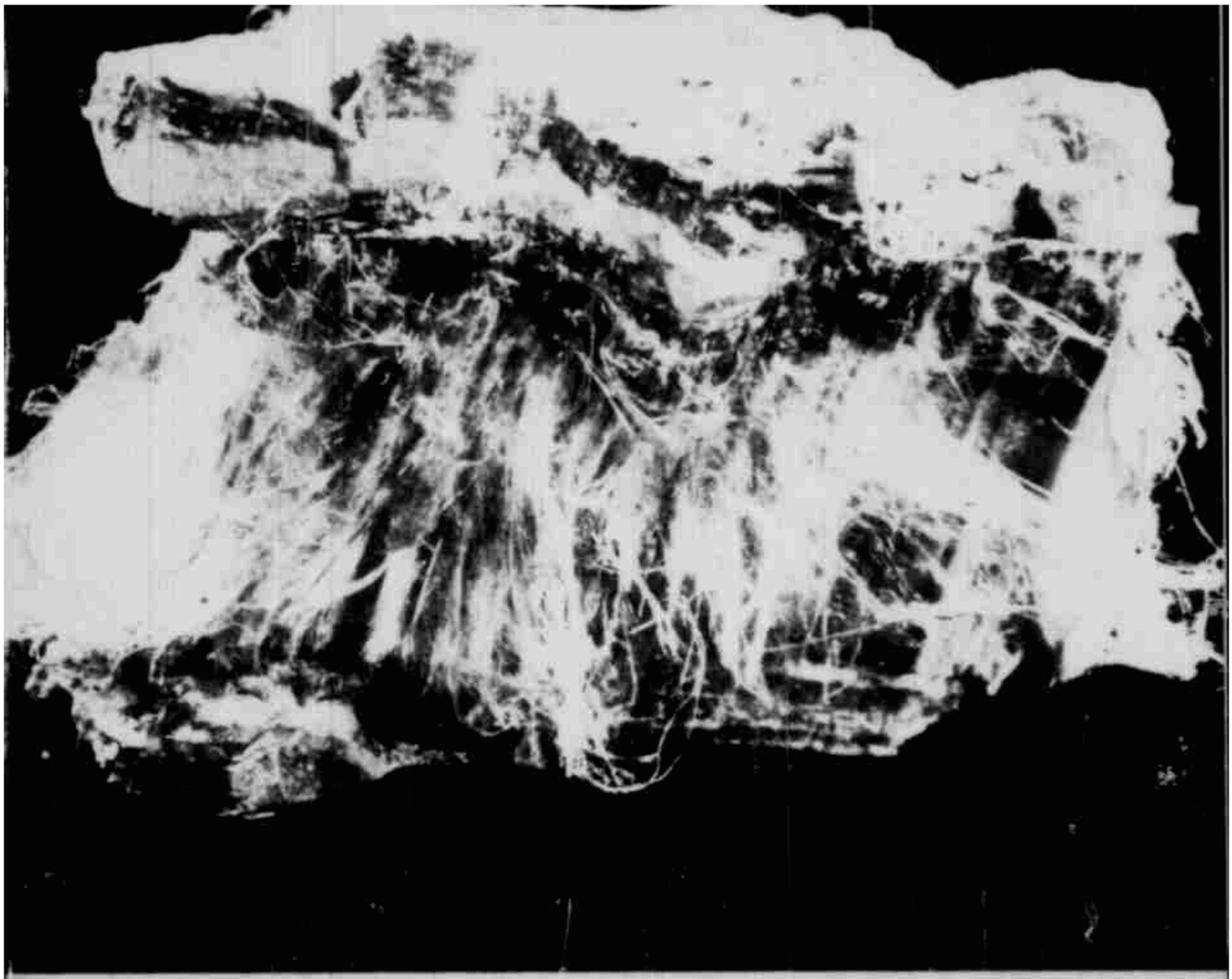


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ASBESTOS

VOLUME 49 FEBRUARY 1968 NUMBER 8

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J-M Asbestos-Asphalt Paving

Johns-Manville Corporation has a new approach to an old road-paving problem that is receiving the attention of city engineers in the United States and Canada. In a metropolis like St. Louis, Missouri, in a residential section of Ventura, California, in busy Bayonne, New Jersey and on a major highway in British Columbia, Canada, asbestos-asphalt thin overlays are being used to re-pave existing roads. Community after community is discovering that this J-M overlay is truly a road surface for all seasons. The added ingredient in this new road surface is Johns-Manville asbestos fiber. Placed over standard asphaltic concrete, this new-formula overlay has proved to be superior to seal coats or standard thin overlays.

For instance, J-M specialists were consulted on the Ventura, California, project. The problem, in essence, was frequently re-surfaced pavements and consequent loss of curb height. Engineers wanted to stop water from penetrating the road surface, yet insisted on a smooth-riding, skid-resistant overlay. The time the roads would be out of service was also an important consideration. Conventional paving procedures had been tried, but proved unsatisfactory. To remove the entire surface to the base was costly, messy and time-consuming. J-M specialists recommended an overlay mix using 2% asbestos fiber and raising the asphalt content in the mix from 6.5 to 10.5%. Asbestos fiber permits a large increase in the asphalt content without detrimental effects. Precise amounts must be determined by the particular problem and types of materials used. Within three days, one section was completed. Road surfaces were smooth, tough and level, there were no deformities, rutting or abrading and the roads were easier to clean. Other sections of the city are now being re-surfaced with the asbestos-asphalt mixture as the need arises. As the first West Coast community to use this new overlay, Ventura is offering its motorists better roads with less maintenance.

Bayonne, New Jersey, plans to re-surface some 50 miles of street. Engineers first tested the asbestos-asphalt mix about three years ago. The project that convinced them of the worth of the asbestos-asphalt ovrlay was one on a heavily-traveled thoroughfare. A 40-feet wide, 3-mile stretch was re-paved. Some 4,600 tons of batch, mixed at 340°F. and placed at 300°F., was used. The overlay averaged ¾ of an inch in

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

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thickness and contained 2.5% of J-M ASBALTIC® (the asbestos fibers) and 9.2% of an 85-100 penetration asphalt. Each block re-paved was out of service for just a few hours, instead of a few days.

St. Louis, Missouri, has been using the asbestos-asphalt mixture in many different ways. In addition to road surfaces, thin overlays are being used on garden walks, bridge decks, viaducts and curbings. The city's biggest problem is weather: frequent freeze-thaw cycles in winter and very hot, humid summers. Coupled with the weather problem are those of the materials used in making an overlay mix. Two pavings made from the same mix design may vary widely due to the use of either lead mine chats or local limestone. To achieve uniform results, engineers decided to add J-M asbestos to the mix. It was tested and determined that more asphalt could be added with the use of asbestos.

Canada's Federal Department of Public Works is spending $1.5-million to re-surface a 28-mile section of the Trans-Canada Highway at Glacier National Park. The decision to use the asbestos-asphalt mixture was a result of years of testing done by Canadian Johns-Manville with the Department. A road paving had to be found which would be water-resistant, since snowfalls in that area total up to 800 inches annually. The heavy snowfalls naturally produce a heavy run-off which has been disastrous to mountain roads. By raising the asphalt content to 7.7% and adding 3% asbestos fiber, Canadian J-M specialists had a mix which was not only water-resistant but which also resulted in a reduction of air voids.

This article was taken from the Winter 1967-68 issue of Johns-Manville ACTION.

DELAWARE VALLEY CHAPTER of the *Acoustical Society of America* has been reactivated and the following officers were elected: President—Ralph Anderson of Univac Corporation; Vice President—Harry Sternfeld of Boeing Company; Secretary—R. I. Bannister of Westinghouse Corporation; and, Treasurer—Joseph Pizzirusso of Scott Paper Company.

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Amosite in Thermal Insulation Applications

A large percentage of the world's Amosite production is used in manufacturing thermal insulation. These insulations take many forms, the most important of which is rigid molded pipe and block insulation for high temperature service. Such insulation must have high thermal efficiency, relatively high strength, low density, heat stability up to 1,200° or more, and durability over the long service life of the insulation.

There are two principal types of rigid molded insulation in which Amosite is either an essential or predominant component. One type is calcium silicateinsulation composed of asbestos, diatomaceous earth, silica and lime. This product results from chemical conversion of the basic components into calcium silicate, followed by wet molding with subsequent autoclaving before drying and finishing. Calcium silicate insulation is notable for high insulating efficiency, and for its smooth finish and dimensional accuracy.

