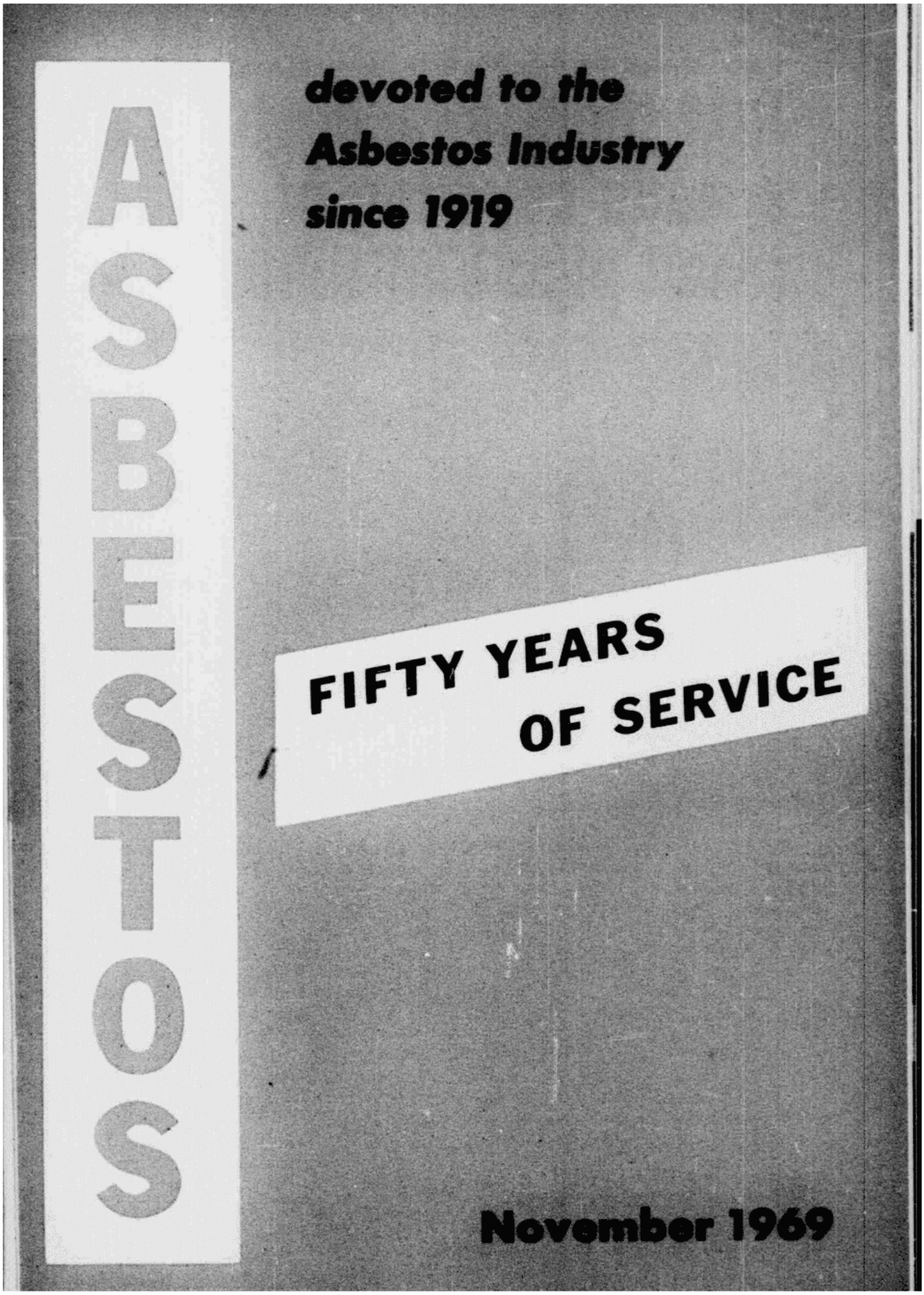


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- Faster installation than sectional molded covering, particularly around curves where cutting, mitering, and cementing are required.
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Used successfully for the past two years, the R/M tape currently is being applied aboard three destroyers and a 45,600-ton container ship. Service includes water and steam lines involving temperatures to 499°F.

For complete information on R/M Style 25 Thermal Insulating Tape conforming to MIL-I-15349 or Coast Guard specifications, contact us.

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ASBESTOS

VOLUME 51 NOVEMBER 1969 NUMBER 5

FOUNDED JULY 1919 AND PUBLISHED MONTHLY SINCE THAT DATE

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ASBESTOS is indexed regularly by Engineering Index, Inc.

Microfilms of back issues may be obtained from University Microfilms, 300 North Zeeb Road, Ann Arbor, Michigan 48106.

PROPRIETOR: Stover Publishing Company

EDITOR: Doris M. Fagan PUBLISHER: Carrell J. Stover

SUBSCRIPTION RATES—United States, $4.00 per year; All Other Countries, add $1.00 for postage; Current Copies, 35 cents each; Back Copies, 50 cents each; payable in U.S. Funds to:

ASBESTOS, 131 North York Road (P. O. Box 471)
Willow Grove, Pennsylvania 19090 Telephone: 215-659-0134

Second Class Postage Paid at Willow Grove, Pennsylvania, U.S.A.

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CANADIAN JOHNS-MANVILLE RECOVERS FIBER FROM ASBESTOS ORE TAILINGS

The following article is based on a report prepared by the staff of Canadian Johns-Manville Co. Ltd. and concerns a new application by HAZEMAG machines in the Asbestos Industry. The article was submitted by Dr. E. Andreas, President of HAZEMAG (Canada), Ltd., Montreal.

Over the years, improvements in milling practices and equipment have substantially increased the percentage of usable fiber recoverable from a typical asbestos ore. Hence the tailings from a modern milling operation contain very little fiber of any commercial value and attempts to recover such fiber could not be economically justified. Such was not the case in earlier days, particularly prior to the 1930's. As a result, Canadian Johns-Manville, for example, has a stock pile of some eight to twelve million tons of pre-1930 tailings which, when sampled and tested indicated a recoverable content of 4% or more of Group 6 fiber in a low quality range, through specially devised processing methods.

Modifications to six primary processing lines improved their efficiency to the point where some 250 to 300 tons of ore per hour treated by these lines were so completely freed of worthwhile fiber that they could be discarded as tailings without being routed through the Secondary Rock Lines. This opened up ore and fiber handling capacity in the Secondary Lines which could be utilized to recover fiber from the Stock Pile Ore.

