safe" Brakes

"Fail-safe" brakes are auxiliary units available for use in association with air brake systems of heavy vehicles such as trucks. If the air pressure in the system falls

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below a predetermined safe point, a mechanism such as a spring or air from a protected tank is released automatically to apply pressure to the brakes. "Fail-safe" units therefore, help prevent vehicles from running away should their primary brake-actuating systems fail.

RAYBESTOS-MANHATTAN, INC. has announced that the name of its *Aerospace Division* has been changed to *Plastic Products Division* to more closely reflect the division's product diversification and broader marketing base. The division will continue to market asbestos reinforced plastics and products made of various fluorocarbon resins. It's efforts have expanded beyond supplying specialized materials and compounds for use in the rocket, missile, aircraft and electronic market. The product line now includes materials and parts for original equipment manufacturers in the industrial and commercial field. It also provides many special engineering services to assist its customers in proper materials selection for most satisfactory application and performance. Among these services are quality control certifications and testing by acceptable and standardized techniques for physical, mechanical, radiographic, thermal, electrical, and/or ablative properties.

NATIONAL FIRE CODES 1966-1967 are now available from the National Fire Protection Association. Subjects of each of the 10 volumes of the Codes are as follows: 1—Flammable Liquids, 2—Gases, 3—Combustible Solids, Dusts and Explosives, 4—Building Construction and Facilities, 5—Electrical, 6—Sprinklers, Fire Pumps and Water Tanks, 7—Alarm and Special Extinguishing Systems, 8—Portable and Manual Fire Control Equipment, 9—Occupancy Standards and Process Hazards, and 10—Transportation. (188 separate standards, 6,572 pages, $4.00 per volume, $30.00 for complete set)

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LESLIE MARTIN CASSIDY, former president, chief executive officer and chairman of the board of Johns-Manville Corporation, died February 8th, 1967, at the age of 62. He had served with J-M for 40 years, rising from salesman to the top posts.

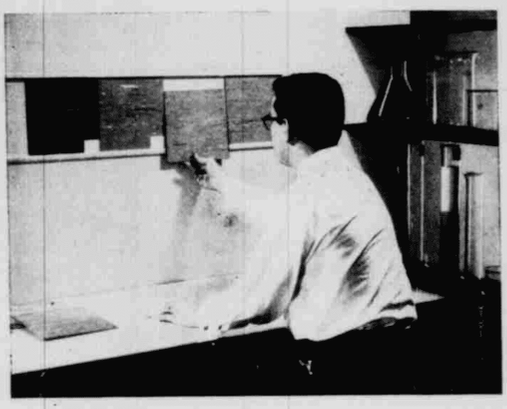
He was also a director of Nopco Chemical Company, Keuffel & Esser, Texas Gulf Sulphur, Berwind-White Coal Mining, the First National Bank of Jersey City, Cerro Corporation and the Berwind Corporation. He served as a trustee of the University of Pennsylvania from 1951 to 1961, and was a member of the Marketing Executives Association. In 1953, he was on President Eisenhower's Advisory Committee on Government Housing Policies and Programs. He had been a president of the National Mineral Wool Association and the Insulation chairman of the Board of Governors of the Asphalt Roofing Industry Bureau.

NFPA MEETING—The 71st annual meeting of the National Fire Protection Association will be held at the Sheraton-Boston, Boston, Massachusetts, May 15th through 19th, 1967.

PRODUCTION SHOW 1967 (National Industrial Production Show of Canada)—Industry, Machinery, Coliseum & Automotive Buildings, Exhibition Park, Toronto, Canada, May 1st through May 5th, 1967.

NATIONAL INTERIOR DESIGN SHOW will take place in Toronto, Canada, at the Queen Elizabeth Building from May 23rd through 25th, 1967. This show is an expansion of the Canadian Contract Furnishings Show and will include commercial and residential interior products as well as those in the contract furnishings field.

DESIGN ENGINEERING SHOW will be held at the New York Coliseum, from May 15th through 18th, 1967. The Design Engineering Conference, held at the same time, will take place at the Americana Hotel. Information may be obtained from Clapp & Poliak, Inc. ,341 Madison Avenue, New York, New York 10017.



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Gold Bond
ASBESTOS FIBRES

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ASBESTOS YARN—Mr. Guy George Gabrielson, Jr., President of *Nicolet Industries, Inc.*, has announced the signing of a joint option agreement for the manufacture of high-performance, pure asbestos yarn. Terms include the exclusive marketing of this textile yarn in the United States and Canada.

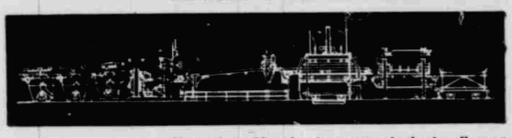
A special process for manufacturing asbestos textile yarns and filaments has been developed by a German company, *Rex Asbestwerke Graf von Rex KG*, who President, Mr. Werner Wilke, holds the patents on the process in conjunction with members of his staff. In Europe, the product is known as TILON yarn. The patented process by which TILON filament is produced results in a yarn structure that is supple, strong and soft, with all requisite characteristics of yarns intended for use in a variety of consumer and industrial applications.