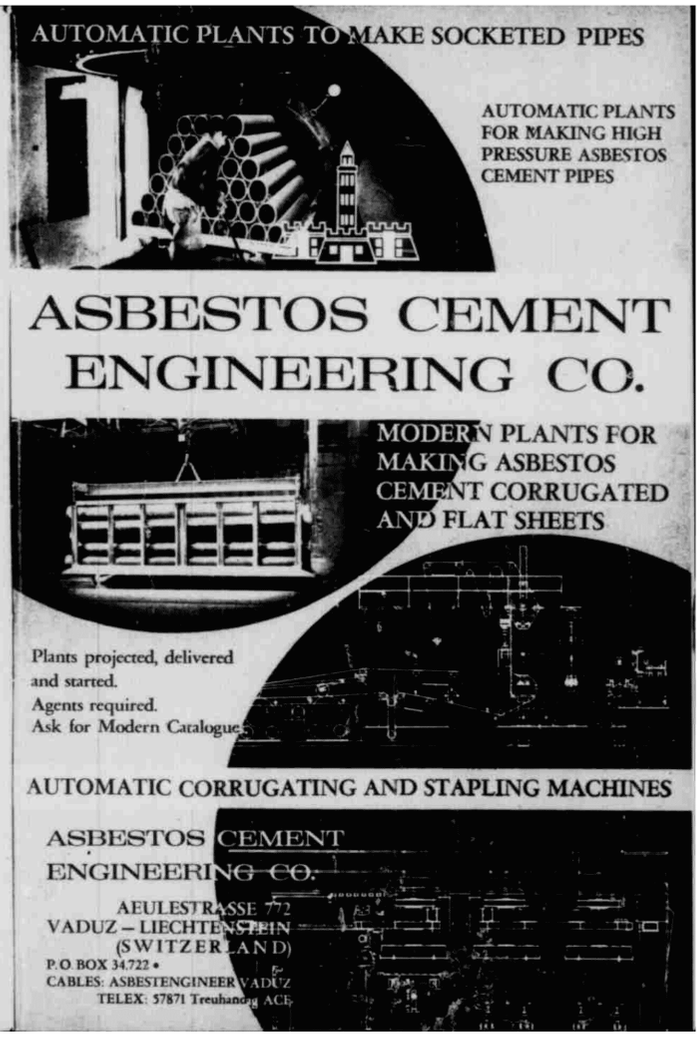
The other important type is molded Amosite insulation, which is produced by a process of accumulating Amosite fibre combined with inorganic binders on mandrels of suitable size, using a semi-wet forming process. Produced in many different countries, molded Amosite insulation is well known for its high insulating values, rugged strength and durability.

Amosite is a major component of these high quality insulations primarily because of its heat resistance and reinforcing characteristics, but also due to its great bulkiness. No other mineral fibre provides the same combination of strength, heat resistance, stability and durability at economical cost.

Amosite's unusual performance characteristics also make it an ideal material for use in flexible and wrap-around types of thermal insulation. It also is used in combination with mineral wool, vermiculite, perlite, and wood fibre to produce other specialized forms of insulation.

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

DESIGN ENGINEERING SHOW & CONFERENCE will be held in Chicago, Illinois, April 22-25, 1968. The Show will take place at the International Amphitheatre and the Conference will be at the Palmer House.



R/M Controlled Swell Asbestos Gaskets

Gaskets with controlled swell make it possible to meet new military requirements for small air-cooled gasoline engines that operate for 1,500 hours before major overhaul. Previous engines seldom exceeded 500 hours.

In its program for the development of high-efficiency, small, air-cooled engines in the .5 to 20 horsepower range, the Army Materiel Command raised its standards considerably. Specifications called for the use of lightweight alloys, configuration to provide optimum compactness and small size, quiet operation and use of materials that are unaffected by temperature extremes. Lightweight diecastings with variable coefficients of expansion and additive lubricating oils created critical engine sealing problems for the manufacturer of the engines, Continental Motors Corporation. A representative of the packing division of *Raybestos-Manhattan, Inc.* was called in to make recommendations. He suggested R/M F-53 positive, controlled swell asbestos gasket material as well as flange studies to determine proper gasket contour. The flange studies were made with carbon paper and impressions from it indicated loading patterns and bolt torque requirements. They also revealed that gasket area between bolt holes should be decreased. Gaskets of R/M F-53 were redesigned and installed on the air-cooled engines and the engines were run through qualification tests. Results were positive and new gasket specifications were established.

Controlled swell gaskets made from R/M F-53 have been used on the small military engines for more than three years. They retain torque and prevent oil leaks and have dimensional stability, shape retention and resistance to acid, heat and oil. They have effected savings through the elimination of rejects caused by engine leaks and repairs.

The gasket material is a compressed sheet of long spinning grade asbestos fibers and elastomer binders, combined so that the fibers become interlocked. This composition gives the gasket controlled edge-swell with dimensional stability. It swells in thickness only, not in length or width, is sulphur-free and will not contribute to flange corrosion. It has good aging qualities and excellent shelf life.

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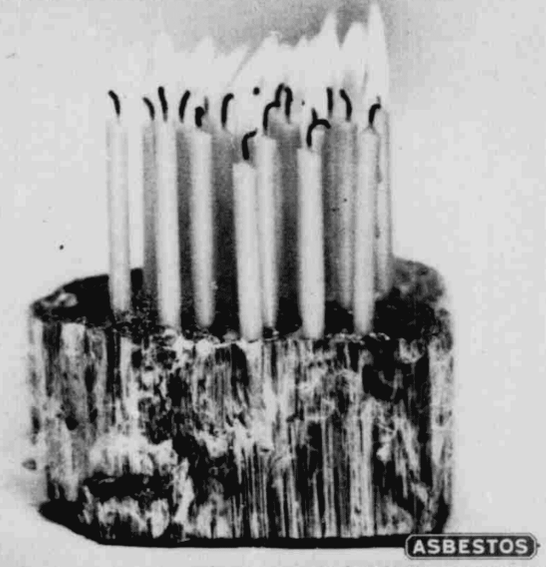
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In this, our Country's 101st year, we can look back on almost a century of growth that has made Asbestos Corporation Limited the largest independent producer in the free world. Today, our 4 plants produce all grades of asbestos from crude to the shortest fibre.

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UNIROYAL, INC. has developed a new and completely non-flammable asbestos fabric that will resist temperature in excess of 1,800°F. Normally, asbestos fabric will burn when subjected to flammability tests in a 100% oxygen environment because of the presence of a carrier fiber. This is not the case with the new Uniroyal fabric. In addition, it has good tensile strength and flexibility.

This new fabric was tested by the National Aeronautical and Space Administration and met its non-combustibility requirements.

Designated *Uniroyal Asbestos Fabric Number D67505-LWF*, this new material is being tested for possible use in ground based manned vacuum chamber observer garments, space flight garments and for stowage containers on space vehicles where thermal protection from fire hazards is required. Uses for this high-quality asbestos fabric are also envisioned in the commercial aviation industry and in such commonplace objects as flameproof mattress covers.

U. S. MINERAL AVAILABILITY—A series of intensive studies, aimed at up-dating knowledge of the forces affecting mineral supply and demand in the United States, was called for by Walter R. Hibbard, Jr., Director of the U. S. Bureau of Mines. Speaking at a meeting of the American Institute of Mining, Metallurgical and Petroleum Engineers, Mr. Hibbard said, "World mineral consumption is increasing rapidly at a rate that presages a five-fold increase in consumption of non-fuel minerals between now and the year 2000. Technology is changing at a phenomenal pace, with new methods and equipment becoming available almost daily. Our conservation requirements have grown far more subtle, yet more pressing than ever before. Worldwide political conditions continue to be unsettled so that the nation must be prepared to cope with unpredictable changes in the availability of minerals."

"In preparation for its role in the studies, the U. S. Bureau of Mines is planning to obtain the most comprehensive data possible on minerals. The information will be analyzed and interpreted to serve as the basis for a strategic plan."

U. S. Rubber's Asbeston® is exactly like ordinary asbestos, except:

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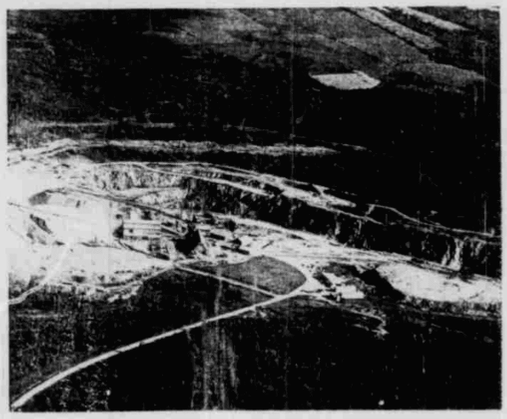
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® ASBESTON IS THE UNIROYAL, INC. REGISTERED TRADEMARK FOR ITS ASBESTOS YARNS, FABRICS AND TAPE.

NICOLET SEALABILITY TESTER, an effective means of gasketing materials evaluation, is described in a data sheet available from *Nicolet Industries, Inc.* Internal pressures can be varied from 0 to 750 psig at temperatures from 0 to 800°F. Flange pressures can be adjusted by means of six bolts carrying up to a maximum of 2,500 pounds each. Details of the instrument and its use are given, plus an explanation of how beneficial this new service is to firms experiencing sealing problems with gasketing materials. Nicolet is a leading manufacturer of quality asbestos gasketing materials for the automotive, aviation and space and petrochemical industries.

