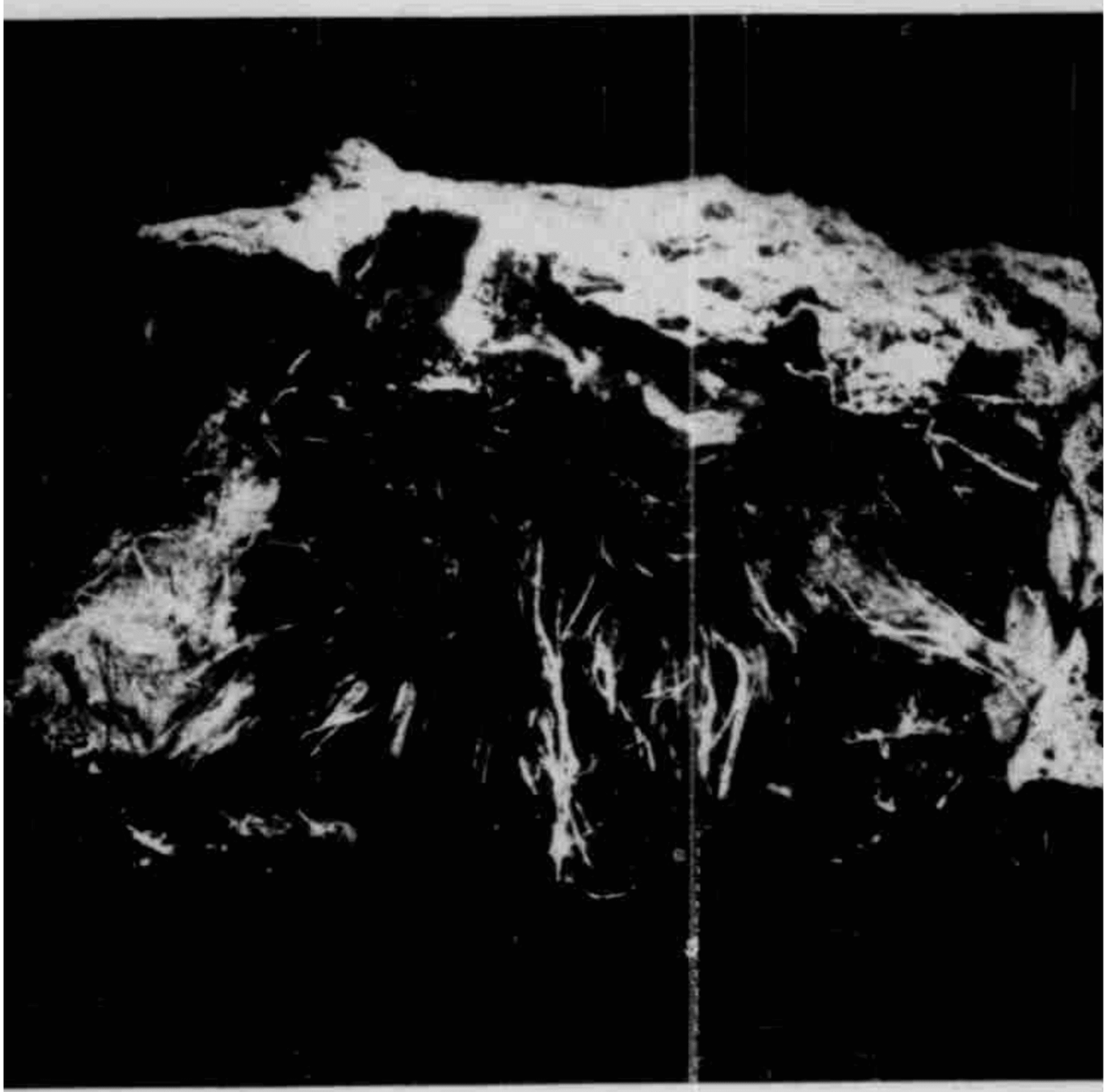
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R/M Thermal Insulating Tapes, made to Military Spec. MIL-I-15349A, consist of a tubular woven asbestos sheath in A.S.T.M. Grade AA and a stuffer of fiber glass slivers. The stuffer or insulating medium provides a weight saving of 6-19% in Type I and 20-36% in Type II, compared with the same sheath containing Amosite asbestos stuffer. R/M supplies these tapes in the three sizes covered by MIL-I-15349A and in eight additional sizes. Generally specified for insulating small piping aboard ship, they are also used in industry wherever vibration or physical abuse would damage or destroy standard sectional insulating materials. Write for samples and product data.

R/M

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Manheim, Pa.
SPECIALISTS IN ASBESTOS, RUBBER, ENGINEERED PLASTICS, SINTERED METAL

# "ASBESTOS"

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## REINFORCED ASBESTOS PLASTICS

By: D. V. Rosato, Consultant, Waban, Massachusetts

The accelerated pace at which technology is advancing in this atomic and space age has created many new demands for R.P. basic materials and techniques. R.P. with asbestos has been growing rapidly as a realistic production product in the past five years with a greater growth pattern predicted for the future. Some areas of current interest and probably future developments are reviewed.

Fillers in the form of finely divided inert material are often times added to the laminating resin. These fillers such as asbestos are generally used to improve the bond between resin and glass, to reduce shrinkage crazing of the resin, to provide tacky resin, to reduce thermal coefficient of expansion, to reduce or eliminate leakage, and to increase mechanical properties. As an example, when reviewing properties the asbestos with low shear strength in thermosetting resins can produce non-brittle or tough parts. Asbestos is used in polyamide resin to produce greater stiffness, higher heat deflection temperature and improved stability, creep resistance and cold flow.

Many fabricators are using various forms of asbestos tape — phenolic resin prepregs and/or molding compounds in rocket motor exit cones. The asbestos filled material provides combinations of insulations and strength in Polaris, Minuteman, Areas, Sprint, etc.

Johns-Manville Corporation has been producing asbestos-epoxy and phenolic resin piping and fittings which do not weep. The fibers used are specially prepared and converted into highly saturable asbestos papers or felts. The impregnated sheets are converted into varying lengths of pipe by being wrapped on a mandrel under heat and pressure. Curing is performed in an autoclave at 100 psi and 338°F for 2 hours. The pipe is then stripped from the mandrel and post-cured for 4 hours at 400°F. The piping materials are homogeneous throughout the wall and contain no liners to resist the action of fluids. Field tests of at least six years have indicated no failure due to weeping.

Most re-entry heat shields for missiles (Jupiter, Atlas, Titan, Minuteman, etc.) and spacecrafts (Mercury, Apollo,





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As the world's largest independent primary producer of asbestos for every application, Asbestos Corporation Limited is vitally interested in seeing the relationship between plastics and asbestos grow. If you have a project, process, product or problem which involves asbestos, discuss it with the specialists of Asbestos Corporation Limited, Thetford Mines, Canada.

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ASBESTOS

etc.) are made of reinforced plastics (glass-phenolic, asbestos-phenolic, etc.). Even though undesirable properties exist with these ablative materials, there are more major problems with other schemes; such as red hot surface on heat sinks can cause drastic problems when the earth is reached.

Current development programs involve elimination of re-entry communication blackout for re-entry aerospace planes and spacecraft. Blackout can occur at varying frequency from low to high extremes. The exact frequency of blackout is dependent on velocity, altitude, geometry and configuration of the re-entry body. The ionized plasma sheath around the body does not permit rf transmission. Associated with this problem is the extreme temperatures which exist (4,000 to 10,000° F.). In order to obtain transmission, development programs include setting up electromagnetic waves and chemical additives in the plasma sheath in order to eliminate or reduce the density of the nontransmitting sheath.

Additives may reduce electron concentration in the ionized air layer. Fluorcarbons and electrophilic compounds exposed to the sheath reduce shock heating and ionization. Ablative reinforced plastic nose cone materials containing various additives are being evaluated.

The Project Fire (NASA/Republic) is providing simulated spacecraft re-entry vehicles to study heat and communication problems. Instrumented payloads are being launched on a suborbital trajectory and then accelerated down into the atmosphere to a speed of 25,000 mph. The project's purpose is to supply definitive information to supplement analytical and wind tunnel research on atmosphere entry at 25,000 mph. This is the velocity that spacecraft will have reached when they return to the vicinity of earth after a mission to the moon. The blunt, conical-shaped capsule is 26.5 inches in diameter. It weighs approximately 290 pounds. The heat shield is phenolic-asbestos sheet material. Beryllium calorimeter sheets are imbedded in the heat shield.