The Stock Pile Ore available for retreatment contains many forms of foreign material such as wood, metal, rocks and large lumps of ore. To prepare this material for retreatment in the Secondary Rock Lines a plant was built to provide the following:

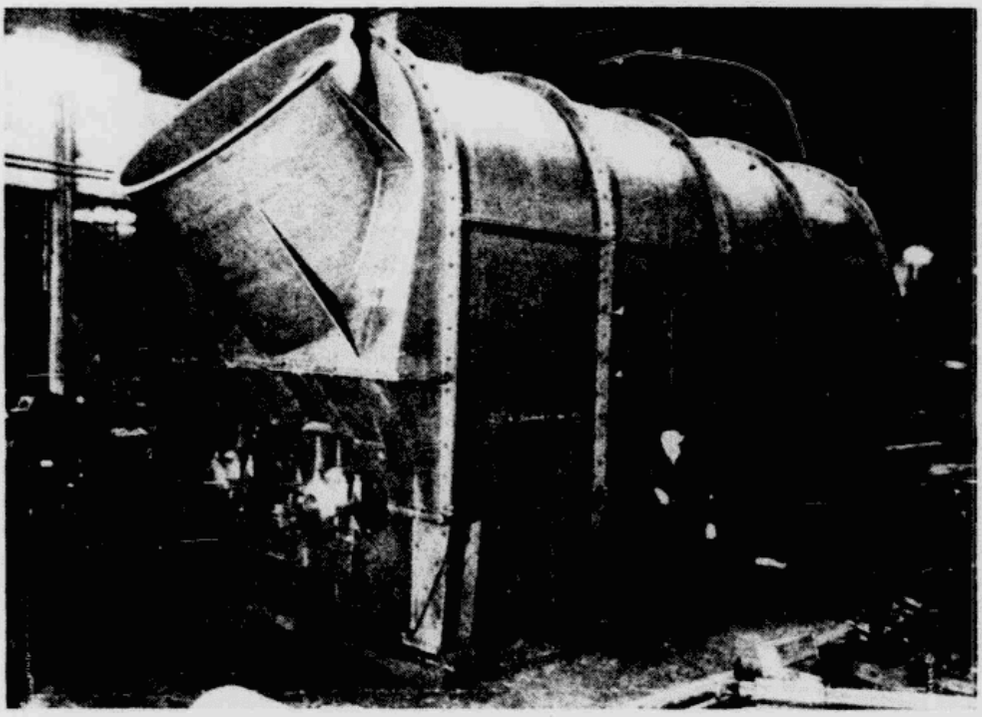
(1) A truck dumping slip with a bar grizzly where large pieces of wood, metal or ore could be removed.

(2) A variable speed belt feeder to control feed rate of material from the slip.

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Efficient Fibre Recovery by Processing Tailings with

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Montreal 215, P.Q.

Industrial Machinery
Supplies (Pty.) Ltd.
Johannesburg, So. Africa

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(3) A bucket elevator feeding two vibrating screens (in series) which remove plus 2″ and plus 1″ material respectively, with oversize fractions going to tailings.

(4) A 150-ton capacity storage bin to provide surge capacity for the minus 1″ ore which is to be reprocessed.

(5) A feeder and scale (Ohmart Nuclear Scale) to control the feed rate from the bin.

(6) A HAZEMAG Rapid Dryer designed to dry 100 tons per hour of wet ore, reducing its moisture content from about 7% to a maximum of 2% when fed to the mill.

(7) A group of Multiclone collectors after the dryer and a Rotoclone collector on the exhaust of the Multiclones to achieve a relatively dust-free exhaust from the Dryer.

(8) Conveyors from the Dryer to deliver the dried material to J-M Fiberizers in the mill, made available by the previously mentioned modifications in the Primary Lines. An FAP-3 HAZEMAG Impactor is in parallel with these Fiberizers for comparative testing purposes.

The discharge from the Fiberizers joins the ore from 10 Primary Rock Lines as feed to the Secondary Rock Lines and existing Secondary Fiber Circuits process the mixture of "virgin" fiber and that obtained from the Stock Pile Ore. Since it is impossible to segregate the end products of the Secondary Lines, an automatic sampling device has been installed which collects a sample of the dried ore from the Rapid Dryer over each 24-hour period. These samples are processed in the Pilot Plant to simulate the processing the material would receive in the regular milling lines and measurements are made to provide a continuing check on the performance of the dryer and the percentage of "recoverable" fiber in the ore being fed to the mill from the Stock Pile

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The selection of equipment for this plant was based on thorough studies of the characteristics of the Stock Pile Ore and of the desired quality of feed for the Secondary Mills.

Preliminary investigation revealed the Stock Pile Ore had a relatively low content of free fiber and a large content of short, crudy (unopened) pencils. Experimental work indicated that harsh impacting would be required to open these crudy pencils. The approximately 7% water content dictated use of a drying process to reduce the moisture content to 2% or lower before further milling.

The HAZEMAG Rapid Dryer employs rotating beaters to move the ore through the dryer shell and to throw up a curtain of ore through which the hot gases pass. Thus the Rapid Dryer, in addition to its drying function, serves also as a mild impactor which releases fibers adhering to, or partially embedded in, the ore. Tests of the Rapid Dryer versus a conventional horizontal dryer showed a definite superiority in recovery and quality of fiber from the Rapid Dryer.

Tests of the FAP-3 HAZEMAG Impactor versus the J-M Fiberizers showed recovery from the FAP-3 was higher but the fiber recovered was somewhat shorter and contained a higher percentage of granular and pan by Rotap test.

Tests performed between January 30 and March 10, 1969, a period in which weather conditions were adverse, showed the Rapid Dryer performed in complete accordance with expectations. Average ore feed was 101 tons per hour, with an average moisture content of 7%. The dryer removed an average of 5.6 tons of water per hour and the moisture content of the dryer product averaged 1.5%. The "recoverable" fiber, measured in the pilot plant, averaged 5.6% of the ore processed.

Since the HAZEMAG Rapid Dryer is the "heart" of this plant, the fact that its performance has consistently met, or exceeded, design capacity as a dryer, and its system is especially beneficial for recovery of fiber from tailings, its installation has been of great value in this operation.

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ATI 25th Anniversary Meeting

Last month, during its third General Meeting of the year, the Asbestos Textile Institute commemorated the 25th Anniversary of its founding.

The following officers were elected for the ensuing year: President, E. A. Schuman, of Johns-Manville Corporation; Vice President, L. E. Moody, of H. K. Porter Company, Inc.; Treasurer, M. Q. Scowcroft, of Raybestos-Manhattan, Inc. H. E. Sunbury continues as Executive Secretary and H. C. Roosevelt, of Cadwalader, Wickersham & Taft, remains the Legal Counsel. New members elected to the Board of Governors were J. K. Whittaker of Nicolet Industries, Inc. and E. A. Morris of Uniroyal, Inc.

Meetings were held by the working committees and each of the four retiring Chairmen received Certificates of Appreciation. The working committees, and their newly-appointed Chairmen, are: Air Hygiene & Manufacturing, H. Fleming, of Uniroyal, Inc.; Technical, S. G. Dixit, of Garlock Inc.; Industry Promotion, R. E. Carpenter, of Garlock Inc.; and Fiber Testing, D. E. Childers, of H K. Porter Company, Inc.