SAFETY FROM ROCK COLLAPSE—The weak groans of rock under great pressure, whether in the slope of an open-pit mine or in workings deep underground, actually are too faint to be heard by the human ear. Nevertheless, these subaudible noises can be translated into early warnings understandable to mining engineers. Research workers of the *U. S. Bureau of Mines* are constantly improving their ability to detect these noises and to amplify, record, and interpret them. Their conclusion: When the rock whispers often and raises its voice a little, beware of a collapse. A sensor, called a geophone, has been modified by Bureau scientists to convert the extremely weak, or "microseismic," sounds generated by rock movements into electronic impulses that can be amplified and recorded. Then their location, time of occurrence, and relative loudness are plotted. They also are compared with background noise that is always present and with any measurable ground shifts that occur. Correlating all these factors can give clues to coming trouble. Any excavation weakens its surroundings, which then move ever so slightly to adjust. These tiny movements produce the subaudible vibrations which the Bureau system monitors. Fundamental research in rock physics is progressing at the agency's Denver, Colorado, Mining Research Center, and equipment, constantly being refined and improved, is field tested under actual mining conditions in many parts of the country.

CANADIAN ASBESTOS



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*Suburb of New York City.

LAQ AERIAL SURVEY—Maurice Lauzon, chief mine engineer for Lake Asbestos of Quebec Limited, is the author of a very informative paper entitled "*Aerial Survey of Open Pits at Lake Asbestos of Quebec*" which appeared in the July 1967 issue of The Canadian Mining and Metallurgical Bulletin. Aerial surveys of the open pits have been conducted regularly at Lake Asbestos since 1958. The information from a topographic map is transferred to sections from which the volumes removed are calculated. Considering the size and complexity of the operation, this system has proved to be an inexpensive, quick and accurate way of determining the quantities of rock and overburden removed.

ALBERT PRODUCTS, INC. are manufacturers of an hydraulically operated hoe-type tool called the *Carhoe*. Operated from its own tower by one man, the tool eliminates the back-breaking job of unloading bulk hopper shipments. It enables one man to unload and clean out an entire hopper, and never enter the car. Reduction in labor costs in emptying open hoppers of hard-to-handle bulk loads has attracted nation-wide and world-wide interest in the Carhoe. Expanded production has already begun by Albert Products to fill United States and export needs. In addition to their Springfield, Illinois, plant, the company has added another facility at Peoria, Illinois. According to John C. Kanberg, sales manager for Albert Products, many manufacturers and users of asbestos unload bulk materials from open top, hopper bottom railroad cars and would find the Carhoe to be to their advantage.

W. A. JANITCH has retired from *Asbestos Corporation Limited*, after 47 years of loyal service. Mr. Janitch was Representative of the Company in Great Britain for many years and prior to that was with the Company in Thetford Mines. He will be residing at 49 Richmond Hill Court, Richmond, Surrey, England.

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NIAGARA ASBESTOS COMPANY, INC. and *Peerless Mill Supply Company, Inc.* have jointly purchased the 5-story building at 79 Perry Street, in Buffalo, New York. The building has 83,000 square feet of space, 3 elevators, 3 truck bays, and a rail siding, compared to 50,000 square feet at their former location. This purchase has made it possible for Niagara to consolidate its complete operation in one building. The company has already allocated more space to its products held for distribution, i.e., pipe coverings and block, refractories and brick, asbestos cements, fibers and coatings, asbestos textiles and industrial tapes, asbestos-cement boards, translucent panels, and other asbestos products. They have also increased their cutting shop area to better serve their marketing needs. Approximately 16,000 square feet is being reserved for future expansion of operations in both contract and material sales. Since 1929, Niagara has held the franchise as Johns-Manville Contractors-Distributor in the Buffalo area for J-M's insulation products division. Peerless has been the J-M packing distributor for the past 50 years. No immediate addition to the present line of J-M products is planned.

ASTM NOTES—C547 67, Specification for Mineral Fiber Preformed Pipe Insulation, was accepted by the American Society for Testing and Materials on October 27, 1967, and will appear in Part 14 of the 1968 Book of Standards. . . . The following separate Standards are available at $1.00 per copy: C508 67—Specifications for Asbestos-Cement Perforated Underdrain Pipe, C460 67—Definitions of Terms Relating to Asbestos-Cement and Related Products, D76 67—Specifications for Tensile Testing Machines for Textile Materials, D1918 67—Specifications for Asbestos Content of Asbestos Textile Materials, D123 67—Definition of Terms Relating to Textile Materials, E84 67—Test for Surface Burning Characteristics of Building Materials and F82 67—Recommended Practice for Fast Quality Check on Immersion for Nonmetallic Gasket Materials.

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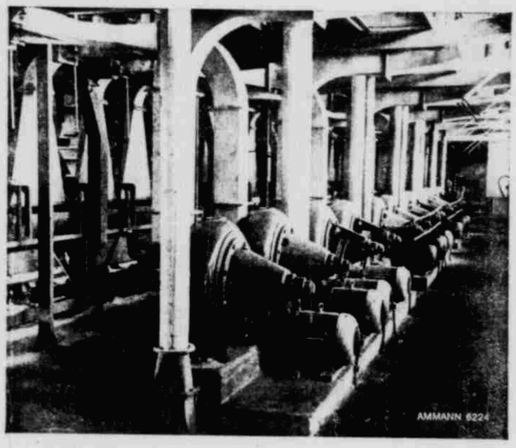
MINES AND MILL IN GILA COUNTY

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CAPE BUILDING PRODUCTS LIMITED has redesigned the 1968/69 edition of its *Technical Information*. This manual replaces all previous technical information issued by the company and the information in each section has been reorganized to make use of the headings recommended in CIB Report No. 3, "A Master List of Properties for Building Materials and Products." The manual follows a clear discipline for the presentation of information in both metric and foot inch dimensions and additionally incorporates expression of performance of SI units. The section entitled "Theory" includes a very comprehensive metric conversion table which has been extended to cover pressure and stress, heat flow and costs. Also added are new chapters on artificial lighting and a recommended code of practice for handling, working and fixing asbestos sheet materials. The "Product" section has been extended to cover five additions to the company's product range: Cape tools, Glasal, Rocksil ceiling panels, interlocking grid and Cape-lumitron lighting fitting. The third part of the manual covers the "Application" of the company's products. The contents of this manual are offered on microfiche, microfilm and aperture cards. The microfiche and microfilm will be supplied free on application but the aperture cards will cost 50/-d. per set to help defray production costs.

AMOSITE/CROCIDOLITE—According to the November 1967 issue of North American Asbestos Corporation's "Asbestos News", *Crocidolite* (Blue) asbestos is the strongest of all natural fibers with tensile strength of 500,000 pounds per square inch, 1½ times greater than steel piano wire. Also, Crocidolite has the highest general chemical resistance of any mineral fiber. New and different uses continue to be found for Amosite: in a variety of acoustical products, in low density, porous asbestos paper and as a packing for motor car mufflers where it serves as an efficient and virtually indestructible pollutant-reducer and sound-deadener. A two year test on cars on the West Coast is nearing conclusion and results thus far look quite favorable.

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 large plant comprising several AMMANN disintegrators. This plant works in an asbestos mine in South Africa.

U. AMMANN Ltd.

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ARMSTRONG GASKET MATERIALS is the title of a new catalog published by the Industry Products Division of *Armstrong Cork Company*. It contains the latest materials and design information and has a handy two-page selector chart in the back. The catalog contains a section on "Factors in Gasket Selection" and complete descriptions of Armstrong's line of gasket materials, including *asbestos fiber Accopac*, cellulose fiber Accopac, Accobest, Closed Cell Neoprene Rubber, cork-rubber compositions, cork compositions, rubber compounds, and resilient friction materials.

HEWITT-ROBINS, a division of Litton Industries, has available many catalogs which outline its capability in materials handling and power transmission, including: Catalog 1200-A1 on belt conveyor idlers; 25-G on the scope of Hewitt-Robins; 1101-A on sectional conveyors; 212 on conveyor elevator transmission; 210 on the complete line of Precision chain and sprockets; 6000-A2 on reducers and drives; and, 7000-A on unit handling components, conveyors and systems.

NEW CONVEYOR DESIGN—A new kind of belt conveyor for moving broken ore, rock and coal in mines has earned a U.S. patent for U.S. Bureau of Mines engineer and Director of Mining Research, Thomas E. Howard. The novel feature of the conveyor is that material moves along a flexible belt without any forward movement of the belt itself. Attached to the belt along its length are supporting yokes that move up and down in sequence. This action gives an undulatory motion to the belt which, in turn, imparts a forward motion to material on it. Eliminating horizontal belt motion opens the way for a continuous conveyor system that is truly modular—built in easily joined and standardized sections. A simplified mechanical model of the device is being tested. A rudimentary device, driven with mechanically actuated cams, the model has demonstrated the feasibility of the principle and has moved rock at rates comparable to those of conventional conveyors. Additional development is necessary, however, before the principle can be fully evaluated.

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INDUSTRIAL CLEANER—The Universal Industrial Appliances Division of *Cyril Norris & Son Limited*, England, has developed a new Heavy Duty Industrial Cleaner, Model 745, to combat the hazards to health from the inhalation of injurious dusts. This particular unit was developed at the request of the Ministry of Defence (Naval) to combat the dangers of inhalation of dust in the Ministry's asbestos stores and for cleaning up areas where workmen are installing asbestos lagging or other dust-producing materials. This Model has also been supplied to manufacturers of brake linings and molded storage battery cases in which fibrous materials are used extensively. Full details including a price list and results of dust count tests are available from the developer.