The spacecrafts for Project Fire are designed to resist stringent thermal, vibrational, electromagnetic and mechanical loading while maintaining minimum weight. In order to meet these targets the external shell is made of glass fabric-triallyl cyanurate polyester. The heat shield is phenolic-asbestos. The electro-magnetic window area is sili-







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B E H

cone-glass laminate. Thermal insulation was J/M Min-K core with R/M phenolic-asbestos skins.

The New York World's Fair is expected to give impetus to R.P. acceptance for building structures which predominately are glass filled. With the winged structures for the Bell Telephone building at the Fair, an interesting trend in the development of R.P. in construction is illustrated. Sprayed asbestos on the molded sections underside to provide both insulation and the all-important fire-resistance needed to pass the one-hour fire rating test.

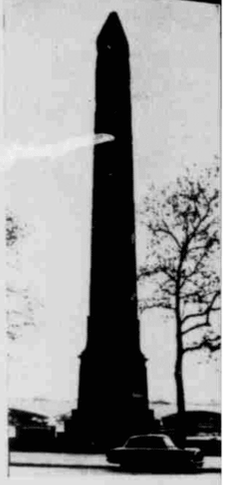
The largest industrial reinforced plastic filament-wound item was recently made by Black, Sivalls and Bryson, Inc. for the North American Car Corporation, Chicago, Illinois. It is a railway tank car 9-feet in diameter and 55-feet long. Total weight of this 22,500 gallon capacity tank with carriage is 26 tons. The basic weight of the tank is 8,000 pounds as compared with the 27,000 pounds for the steel tank it replaces. The plastic tank can contain 100 tons of liquid. Its working stress level is 12,000 psi at a 100-pound working pressure. Its wall is ⅜-inch thick. The inside surface of the glass roving-epoxy resin tank is completely covered with blue asbestos fiber-epoxy resin to provide maximum corrosion resistance. The inherent inertness to corrosion of the glass-epoxy composite makes it useful to transport many different corrosion solutions. Steam cleaning between different chemical loads is all that is needed to maintain the tank clean and in a corrosion-free condition.

Development continues on newer filaments for filament winding applications requiring higher temperatures, greater stiffness, or higher strength. Fibrous materials, under study for use alone or in combinations include boron, quartz, asbestos and metals.

To provide corrosion resistant miles of pipe to handle chlorine and caustic soda, Amercoat Corporation has produced 50 per cent more efficient pipe than conventional pipe since 1959. Two types of pipe being produced are helically filament wound. One type has glass fiber-epoxy over asbestos-epoxy. The other type has glass fiber-epoxy over asbestos polyester.

Asbestos direction regarding R.P. can be related to Oliver Wendall Holmes' statement, "The great thing in the world is not so much where we stand as in what direction



CLEOPATRA'S NEEDLE, LONDON

Through the patriotic zeal of Erasmus Wilson, F.R.S., this obelisk was towed from Alexandria encased in an iron cylinder. It was abandoned during a storm in the Bay of Biscay, but recovered and erected on the Embankment, London, by John Dixon C.E. 1878.

It was presented to the British Nation by Mahomed Ali, one-time Viceroy of Egypt, as a memorial to Nelson and Abercrombie.

The word Needle common to monument and felt alike serves to point to the new

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we are moving". Asbestos R.P. continues to be dependent on the coordinated activities of the research engineers, application engineers, and users of end items.

**References:**
1—Filament Winding, D. V. Rosato & C. E. Grove, 1964, John Wiley & Sons, Inc. N.Y.C.
2—Asbestos Fundamentals, H. Berger, 1963, Chemical Publishing Co., N.Y.C.
3—Asbestos—Its Industrial Applications, D. V. Rosato, 1960 Reinhold Publishing Co., N.Y.C.

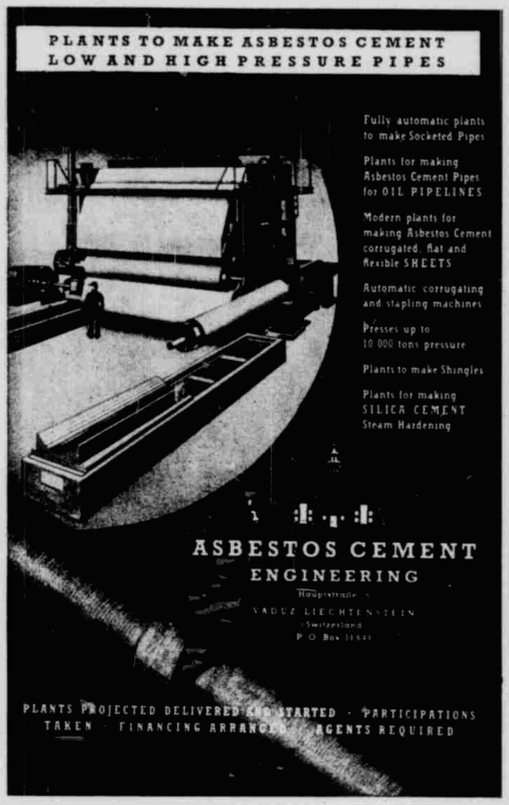
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U. S. RUBBER—In a move to consolidate the location of its sales management with production and research, the Textile Division of the United States Rubber Company will open a new administrative center in Winnsboro, South Carolina on June 29th, 1964. Eighteen people will move from the company's New York headquarters to the Southern city offices. The opening of the administrative center serves a manifold purpose. Besides consolidating sales, production and research, it will also put the Textile Division in a position to improve service to its many customers. Also, a new sales district to serve the Division's customers in the Northeast has been formed which will operate out of the company's New York offices. Remaining in the New York office will be Claude H. Allard, R. A. All, W. A. Singleterry, Philip Bergh and staff personnel for Vyrene, new product applications, market and development and fashion design. Among those moving from New York to Winnsboro are all the Division's Sales Managers, including V. C. McQuiddy, L. M. Boulware, F. T. Hopkins, Staton J. Peele, F. C. Phillips and W. L. Wylie.

---

JOHNS-MANVILLE has exercised an option to purchase a 100-acre manufacturing site in Scotland County, North Carolina, for the construction of a new *asbestos friction materials plant* to manufacture brake shoes and other friction materials for the transportation industry. The new plant will be under the operating responsibility of the J-M Packings and Friction Material Division, which also operates manufacturing facilities at Marshville, North Carolina; Manville and North Brunswick, New Jersey; and Waukegan, Illinois.









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## MINERAL FIBER

### A New Siding—A New Industry Association

Asbestos cement siding has a new name, a reorganized industry association, and a nationwide campaign to inform builders and remodeling contractors of product improvements which, in effect, make the siding a new product.

Some in the industry have been selling Plastierylic, some Roctone, some Rock Shakes, some Vitramic or, Dura Shakes, and some have been selling asbestos-cement siding. This confuses the customer and that is why the name of the product and the name of the Association are being changed.

The new generic name for the improved asbestos-cement is *Mineral Fiber*. The reorganized industry association (formerly the Asbestos-Cement Products Association) is the *Mineral Fiber Products Bureau*. A promotional program, sponsored by the Bureau, will feature product information and material of special interest to dealers and builders as well as home owners. This will be made available to newspapers throughout the country and to trade and consumer publications. Sales aids such as brochures and folders will be developed for representatives of manufacturers and distributors.

*F. E. Dutcher*, Vice-President and Manager of the Building Products Division of Johns-Manville Corporation, has been elected President of the Mineral Fiber Products Bureau. *A. H. Fay*, Director of Products for National Gypsum Company, is Vice President of the Bureau; and *T. J. McDonald*, Sales Manager for The Flintkote Company, is Treasurer. Members of the Executive Committee represent each of the five member companies. In addition to Mr. Dutcher, they include *H. Michelsen*, President of Atlantic Asphalt and Asbestos, Inc.; *J. D. Moran*, Vice President of The Flintkote Company; *J. W. Brown*, Senior Vice President of National Gypsum Company; and, *F. K. Sweeney*, Vice President and General Manager of the Building and Industrial Products Division of The Ruberoid Co. *G. R. Munger*, Managing Director of the Bureau, is supervising the coordination and planning of all Bureau activities.

Mineral fiber siding is available in the form of shingles,




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panels, or flat sheets. Commenting on characteristics of the siding, Mr. Munger stated: "Perhaps the least obvious to the eye but vitally important is the fact it is autoclaved. This high heat, high-pressure steam process 'shrinks' the siding. Because it is factory stabilized, it will not warp or curl, and shrinkage is almost zero. In addition, the high temperatures of the autoclave process actually change the chemistry of the asbestos-reinforced cement by removing 'free' lime. 'Free' lime, when present, can cause exterior masonry surfaces to turn white. The most obvious improvement is in texture and color. Today's deeper textures can be seen close-up or even from-the-road. The modern weather-resistant plastic finishes assure long lasting colors which can be reproduced run after run. In pastels or darker shades, they provide a wide range of decorator selections."