John D. McCluer, who retired last August from H. K. Porter Company, Inc., was presented with a handsome plaque in recognition of his outstanding contribution over the years to the Institute and to the asbestos textile industry.

George S. Fabel, a past President and a member of the ATI Board of Governors at the time of its founding in 1944, reviewed the progress of the Institute during the last 25 years. He is presently associated with American Asbestos Textile Corporation and was formerly President of Southern Asbestos Company prior to its acquisition by H. K. Porter Company, Inc.

William J. W. Smith, Vice President-Sales with Bell Asbestos Mines Limited, reported on the current supply of various grades of asbestos fiber. Of particular interest was his statement that quality Group 3 spinning fibers continue to be in very short supply.

The guest speaker was James S. Massenburg, Executive Secretary of the North Carolina Governor's Committee. Mr. Massenburg discussed "Employment of the Handicapped" and related the important work being done by the

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HARDIE MERGER—A merger has been completed whereby James Hardie Asbestos Limited has acquired the whole of Hardie Holdings Limited.

CAPE ASBESTOS/POWELL DUFFRYN — The Cape Asbestos Company Limited and the Powell Duffryn Group have announced that, subject to contract, Powell Duffryn Limited will sell to CAC the business and assets of Powell Duffryn Timber Industries Limited. The transaction involves Powell's boardmill activities at Queensferry, Flintshire, England. It is the intention of Cape Asbestos that the boardmill shall be operated by its subsidiary company — Cape Universal Building Products Limited.

NATIONAL GYPSUM COMPANY has approved in principle the acquisition of *Hamilton of Indiana, Inc.*, Vincennes, Indiana. A fabricator of flat glass, Hamilton nationally markets tempered glass for household appliances and storm doors. National Gypsum proposes to issue shares of its common stock in exchange for the issued and outstanding common stock of Hamilton. It is intended that Hamilton will become a division of Binswanger Glass, a wholly-owned subsidiary of National Gypsum. The consummation of the acquisition is subject to arriving at a definitive agreement including a satisfactory conclusion of normal acquisition investigation procedures.

ASBESTOS CORPORATION LIMITED has reorganized its exploration branch and changed the name of its wholly-owned subsidiary, Asbestos Corporation (Explorations) Limited to MINOREX LIMITED. According to W. W. Oughtred, President of Asbestos Corporation, "The change of name reflects the parent company's broader interest in the field of mineral exploration to encompass minerals other than asbestos."

Dr. P. H. Riordon has been named President of Minorex and he will headquarter in Vancouver, British Columbia, Canada. The Vice-President is *Dr. E. G. Robinson* who will be located in Toronto. *J. H. Bright*, a geologist, has joined Minorex as Manager for Western United States, with offices in Reno, Nevada.

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New Msauli Asbestos Mill

Msauli Asbestos Limited's new plant was officially opened August 28, 1969, by the South African Minister of Mines, Dr. the Hon. Carel de Wet. Said to be the most sophisticated of its kind in the world, the mill cost R4,228,845 to construct and has capacity for milling 60 tons of ore per hour. Most of its processes are fully automated, including fiber blending and pressure packaging.

Ore is produced from open-cast quarries with modern earthmoving equipment. The planned average overburden-to-ore ratio is 6:1. The high-pressure rotary drill has a compressor capable of supplying air at a pressure of 250 pounds/square inch.

A unique feature of the tower-type drier is the provision for adapting the direction, volume and temperature of the airflow to cope with variations in moisture content. Air at temperatures up to 1500°F reduces the moisture content of the fine ore to 1%.

An exceptional feature of the new facility is its modern dust extraction equipment. On the hermetically-sealed upper level a series of cylindrical bags provides a total filtration area of 146,960 square feet. Four 300-horespower fans create a vacuum that draws air through the bags to remove dust. A volume of 356,000 cubic feet of air per minute is circulated through the 2.68 miles of steel launders and air ducts to convey fiber and extract dust. The air discharged from the plant is cleaner than ordinary city air and is recirculated to maintain constant humidity and temperature.

Msauli Asbestos is the largest Chrysotile producer in South Africa. By virtue of its low talc content, the fiber is termed "dry." It has a high tensile strength and a white silky appearance and is used mainly in the manufacture of asbestos-cement products. Chrysotile fiber attracts an annual R1.5 million in foreign exchange to South Africa and Msauli's increased production is expected to boost this figure to approximately R3.5 million per year.

(The Msauli asbestos mine is situated in a valley in Lowveld, 15 miles south of Barberton, Eastern Transvaal, Republic of South Africa. A brief description of its history, geology and mining techniques can be read in the November 1968 issue of ASBESTOS.)

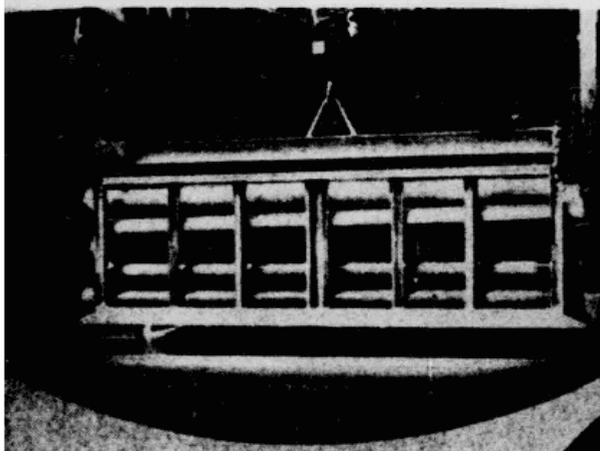
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AUTOMATIC PLANTS TO MAKE SOCKETED PIPES