ME/SE 68—The new Materials Engineering/Sciences Exposition and Conference will be held April 1st through 4th, 1968, at The Sheraton Hotel, Philadelphia, Pennsylvania. Coordinated by the American Institute of Chemical Engineers, it is the first national exposition and conference, designed for all engineering disciplines and for all industries, that concentrates on materials and their applications. It has the specific objective of bridging the "information gap," between producers and users of every kind of material. Literature is available to interested executives if they will write on their company letterheads to Reber-Friel Company, Exposition Management, 117 South 17th Street, Philadelphia, Pennsylvania 19103.

ENGLISH ASBESTOS CEMENT SPECIALIST

Over 30 years experience with international companies in various countries, seeks new appointment. Full technical knowledge of production, fibres, evaluation, mix formulation, quality control, etc. Experienced on latest automatic pipe, sheeting and moulded goods machines. Capable of own maintenance or installation. Top references available. Positions held over last 17 years Works Manager and General Manager. All replies treated as confidential.

Address all communications under Box 28-EACS, c/o ASBESTOS, 807 Western Saving Fund Building, Philadelphia, Pennsylvania 19107, U.S.A.

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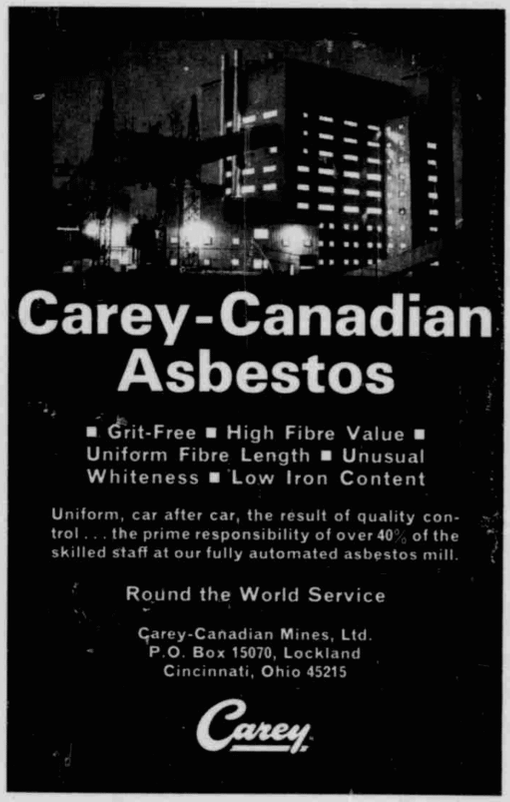
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CAREYTEMP insulations, developed and manufactured by *The Philip Carey Manufacturing Company*, will be featured at Booth No. 940 at the Plant Engineering and Maintenance Show to be held at Convention Hall, Philadelphia, Pennsylvania, March 25-28, 1968. The entire Careytemp line will be on display as well as appropriate Philip Carey roofing, siding and coating products for industrial applications.

PHILIP CAREY INSULATIONS is the title of a new 12-page catalog available free from The Philip Carey Manufacturing Company. The catalog, Form No. 6817, lists all types of Carey's industrial insulations and insulating cements for use in power, chemical, petroleum, petrochemical, commercial and manufacturing industries and includes both an Insulation and a Cement Selection Guide. Throughout the catalog, product descriptions, data and photographs supply information on the Carey line of industrial insulation for temperatures from 35°F. to 2,000°F.

QAMA OFFICERS/DIRECTORS — *W. W. Oughtred*, president of Asbestos Corporation Limited, was elected president of the Quebec Asbestos Mining Association at the association's annual meeting on January 16, 1968. *Dr. K. T. Lindell*, chairman of the board of Canadian Johns-Manville Company Limited, was elected vice-president. Officers reappointed include *Yvan Sabourin*—general counsel, *George Robinson*—treasurer and *Paul Filteau*—general manager and secretary. Other directors elected were *R. S. Coleman* of National Asbestos Mines, *J. A. Main* of Flintkote Mines Limited, *Dr. R. J. Merrill* of Carey-Canadian Mines Limited, *M. J. Messel* of Lake Asbestos of Quebec Limited (immediate past-president of the association), *P. A. Meyer* of Nicolet Asbestos Mines Limited and *F. P. Smith* of Bell Asbestos Mines Ltd.

The Quebec Asbestos Mining Association groups all of Quebec's eight asbestos-producing companies.



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Automobile Sales

NOVEMBER 1967 motor vehicle factory sales from plants in the United States totaled 807,715 (passenger cars —682,979; trucks and buses—124,736). The total for November 1966 was 980,697. The total for the first eleven months of 1967 was 8,018,384 compared to 9,405,789 for the same 1966 period.

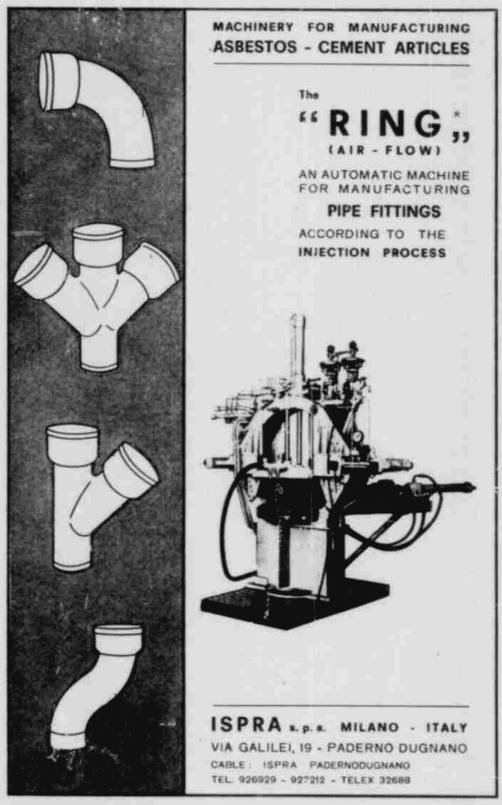
Motor vehicle factory sales from plants in Canada totaled 91,651 for November 1967 compared to 92,571 in November 1966. The total for the first eleven months of 1967 was 840,304 which compares with 803,308 for the same period in 1966.

U.S. IMPORTS of motor vehicles for the January through September 1967 period were: new passenger cars —711,395, valued at $1,163,312,795; used passenger cars—2,779, valued at $3,382,807; trucks and buses—104,467, valued at $157,149,859; and automotive parts valued at $444,757,794.

GEOLOGICAL SYMPOSIUM—A Symposium on the Rhodesian Basement was held by the Geological Society of South Africa, Rhodesian Branch, last October. D. H. Laubscher presented a paper at this Symposium entitled *The Origin and Occurrence of Chrysotile Asbestos in the Shabani and Mashaba Areas, Rhodesia.* ASBESTOS has an abstract of this paper which will gladly be loaned to interested readers.

CANADA produced 175,090,681 square feet (80,146 tons) of *vinyl-asbestos floor tile* during the first TEN MONTHS of 1967 which compares with 161,807,042 square feet (76,104 tons) for the same period in 1966. Imports of *vinyl-asbestos floor and wall tiles* for the first half of 1967 totaled 21,173 square yards, valued at $14,000. This compares with the figure for the first six months of 1966 which is reported as 19,879 square yards, valued at $22,000. (Dominion Bureau of Statistics)

AUSTRALIA—According to the Commonwealth Bureau of Census and Statistics, Canberra, 7,853,000 square yards of non-acoustic asbestos-cement sheets were produced in Australia during the Second Quarter of 1967.



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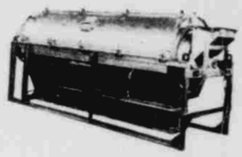
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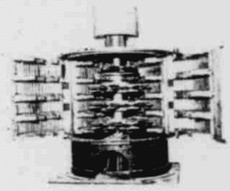
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- Gluer-Sealers
- Rotary Valves
- Bag Flattener & Loaders
- Laboratory Equipment
- Drive Equipment
- Air Separators
- Motorized Floor Sweepers
- Bucket, Man Lift & Freight Elevators
- Rotary Aspirators
- Mechanical Separators
- Rotary Dryers
- Fibre Fluffers
- Quebec Standard Testing Machines
- Screens
- Pressure Packers
- Screw Graders
- Fibre Samplers
- Automatic Motor Bases



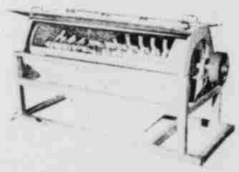
TROMMEL DUSTER

Removing dust and fine particles of impurities from Asbestos Fibre.



FIBERIZER

Releases fibre by impact in air.