In addition to providing for an exclusive license to manufacture at a future date, the signed option includes the organization of a new company in the United States. According to Mr. Gabrielson, the new development will open up an extensive and exciting new market for asbestos.

BRITISH STANDARD 486—The revised edition of B.S. 486, *Asbestos-Cement Pressure Pipes*, has been published by the British Standards Institution and takes account of the greater availability of materials and improved manufacturing methods. Dimensions and requirements for bends of various angles have been incorporated and the requirements of the hydraulic bursting test amended. The range of pipes covered has been extended to 36-inch diameter, in 3-inch increments. A 16-foot, 4⅞-inch (5m) length has been added. The requirements specified include strength, water absorption, solubility in acid, straightness and uniformity of bore. Appropriate tests are described. Appendices describe the precautions to be taken when fixing ferrules and give notes on jointing. A list is also given of the information normally required from the purchaser. (Price 8/- each; postage of 9d extra will be charged to non-subscribers).

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



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pressure pipes
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ASBESTOS CONTRACTORS BOSTON ASSOCIATION held its annual meeting at the Charter House Hotel, Cambridge, Massachusetts, on January 9th, 1967. The present officers were re-elected to serve for 1967; namely, President—William Hinman of Hinman Asbestos Corporation, and Secretary-Treasurer—Albert L. Sargent of Eastern Refractories Company, Inc. The committees were changed slightly as follows: Joint Trade Board—William Slade, William Hinman, Walter Peterson; Joint Apprenticeship Committee—Theodore Brodie, Frank Jones, Herbert Noyes; and, Employer Trustees Health & Welfare Fund—Albert L. Sargent, William Wilkes, Norman Johnsen.

The industry enjoyed a high volume of business during 1966 due principally to the tremendous expansion of the Pulp and Paper Industry in the New England area. There was also a continued growth in the Public Utility field with new installations and additions to power plants in the area. The prospects for 1967 are encouraging although the rate of growth may slow down to some extent. The industry will be faced with the same problem existing generally throughout the country, namely, a lack of adequate supply of qualified, experienced asbestos worker mechanics. It is hoped the growth of apprenticeship training programs will gradually alleviate this labor shortage. It is also hoped to strengthen both the Local association as well as the Regional group, and the Northeastern Insulation Contractors Association, through added members and greater support of aims and activities.

MONTE C. CARPENTER, general manager of the building products and floor covering divisions of *The Flintkote Company*, was re-elected President of the *National Home Improvement Council* for a second term.

ASBESTOS THESIS—Asbestos is the subject of a well-written thesis presented by Miss Anna Maria Ferruzzi to the Institut des Hautes Etudes d'Interpretariat, Florence, Italy, as part of her doctorate examination. ASBESTOS will be glad to lend its copy to interested readers.

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It's stronger per pound.
It's lighter per yard.

So, it's easier to work with.

Asbeston is ordinary asbestos, except that it's been spun and woven, brushed and calendered, to get a smoother, fuller fiber cover. As yarn, fabric, or tape, Asbeston comes in the widest variety of weights and sizes for every aplication.

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®ASBESTON IS THE U. S. RUBBER REGISTERED TRADEMARK FOR ITS ASBESTOS YARNS, FABRICS AND TAPE.

Automobile Sales

DECEMBER 1966 motor vehicle factory sales from plants in the United States totaled 923,623 (passenger cars—775,141; trucks and buses—148,482). The total for December 1965 was 1,042,992.

United States motor vehicle imports for December 1966 were as follows: new passenger cars—108,552 valued at $178,286,740; used passenger cars—219 valued at $271,734; trucks and buses—11,169 valued at $22,919,236; and, automotive parts—valued at $60,090,582.

YEAR 1966 motor vehicle factor ysales from plants in the United States totaled 10,329,480 (passenger cars—8,598,326; trucks and buses—1,731,154). The total for the year 1965 was 11,057,366.

United States motor vehicle imports for 1966 were as follows: new passenger cars—913,217 valued at $1,236,-531,601; used passenger cars—5,755 valued at $7,289,174; trucks and buses—57,418 valued at $104,458,522; and, automotive parts—valued at $476,564,978.

ISI STANDARD—Indian Standards Institution has published an Indian Standard Specification for Asbestos-Cement Flat Sheets (IS:2096-1966) which lays down the requirements regarding composition, dimensions and tests of compressed and uncompressed asbestos-cement flat sheets intended for both interior and exterior uses. (Rs3.00)

IAI TRANSLATION—The Use of Mineral Wool In Asbestos Cement Sheet Production, by I. Z. Volchek, E. O. Barbakadze, and A. V. Zagrebneva, is now available as number 3 of the asbestos translation series of the Institute for Asbestos Information (per copy: U.S. $2.00; 14/— sterling; Australian $1.75).