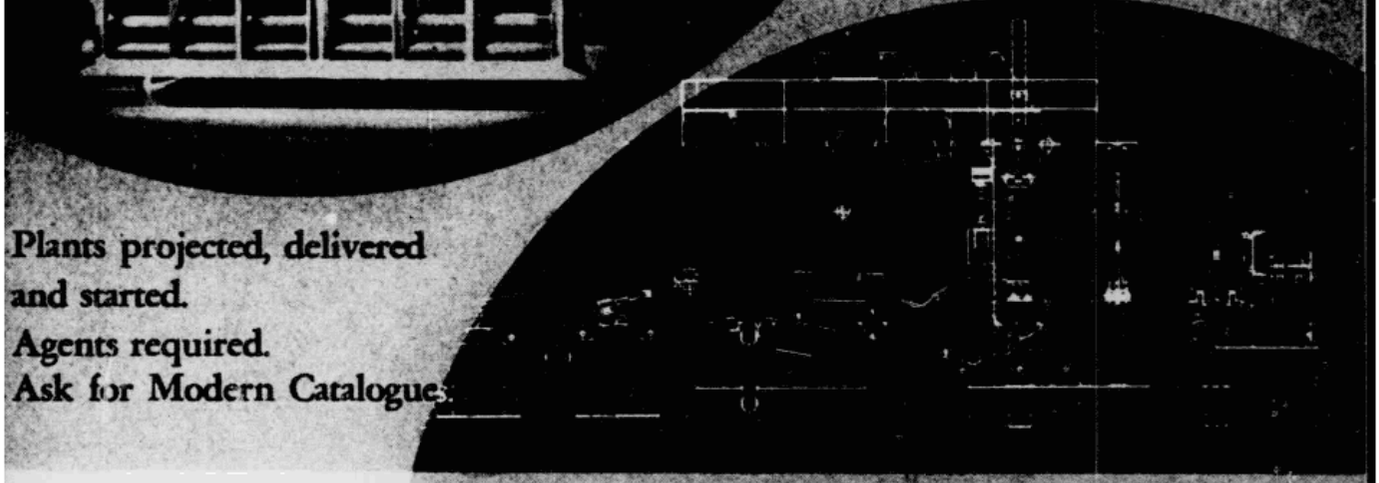


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ARMSTRONG CORK COMPANY plans a major expansion of its Braintree, Massachusetts, production facilities for Armaflex insulation materials. The program is expected to be completed in about a year and will approximately double the plant's capacity for Armaflex pipe covering and sheet-type insulation. The equipment to be installed in the new section of the plant was developed and designed by Armstrong Cork and is the most modern available, with fully automatic speed and temperature controls. In addition to Armaflex insulation, the plant also produces a variety of textile mill supplies, gasket materials and other industrial products.

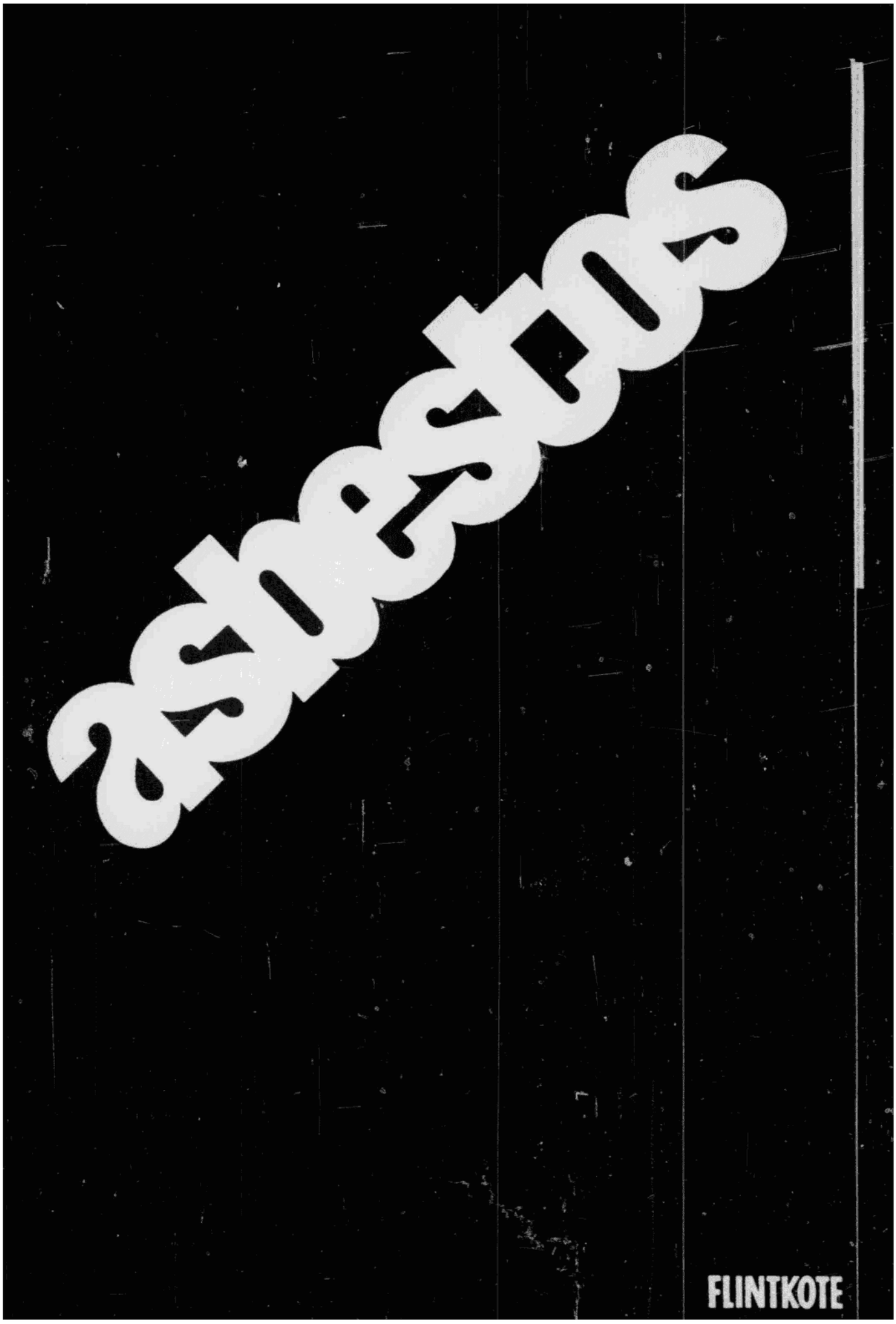
BUFFALO WIRE WORKS COMPANY, INC., a leading manufacturer of industrial wire cloth, celebrates its 100th Anniversary this year. The firm was founded in 1869 when Martin Scheeler, Sr., purchased a small Buffalo sieve manufacturing business.

One of the reasons for the company's continuing success is its machinery, most of which was engineered and built by the Scheeler family. One of the machines, built around 1900, was for many years the largest wire-weaving loom in the world. This leviathan loom was so well designed and built that it is still turning out high quality wire cloth.

The company has launched a campaign of advertising in leading business magazines, featuring its present product line in the center, surrounded by reproductions of 70- and 80-year-old advertisements. The theme of the campaign is "Remember when things were made to last? Ours still do!"

Buffalo Wire Works' general offices and plant are located in Buffalo, New York, and it operates a branch office and distribution center in Wynnewood, Pennsylvania, a suburb of Philadelphia. The company serves the wire cloth products industry, with special emphasis on filtering and the use of heavy screening for aggregate separation and grading in pits and quarries.

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FLINTKOTE

NIMA Committee Effort

The basic philosophy of the National Insulation Manufacturers Association regarding specifications is that they should reflect the current products and practices of the insulation industry and that specifications established by different organizations should be consistent in content. NIMA conducts its specification efforts through the Technical and Research Committee, one of its most active groups.

The Committee reviews a presentation drafted by a specifying group for its acceptability to the industry and the accuracy with which it reflects current products and practices. When a specification is felt to be adequate and accurate. NIMA suggests that similar specifications issued by other specifying agencies use it as a reference. When a specification is considered inadequate, the Association suggests improvements. Often the T & R Committee will draft a specification and submit it to an outside specifying body as a suggested proposal for a new specification. Federal Specification MIL-I-545 on duct liners is one such case. It was adapted by the Government from a text drafted by the Mineral Fiber Section of the T & R Committee.