---

CAPE BLUE PRODUCERS CO (PTY) LTD—Further to the article entitled "Proposed Association—Classification of Cape Blue Asbestos" (January 1964 "ASBESTOS", page 28) which announced that an agreement had been reached for the formation of an association in South Africa whose objects will be to attain standardization of grades and their nomenclature and to develop the exceptional inherent qualities of Cape Blue Fibre, the Cape Blue Producers Company (Pty.) Limited was registered on February 20th, 1964. The first meeting of Directors was held on March 31st, 1964, and the following were appointed to the Board: J. G. MacKeurtan—Chairman (Director of Cape Asbestos S.A. (Pty.) Limited); L. M. Kuyper (Director of Cape Asbestos S.A. (Pty.) Limited); C. E. Dixon (Director of Wandrag Asbestos (Pty.) Limited); H. S. van Eeden (Managing Director of Griqualand Exploration & Finance Company Limited); and, A. D. Todd (General Manager of Griqualand Exploration & Finance Company Limited).


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ASTM—The election of the new national officers for the American Society for Testing and Materials was announced on June 23rd, 1964, at the President's Luncheon, Conrad Hilton Hotel, during the 67th Annual Meeting of the Society in Chicago, Illinois.

*Charles L. Kent*, Assistant Director, Technical Services, Jones & Laughlin Steel Corporation, was elected *President* of ASTM to serve for a one-year term beginning at the close of the Society's week-long meeting.

*James B. Rather, Jr.*, Toxicology and Pollution Advisor, Socony Mobile Oil Company, Inc. was elected for a two-year term as a *Vice-President*.

*Robert F. Legget*, Director, Division of Building Research, National Research Council of Canada, will continue as a *Vice-President*

New members of the Board of Directors elected for three-year terms were: Thomas L. Barnes, Robert M. Berg, A. Clarke Beiler, Leo S. Crane, Robert L. Terrill, and Calvin H. Yuill.

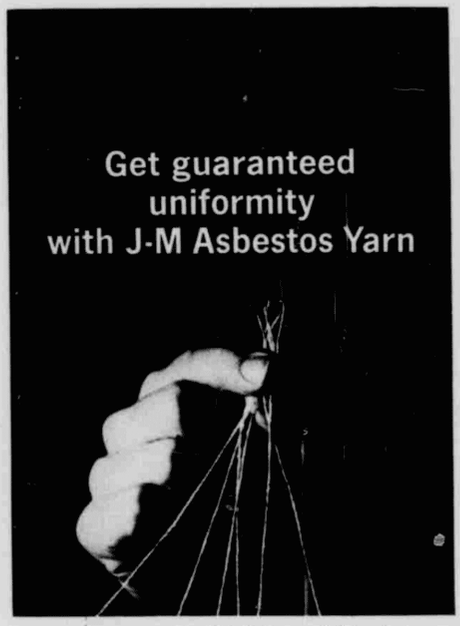
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HARRY A. R. BINNEY, Esq., C.B., Director of the British Standards Institute, was honored on June 23rd, 1964, when he was presented with a certificate of his election to Honorary Membership in the *American Society for Testing and Materials*. This is ASTM's top award to members and the presentation was made at the 67th Annual Meeting in recognition of long and distinguished service in the development of international standards, especially for eminent leadership and successful administration of this work through the British Standards Institution, the International Standards Organization, and the International Electrotechnical Commission.

---

D. H. LAUBSCHER, Chief Geologist, Shabanie Mine, Southern Rhodesia, has been awarded a Doctorate from The University of Witwatersrand, Johannesburg, Republic of South Africa, for his thesis on "The Origin and Occurrence of Chrysotile Asbestos in the Shabani and Mashaba Areas, Southern Rhodesia".




For more than a century, Johns-Manville has provided its asbestos yarn customers with unerring uniformity. Made from carefully selected, high-quality roving, this yarn is available in any grade, cut or ply. It's available faster, too, because J-M has added a new plant in Marshville, N. C. For full details on the many varieties of asbestos yarns we make, send for our 16-page illustrated brochure, TX-17A. Write to Johns-Manville, Box 359, New York, N. Y. 10016. In Canada: Port Credit, Ontario. Cable: Johnmanvil.

**JOHNS-MANVILLE JM ASBESTOS TEXTILES**

## AUTOMOBILE SALES

APRIL 1964—The Automobile Manufacturers Association, Detroit, Michigan, has issued the following statistics for April 1964 of motor vehicle factory sales from plants in the United States: passenger cars 786,355, trucks and buses 153,504; total for April 1964 was 939,859 compared to 817,962 in April 1963. Total motor vehicles for the first four months of 1964 amounted to 3,474,142.

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ASBESTOS-CEMENT MACHINERY, by Herbert Hiendl, German issue, (see December 1963 "ASBESTOS", page 34), the handbook explaining the design and use of the latest machines and equipment for the asbestos-cement industry, has been a great success, mostly due to the fact that it is the first of its kind on sale since the last 40 years. Because of an ever-increasing demand from all over the world, it has been decided to also publish this handbook in English and the edition is expected to be completed by August 1st, 1964.

Copies of either the German or the English edition may be obtained from CL. Attenkofersche Buch- und Kunstdruckerei-Verlagsbuchhandlung, PostschieBfach 100, 844 Straubing, Germany.

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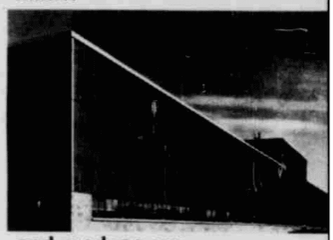
REX ASBESTWERKE have established an institute to engage in work to develop technical advice for the use of their customers, the solving of technical problems, to offer specific research work and to develop new and better products. This new institute was subsidized by the State of Baden-Wurttemberg from funds for scientific research. The building to house the research institute and the executive offices of the company are completed and effective June 15th, 1964, the new address is: REX ASBESTWERKE, Graf von Rex KG, Schillerstrasse 40 (P. O. Box 540), 717 Schwabisch Hall, Germany. The firm's offices in Berlin, Essen, Hamburg and agencies in Mannheim and Munich remain at their same locations.




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## BUILDING

MAY 1964—According to F. W. Dodge Company, a division of McGraw-Hill, Inc., the value of construction contracts in the United States during May 1964 (with percentage changes from May 1963) totalled $4,639,330,000, down 4%—nonresidential building, $1,362,291,000, down 6%; residential building, $2,050,108,000, down 1%; and, non-building construction, $1,226,931,000, down 8%.

The total value of construction contracts of all kinds at the end of five months 1964, was leading the 1963 volume by 9%.

---

NICOLET has announced the availability of a new neoprene sheet packing material designed for use in refrigeration and air conditioning gasketing applications. Designated as *K&M 466 sheet packing*, this material is recommended for use in Freon, sulphur dioxide and ammonia systems and is composed of graded asbestos fibers bonded under pressure with synthetic rubber compounds to form a pliable homogeneous sheet. It comes in a variety of thicknesses, ranging from 1/64″ to 1/8″, and in standard sizes of 50″ by 50″ and 60″ by 60″ packaged in roll form or flat on skids up to 2,000 pounds. The new packing material, in 1/32″ thickness, has a transverse tensile strength of 2,500 pounds per square inch and an average tensile strength of 4,000 pounds per square inch. It has a compressibility rating of 12% at 5,000 psi, a recovery rating of 40%, minimum, and density of 105 lbs. per cubic foot.


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ASBESTOS FIBRES






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R/M POLYBESTOS CLOTH—New safety garments made of Raybestos-Manhattan's Polybestos cloth are providing greater personal protection and have proved to be 20% to 50% more durable than the asbestos-cotton garments previously used by molten metal handlers at Bethlehem Steel Company's plant at Bethlehem, Pennsylvania. R/M's Polybestos cloth is an asbestos cloth in which polyester fibers—which are not materially damaged by exposure to temperatures up to 500°F.—are substituted for the cotton fibers used in asbestos-cotton cloth. After evaluating the results of blast furnace and open hearth field tests, several advantages of the R/M material were cited: it has a smoother surface than asbestos-cotton and molten metal bounces off it readily; when new and after exposure to high temperatures, it is stronger than the asbestos-cotton fabric; and, Polybestos garments offer greater resistance to abrasion and wear.