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ESTABLISHED 1912
Manufacturer of Cloth, Tape, Yarn and Brake Lining
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5. HIGH FIBRE VALUE
(90% on 100 mesh)

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

Samples and complete information on Carey-Canadian 7RF-9 floats may be obtained from the warehouse locations listed below or by writing to Carey-Canadian Mines, Ltd., P.O. Box 15070, Lockland, Cincinnati, Ohio 45215, or The Philip Carey Company, Ltd., Ville St. Laurent, Montreal 9, P. Q., Canada

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Warehouse stock located at:

Baltimore, Md.	A. B. Kohl Sales Company
Brooklyn, N.Y.	Empire Ace Insulation Mfg. Company
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Chicago, Ill.	Chicago Firebrick Company
Cleveland, Ohio	Donald McKay Smith, Inc.
Dallas, Texas	Thompson-Hayward Chemical Company
Davenport, Iowa	Thompson-Hayward Chemical Company
Des Moines, Iowa	Thompson-Hayward Chemical Company
Detroit, Mich.	A. E. Fleming Company
Garwood, N.J.	Asbestos Corporation of America
Houston, Texas	Thompson-Hayward Chemical Company
Indianapolis, Ind.	Thompson-Hayward Chemical Company
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Los Angeles, Calif.	E. S. Browning Company
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Milwaukee, Wisc.	Sprinkmann & Sons
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Oklahoma City, Okla.	Thompson-Hayward Chemical Company
Philadelphia, Pa.	George A. Rowley & Company, Inc.
Pittsburgh, Pa.	McCann-Shields Paint Company
St. Louis, Mo.	Thompson-Hayward Chemical Company
San Francisco, Calif.	E. S. Browning Company
Trenton, N.J.	H. M. Royal, Inc.
Winchester, Mass.	W. D. Egleston Company, Inc.

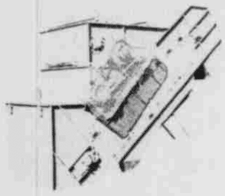
MARINITE—A new leaflet issued by Marinite Limited describes the construction and application of "Marinite" components using a mechanical dry joint system (patent applied for) for the rapid assembly of room-sealed gas appliance ventilation ducts in multi-story buildings. The leaflet defines the purpose of SE- and U- Ducts and describes the method of construction and fixing of Marinite units, together with detail of vertical joints and suggestions for horizontal jointing. The units can be provided in any size to a maximum of ten feet high and four feet wide, preferred overall sizes being to modular dimensions.

MARINITE, a monolithic asbestos sheet material, is now available in the building industry and a brochure has been produced describing its application for the construction of free-standing partitions, wall linings, doors, ducting, etc. where a degree of fire protection or Class "O" Spread of Flame is required by regulation. This illustrated brochure covers Building Regulations on fire protection, official fire ratings in various forms of construction, drawings showing some methods of erection, handling recommendations, physical properties, and standard sizes and thicknesses.

EVERITE LIMITED is pioneering in the manufacture of a new type of acoustical panel, claimed to be incombustible and to feature excellent sound absorption properties. These panels are expected to be available during the first half of 1967. A variety of fixing methods are to be offered, and the panels will be supplied in cartons for ease of distribution and storage.

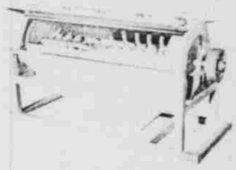
FERODO/SABS—Two representatives from the French brake lining firm of Ferodo, M. Andre Collineau and M. M. Decaestecker, visited the Asbestos Testing Laboratory of the South African Bureau of Standards, Pretoria, South Africa, to acquaint themselves with the work being done by the Bureau in the field of asbestos, and to inspect the testing facilities it was able to offer.

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Mechanically separates free fibre from rock particles.



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For separation of fibre into various graded portions.

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Hartomatic Bag Placer	Drive Equipment	Feeders
Quebec Standard Testing Machine	Air Separators	Aspiration Hoods
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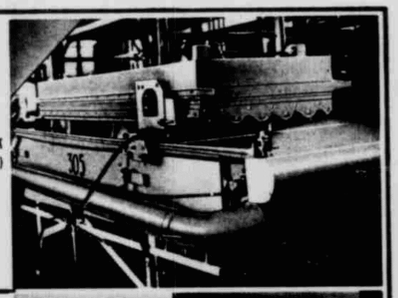
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DO YOU WANT TO MANUFACTURE ASBESTOS CEMENT SHEETS BOTH FLAT AND CORRUGATED, COLOURED AND NOT COLOURED, **BY USING ONLY SHORT FIBERS** WITHOUT EMPLOYING CORRUGATING MACHINE, MOULDS, FELTS, DECANTER CONES, AND KEEPING AT THE SAME TIME THE SHEET QUALITIES FULLY UP TO THE STANDARD REQUIREMENTS?

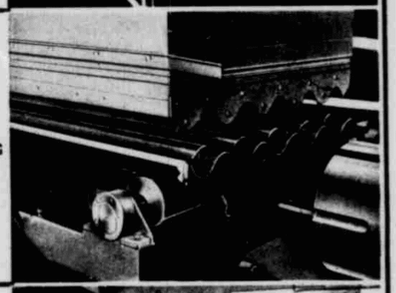
This is possible now with SSV Vulcanit machinery manufactured by RCM Co. of Torino (Italy) under ISPRA licence. Both ISPRA an RCM Companies are at your full disposal for supplying you with the description of said machinery and of the relative technological process.