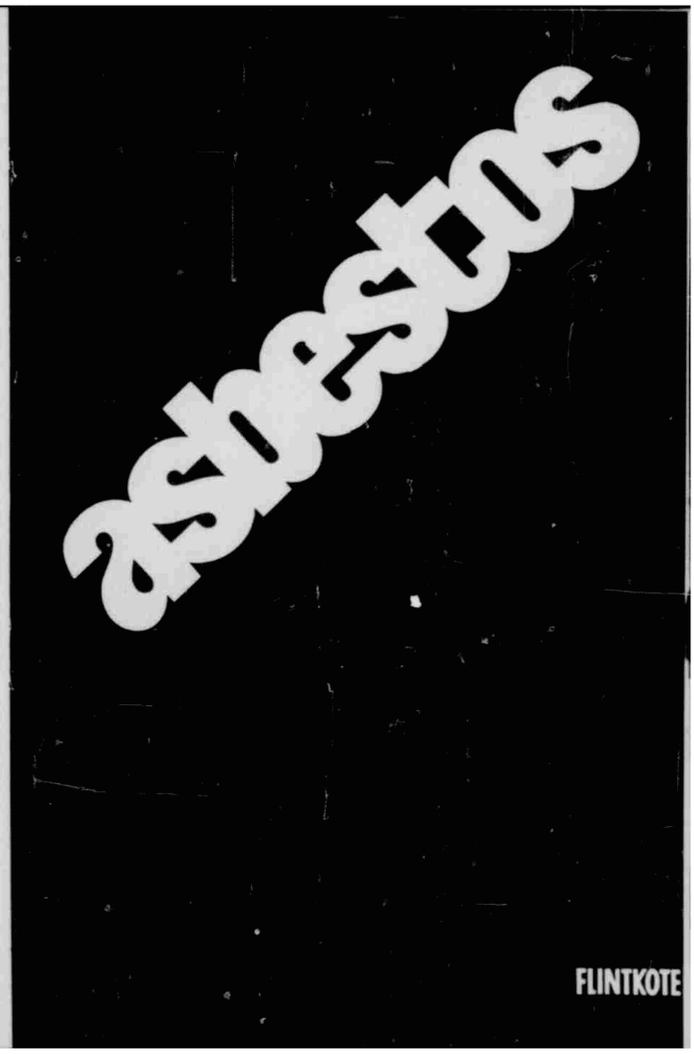
GRADER

For grading all classes of fibre.

AMERICAN MAP COMPANY, INC. has announced the publication of its new *Cleartype Business Control Atlas of the United States and Canada*. This Atlas consists of an individual full-page map for each state of the United States and each province of Canada. Each map is accompanied by a full-page index and shows towns of 1,000 population and over and all counties.

SURVEY OF MINES 1968, 42nd annual edition, is now available at $7.00 per copy from The Financial Post, Toronto, Canada. According to this comprehensive reference manual, Canada, as a mineral-producing nation, depends on export markets for something like 60% of its output. Looking ahead, the possibilities for further expansion of foreign markets for Canadian minerals appear especially bright. Exploration applying new techniques is turning up new discoveries for future development. This Survey also contains pertinent data on the many companies active in Canadian mining. The status of the many companies not presently active in mining is also reported. General statistical information includes production of minerals and the range of prices on shares of listed companies over an 8-year period.

BUILDING BOARD DIRECTORY—1967, 9th annual edition, is now available and provides complete information on asbestos sheets, hardboards and insulation boards, acoustic tiles, plastic laminates, plastic faced boards, polystyrene sheets, translucent roofing sheets, flexible facing materials, compressed straw slab, wood wool slabs, plasterboard, sandwich construction boards and plywood. In each case brand name, sizes and thicknesses available, and the name of the agents or concessionnaire and producer is given. Statistical information has been brought up-to-date, and comparison of import and production figures over a five-year period can be made at a glance. The Directory contains a handy reference section giving metric, price and stock conversion tables, metal fixing contractors, and fixing systems available, trade associations, and a guide to importers and stockists. (10/- post free: Middlesex Publishing Co., Ltd.)



JOHNS-MANVILLE CORPORATION, effective December 31, 1967, purchased certain assets and inventories of the *Gypsum Division* of *Fibreboard Corporation*, for approximately $16,500,000 in cash. The gypsum properties to be acquired by J-M are plants at South Gate, California; Florence, Colorado; and Apex, Nevada, and quarries at Apex and Lovelock, Nevada, and Coaldale, Colorado.

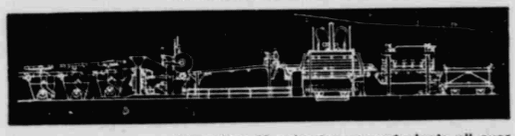
J-M COLORBESTOS SLATES, with the look and feel of natural slate, are shown in detail in a sixteen-page booklet containing a collection of finished roof installations located cross-country. Complete architectural specifications and product data are provided, including descriptions of staggered and straight butt designs. (AS-197A, available free)

ASBESTOS-CEMENT IN NASSAU—A development of prefabricated homes is being erected by a United States concern in Nassau, the Bahamas, with roof and wall components made of a combination of asbestos and cement. Only native Bahamians may purchase the houses, which are being erected on government-owned land. The asbestos-cement used for the roof and walls is a product of the *Johns-Manville Corporation*. The roofing is fabricated of deeply corrugated panels.

JOHNS-MANVILLE CORPORATION is conducting an on-site evaluation of urban rehabilitation materials and methods at a gutted brownstone building in Brooklyn, New York. This is one of 17 buildings being rehabilitated by the Park Slope Improvement Corporation. The task of J-M engineers is to determine what materials the company now manufactures or could develop which are most suitable for use in renovating older structures. J-M is donating many of its products including a variety of *extruded asbestos-cement products*, glass fiber insulations, gypsum wall board, mineral fiber acoustical panels and *vinyl-asbestos floor tile*.

WEHRHAHN

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.



More than 50 asbestos-cement plants all over the world are successfully producing:

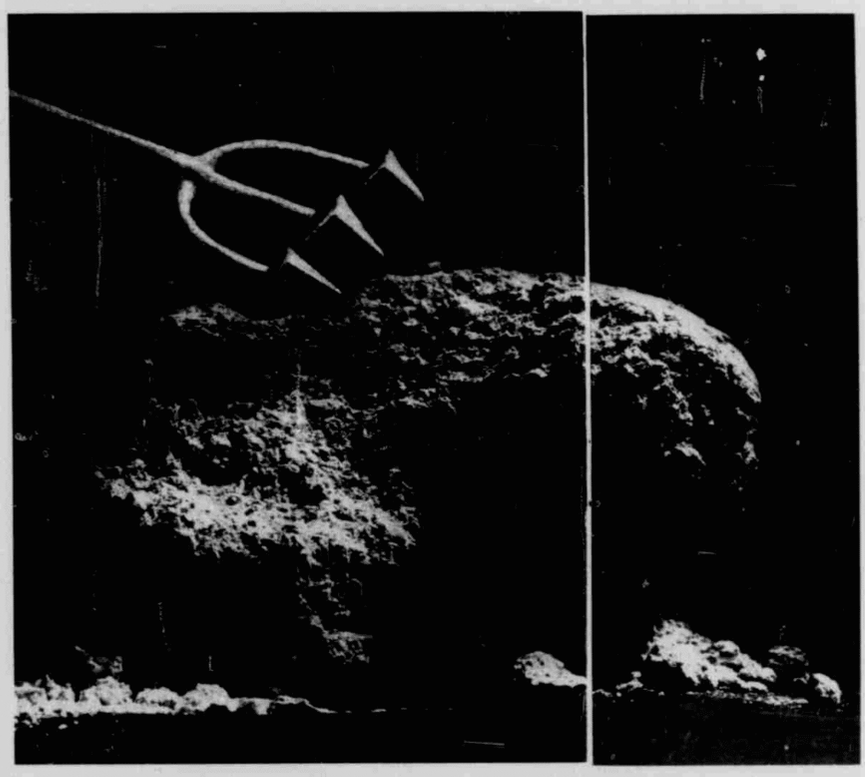
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corrugated sheets
shingles on machines of

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How the devil's asbestos cuts floor tile cost.



High in the Diablo Mountains, the new Johns-Manville Coalinga mill produces a very special grade of asbestos. Diablo, of course, is Spanish for devil. And the unusual asbestos mined in this central California range is proof some devils are really good guys.

Coalinga fibers are short and strong. Which makes them ideally suited to floor tile use. And they are exceptionally bright and clean. Which enables tile manufacturers to cut pigment cost substantially.

Still more proof the Diablos are good guys: this range promises an almost unlimited supply of short, bright, floor-tile-perfect asbestos fiber. Utilizing the most modern production methods, the J-M Coalinga mill assures their usefulness to our friends in the flooring industry.

For asbestos fiber literature, write Canadian Johns-Manville Co., Ltd., Box 1500, Asbestos, P.Q. Or Johns-Manville, Asbestos Fiber Sales, Research and Engineering Center, Manville, N.J.

JM

Johns-Manville

Building

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

DECEMBER 1967 contract values for future construction totaled $3,996,197,000, representing a 25% increase over the December 1966 total.

Nonresidential building totaled $1,550,311,000, 14% above the year-ago amount. A number of contracts for large office buildings and manufacturing plants pushed both the commercial and manufacturing categories up 17%. Schools, hospitals and the social and recreational categories also posted large gains, while public buildings and miscellaneous contract values dipped slightly.