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ASTM $1,000 GRANTS-IN-AID for 1964-1965 will be made to University of Arizona, Carnegie Institute of Technology, Lehigh University, The University of North Carolina, and Rutgers, The State University. Grants will be placed at the disposal of the faculty members who are directing the selected research projects. ASTM annually presents grants-in-aid to five of the nation's engineering and science schools to promote pure and applied research in materials or the properties of materials. This award program was established in 1959 to further the work of the Society in the field of research and standardization of materials.


„Tropag"

Hamburg —:— Ballindamm 6

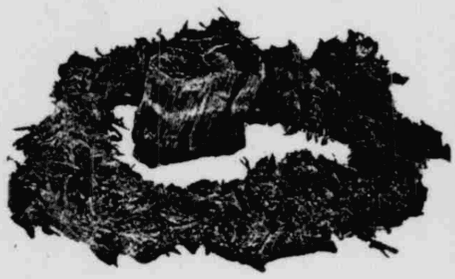
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CAREYTEMP, a strong, efficient insulation designed to meet the most demanding physical, chemical and moisture resistant requirements, is described in a new 8-page brochure—Form No. 6627. The product is an industrial insulation featuring water, acid and fume resistance; low "K"; incombustible; low shrinkage; light weight; low application cost and is composed of expanded perlite, a silica with especially developed binders and is reinforced with inorganic fibers. Features and details included in this new brochure include Careytemp composition, sizes and shapes, jacketing, physical properties, approximate weight, application specifications and tables of recommended thicknesses in easy to read tabular form.

CAREY BROCHURE—Form No. 6551 is a new 8-page brochure listing all types of Carey Industrial Insulations and Insulating Cements for use in power, chemical, petroleum, petrochemical, commercial and manufacturing industries. The Insulation Selection Guide on the front cover lists application for high temperature equipment, super heated surfaces, medium and high pressure steam surfaces, low and medium pressure steam lines, cold water pipes, heating and air conditioning ducts and equipment. The Cement Selection Guide lists applications for pointing up insulation, pipe and block, small fittings, medium and large fittings, refractory coating and patching, finishing over molded insulations, bonding insulation to metal surfaces, waterproofing, boilers, tanks and stills.

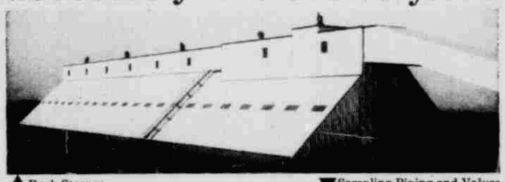
Copies of Forms No. 6627 and 6551 are available from The Philip Carey Manufacturing Company, 320 South Wayne Avenue, Cincinnati 15, Ohio.

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PACIFIC ASBESTOS CORPORATION is the new name of the company formerly known as *Jefferson Lake Asbestos Corporation*, effective May 25th, 1964. The stockholders felt that this new name more closely identified the location of the company's mine and the principal marketing area which it serves. The tradename "Mother Lode Asbestos" will continue to be used and operating personnel is unchanged.




*Quality controlled asbestos from ore to fibre*



▲ Rock Storage ▼ Sampling Piping and Valves



This 24,000 ton capacity rock storage building provides for blending of ore from various sections of the Carey-Canadian open pit mine—the first step toward assuring customers of constant uniformity of asbestos fibres and shorts.

Solenoid actuated valves controlled from the Quality Control Laboratory periodically draw samples of fibre and shorts from mill production. Continuous testing of samples insures the quality and uniformity associated with Carey-Canadian Asbestos Fibre and Shorts.

Carey-Canadian "quality controlled asbestos" may solve some of your operating problems. The assistance of factory trained Asbestos Fibre Sales Engineers may be obtained by writing any address below:

Carey® ASBESTOS FIBRE

Carey-Canadian Mines, Ltd., P. O. Box 95, Cincinnati 15, Ohio
Carey-Canadian Mines, Ltd., East Broughton Sta. P. Q.
The Philip Carey Co., Ltd., Ville St. Laurent, Montreal 9, P. Q.

# MARKET CONDITIONS

ASBESTOS—RAW MATERIAL.

Quebec asbestos fibre shipments for the Industry during May 1964 were 116,711 tons, an increase of 7,825 tons or 7% over the same period last year.

Year to date shipments at 440,406 tons exceed the same period 1963 by 48,686 tons or 12%.

ASBESTOS—MANUFACTURED GOODS.

*Asbestos Textiles.* With the automotive industry enjoying continued high sales and heavy industry operating at record levels, the demand for asbestos textiles remains brisk. Industry sales to date are well ahead of 1963 and are exceeding forecasted levels for 1964. Manufacturers' attitudes reflect optimism that 1964 will be another banner year.

*Asbestos Brake Lining.* The present market situation for this material is excellent, both in Original Equipment Sales and Replacement Sales (sometimes called aftermarket sales). This condition should continue as long as new models remain selling at their current high rate.

*Asbestos Paper & Millboard.* These markets remain steady and competition is keen, particularly for large requirements. No appreciable change in this condition is expected during the summer months.

*Asbestos Saturated Paper.* Quantity of business for this market is seasonally good and should remain so during the months to come.

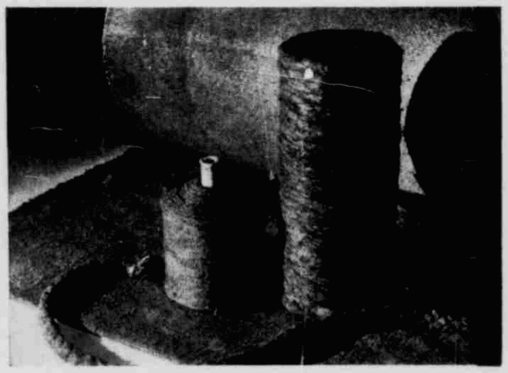
*Low Pressure Insulation.* This market was excellent during the first quarter of 1964 and the present level of business appears to be good. Level of demand for the year is expected to be about 9% ahead of 1963.




# NORAMITE

**... Crocidolite and Amosite Asbestos Products for Reinforcement of Plastics**

Noramite identifies a group of new products which greatly extend the range of properties normally available in reinforcing fibers. Noramite products, all based on Amosite or Crocidolite asbestos, include prepared fibers, rovings, ropes and fabrics. Greater chemical resistance, higher moduli, and greater heat resistance are among the principal advantages of Noramite products.



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Board of Trade Building • Chicago 4, Illinois

CAPE

*In Canada*
**CAPE ASBESTOS (CANADA) LIMITED**
3313 Bloor Street West • Toronto 18, Ontario • Canada

Subsidiaries of The Cape Asbestos Company, Ltd., London





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*Asbestos-Cement Pipes.* The vitality shown by this market through the first half of this year shows signs of a gradual weakening but not in alarming proportions. The outlook for the rest of the year continues to appear to be favorable.

*Asbestos Filter Fibre.* The level of business in the low iron filter fibre market has decreased seasonally but is expected to improve in the very near future. The outlook for the rest of the year is very good and should prosper.

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

---

NICOLET has just made available a five-page, two-color technical data sheet which gives full details of its new *K&M Kon-X bearing pads* designed for use as vibration dampeners in bridge construction. Kon-X bearing pads are composed of asbestos fibers and a synthetic rubber elastomer. When placed between steel or prestressed concrete beams and bridge abutments, they effectively reduce vibration and stress on bridge members caused by vehicular traffic. The new data sheet illustrates the applications of Kon-X bearing pads, lists the product's physical characteristics, and gives their complete specifications.

Copies of the Kon-X bearing pad data sheet are available without cost from Nicolet Industries, Inc., Florham Park, New Jersey.


**GUMMI ASBEST KUNSTSTOFFE**

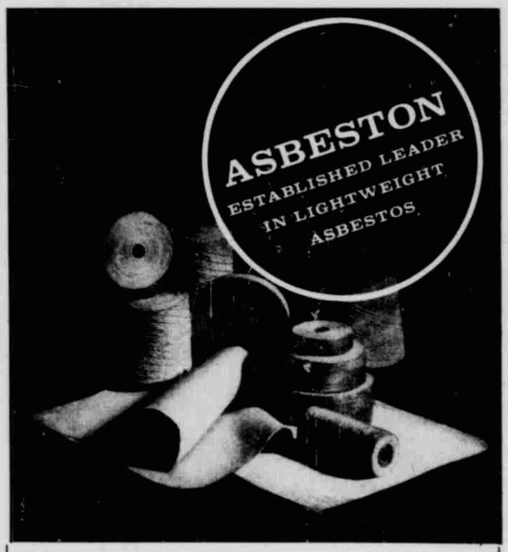
is the asbestos periodical in Europe which covers editorially in each issue the production, processing and application of asbestos. Therefore, it is read by all firms connected with the importing and processing of asbestos in 60 countries and is used for advertising by the asbestos mines all over the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

Subscription fee DM 66.—plus postage per year.