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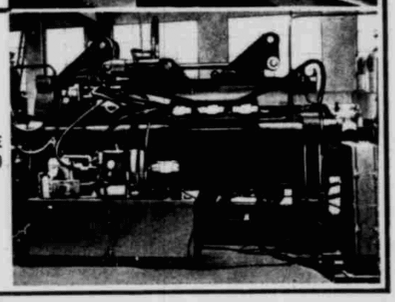
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Building

JANUARY 1967—Contracts for future construction work declined for the fifth consecutive month and totaled $2,837,838,000, a drop in value of 18% from the year-ago level. The total amount of new construction work being contracted has been slipping all too steadily since last spring. Although this trend has not changed its direction, there has recently been an important shift in its makeup. With the harrassed housing market finally headed upward again, it is now the nonresidential building and heavy construction categories that are weakening.

Nonresidential building contracts totaled $1,175,416,000, a 3% decline from the year-ago value. Contracts in January for commercial buildings, hospitals, schools, and public buildings, all showed substantial seasonally-adjusted declines; manufacturing buildings ran only about even with the December rate. A hard look at the past several month's developments makes it increasingly apparent that the more than five-year expansion in nonresidential building contracts began leveling off late in 1966, and is now in a decline.

Residential building contract value totaled $936,621,000. Although still 30% below the year-ago total, this shows a modest improvement over the December 1966 amount. Contracts for one-family housing and for nonhousekeeping residential buildings showed better-than-seasonal advances, while apartment building contracts declined.

Nonbuilding projects declined 20% from January 1966 and totaled $725,801,000 in contract value. Large declines from last January's contract values were shown in such categories as streets and highways, dams and reservoirs, and utilities. Sewer and water projects gained moderately. (F. W. Dodge Company, a division of McGraw-Hill, Inc.)

ASTM STANDARDS—The last seven parts of the 1966 Book of ASTM Standards are now available, including: Part 14, Thermal Insulating Materials, Acoustical Materials, Joint Sealants, Fire Tests, Building Constructions; and, Part 25, Textile Materials—Fibers and Zippers.

CANADIAN ASBESTOS



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*Suburb of New York City.

MARKET CONDITIONS

General Business.

There are increasing indications of slight recessionary trends in the general economy. Last month, practically all recognized indices were either unchanged or slightly lower. Automobile sales are about 20% lower than those of 1966 for the same period. Increasing numbers of manufacturing companies are taking steps to reduce inventories which, as pointed out in Fortune some months ago, were reaching exceptionally high levels. More and more economists are now predicting a lower level of general business activity extending thru the first half of this year but most are looking for an upturn during the second half. Interest rates have backed off from the high levels reached in 1966 and this should help the depressed building industry and some other sectors of the economy. In view of the current economic situation, the recently proposed tax increase seems completely unnecessary and the chances seem slight that the Congress will pass any such legislation unless the boom is suddenly renewed.

Unrest in China continues and relations between China and Russia are increasingly strained. Developments in this situation are being watched closely by the entire world and could be of utmost significance to the international political situation.

Asbestos—Raw Material.

Quebec asbestos fibre shipments for the Industry during January 1967 totalled 64,837 tons, a reduction of 12,594 tons or approximately 15% from the same period last year.

1967 total Quebec asbestos fibre shipments are expected to exceed those of 1966 by roughly 5%.

Asbestos—Manufactured Goods.

Asbestos Textiles. Asbestos manufacturers continue to maintain a good order position with sales meeting market

AMMANN ASBESTOS MILL



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

The above illustration shows a small plant comprising two Disintegrators coupled. This plant works in a manufacture of asbestos plates in Burma.

Manufacturers: **U. AMMANN LTD. Engineers, 4900 Langenthal Switzerland**

Cables: Ammannag Langenthal

Telex: Nr. 68446

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forecasts. Mill inventories are still below the desired level due to the high sales activity of 1966. It is anticipated that this situation will continue through the first quarter of 1967 and will result in extended delivery dates for certain items.

Asbestos Brake Lining. The condition of this market continues to be good and the outlook for the rest of the year is excellent.

Asbestos Paper & Millboard. Volume of business for these materials is good and this situation is expected to continue through the second and third quarters of this year.

High Pressure Insulation. Demand for this material is very good and prices are stable. This volume of activity should continue for the rest of the year.

Asbestos-Cement Shingles, Roofing & Siding. Volume of sales is low due to doldrums in the housing industry and the winter weather. However, improved starts and easing of mortgage money should improve this situation by mid-year.

Asbestos-Cement Pipes. The present situation shows signs of slow improvement over the slowdown in the amount of water and sewer projects in 1966. This improvement should continue during the coming months.

Asbestos Filter Fiber. The Arizona filter fiber market is steady and demand is increasing for white short fibers. A steady increase in demand for all grades is anticipated during 1967.

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

1966 ASTM PROCEEDINGS, Volume 66, is now available from the American Society for Testing and Materials. This 590-page book is the repository of factual information and a record of the Society's work during 1966. ($12.00 each, prepaid; 30% discount to members)

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FULL AND HALF SYNTHETIC FELTS
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ASBESTOS TEXTILE INSTITUTE—The main speaker for the Institute's February meeting was G. Ellwood Houghton of Garlock, Inc. whose subject was "The Use of Asbestos Textiles in Industrial Products." He exhibited an unusually fine collection of industrial products that contain asbestos textiles in various forms.