Residential building contracts registered a sharp 55% gain and totaled $1,403,529,000. There were large increases in apartment, single-family and nonhousekeeping contract values.

Nonbuilding contracts were valued at $1,042,357,000, 12% above the 1966 amount. Significant gains in contracts for streets and highways, sewer and water facilities and miscellaneous nonbuilding construction brought this healthy increase. Utilities declined despite a $134-million contract for an electrical power plant in Pennsylvania.

The uninterrupted strong expansion during the past year has put the construction industry back on trend after its 1966 recession. However, two familiar problems, costly credit and cutbacks of public funds, are once more threatening to squeeze construction markets.

YEAR 1967: Nonresidential, $20,138,860,000, up 4%; Residential, $19,535,920,000, up 10%; and Nonbuilding, $13,220,226,000, up 2%—Total Construction, $52,895,006,000, up 5% from 1966 total value of contracts.

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MARKET CONDITIONS

General Business.

General business still seems to be on a "see-saw." While very few companies are complaining that business is poor, many large and small companies are reporting their earnings for 1967 were either slightly, or greatly, reduced from 1966 levels and many are finding that, while demand in their particular fields is still good, competition is very keen and price is a much more important factor than it was several years ago. In some lines this is a result of increased productive capacity which, at the moment, is not being fully utilized despite the fact that Gross National Product for 1967 was the highest ever recorded. Of course, this includes services as well as manufactured products and the 5% increase in the total was attributed to only about 2% in product vs. 3% in price increases. Thus we can see that 1967 was just about as good as 1966, in toto, but certainly fell short of our goal of a 3% to 5% rise in GNP per year, regardless of price considerations. We can only hope that those who predict a sharp upturn in early 1968 are correct.

Asbestos—Raw Material.

Quebec asbestos fiber shipments for the Industry during December 1967, totaled 130,799 tons, an increase of 24,545 tons or approximately 23% over the same period the previous year.

Final 1967 shipments, at 1,284,532 tons, were 48,243 or approximately 4% lower than 1966 actual shipments.

Asbestos—Manufactured Goods.

Asbestos Textiles: Strong demand for these materials continues with no signs of a let-up. In fact, increasing activity in many of the manufacturing fields which are large users of asbestos textiles points to a continuation of this favorable situation for the forseeable future.

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Because our ASBESTOS SHORTS are "clean", they disperse rapidly in asphalt and other materials . . . save you production time.

GRIT- AND WHISKER-FREE FOR SPRAYED UNDERCOATINGS

Careful quality control ensures that our ASBESTOS SHORTS are free of grit and other minute particles that clog spray equipment.

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SALES AGENTS

ARGENTINA, Buenos Aires
"Insud" Cia. Sudamericana de Industria y Comercio S.A.

BRAZIL, Rio de Janeiro
Sao Paulo "Brasimet" Comercio e Industria S.A.

CALIFORNIA, Los Angeles
E. B. Taylor Company

CALIFORNIA, San Francisco
E. M. Walls Company

CANADA, Montreal
Federated Metals Canada, Ltd.

CANADA, Toronto
Federated Metals Canada, Ltd.

COLOMBIA, Barranquilla
Holanda, Colombia, S.A.

COLORADO, Denver
Van Waters & Rogers, Inc.

FLORIDA, Largo
Gulf Coast Chemical Corporation

ILLINOIS, Chicago
Jensen-Souders and Assoc., Inc.

MASSACHUSETTS, Allston
D. H. Litter & Co., Inc.

MEXICO, Mexico City
Asarco Mexicana, S.A.

MICHIGAN, Detroit
Baker & Collinson

MINNESOTA, Minneapolis
Industrial Chemical & Equipment Co.

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.

UTAH, Salt Lake City
Van Waters & Rogers, Inc.

WASHINGTON, Seattle
Van Waters & Rogers, Inc.

LAKE ASBESTOS

ASARCO

A subsidiary of American Smelting and Refining Company

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Asbestos Brake Lining: The present market for both original equipment and replacement brake linings is extremely good and prospects for growing demand in the current year are very good.

Asbestos-Cement Shingles, Roofing and Siding: While sales of these materials have slowed due to bad weather, prospects are encouraging for a good year in 1968. Builders report increased interest on the part of buyers and there is a heavy demand for new homes particularly in the lower priced field. Unless tight money has an adverse effect on new home building, this year should be considerably better than 1967 for asbestos-cement roofing and siding.

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

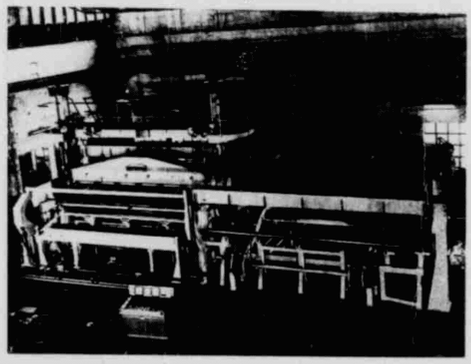
ASBESTOS CONTRACTORS BOSTON ASSOCIATION held its annual meeting January 15, 1968, and elected the following officers and committee members for the ensuing year: President, Bronius K. Kudirka, Armstrong Contracting & Supply Corporation; Secretary-Treasurer, Albert L. Sargent, Eastern Refractories Company, Inc.; Joint Trade Board, William Slade, William Hinman and Walter Peterson; Joint Apprenticeship Committee, Theodore Brodie, Frank Jones and Herbert Noyes; and Employer Trustees of the Health and Welfare Fund, Albert L. Sargent, William Wilkes and Norman Johnsen.

Some dropping off in the volume of business was experienced during 1967 compared to 1966 but this year is expected to improve. Competition still remains keen in the Massachusetts area and employers seem to be faced with the continued shortage of asbestos worker mechanics.

AMA CONFERENCE—The Annual Personnel Conference of the American Management Association will be held at the Palmer House Hotel, Chicago, Illinois, February 14-16, 1968. It is designed to motivate a company's entire work force for greater achievement in an increasingly industrial society.

50 YEARS OF EXPERIENCE

in the field of machinery for asbestos-cement products



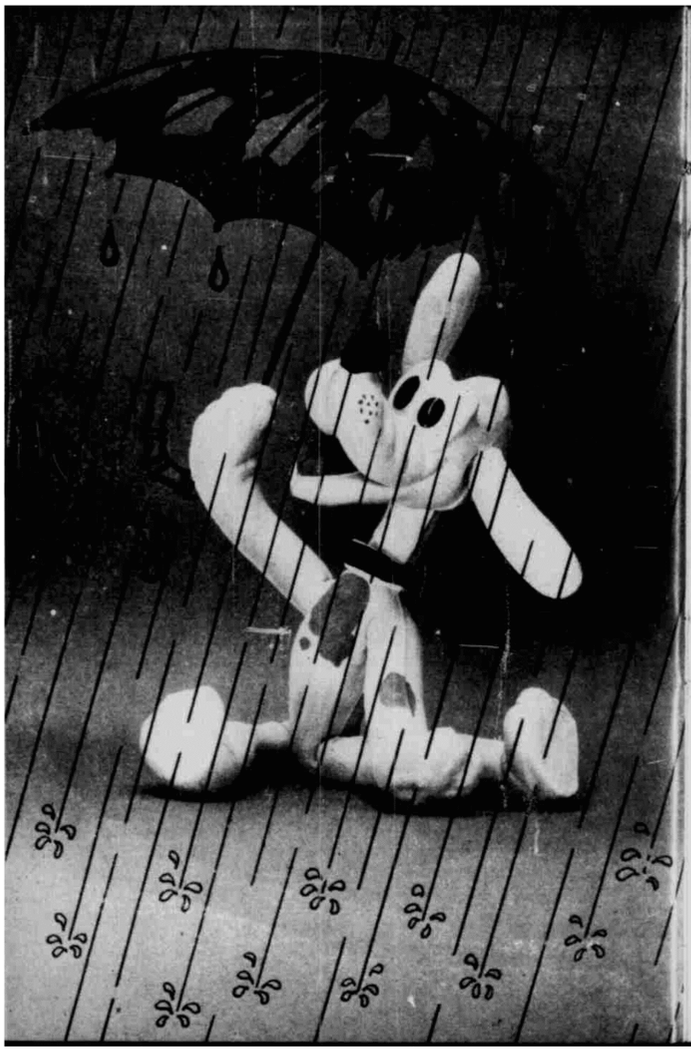
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TW2732

PRODUCTION

Canada—NOVEMBER 1967 asbestos production amounted to 165,902 tons (Quebec—157,390; Newfoundland, Ontario and British Columbia—8,512). This compares with the November 1966 total of 172,770. (Dominion Bureau of Statistics, Ottawa)

Canada's Mineral Production 1967—Total value of the mineral production of Canada in 1967 has been estimated at $4,398,579,072, a 10% increase over the 1966 total of $3,969,178,151. Shipments of nonmetallic minerals were valued at $414,006,283 during 1967, which compares well with the 1966 total value of $363,387,717. Asbestos tonnage declined to 1,400,708 tons in 1967 from 1,489,055 in 1966. Total value of asbestos shipments remained at approximately the same level: $163,011,249 in 1967 against $163,654,863 in 1966. (Catalog No. 26-202, Dominion Bureau of Statistics, Ottawa, 25c)

Argentina—The preliminary production figure for asbestos in 1965 amounted to 220 metric tons which compares with 492 in 1964 and 331 in 1963. Exports of asbestos during 1964 reached 1,200 metric tons (all to Paraguay) and 291 in 1963. Imports were 12,830 metric tons in 1964 from Canada, Rhodesia, Malawi, and France). (The Mineral Industry of Argentina—1965 U.S. Bureau of Mines Minerals Yearbook).