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








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And when unusual or special high-temperature conditions must be met, call on our experienced technicians to adapt the unique ASBESTON spinning process to the special yarns or fabrics you need.

For detailed information on how ASBESTON yarns, fabrics or tapes can serve you best, write Asbeston Dept., United States Rubber, Rockefeller Center, New York 20, N. Y.

**ASBESTON®** US ANOTHER PRODUCT OF U.S. ROYAL TEXTILES





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# PRODUCTION

**Australia**—The Bureau of Mineral Resources has issued "The Australian Mineral Industry" for the 3rd quarter of 1963 containing the following production statistics on asbestos: Production totalled 3,932 short tons (Chrysotile—259, & Crocidolite —3,673).

**Canada**—The Dominion Bureau of Statistics has issued the following for the month of April 1964 in short tons: Producer's Shipments totalled 121,247 (Quebec—113,478 and Newfoundland, Ontario and British Columbia 7,769). Total shipments for April 1963 were 110,684.

**Southern Rhodesia**—The Ministry of Mines, Salisbury, has issued the following statistics on asbestos: April 1964—Production 12,875.45 short tons, valued at £568,132.05.00.

---

**The Asbestos Industry in 1963** (Mineral Industry Survey from the U. S. Bureau of Mines)—World production of asbestos in 1963 showed an increase of 5% compared with 1962. The greater part of the increase was due to an estimated gain of 10% in Russia and a gain of 5% in Canada over 1962 production. United States output increased 25% in volume and 16% in value, according to producers' reports to the Bureau of Mines, U. S. Department of the Interior. Most of the domestic production continued to be supplied by the Vermont Asbestos Mines Division of The Ruberoid Co. Domestic mines supplied only 9% of its own requirements. Apparent consumption of 724,000 tons was slightly less than 1962. Total imports of asbestos in 1963 decreased slightly. Imports of chrysotile declined while amosite and crocidolite showed a small increase.

**Canada's Asbestos Products Manufacturers—1961** has just been issued as Catalogue No. 44-203 (annual) and copies can be obtained, at 50c each, from the Dominion Bureau of Statistics, Industry Division, Ottawa, Canada.

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# IMPORTS & EXPORTS

## Imports & Exports of Australia

(Published by Bureau of Mineral Resources) 3rd Quarter 1963

| Short Tons | Imports | Exports |
|---|---|---|
| Amosite | 1,978 | .. |
| Chrysotile | 6,686 | .. |
| Crocidolite | .. | 364 |
| Other | 929 | .. |
| | 9,593 | 364 |

## Imports By United Kingdom

*Raw Materials*

| *Tons 2,240 lbs.* | April 1964 |
|---|---|
| From: Republic of South Africa | 2,925 |
| Basutoland, Bechuanaland & Swaziland | 821 |
| Rhodesia & Nyasaland | 3,037 |
| Canada | 7,174 |
| Other Commonwealth Countries & Irish Republic | .. |
| Foreign Countries | 21 |
| | 13,978 |

**B.B.A. 1963 Annual Report** — British Belting & Asbestos Limited held its 67th Annual General Meeting on June 25th, 1964, and has issued its report and accounts for the year ended December 31st, 1963. Group sales, at £13,162,708, were 9.6% above the 1962 figure. Group profit, after taxation, was £884,233, an increase of 12% over the 1962 figure of £787,043.

The demand for the products of the Asbestos Division is growing and B.B.A. has decided to build a factory on the land at West Auckland, County Durham. Plans are in hand to establish an asbestos yarn manufacturing unit and it is proposed to transfer some plant from Cleckheaton to the new unit in order to allow for better spacing of machinery at the Cleckheaton Works. In the plant layout, special consideration is being given to means of reducing the dust hazard, a source of concern to all engaged in the asbestos industry.



That special combination of properties you need . . . Lake may have it!

What are your requirements? Chrysotile asbestos with high reinforcing strength plus superior wetting characteristics? Greater surface area plus low grit content? Whatever the combination, Lake may have exactly what's needed.

As a major producer with an annual capacity of 100,000 tons of high grade chrysotile asbestos fibre, we daily fill the special needs of customers throughout the world.

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California, San Francisco — E.M. Wallis Company
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Illinois, Chicago — Fred A. Jensen & Associates, Inc.
Massachusetts, Allston — D. H. Litter & Co., Inc.
Michigan, Detroit — Baker & Collinson
Missouri, St. Louis — Harry A. Baumstark & Company
New York, Buffalo — Buffalo Solvents & Chemicals Corp.
New York, New York — D. H. Litter & Co., Inc.
Ohio, Cleveland — A. C. Mueller Co., Inc.
Oregon, Portland — Van Waters & Rogers, Inc.
Pennsylvania, Conshohocken — Van Horn, Metz & Co., Inc.
Texas, Houston — Cron Chemical Corp.
Utah, Salt Lake City — Braun-Knecht-Heimann Co.
Washington, Seattle — Van Waters & Rogers, Inc.
In Canada: Toronto & Montreal — Federated Metals Canada, Ltd.

Lake Asbestos of Quebec, Ltd., is a subsidiary of AMERICAN SMELTING AND REFINING COMPANY

LAKE ASBESTOS

ASARCO

## Exports From U.S.A.

(Figures by Bureau of the Census) — Year 1963

| *Unmanufactured Asbestos:* | Shorts Tons | Value |
|---|---|---|
| To: Argentina | 41 | $ 14,851 |
| Australia | 218 | 17,685 |
| Austria | 5 | 560 |
| Bahamas | 8 | 368 |
| Belgium | 11 | 1,340 |
| Brazil | 82 | 24,583 |
| Canada | 387 | 95,887 |
| Chile | 11 | 4,068 |
| Colombia | 606 | 28,032 |
| Congo, Republic of | 754 | 99,021 |
| Costa Rica | 4 | 766 |
| Ecuador | 4 | 500 |
| France | 208 | 38,353 |
| India | 74 | 14,899 |
| Indonesia | 480 | 57,942 |
| Italy | 524 | 106,591 |
| Japan | 4,372 | 449,290 |
| Korean Republic | 379 | 30,855 |
| Mexico | 649 | 128,358 |
| Morocco | 2 | 804 |
| Netherlands | 327 | 25,943 |
| New Zealand | 8 | 1,169 |
| Pakistan | 1 | 222 |
| Peru | 7 | 587 |
| Philippine Republic | 63 | 10,716 |
| South Africa, Republic of | 4 | 1,156 |
| Switzerland | 159 | 29,963 |
| Taiwan | 2 | 790 |
| Thailand | 4 | 636 |
| United Kingdom | 196 | 21,429 |
| Venezuela | 4 | 704 |
| West Germany | 384 | 80,295 |
| | 9,978 | $ 1,288,663 |

| *Manufactured Asbestos Goods:* | Production | Value |
|---|---|---|
| Cement & Pipe Covering ..... Lbs | 8,199,073 | $ 1,607,754 |
| Textiles & Yarn ..... Lbs | 1,198,712 | 951,552 |
| Packing ..... Lbs | 1,793,106 | 2,547,832 |
| Clutch Facing ..... No | 2,519,467 | 1,760,767 |
| Brake Lining (Mld & S.Mld) . Lin Ft | 1,654,331 | 691,503 |
| Brake Lining, Other ..... Lbs | 6,460,813 | 4,196,638 |
| Construction Material ..... Lbs | 26,938,859 | 3,355,256 |
| Asbestos Manufactures—Other ..... | .. | 1,183,752 |
| | | $16,295,054 |