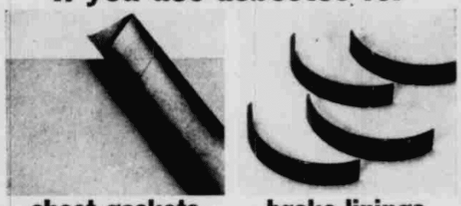
A highlight of the meeting was a dinner in honor of William S. Hough, a former president of the Institute, who is leaving the asbestos textile industry and will no longer be active in its affairs. Mr. Hough was presented with a Certificate of Appreciation in the form of a handsome plaque, on behalf of the Board of Governors and the members of ATI in recognition of his valuable contributions to the affairs of the Institute.

NFPA FILM—Construction features which help keep a home safe from fire are illustrated in a practical new feature film now available from the National Fire Protection Association. "Are We Fire Safe?" is an eight-minute, 16 mm. film in full color and sound which points out fire safety features which should be taken into consideration when buying or building a home ($88.00 per print).

MFPB MANUALS—Mineral fiber application manuals for Siding Shingles and Flat Sheets have been revised and are available from the Mineral Fiber Products Bureau. The manuals cover descriptions, specifications, accessory materials, tools and equipment for application, care of material, job planning and preparation, and application instructions.

SIMPLICITY ENGINEERING COMPANY has introduced a new, shorter, sharper stroke "Z" screen for high speed fine screening. A variety of attachments such as feed spout, total dust tight enclosure, electric screen cloth heating, etc., are available for special screening requirements.

If you use asbestos for



sheet gaskets **brake linings**

or just about any other product, we have the fibre grade you need. You can specify from 43 different grades, so you're sure of getting fibres of the correct length and with the proper degree of openness for your products.

Lake Asbestos fibre is supplied in pressure-packed bags which are easy to handle . . . occupy little storage space . . . save on shipping costs. For more information or test samples, write to: Asarco International Corporation, P.O. Box 608, Black Lake, Quebec, Canada—distributors for Lake Asbestos of Quebec, Ltd.

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a subsidiary of American Smelting and Refining Company

LAKE ASBESTOS

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JOHNS-MANVILLE has made a dramatic addition to its new *Vinylcraft* line with the introduction of *Vinyl Quarry* floor tile. Each of the tiles looks as though it were divided into four squares of quarry stone. A realistic mortar design around the edges of each vinyl-asbestos tile masks the cracks between tiles after installation and helps to create an unbroken wall-to-wall effect.

CENTURIAN TERRAFLEX is the latest addition to *Johns-Manville Corporation's* commercial line of flooring. This new vinyl-asbestos tile features a bold through-chip pattern, comes in eleven colors, and is available in a 12-inch by 12-inch size and a ⅛-inch thickness.

"TURNALL" asbestos-cement "Spantiles" are described in a revised brochure issued by Turners Asbestos Cement Company Limited. Included in the publication are full specification details of the material and a list of the full range of accessories.

"TURNALL" GRANITONE decorative asbestos-cement sheets are described in a recently revised edition of a brochure published by Turners Asbestos Cement Company Limited. It contains details of color range, sheet dimensions and physical properties.

ALUMINIZED ASBESTOS CLOTH, developed by Turner Brothers Asbestos Company Limited, is aluminized by laminating an extremely thin film of polyester, metallized by vapor-distilled aluminum, on to the specially-treated surface of the base cloth. It has many applications where a highly-reflective and easily-cleaned surface is required and is ideal for use on hot lagging installations where heavy radiation problems can be reduced to negligible proportions. It can be used as a fireproof and rot-proof protective cover over primary pipe insulation and will act as a vapor barrier in cold applications to maintain the low conduction essential to the efficient function of primary insulants.

RIDGES and numberless
Asbestos-Cement
articles are now...
automatically manufactured
by *machinery* and plants
based on the
ELASTIC AND UNIFORM
HIGH PRESSURE process
Sole producers in the world
ISPRA
PADERNO DUGNANO
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Homogeneous structure.
Most uniform and highest density.
Best water proofness.
High mechanical resistance as well as elasticity and ruggedness.
Minimum of breakage in transport and service.
High frost resistance.
All characteristics never reached until now.
Our information department ready for you.

PRODUCTION

Australia—FIRST QUARTER 1966 asbestos production amounted to 2,437 short tons—Chrysotile 161 and Crocidolite 2,276. (Bureau of Mineral Resources)

Canada—NOVEMBER 1966 asbestos production amounted to 172,770 tons compared to 170,663 in November 1965. Total for the first eleven months of 1966 is 1,359,182 compared to 1,239,545 for the same period in 1965. (Dominion Bureau of Statistics, Ottawa)

Cyprus—FOURTH QUARTER 1966 production of asbestos amounted to 7,202 short tons: October—2,705; November—2,478; and, December—2,019. (Ministry of Commerce & Industry, Nicosia)

Canadian Mining Projects—According to a survey by The Northern Miner, the Canadian mining industry has committed itself to spend more than $1-billion over the next few years in new plants, plant expansions and major development programs. In addition to this amount, other projects under consideration could call for another $500-million plus, were they firmed up in the near future. The major outlays are for potash, iron, nickel, copper and $70-million for asbestos. Asbestos output is slated for an increase of about 185,000 tons by 1970.