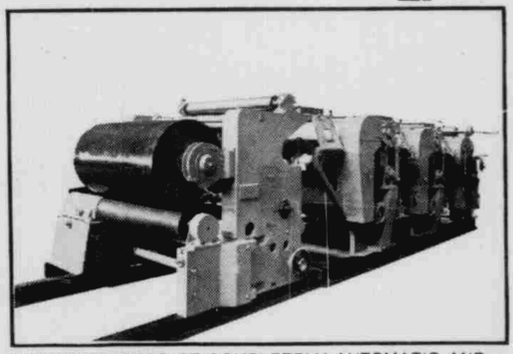
Brazil—Production of asbestos in 1965 was 1,092 metric tons and 1,088 in 1964. These are preliminary figures for the State of Bahia only and include anthophyllite, chrysotile, and tremolite fiber. Asbestos fiber imports reached 15,151 metric tons in 1965 (Canada and South Africa) against 13,334 in 1964. Imports of asbestos construction materials totalled 108 metric tons in 1965 (United States and West Germany) which compares with 240 in 1964. (The Mineral Industry of Brazil—1965 U.S. Bureau of Mines Minerals Yearbook).

Italy—Production of asbestos was 71,862 metric tons in 1965 and 68,557 in 1964. Exports reached 25,699 metric tons in 1965 against 9,017 in 1964, and exports of asbestos- and fiber-cement products totalled 43,591 in 1965 compared with 50,608 in 1964. The value of exports of asbestos tripled to $1.75-million in 1965; most of the increase in volume went to West European countries but included 2,000 tons to Poland. (The Mineral Industry of Italy—1965 U.S. Bureau of Mines Minerals Yearbook).

ASP/HAC/19

asbestos cement *plants*





MANUFACTURERS OF COMPLETELY AUTOMATIC AND UP-TO-DATE PLANTS FOR

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CEMENT PRODUCTS LTD.

PLANT MANUFACTURING DIVISION HYDERABAD-18 INDIA

IMPORTS & EXPORTS

Exports From Canada

(Published by Dominion Bureau of Statistics) **AUGUST 1967**

Unmanufactured Asbestos:

Short Tons

	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
United States	7	1,354	9,431	36,656
United Kingdom		600	4,872	1,442
South America		24	6,277	1,709
Central America & Mexico		23	3,191	491
Europe		728	20,618	6,297
Japan	18	146	1,498	7,083
Other Countries		32	9,047	3,620
	25	2,907	54,934	57,298

Total Unmanufactured Asbestos—115,164 Valued at—$15,518,000

Manufactured Asbestos Goods:

Asbestos Brake Linings & Facings	$ 47,000
Asbestos-Cement Building Materials	173,000
Asbestos Basic Products, Other	66,000
	$286,000

SEPTEMBER 1967

Unmanufactured Asbestos:

Short Tons

	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
United States	5	1,232	11,070	33,724
United Kingdom		485	6,125	5,012
South America			4,315	1,655
Central America & Mexico		38	3,066	615
Europe	25	803	15,841	15,808
Japan	6	198	1,846	5,667
Other Countries		40	6,493	1,705
	36	2,796	48,756	64,186

Total Unmanufactured Asbestos—115,774 Valued at—$14,252,000

Manufactured Asbestos Goods:

Asbestos Brake Linings & Facings	$ 86,000
Asbestos-Cement Building Materials	103,000
Asbestos Basic Products, Other	43,000
	$232,000

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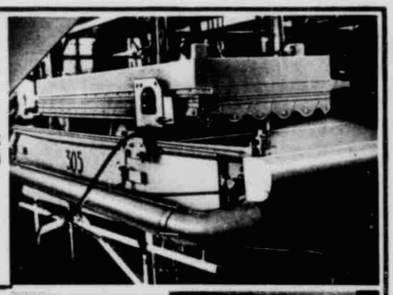
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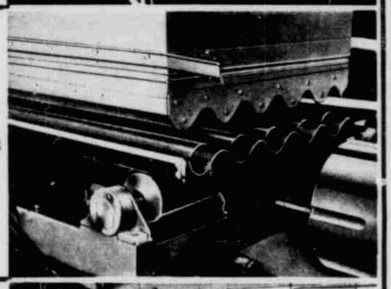
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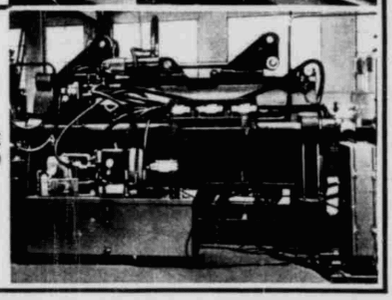
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INDUSTRY NEWS

HAPPY BIRTHDAY

Elmo A. DiSalvo, Vice President-Manufacturing, The Philip Carey Mfg. Co., Cincinnati, Ohio, February 16.

Robert Sanderson, President, Acme Asbestos Limited, Vancouver, British Columbia, Canada, February 21.

George W. Smith, Director, Bell Asbestos Mines Ltd., Thetford Mines, Quebec, Canada, February 22.

Robert E. Cryor, President & Treasurer, North American Asbestos Corporation, Chicago, Illinois, February 23.

Dr. D. B. Wicker, Assistant Vice President-Marketing Development, Huyck Corporation, Stamford, Connecticut, February 24.

Dr. Morris Lieff, Technical Consultant, Smith & Kanzler Company, Linden, New Jersey, February 25.

A. S. Johnson, Director, Asbestos Corporation Limited, Thetford Mines, Quebec, Canada, February 28.

J. L. Rainey, Vice President, American Asbestos Textile Corporation, Meredith, New Hampshire, March 1.

Carl H. Thede, General Sales Manager for Building Products, General Aniline & Film Corporation, New York City, March 1.

Robert S. Coleman, Vice President, National Asbestos Mines Limited, Thetford Mines, Quebec, Canada, March 3.

Gordon H. Gibbs, Mining Engineer, Willowdale, Ontario, Canada, March 3.

John H. Matthews, Director, Raybestos-Manhattan, Inc., Passaic, New Jersey, March 3.

W. J. W. Smith, Vice President & Sales Manager, Bell Asbestos Mines Ltd., Thetford Mines, Quebec, Canada, March 3.

Kempton Dunn, Chairman & Chief Executive Officer, Abex Corporation, New York City, March 5.

C. R. Meek, Production Manager, Pipe Division, Certain-teed Products Corporation, Ambler, Pennsylvania, March 5.

M. E. Curtis, President & Treasurer, Curtis Asbestos Company, Boston, Massachusetts, March 7.

Leonard L. Hank, Senior Vice President-Operations, National Gypsum Company, Buffalo, New York, March 7.

Edward L. Szostek, Treasurer, Drycor Felt Company, Staffordville, Connecticut, March 7.

William G. Brinker, President, The Clark Asbestos Company, Cleveland, Ohio, March 8.

William A. Sussman, President, The Sussman Asbestos Company, Toledo, Ohio, March 8.

D. W. Hills, Joint Managing Director, Turner Brothers Asbestos Company Limited, Spotland, Rochdale, England, March 9.



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M. P. Carson, Vice President-Sales, Asbestos Corporation Limited, Thetford Mines, Quebec, Canada, March 10.

Conrad L. Wiegers, President, Allied Services, Inc., Charleston, West Virginia, March 11.

Haydn S. Wood, Secretary, Philadelphia Asbestos Corporation, Philadelphia, Pennsylvania, March 11.

E. C. Meisner, Vice President-Engineering & Research, The Philip Carey Mfg. Co., Cincinnati, Ohio, March 12.

George R. Vila, President & Chairman, Uniroyal, Inc., New York City, March 12.

Colin S. Hoyes, Works Manager, Wunderlich Limited, Brisbane, Queensland, Australia, March 14.

William A. Kamke, Secretary & Treasurer, The Sussman Asbestos Company, Toledo, Ohio, March 14.