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London

## Exports From Canada

(Published by Dominion Bureau of Statistics) — Short Tons

| *Unmanufactured Asbestos:* | March 1964 | April 1964 |
|---|---|---|
| *Crude* | | |
| United States | 4 | 1 |
| United Kingdom | .. | .. |
| South America | .. | .. |
| Central America & Mexico | .. | .. |
| Europe | .. | 3 |
| Japan | .. | 17 |
| Other Countries | .. | .. |
| | 4 | 21 |
| *Milled* | | |
| United States | 15,305 | 19,524 |
| United Kingdom | 1,493 | 5,405 |
| South America | 590 | 2,177 |
| Central America & Mexico | 1,367 | 2,046 |
| Europe | 3,707 | 11,239 |
| Japan | 295 | 2,136 |
| Other Countries | 1,066 | 4,718 |
| | 23,823 | 47,245 |
| *Shorts* | | |
| United States | 36,765 | 41,746 |
| United Kingdom | 2,662 | 2,643 |
| South America | 356 | 412 |
| Central America & Mexico | 225 | 248 |
| Europe | 840 | 9,324 |
| Japan | 1,708 | 4,677 |
| Other Countries | 431 | 857 |
| | 42,987 | 59,907 |
| *Grand Total— Unmanufactured Asbestos:* | 66,814 | 107,173 |
| Total Crude valued at: | $ 2,888 | $ 16,771 |
| Total Milled valued at: | 4,674,399 | 8,616,126 |
| Total Shorts valued at. | 2,456,571 | 3,502,763 |
| | $7,133,858 | $12,135,660 |
| *Manufactured Asbestos Goods:* | | |
| Brake Linings Facings | $ 33,067 | $ 35,173 |
| A-C Building Materials | 36,874 | 97,011 |
| A-C Products—Other | 25,497 | 17,219 |
| | $ 95,438 | $ 149,403 |



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THE PROVEN NEEDLED FELTS FOR A LOWER REJECT RATE

They last longer and start faster . . . thus improving production and reducing felt cost.

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# INDUSTRY NEWS

## HAPPY BIRTHDAY

Melvin F. Cerruti, Executive Vice President & Director, National Gypsum Company, Buffalo, New York, June 19.

Alexander S. Basil, President, Rockbestos Wire & Cable Co., division of Cerro Corporation, New Haven, Connecticut, June 20.

E. B. Poulin, Secretary-Treasurer, Asbestonos Corporation Ltd., St. Lambert, Montreal, Canada, June 20.

Ladd L. Wilson, Vice-President, Nicolet Industries, Inc., Florham Park, New Jersey, June 20.

J. W. Weber, President & Treasurer, American Asbestos Textile Corporation, Norristown, Pennsylvania, June 22.

C. Branton Wheatley, President, Philadelphia Asbestos Company, Philadelphia, Pennsylvaia, June 22.

Malcolm Meyer, President, Certain-teed Products Corporation, Ardmore, Pennsylvania, June 23.

F. Pearson, Managing Director, British Belting & Asbestos Ltd., Cleckheaton, Yorkshire, England, June 26.

Thomas J. Walters, Sales Manager, Asbestos Products Division, Smith & Kanzler Corporation, Linden, New Jersey, June 27.

Milton R. Maddux, Director of Purchases, The Philip Carey Manufacturing Company, Cincinnati, Ohio, June 28.

F. E. Lewis, Senior Vice President & Director, Jefferson Lake Asbestos Corporation, San Francisco, California, June 30.

I. C. Campbell, Vice President & Secretary-Treasurer, Asbestos Corporation Ltd., Thetford Mines, Canada, July 3.

Arthur I. Rank, Jr., President & Treasurer, Universal Insulation Company, Philadelphia, Pennsylvania, July 3.

Howard E. Walker, Director of Research, The Flintkote Company, New York City, July 5.

C. L. Hoshaw, Manager of Insulation Technical Service & Construction, The Philip Carey Mfg. Co., Cincinnati, Ohio, July 7.

Captain W. A. Janitch, R.E., Vice President, Asbestos Corporation Services Ltd., London, England, July 10.

Alvin M. Ehret, Jr, Chairman of the Board, Baldwin-Ehret-Hill, Inc., Trenton, New Jersey, July 11.

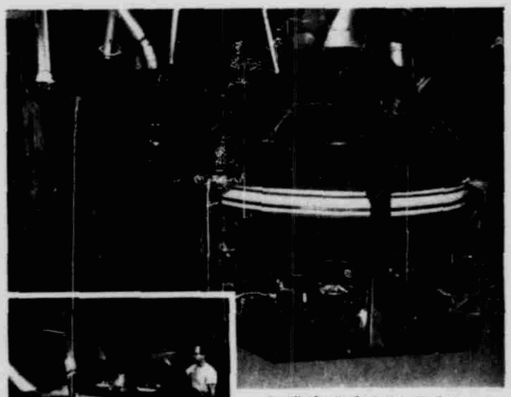
Irving McCormick, President, The McCormick Asbestos Company, Baltimore, Maryland, July 13.

John F. Sullivan, Jr., President & Treasurer, Asbestos & Magnesia Materials Company, Chicago, Illinois, July 13.

Carlo M. Weber, Manager, Careystone Corrugated Department, The Philip Carey Mfg. Co., Cincinnati, Ohio, July 14.

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

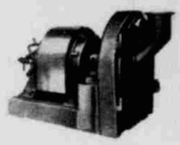






**Specific Gravity Separators.** Hundreds in use, separating rock and fibers, reclaiming processed fibers, removing grit, blasting wire, particles of rock and wood, etc. Handle No. 4 to No. 7 fibers. Two sizes. Capacity 1 to 5 tons per hour. Use less air than other cleaners.

**Hurricane Pulverizer-Classifiers.** 3-in-1 action upgrades tailings for fillers. Superfine particle reduction (150 to -1 micron), accurate classification and optional impurity extraction. Two sizes, up to 125 HP.





**Fiber Classifier.** For wet classification of organic and non-organic fibers. Quebec Asbestos Mining Association has set up test methods using this unit to determine size, length, distribution and dust content of fibers.

**Single Revolving Disc Mills.** Economy and efficiency in wet grinding, reducing coarse particles, deflocking fiber bundles in asbestos slurries, etc. Four sizes, up to 200 HP.

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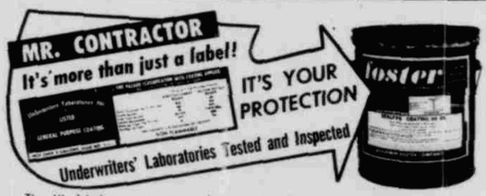



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**National Gypsum**—The Directors of the National Gypsum Company elected FREDERICK A. WAGNER Vice President of Finance. He succeeds CHARLES E. MASTERS who will retire October 1st, 1964. Mr. Masters will continue as Senior Vice President until that date. EUGENE E .WILLIAMS, formerly Assistant Treasurer and General Credit Manager, was elected Treasurer succeeding Mr. Wagner. ROBERT D. BARBER, formerly Division Credit Manager, was appointed to the position of General Credit Manager succeeding Mr. Williams.

**James E. McCauley,** former Treasurer of the Flintkote Company, has been appointed Executive Vice President of ORANGEBURG MANUFACTURING COMPANY, a division of Flintkote, in recognition of the expanding scope of this division and in anticipation of his succeeding **J. R. Connell,** Orangeburg Division President, upon his retirement.

**R. McLean Campbell** has been elected Vice President and Treasurer of THE FLINTKOTE COMPANY in a planned move to enlarge this position in the company's organization while filling the vacancy created by Mr. McCauley's new assignment. Mr. Campbell is a Director of Flintkote and former President of Harry T. Campbell Sons' Corporation, a subsidiary of Flintkote since 1960.


The UL label on every can of Foster Fire-Resistive Mastics, Coatings and Adhesives assures you, your client and customer that you have complied with the most rigid specifications for fire-resistance in insulation coatings.

This isn't a spot check, but a continued examination of every lot before it can receive the coveted Underwriters' Laboratories label.

You are assured of performance uniformity and application uniformity from can to can of every Foster product bearing this UL label. If the first can satisfies, you can be certain that every other can will do just the same.

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**United States Rubber Company** has announced the following five new division purchasing coordinator appointments: W. B. EVERETT, Tire Company Coordinator; P. J. MESTER, Naugatuck Chemical Division Coordinator; C. C. ORMSBY, Consumer and Industrial Products Division Coordinator; G. R. SHAFFER, International Division Coordinator; and, S. N. SMITH, Textile Division Coordinator.

**K. H. Becht** has been appointed Engineering Manager of the Textile Division of UNITED STATES RUBBER COMPANY and will be located at the Division's new headquarters in Winnsboro, South Carolina. In his new position, Mr. Becht will report directly to the Textile Division's General Manager, **C. H. Allard,** and will be responsible for the activities of the Division's engineering staff.

**William G. Leschorn** has been named to the newly created position of Corporate Meeting Coordinator of UNITED STATES RUBBER COMPANY.

**Stephen H. Tyng** has been appointed Sales Manager of latex and colloid products for the Naugatuck Chemical division of UNITED STATES RUBBER COMPANY.