Asbestos Products Manufacturers 1964 (annual census of manufactures, Dominion Bureau of Statistics, Industry Division, Ottawa, Canada, Catalogue No. 44-203, 50¢)—Value of shipments and other revenue (manufacturing and non-manufacturing) of the Asbestos Products Manufacturers industry amounted to $49.6-million in 1964, compared with $41.6-million in 1963, an increase of $8-million or about 19%. Included in this total were shipments of asbestos brake linings (automotive type only), boiler and pipe coverings (asbestos only), asbestos textile products, and asbestos paper products, about 24% of the industry's manufacturing revenue.

Census Survey—M65(AS)-1, "General Statistics for Industry Groups and Industries" from the U.S. Bureau of the Census' 1965 Annual Survey of Manufactures is available free from the Public Information Office, Bureau of the Census, Washington, D.C. 20233. Included in this survey are the following asbestos products statistics for 1965: 20,954 employees, $131,692,000 payroll; 16,730 production workers, 34,582 man-hours, $99,902,000 wages; $302,352,000 value added by manufacture-adjusted; $267,510,000 cost of materials; $567,954,000 value of shipments; $27,580,000 capital expenditures-new; and, 93,154 end of year inventories.



IMPORTS & EXPORTS

Exports From Canada

(Published by Dominion Bureau of Statistics) OCTOBER 1966

Unmanufactured Asbestos:

Short Tons

	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
United States	7	1,550	20,199	32,138
United Kingdom	..	563	6,598	6,495
South America	..	25	3,149	674
Central America & Mexico	..	10	2,100	195
Europe	1	1,039	20,534	11,211
Japan	14	295	1,901	4,996
Other Countries	..	248	7,796	2,249
	19	3,730	62,277	57,908

Total Unmanufactured Asbestos—123,934 Valued at—$16,052,000

Manufactured Asbestos Goods:

Asbestos Brake Linings & Facings	$ 44,000
Asbestos-Cement Building Materials	38,000
Asbestos Basic Products, Other	317,000
	$ 399,000

Australia Imports/Exports—FIRST QUARTER 1966 asbestos imports amounted to 12,919 short tons (Amosite 3,037, Chrysotile 9,571, Other 311). Asbestos exports amounted to 1,389 for all types and grades. (Bureau of Mineral Resources)

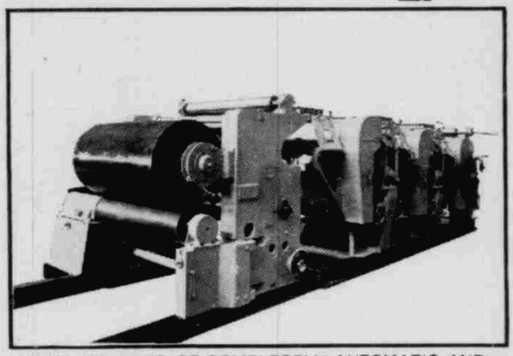
Cyprus Exports—FOURTH QUARTER 1966 exports of asbestos totaled 4,432 tons, valued at £199,137: October—£73,665; November—2,764, £125,431; and, December—1, £41. (Ministry of Commerce & Industry, Nicosia)

Italian Exports—24,772 tons of asbestos-cement products have been exported from Italy during the period from January through June 1966, a 14% increase over the 1965 figure of 21,715 tons.

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asbestos cement plants





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INDUSTRY NEWS

HAPPY BIRTHDAY

Jan van der Putten, Chairman & Managing Director, Putten's Asbestos Organization, Johannesburg, South Africa, March 15.

James Stockman, Chairman, United States Asbestos Company, Santa Rosa, California, March 15.

Richard L. Small, Treasurer, Drycor Felt Company, Staffordville, Connecticut, March 16.

Douglas Aynsley, Director, Beldam Asbestos Company Limited, Lascar Works, Hounslow, Middlesex, England, March 17.

Colon Brown, Chairman & Chief Executive Officer, National Gypsum Company, Buffalo, New York, March 17.

Walter J. Keimig, Secretary, Scandura, Inc., Charlotte, North Carolina, March 18.

J. O. Eby, Vice President & Jeffrey Mine Manager, Canadian Johns-Manville Co. Ltd., Asbestos, Quebec, Canada, March 19.

Emil T. Johnson, Senior Vice President, Fibrous Products Division, Unarco Industries, Inc., Bloomington, Illinois, March 21.

John H. Balch, Senior Vice President & Treasurer, Unarco Industries, Inc., Chicago, Illinois, March 22.

Grady B. Gulledge, President, Pan-American Fiber Corporation, Phoenix & Globe, Arizona, March 23.

O. A. Maggia, Secretary & Treasurer, The Ruberoid Co., New York City, March 24.

George Barge, Director, Atlas Asbestos Company, Montreal, Quebec, Canada, March 27.

M. Stanley Davis, Jr., Executive Vice President, Pipe Division, Certain-teed Products Corporation, Ambler, Pa., March 27.

Adrain R. Fisher, Director, Johns-Manville Corporation, New York City, March 27.

Edward McL. Tittmann, Chairman, American Smelting and Refining Company, New York City, March 27.

Jesse T. Griffis, Manager, Marketing Development Textiles, H. K. Porter Company, Inc., Pittsburgh, Pa., March 28.