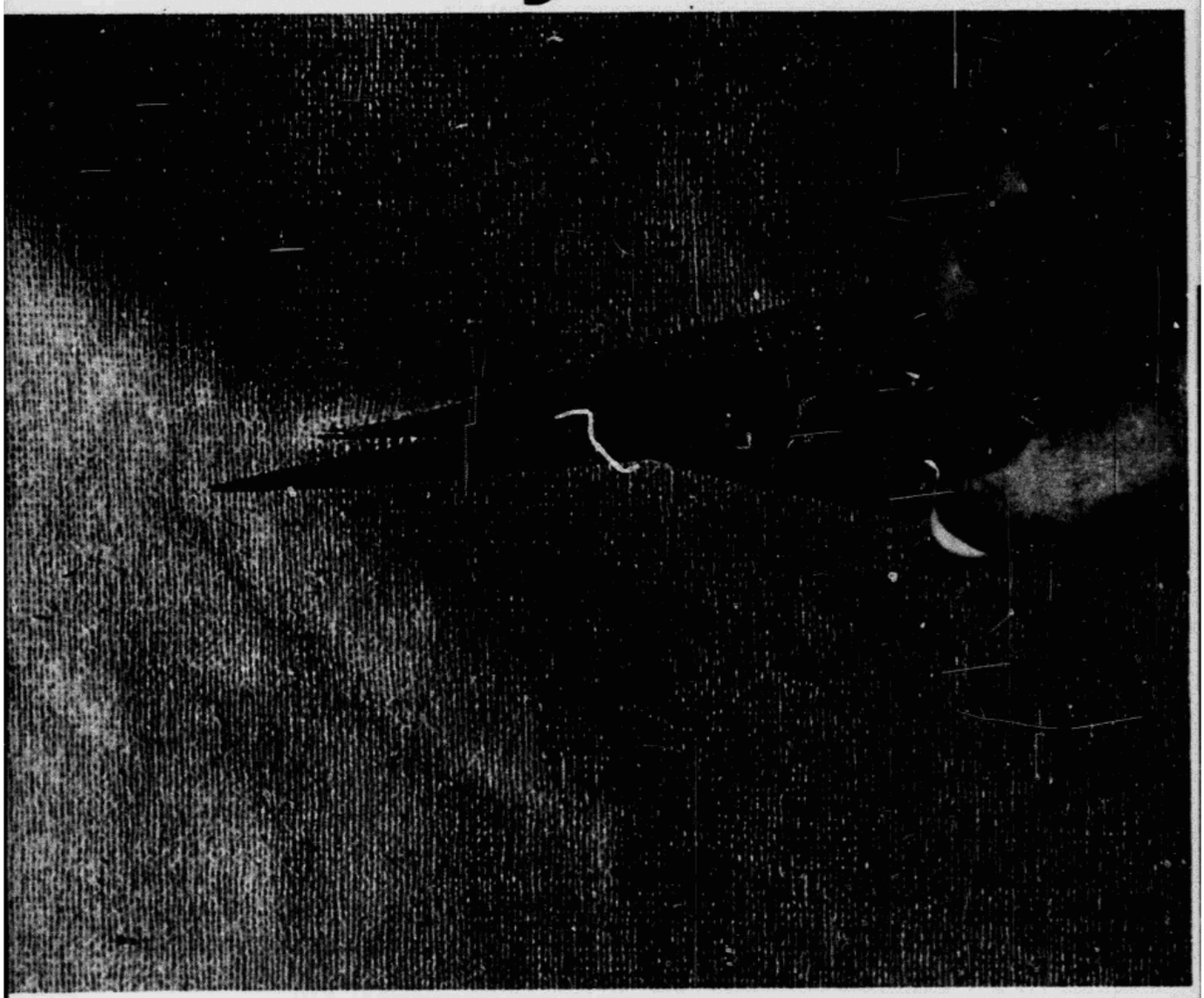
These efforts by NIMA are of great value to buyers and suppliers of insulating materials in that, eventually, they should eliminate the "gray" areas which result from lack of consistency among various specifications for what is basically the same product.

NATIONAL REMODELERS ASSOCIATION is the new name of the former *NERSICA, Inc.* It was founded in 1933 as the "National Established Roofing Siding Insulation Contractors Association" and has grown from a small regional association to 37 local affiliated Councils. The organization has defended the interests of the Remodeling Contractor wherever adverse legislation has threatened the best interests of both the contractor and the home owner. NRA produces the annual Remodeling Exposition and is one of the four associations that sponsor the yearly Home Improvement Time Program.

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As yarn or fabric, Asbeston comes in the widest variety of weights and sizes for every application. For details, write Uniroyal Fiber and Textile, 350 Columbia Road, Winnsboro, South Carolina 29180.

ASTM LIST OF PUBLICATIONS, issued September 1969, is now available from the *American Society for Testing and Materials*. This book is annually revised and the current issue contains 34 pages listing more than 550 ASTM publications dealing with the knowledge of materials, materials evaluation and the standardization of methods of test and specification for materials.

ASTM EXPOSITION—Exhibit space is now available in the *1970 North American Materials Exposition* to take place at the Royal York Hotel, Toronto, Canada, June 22-25, 1970. The theme of the Exposition is "New Materials for Manufacturing and Construction—Testing and Evaluation." Sponsored by ASTM, the Exposition will be held in conjunction with the Society's 73rd Annual Meeting which is expected to be attended by more than 5000 leaders in engineering, materials science and materials testing. Space will be assigned on the basis of priority of receipt, space requirements and the character of the display.

Additional information may be obtained from John B. Bidwell, ASTM Headquarters, 1916 Race Street, Philadelphia, Pennsylvania 19103.

ASTM OFFICERS & DIRECTORS—The new national officers of the American Society for Testing and Materials for the 1969-70 year have been elected. *L. Stanley Crane*, Vice President, Engineering and Research, Southern Railway System, was elected President of ASTM to serve for a one-year term. *Erle I. Shobert II*, Vice President and Manager of Research, Stackpole Carbon Company, is the new Vice President of ASTM. *Raymond B. Smith*, Director of Engineering Standards, Reynolds Metals Company, will continue to serve as Vice President.