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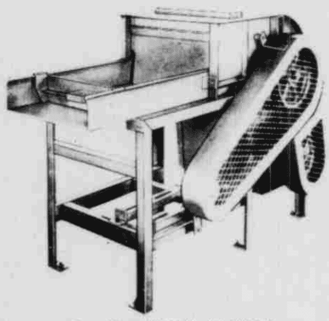


**MOODY MARK II Fibre Fluffer**

**Re-opens all grades of pressure-packed asbestos, long and short grain**

. . . now available with Second Stage Operation (optional) for more thorough fluffing of short-grain material, ensuring greater uniformity and conditioning of fibres. Eliminates lumps and mats . . . fits into any production line. Capacity up to 15 tons per hour.

Full details and literature on request



Two Stage Unit Model FM642

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American Smelting
Armstrong Cork Co.
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Battenfeld Grease
Bird & Son
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Durex Plastics
Eaton Mfg. Co.
Flintkote Co.
Garlock Packing
Grizzly Mfg. Div.
Henry, W. W. Co.
Hooker Chemical Co.
Inland Mfg. Div.
Johns-Manville
Linde Air Products
Marshall-Eclipse Div. of Bendix
National Brick Co.
National Gypsum
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CANADIAN BOWL-MOR COMPANY LTD.

Head Office & Plant: Terrebonne, P. Q. • Branch Offices: Montreal & Toronto






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**E. G. Willcox** has been appointed Manager for Plastic Products, for JOHNS-MANVILLE's Pipe Division Distributor Sales Department He will coordinate the Pipe Division's marketing program for plastic pipe with the research program, production capabilities, and overall Pipe Division objectives. He will also act as liaison between the Pipe Division and other J-M departments or Divisions on plastic programs.

**Porter E. Dix** has been appointed as Product Group Manager, Piping and Utilities, for JOHNS-MANVILLE's Pipe Division Distributor Sales Department. He joined J-M as a District Engineer in 1945. Since 1961, Mr. Porter has served as Manager for House Pipes and Conduits at J-M's New York headquarters.

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**Fibreboard**—The Board of Directors of Fibreboard Paper Products Corporation announced the election of **George W. Burgess** as Director and President of the Company, succeeding **E. W. Carey**, who died May 19th, 1964. Mr. Burgess, who joined Fibreboard in 1958, has been serving as Vice President, Marketing. Previously, he had been Vice President, Manufacturing.

At the same meeting, **Andrew S. Halley** was elected to the Board of Directors, and to the office of Senior Vice President. He will continue in his responsibility as Chief Financial Officer. Mr. Halley joined Fibreboard as Treasurer in 1949 and was elected Vice President, Finance in 1956.


**INDUSTRIAL SERVICE COMPANY**

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Our experienced engineers and machinists offer the industry entire machines built to deliver maximum production.

Your Inquiries Are Invited

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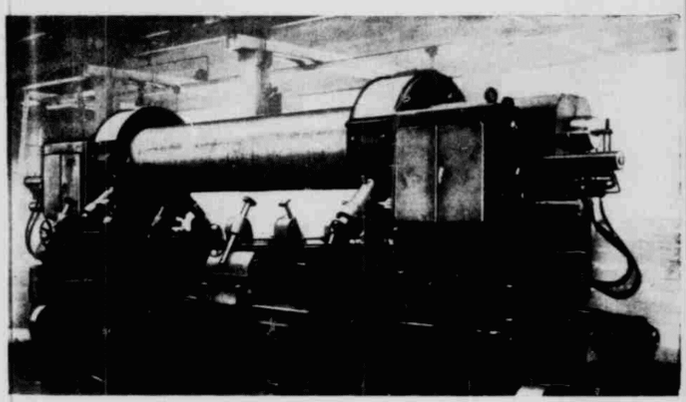


**J.M.VOITH A.G.**

one of the oldest manufacturers of asbestos-cement machinery are proud to have at their disposal a team of first-class engineers and technicians who are continually engaged in the development, design and construction of the complete machinery for the production and testing of all kinds of asbestos-cement sheets and pipes.

Our engineering staff shun no effort to promote an increasing economy of manufacturing operations in the asbestos-cement industry by continually improving the design of the individual machines and by making their operation largely automatic.

We invite you to avail yourself of the experience of our staff of expert engineers and highly-skilled craftsmen!



Full-automatic pipe turning lathe IIIh turning a pipe of nom. width 800 on the workshop test bench

**J.M.VOITH A.G.**

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**Commander G. M. D. Hutcheson,** Managing Director of MARINITE LIMITED (a company within the Cape Asbestos Group), has intimated that he wishes to take an early retirement, and the Board has reluctantly acceded to his request. He has, however, agreed to remain in office until towards the end of 1965.

**J. S. Jewers** has been appointed Assistant Managing Director of MARINITE LIMITED, effective July 1st, 1964, with a view to his succeeding Commander Hutcheson on his retirement.

**J. Slater** has been appointed Sales Director of MARINITE LIMITED, effective July 1st, 1964.

**C. M. Fox** has been appointed Secretary to THE CAPE ASBESTOS COMPANY LIMITED in place of **J. S. Jewers,** who relinquished his appointment in order to take up the above position with Marinite.

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**Asbestos Cement Pipes Limited's** new factory, in Drogheda, Ireland, was opened on June 15th, 1964, by Mr. Sean Lemass, Prime Minister of the Republic of Ireland. The factory, which will produce pressure pipes for water mains as well as sewerage and drainage pipes for home and export markets, is now in production. Asbestos Cement Pipes Limited is an Irish controlled company jointly owned by Cement Limited of Dublin and Turner & Newall Limited.


**SURVEYER, NENNIGER & CHÊNEVERT**

COMPLETE CONSULTING ENGINEERING SERVICES FOR THE ASBESTOS INDUSTRY

COMPLETED: MILL No. 5
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**BELL ASBESTOS MINES LTD.**

THETFORD MINES, QUE.
CANADA

*Producers of*
*Raw Asbestos Crudes*
*& Fibres*

*Sales Representatives*
*for*
**Cassiar Asbestos Corporation Limited**






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**H. K. Porter**—In a move designed to provide increased executive manpower for financial operations, H. K. Porter Company, Inc. named JOSEPH N. YORKE as *Vice President Finance* and JOHN M. DIXON as Controller. Mr. Yorke, who formerly held the title of Vice President Controller, now has an enlarged *scope of responsibilities which includes international financial* activities. Mr. Dixon, who was most recently Assistant to the Chairman, will report directly to Mr. Yorke.

**John J. Sly** has been named General Sales Manager for the *Thermoid Division* of H. K. PORTER COMPANY, INC., Pittsburgh, Pennsylvania. A seasoned executive in the field of industrial sales and distribution, Mr. Sly will implement the company's long-range program to expand its marketing services to customers and distributors over the complete line of Thermoid rubber and friction products.

**J. A. Pierce,** General Manager of the Refractories Division, has been named a Vice President of H. K. PORTER COMPANY, INC. He has spent his entire business career in the refractories field.


**RUBBER RINGS "IDEAL."** TRADE MARK 134939

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Specialized manufacture of

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for pipes of asbestos cement

plastic material - metals

Suppliers of the most important

Italian and Foreign manufacturers of pipes





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

MILANO (Italy)

Homogeneous structure.
Most uniform and highest density.
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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.






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# CURRENT RANGE OF PRICE

As of July 10, 1964

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

| | | |
|---|---|---|
| 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 2,000 lbs. f.o.b. Mine

Canadian Currency

| | | |
|---|---|---|
| Group No. 1 (Crude No. 1) | $1,410.00 to | $1,475.00 |
| Group No. 2 (Crude No. 2); Crude Run-of-Mine and Sundry | 610.00 to | 875.00 |
| Group No. 3 (Spinning Fibre) | 350.00 to | 650.00 |
| Group No. 4 (Shingle Fibre) | 180.00 to | 245.00 |
| Group No. 5 (Paper) | 120.00 to | 150.00 |
| Group No. 6 (Waste, Stucco or Plaster) | .. | 86.00 |
| Group No. 7 (Refuse or Shorts) | 40.00 to | 80.00 |

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

(U.S. Dollars—converted to Canadian equivalent)

| | | |
|---|---|---|
| Group No. 3 (Spinning & Filtering) | $ 345.00 to | $ 402.00 |
| Group No. 4 (Shingle Fibre) | 181.00 to | 320.00 |
| Group No. 5 (Paper Fibre) | 120.00 to | 142.00 |
| Group No. 6 (Waste, Stucco or Plaster) | .. to | 86.00 |
| Group No. 7 (Refuse or Shorts) | 40.00 to | 75.00 |