E. D. Ermenc, Director of Research, The Philip Carey Manufacturing Company, Cincinnati, Ohio, March 29.

Charles W. Hite, Vice President for Industrial Relations, Johns-Manville Corporation, New York City, March 30.

Ernest L. Ostic, Director, Technical Sales & Field Engineering, The Ruberoid Co., New York City, March 30.

Ross E. Sampson, Mine Manager, Advocate Mines Limited, Baie Verte, Newfoundland, March 31.

Francis H. May, Jr., Vice President for Finance, Johns-Manville Corporation, New York City, April 2.

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William H. White, Treasurer & Assistant Secretary, Raybestos-Manhattan, Inc., Passaic, New Jersey, April 2.
Cedric H. Rothschild, Secretary-Treasurer, Canadian Asbestos Company, St. Laurent, Montreal, Canada, April 5.
L. E. Lewis, Vice President, Asbestos Products, Inc., St. Paul, Minnesota, April 9.
Raymond J. Sachs, President, H. W. Porter & Company, Inc., Baltimore, Maryland, April 10.
Dr. P. H. Riordon, Vice President-Operations, Asbestos Corporation Limited, Thetford Mines, P.Q., Canada, April 13.
J. Vermeer, Managing Director, Chemische Productenhandel J. J. van de Vrande, Haarlem, The Netherlands, April 13.

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

Birla/Glenco Asbestos—An industrial group in Calcutta, India, Birla Brothers (Private) Limited, are sponsoring a company at Livingston, Scotland, to manufacture asbestos-cement products for the building industry. The company, Glenco Asbestos Limited, hopes to be in production by the end of this April. The plant and machinery are being shipped from India and are to be installed under the supervision of an engineer from the associate company in India.



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HUMES LIMITED

R. J. Gray, at present general manager of Hume Industries (Far East) Limited, will return to the parent company in the middle of this year. He will assume the position of Technical Manager Steel on Mr. Hopkins' retirement in July 1967. As a result of Mr. Gray's transfer, **M. Y. O. Fam** will be promoted to General Manager of Hume Industries (Far East) Limited, and **R. H. Hellings,** present Manager Tasmania, will assume the position of Assistant General Manager, Hume Industries (Far East) Limited.

UNITED STATES RUBBER COMPANY

Stewart N. Smith has been appointed Marketing Manager for textile fibers, Textile Division, U.S. Rubber. He will be in charge of marketing activities for all of the division's fibers and replaces **W. Lindsay Wylie,** who is now Vice President and General Manager of the Textile Division. **Fred C. Phillips** was named Marketing Manager of general textile products succeeding Mr. Smith. He will be responsible for product and marketing planning for knitting and tufting yarns, tire cord and industrial textiles.

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CERTAIN-TEED PRODUCTS CORPORATION

J. O. Biggs has been elected Executive Vice President for Certain-teed. He has been associated since 1958 with Gustin-Bacon Manufacturing Company, which was merged into Certain-teed a few months ago. He became a corporate vice president and a director of Certain-teed, as well as president of its new Gustin-Bacon Division, at the time of the merger.

SIMPLICITY ENGINEERING COMPANY

Oliver "Ollie" Dakan has been promoted to Sales Representative for the Texas, Oklahoma, Louisiana and Arkansas territory. He started with Simplicity in February 1963 in the vibratory equipment engineering department.

Robert L. Pierce has been named General Manager of Simplicity Engineering, manufacturers of vibratory equipment for the aggregate, foundry, mining and food industries. He started with the company in March 1963 as general sales manager and was promoted to assistant general manager in 1965.

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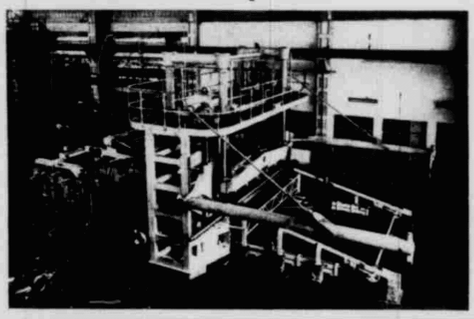
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ASBESTOS PRICES

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

(As of July 10, 1964)

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

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

(As of January 1, 1965) Canadian Currency

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

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

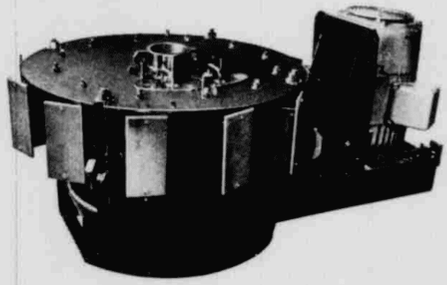
(As of April 1, 1967) Canadian Currency

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 January 10, 1965) U. S. Dollars

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



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ASBESTOS STOCK QUOTATIONS

Close—February 28, 1967

Abex Corp	32	Flintkote (Com)	20¼
Abitibi	*11½	Johns-Manville	55¼
Advocate Mines	*$3.50	McAdam Mining	*$1.51
Asarco	61¼	Natl Gypsum (Com)	37⅞
Asbestos Corp	*$22.00	Natl Gypsum (Pfd)	86
Carey, Philip	37	Patino	*$9.50
Cassiar Asbestos	*$16.12	Raybestos	58
Certain-teed (Com)	17¼	Ruberoid	27
Certain-teed (Pfd)	187⅛	Unarco	11⅝
		United Asbestos	*$2.77

*Canadian currency

Simplicity Engineering Company, Durand, Michigan, has appointed R. A. YOUNG & SON, INC. to serve as dealers for the aggregate industry in Oklahoma and Arkansas for its complete line of vibrating screens, feeders, and crushers. Young has headquarters in Ft. Smith, Arkansas; and also offices in Little Rock, Arkansas; Tulsa, Oklahoma; and Oklahoma City, Oklahoma.