New members of the Society's Board of Directors elected for three-year terms are: *William E. Chalfant*, Atlantic Richfield Company; *Frank E. Clarke*, Geological Survey, U.S. Department of the Interior; *Lester L. Louden*, Department of Water and Power, Los Angeles; *William A. Oliver*, Department of Civil Engineering, University of Illinois; *Morris Tanenbaum*, Western Electric Company, Inc.; and

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ASBESTOS BULLETIN listed the following papers in its July-August 1969 issue which may be of interest: No. 278—Mineralogy of Some Asbestos from North-West Pakistan, No. 279—Argentine Asbestos (Anthophyllite), No. 280—Mechanism of the Formation of Kumolin Rhodusite Asbestos in Central Kazakhstan, U.S.S.R., No. 281—Hydrothermal Veins in Ultrabasic and Basic Pechenga Rocks, U.S.S.R., No. 283—Tremolite Asbestos in the Letovice Serpentinites, Czechoslovakia, No. 284—Whisker-Like Fibers from Chrysotile Asbestos, No. 294—Colloidal Suspensions of Chrysotile Asbestos: Surface Change Enhancement, No. 297—Utilization of Asbestos Cement Wastes (translation from Russian), No. 299—Ways of Improving the Quality and Widening the Range of Asbestos Cement Products (translation from Russian).

(Applications for copies or translations should be made directly to the "Asbestos Bulletin," Astex Publishing Company, 22-23 North Street, Guildford, Surrey, England.)

A NEW CANADIAN TRADE OFFICE has been opened in San Juan, Puerto Rico, thus marking the 75th such overseas post of the Trade Commissioner Service of the *Department of Industry, Trade and Commerce*, Ottawa. Trade with Puerto Rico has grown so rapidly in the past few years that it is now one of Canada's largest markets in the Caribbean.

The Department has also reopened two offices, one in the Middle East and the other in Asia. Prior to the reestablishment of the commercial office in Ankara, Turkey, on July 1, the Trade Commissioner attached to the office in Athens, Greece, had made regular visits to Turkey. Mr. David J. S. Winfield was named Commercial Secretary of the Ankara office. Early in August, the Commercial Division of the Canadian Embassy at Djakarta, Indonesia, was reopened, reflecting Canada's renewed interest in the Pacific Rim and confidence in Indonesia's growing political and economic stability. Mr. Walter Boychuk has taken on the duties of Commercial Secretary in Djakarta.

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Philip A. Meyer — Retired

Philip A. Meyer has retired from Nicolet Industries, Inc. as Corporate Vice President but will continue to serve the company as a Consultant.

Mr. Meyer, a Princeton graduate, joined Nicolet in 1930 shortly after receiving his MBA degree from Harvard Business School. He later served as Corporate Treasurer and, at various times, was a Corporate Vice President and Chief Executive Officer of certain of Nicolet's subsidiaries, and directed the activities of the Hamilton, Ohio, asbestos paper mill and the Nicolet asbestos mine in Quebec, Canada.

At the time of his retirement, Mr. Meyer was a Director of the Quebec Asbestos Mining Association.

Mr. Meyer is very well known and respected by those in the Asbestos Industry and we wish him good health, happiness and success in his future endeavors.

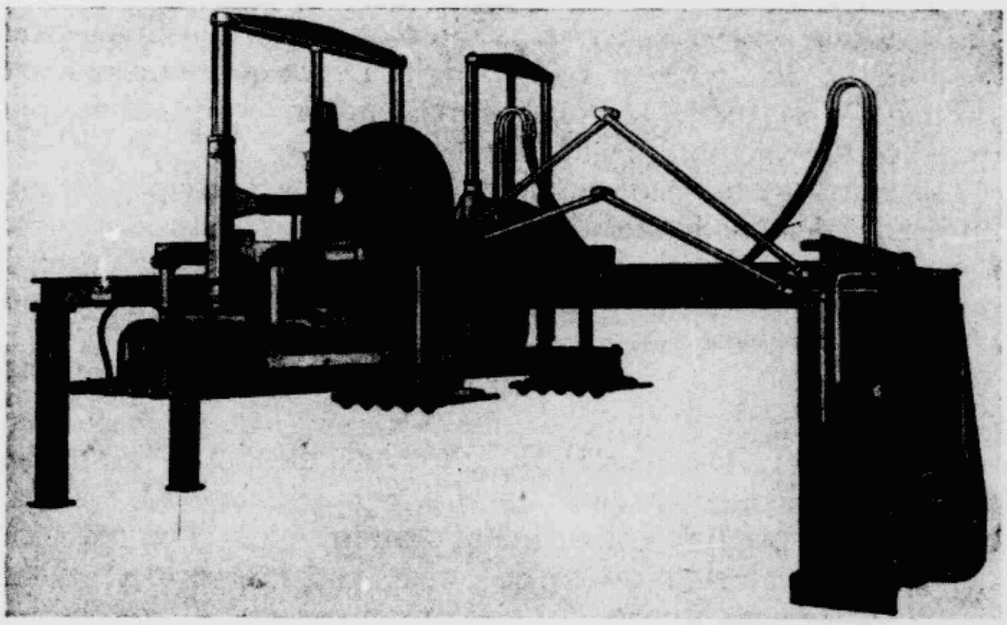
NICOLET GASKETING MATERIALS is a very informative 16-page brochure recently issued by *Nicolet Industries, Inc.* It covers just one phase of Nicolet's product line — compressed asbestos sheet packing and beater addition asbestos gasketing materials. Amply illustrated, the booklet contains data on gasket engineering fundamentals, specification data, comparison charts, performance characteristics, typical applications and a list of sales and service locations.

Nicolet Industries also manufactures commercial and specialty millboards, asbestos-cement boards and numerous other asbestos "protection" products. The company's prime concern is to anticipate, develop and market newer, more dependable and efficient products to help keep pace with today's increasingly complex gasket requirements. Via its international division, Nicolet extends its product and service capabilities to customers throughout the world.

H. K. PORTER COMPANY, INC. has declared the regular quarterly dividend of $1.375 per share on the 5½% cumulative sinking fund preference stock. The dividend is payable October 31 to stockholders of record October 10

50 years of experience in the field of

MACHINERY and PLANTS for ASBESTOS CEMENT PIPES and SHEETS



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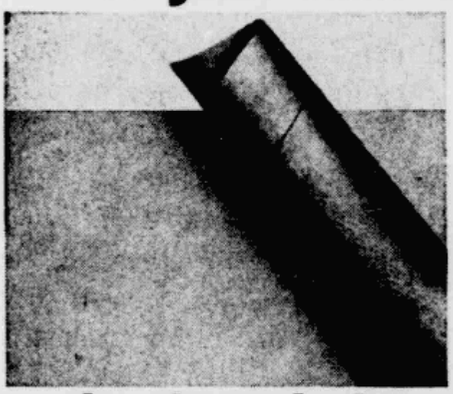
RADI-VAC 200, a new heavy-duty portable vacuum cleaner, is available from *Radiation Industries, Inc.*, Lodi, New Jersey. Featuring a unique 3-stage collection system, the unit develops a maximum vacuum equal to 10″ of mercury and moves more than 200 cfm in 25 feet of 2″ hose. The high vacuum quickly picks up large amounts of debris, dirt and litter from any surface. It has a storage capacity of more than 8 cubic feet and is the first industrial vacuum cleaner which can be emptied by disposing of a set of small, manageable plastic sacks placed inside the dust cans. Material is segregated by size for easier disposal. Because of its high suction, the unit will clean effectively with 200 feet of hose to cover areas where it is impossible to take the entire machine. The cleaner is lightweight (960 pounds), moves on four large rubber-tired wheels (2 fixed 14″ wheels and 2 swivel 8″ wheels) and has a very low center of gravity. It measures 69″ long x 36″ wide x 69½″ high. Drive mechanisms are eliminated as the 7½ horsepower motor is directly connected to the vacuum producer.