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

(As of January 1, 1964) Canadian Currency

| | |
|---|---|
| AAA grade (non-ferrous spinning fibre) | $ 787.00 |
| AA grade (non-ferrous spinning fibre) | 625.00 |
| A grade (non-ferrous spinning—Canadian Group 3) | 470.00 |
| AC grade (asbestos cement—Canadian Group 4) | 325.00 |
| AD grade (asbestos-cement—Canadian Group 4) | 260.00 |
| AK grade (shingle fibre—Canadian Group 4) | 220.00 |
| AS grade (shingle fibre—Canadian Group 4) | 181.00 |
| AX grade (shingle fibre—Canadian Group 5) | 160.00 |




# asbestos

**chrysotile, crocidolite and amosite fibres for:**

Asbestos-Cement



Friction Materials







Insulation Materials

Asbestos Textiles

**from Britain's largest distributors**

# Turners Asbestos Fibres Ltd

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Cables: VULBESTON, MANCHESTER Telephone: CENtral 0334
Telex: 66560 *A Turner & Newall company*

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# ASBESTOS STOCK QUOTATIONS

These figures are compiled from the Commercial & Financial Chronicle. No guarantee as to their correctness.

| | | June 1964 | | |
|---|---|---|---|---|
| | Par | Low | High | Last |
| Advocate Mines Ltd. | 1 | $6.25 | $6.45 | $6.45 |
| American Brake Shoe | np | 52 | 54⅜ | 54 |
| Asarco | np | 43⅝ | 49⅞ | 48⅜ |
| Armstrong Cork (Com) | 1 | 59¼ | 62 | 61¾ |
| Armstrong Cork (Pfd) | np | 86¾ | 89 | 88 |
| Asbestos Corporation | np | 20¼ | 23¼ | 22⅝ |
| Philip Carey | 10 | 27⅝ | 29½ | 28¼ |
| Cassiar Asbestos | np | 11 | 12⅜ | 12⅛ |
| Certain-teed | 1 | 14½ | 16⅝ | 16⅛ |
| Flintkote (Com) | 5 | 24⅝ | 26¼ | 24⅜ |
| Flintkote (Pfd) | np | 87 | 88½ | 88½ |
| Johns-Manville | 5 | 54¾ | 58¾ | 57⅝ |
| National Gypsum (Com) | 1 | 47⅝ | 49¾ | 48 |
| National Gypsum (Pfd) | np | 99½ | 101 | 99½ |
| Pacific Asbestos | 1 | 2¼ | 2⅝ | 2½ |
| Porter, H. K. | 100 | 99¾ | 100¾ | 100½ |
| Raybestos-Manhattan | np | 45 | 46⅞ | 45¾ |
| Ruberoid | 1 | 30 | 33½ | 33⅛ |
| Seagrave | 2½ | 10¼ | 11⅜ | 10⅞ |
| Unarco Industries | 5 | 12⅜ | 13⅜ | 13 |
| United Asbestos | 1 | $2.40 | $2.84 | $2.75 |
| U. S. Rubber (Com) | 5 | 48⅜ | 54 | 54 |
| U. S. Rubber (Pfd) | 100 | 161 | 167 | 166¼ |


**POLYREZ** ®

Phenolic & Cashew Resins

Cashew Dusts & Polymers

POLYREZ COMPANY, INC.

RAILROAD & SO. COLUMBIA WOODBURY, N.J.





Built on a rock



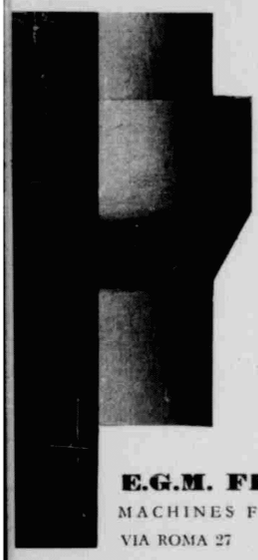
Crude Asbestos is the rock on which B B A is built. We use it to make everything for which asbestos is best, from yarns and cloths to all types of jointings and packings, and the world famous MINTEX friction materials. Our factory leads in production, our Research Laboratories keep us at the head of development. Asbestos is our subject.

B.B.A

**British Belting & Asbestos Ltd**

CLECKHEATON : YORKSHIRE ENGLAND





## plants for producing asbestos-cement pipes

Machines for producing asbestos-cement pipes with or without monolitic socket obtained using as the starting material a thick slurry by winding superposed layers and compressing them by means of mechanical vibrations over a rotating mandrel.

Machines particularly studied for employing short and very short asbestos fibres and for producing round or square and rectangular pipes with the socket solid therewith.

**E.G.M. FRATELLI SALVANESCHI**

MACHINES FOR ASBESTOS-CEMENT PRODUCTS

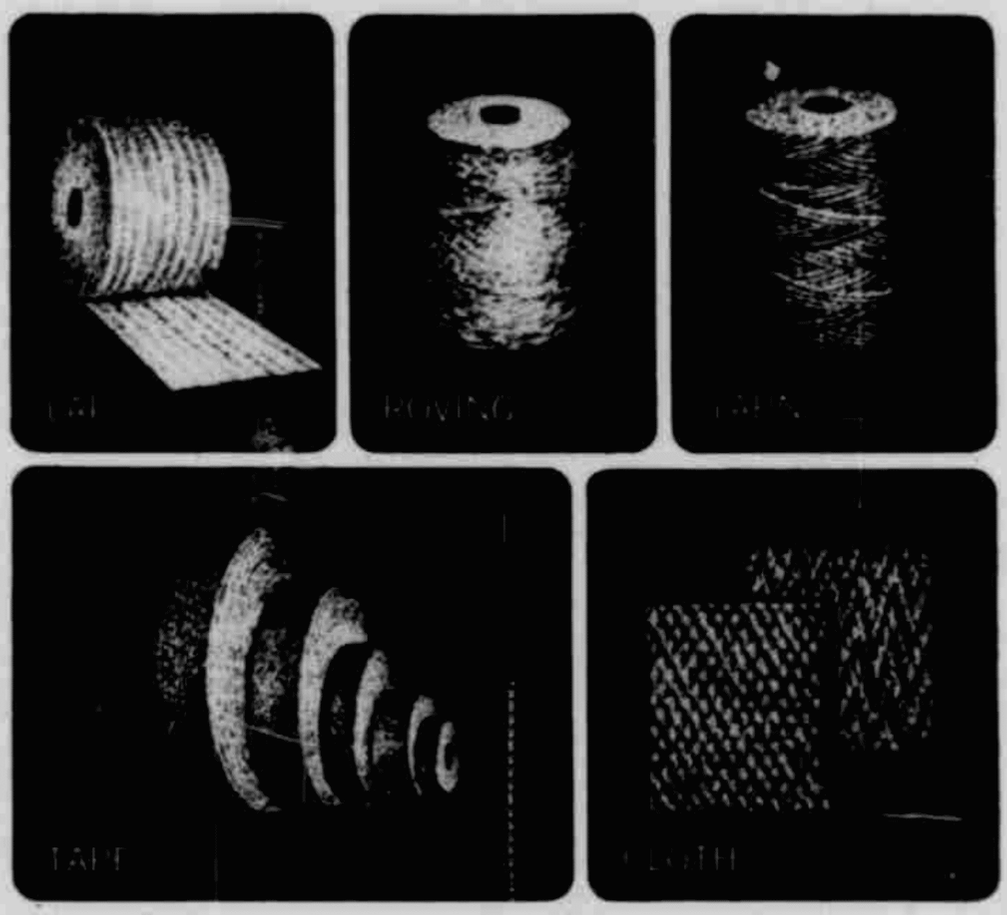
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# SMITH and KANZLER CORPORATION

Asbestos Cements
Asbestos Millboard
Asbestos Rollboard
Corebestos Panel Fill
Commercial Asbestos Paper
Pipe and Block Insulation for Heat and Cold
Asbestos Felts and Paper for Saturating
Spraycraft Fireproof Acoustic Plaster

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whether it is plain or metallic cloth in herringbone or other weaves, or any of the more basic asbestos forms illustrated above, Porter Asbestos Textile products are available in all types, grades and forms.

For detailed information on any kind of asbestos textile product to meet the most exacting demands for heat, friction and acoustical problems, call or write Thermoid Division, H. K. Porter Company, Inc., 1000 Seaboard Street, Charlotte, North Carolina 28206, or Porter Building, Pittsburgh, Pa. 15219

PORTER **THERMOID DIVISION**

**H. K. PORTER COMPANY, INC.**


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