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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 January 10th through February 7th, 1967.

3,297,296—Hot Top Composition For Casting Molds, J. O. Edstrom & H. H. De Geer (assigned to Sandvikens Jernverks A.B., Sandviken, Sweden), January 10, 1967.

3,297,458—Plastic Chrome Ore, H. M. Mikami (assigned to E. J. Lavino & Company, Philadelphia, Pennsylvania), January 10, 1967.

3,297,516—Process For Dispersing Asbestos, A. W. Naumann & W. H. Dresher (assigned to Union Carbide Corporation, New York City), January 10, 1967.

3,297,517—Manufacture of Mineral Fiberboard, J. E. Cadotte (assigned to Wood Conversion Company, St. Paul, Minnesota), January 10, 1967.

3,297,599—Friction Composition For High Energy Service, F. W. Eschen (assigned to Johns-Manville Corporation, New York City), January 10, 1967.

3,300,332—Hot Top, H. H. De Geer (assigned to Sandvikens Jernverks AB., Sandviken, Sweden), January 24, 1967.

3,300,372—Fire-Resistant Building Board and Process, D. R. Bauer (assigned to Kaiser Gypsum Company, Inc., Oakland, California), January 24, 1967.

3,301,785—Insulated Solid Propellant Rocket Motor, O. D. Ratliff & H. J. McSpadden (assigned to North American Aviation, Inc., address not listed), January 31, 1967.

„ Tropag "

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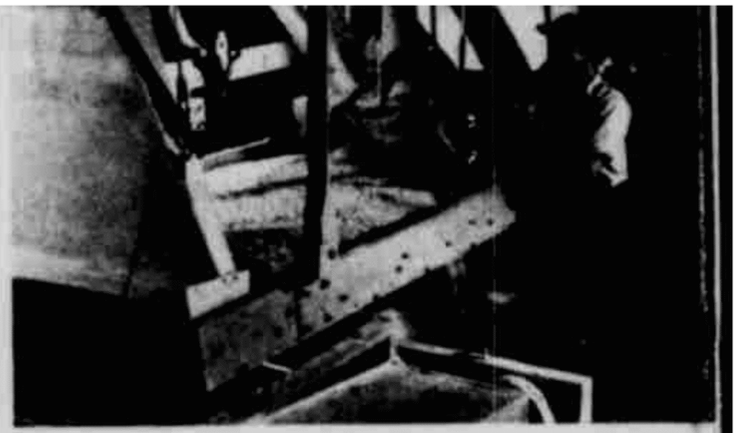
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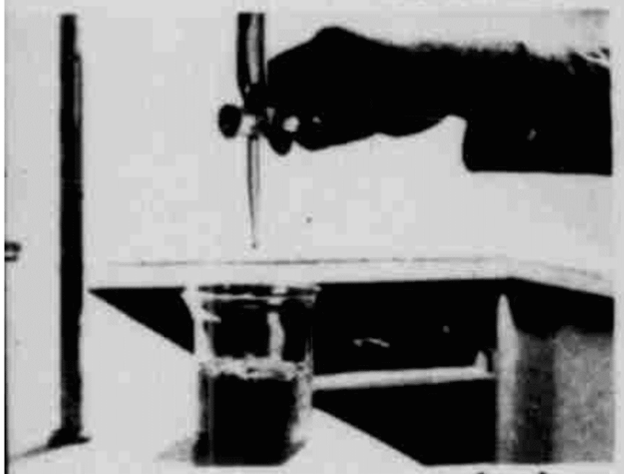
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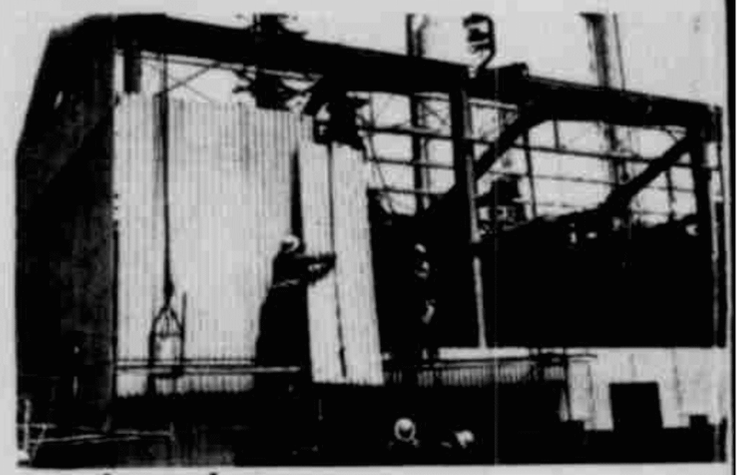
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