According to Radiation Industries, the system was engineered, designed and tested primarily for use in the Asbestos Industry and the unit is presently undergoing evaluation and testing by a Canadian asbestos processor.

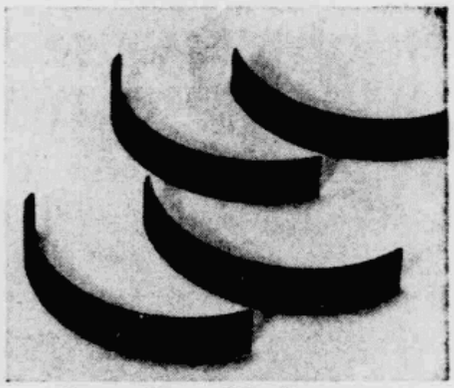
D H J INDUSTRIES INC. has developed an *automatic cutting machine* which will cut textiles, as well as foam, wood, plastics, glass, metal and marble. The machine will handle materials up to 50″ wide and is operated by an optical scanning system or numerical punched tape which guides the machine around the contours to be cut. Machines can also be built to accommodate greater widths. The special cutting blade used in the machine is designed to cut intricate shapes of material several inches high and because the speed of the blade can be varied, proper control can be achieved to cut different types of materials and shapes. Materials up to 6″ in height, in a single layup, can be handled depending upon the density of the material. According to a spokesman for the company, the cutting machine has been tested on asbestos textiles and the results have been very satisfactory so far as the cutting aspect is concerned.

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

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

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Improvements Ltd.
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FRANCE
Dieppedalle &
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W. GERMANY
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GREECE
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INDIA
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Calcutta

ITALY
Amianto Del Lago
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LAKE ASBESTOS

Asbestos Magazine, 1969, November 1969
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MARKET CONDITIONS

General Business.

While there have been no pronounced drops in any of the key indicators of economic activity, both Government and private economists are of the opinion that fiscal and monetary restraints are beginning to exert a definite slowing down effect on the growth rate of the economy and its accompanying inflationary trends. There has been a slight rise in unemployment and the index of industrial production has fallen slightly in two succeeding months. The home building industry has been the area most directly affected by tight money and the most optimistic forecasters see no improvement in the present low level of housing starts until sometime next year, barring an unexpected drop in interest rates.

On the international scene, upward revaluation of the West German mark has been effected and financial circles must now wait to see what will happen to other currencies as a result. The immediate effect will, of course, be a rise in price of German exports.

The Paris peace talks remain non-productive although there is much speculation regarding back-door efforts to resolve the Vietnamese situation. There are some signs of a lull in battlefield activity in Vietnam which may portend a more substantial de-escalation in the future.

The Middle-East remains a tinderbox. Parts of Lebanon were in turmoil as Lebanese troops clashed with bands of Arab guerillas in an attempt to halt Arab raids into Israel from Lebanese territory which, it is feared may lead to Israeli reprisals against Lebanon. Israeli air raids on targets in Jordan continued.

The U. S. and Russia have agreed to begin talks on limiting the nuclear arms race. Preliminary discussions are scheduled to start in Helsinki, Finland, on November 17.

GAF CORPORATION declared a dividend of 10¢ per share of common stock and a dividend of 30¢ per share on its $1.20 Convertible Preferred Stock. Both dividends are payable on November 20 to stockholders of record

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You may get a rubber stamp with your next Bauer Hurricane Pulverizer-Classifier

This is a customer's idea. Ordering his third Hurricane was practically a rubber stamp routine, he said, because of the excellent record established by his first two units. As most of the more than 100 Hurricanes now in use represent repeat orders, other customers apparently agree with his logic. Nearly 70 of these air attrition mills are processing nonmetallic minerals. One major asbestos producer now uses 21 units! Applications include opening shorter grades of fibre to controlled levels, processing groups 5, 6, 7, as well as floats and tailings, and extracting impurities from usable fibres. If you haven't ordered your first Hurricane yet, may we send you one . . . complete with rubber stamp for reordering? **The Bauer Bros. Co.**, Springfield, Ohio 45501, and Ontario, Canada.

BAUER A subsidiary of Combustion Engineering, Inc.



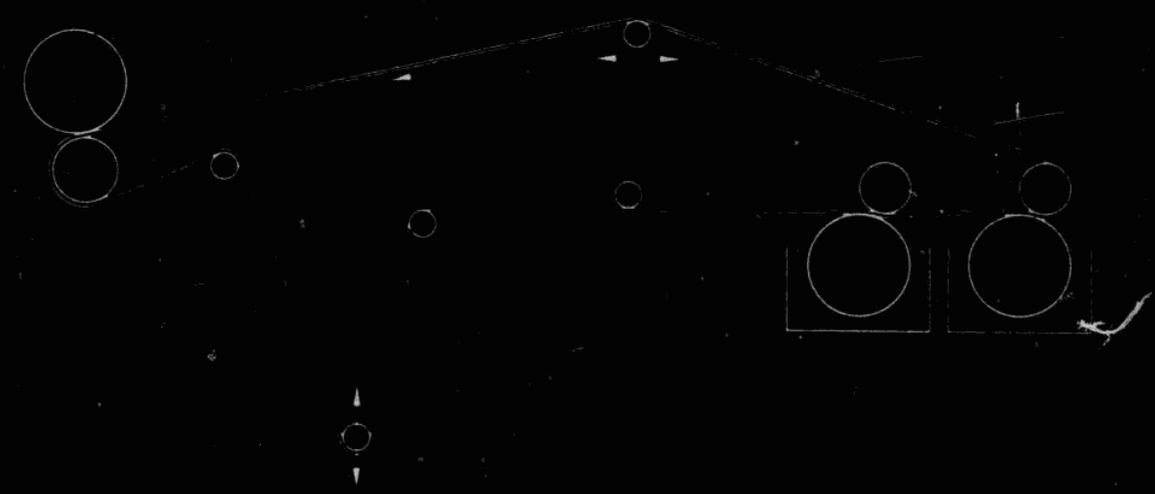
J-M SPILLGUARD—The oil leak off the Santa Barbara coast of California that occurred early this year increased the pace of efforts to discover a solution to the problem of oil pollution. Several oil-containing devices were tried at the scene. One of the alternatives which was in the spotlight was Spillguard, a marine fence recently developed and previously tested by Johns-Manville Corporation. Spillguard consists of nine 11-foot lengths of specially-formulated asbestos-rubber sheet with a foamed flotation material cemented along both sides so the sheet rides upright. The 11-foot sections are assembled together with a reinforced rubber hinge. One-hundred-foot lengths can be easily and quickly combined to form a boom of any desired total length.