B. M. Ryan, Purchasing Agent, Asbestos Products, Inc., St. Paul, Minnesota, March 14.

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

USSR Asbestos/1965—During 1965, 785,000 metric tons of asbestos were produced in the U.S.S.R., according to "The Mineral Industry of the U.S.S.R. (preprint from the 1965 U.S. Bureau of Mines Minerals Yearbook). No export statistics are given for 1965, but 1964 figures amounted to 212,200 metric tons, valued at 28,608,000 rubles (principal destinations—East Germany, West Germany, France, Poland, Czechoslovakia, Bulgaria, and Hungary). Development was concentrated in the Urals, Kazakhstan, and the Buryat A.S.S.R. The first 200,000 ton-per-year stage of the Dzhetygara asbestos combine in Kazakhstan was commissioned in October 1965, and produced 40,000 tons of asbestos by year end. Construction of the second stage was started and reportedly was to be commissioned in 1967 and slated to reach 600,000 tons capacity. Deposits of two types of asbestos were discovered in Kazakhstan: anthophyllite in the Mugodzhary hills; and, chrysotile in Dzhambul Oblast'. In Buryat A.S.S.R. detailed prospecting of the Molodezhnoe asbestos deposit was nearly completed and a road to the site was under construction.

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ASBESTOS STOCK QUOTATIONS

Close—January 31, 1968

Abex	29⅓	Glen-Alden	14⅜
Advocate	*$2.75	G-Alden (.70)	14⅝
Asarco	70¾	G-Alden (pfd 3.15)	109
Armstrong Cork	55¼	G-Alden (pfd 3)	101¾
Asbestos Corp.	*$21.00	Gulf & Western	54
Bendix	46¼	G&W (pfd 1.75)	173
Cassiar	*$16.62	G&W (pfd 3.50)	216¼
Certain-teed	16¾	G&W (pfd 3.87)	90½
Cert-teed (pfd .90)	18½	G&W (pfd 5.75)	75⅞
Conwest	*$8.00	Johns-Manville	58⅛
Fiberboard	39¾	National Gypsum	45½
Flintkote	22⅜	Raybestos	63⅛
F-kote (pfd—A 4.50)	77	Unarco	11¾
Garlock	19⅞	Union Carbide	45½
Gen Anil & Film	22⅝	Uniroyal	48⅛
GAF (pfd 1.20)	29½	Uniroyal (pfd 8)	128½

*Canadian currency

Colombia—In a few years' time, Colombia expects to be able to export ores worth up to $15-million a year, according to the Colombian Minister of Mines and Petroleum. The recent discoveries of asbestos, nickel, copper, iron, mercury, lead and phosphorous should reduc- Colombian imports by some $25-million a year.

"ASBESTOS BULLETIN"

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"ADVANCED MATERIALS"
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ASBESTOS PRICES

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

(As of July 10, 1964)

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

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

(As of April 1, 1967) Canadian Currency

Crude No. 1	$ ..	$1,410.00
Crude No. 2	..	760.00
Group No. 3 (Spinning Fibre)	360.00 to	588.00
Group No. 4 (Shingle Fibre)	198.00 to	335.00
Group No. 5 (Paper Fibre)	140.00 to	165.00
Group No. 6 (Waste, Stucco or Plaster)	..	101.00
Group No. 7 (Refuse or Shorts)	47.00 to	85.00

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

(As of January 1, 1968) Canadian Currency

AAA grade (non-ferrous spinning fibre)	$ 810.00
AA grade (non-ferrous spinning fibre)	643.00
A grade (non-ferrous spinning—Canadian Group 3)	484.00
AC grade (asbestos-cement—Canadian Group 4)	345.00
AK grade (shingle fibre—Canadian Group 4)	241.00
CP grade (shingle fibre—Canadian Group 4)	220.00
AS grade (shingle fibre—Canadian Group 4)	200.00
CT grade (shingle fibre—Canadian Group 4)	195.00
AX grade (shingle fibre—Canadian Group 5)	177.00
CY grade (shingle fibre—Canadian Group 5)	126.00
AY grade (shingle fibre—Canadian Group 5)	126.00

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

(As of April 1, 1967) U. S. Dollars

Group No. 3 (Spinning & Filtering)	$ 319.00 to	$ 342.00
Group No. 4 (Shingle Fibre)	183.00 to	296.00
Group No. 5 (Paper Fibre)	129.00 to	153.00
Group No. 6 (Waste, Stucco or Plaster)	..	93.00
Group No. 7 (Shorts & Floats)	40.50 to	78.00

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

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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, D.C. 20231, at a cost of 50c each. Remittance should be in coin, currency, or check and the number of the patent, name of inventor and date of issue should be shown.

U.S. Patents issued from December 12, 1967, through January 9, 1968.

3,359,717—Fibrous Blends and Method of Manufacture. A. Marzocchi & J. J. Dillon (assigned to Owens-Corning Fiberglas Corporation, a corporation of Delaware). December 26, 1967.

3,360,594—Castable Gunning Mix. G. H. Criss (assigned to Harbison-Walker Refractories Company, Pittsburgh, Pennsylvania). December 26, 1967.

3,361,690—Polyester Molding Composition Containing Aqueous-Alkali-Extracted Douglas Fir Bark Fiber as a Reinforcing Agent. A. S. Gregor, K. D. Gehr & T. R. Frost (assigned to Weyerhaeuser Company, Tacoma, Washington). January 2, 1968.

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10P140	0	1.40 Lbs.	125	70
10P225	1	2.25 Lbs.	125	50

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•10P140 tensile equals Navy style •1 with 47% lower cost, 38% weight reduction.

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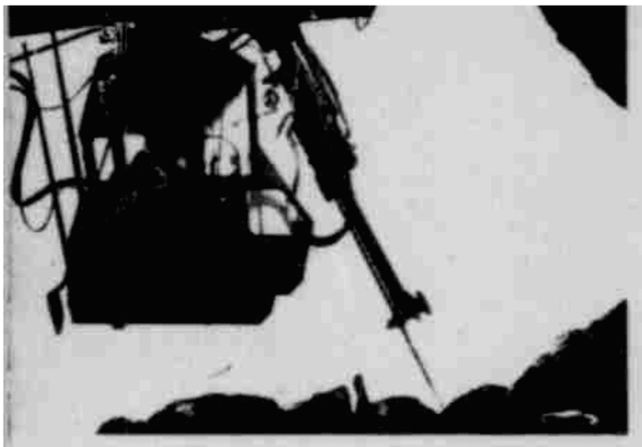
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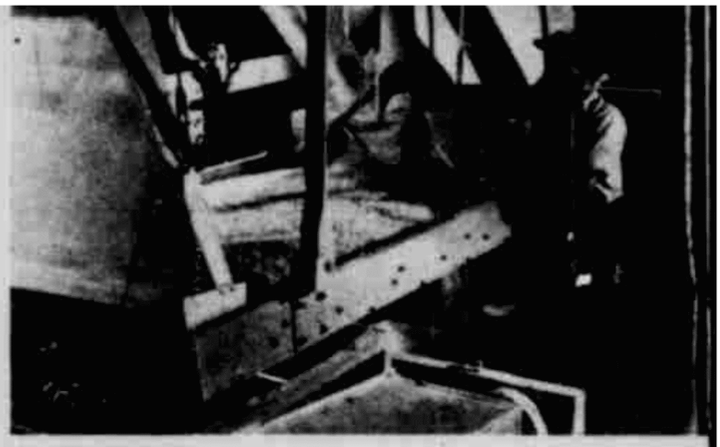
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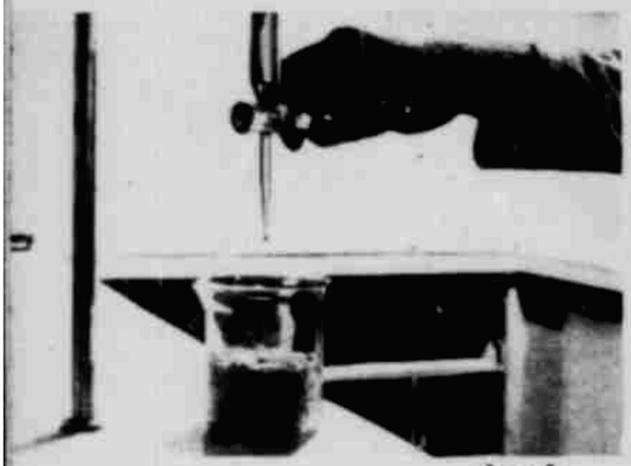
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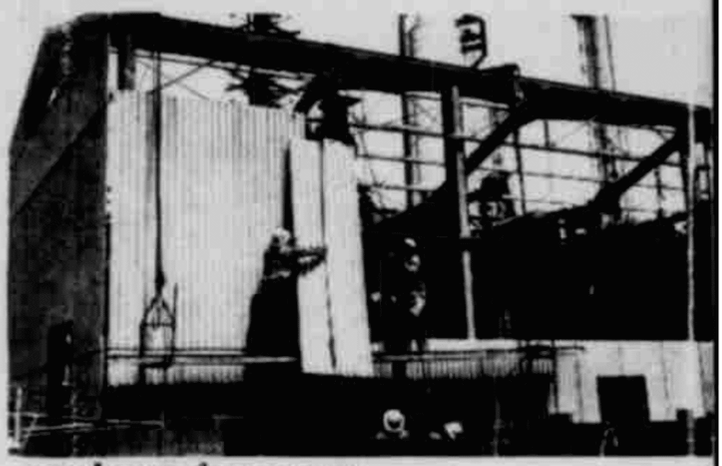
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