J-M put Spillguard to the test in a special experiment conducted recently in the Chesapeake Bay. The demonstration showed that 300 feet of No. 1224 Spillguard can be deployed by four men in less than 10 minutes and recovery can be completed in less than 15 minutes. Among the possible applications of Spillguard are: elimination of floating pollution from industrial channels serving power plants or industrial installations, isolating sites of off-shore operations, protecting recreation areas and beaches on waterfront locations, surrounding off-shore drilling rigs, and protecting locations where floating oil or debris could endanger wild life or recreational areas. (From "J-M Action," Spring 1969.)

QUINTEXBORD TX-6 is a new board form of high-temperature electrical insulation developed by *Johns-Manville Corporation*. It is extremely rugged and offers high tear strength, stiffness, moisture resistance and thermal stability. It also has excellent resistance to cracking when bent. The new material was developed for use in spacers, transformer end packing, winding cores, barrier insulation, separator discs and washers, and in apparatus as a companion product to J-M Quintex flexible insulation. Quintexbord TX-6 is composed of over 86% specially selected and processed asbestos fibers. Its improved physical qualities are due to careful and uniform dispersion of a small amount of high temperature synthetic textile fiber and heat stable elastomeric binder. Its high inorganic content assures permanent dielectric separation.

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From their start-up on your sheet or pipe machine to their removal, Albany Durasorb 100% synthetic/needled felts produce a better product at the lowest cost per ton. Because they are synthetic they are stronger, do not deteriorate under highly alkaline conditions and resist abrasion. Because they are needled you are assured of superior drainage, smoother finish and long life. Because they are made by Albany, the quality is assured.

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Building

From: McGraw-Hill Information Systems Company

SEPTEMBER 1969—The Dodge Index of contracts for new construction resumed its downward course in September. Construction contracts were valued at $5,139,627,000 and brought the seasonally-adjusted index to 173, its low for the year. Compared with September 1968, total contract value was down 1%.

Nonresidential—Continued good growth in office construction helped push the nonresidential contract value to $2,012,679,000, an 11% increase over last September. Hospital and recreational construction also recorded solid gains, but contracting for manufacturing plants showed a decline.

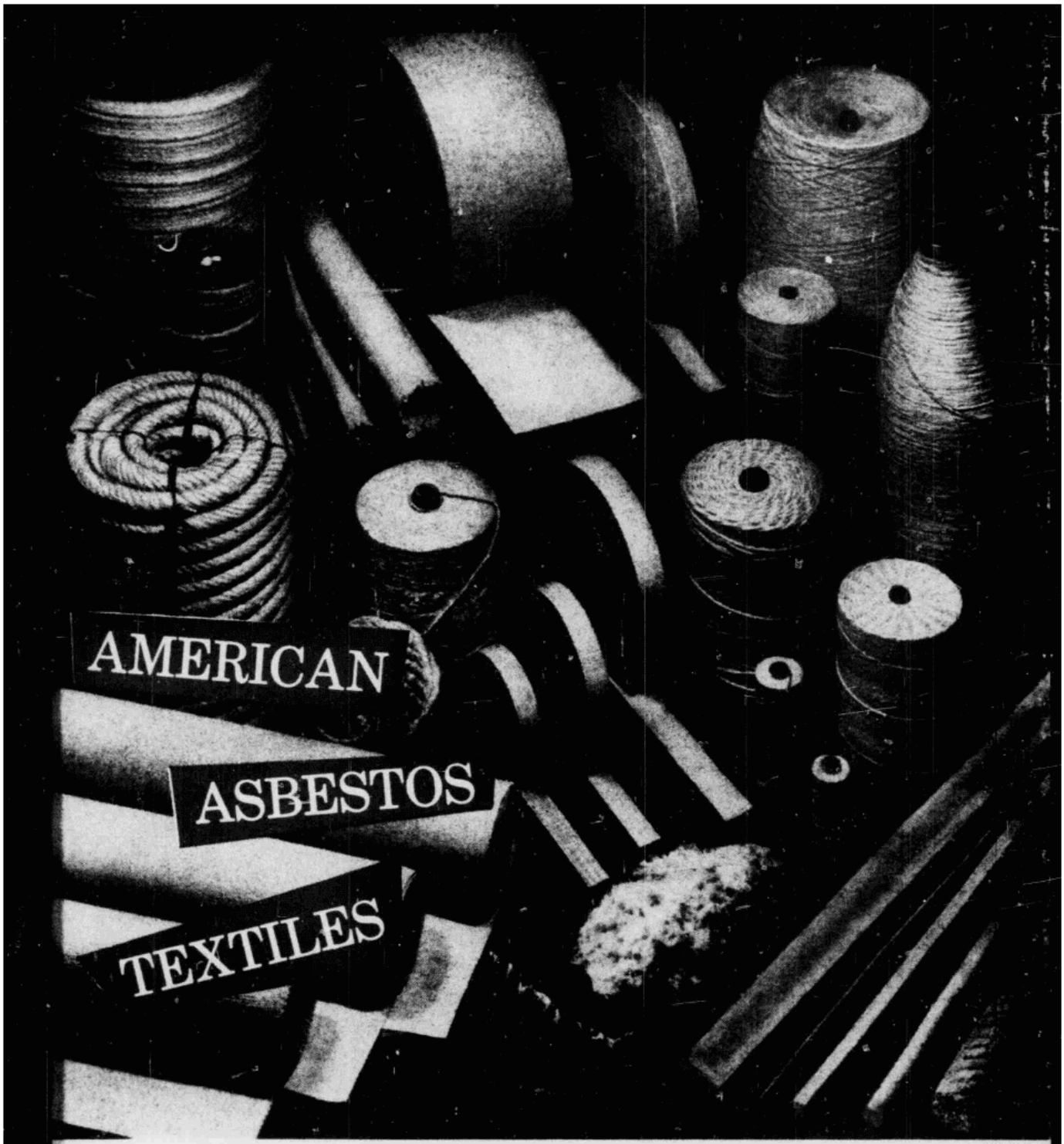
Residential—Contracts for new residential structures fell 8% below the year-ago total to $1,952,369,000. In a reversal of the pattern set earlier in 1969, contracting for apartments declined more in September than did the value of one- and two-family housing.

Nonbuilding—September contracts for nonbuilding construction totaled $1,174,579,000, a 5% decline from a year ago. Continued increases in roadbuilding and construction of sewer and water facilities were more than offset by sharp declines in utilities and miscellaneous nonbuilding construction.

FIRST NINE MONTHS OF 1969—Nonresidential, $19,608,713,000, up 19%; Residential, $19,686,661,000, up 5%; Nonbuilding, $12,673,755,000, up 12%—Total Construction, $51,969,129,000, up 12% over the $46,420,832,000 reported for the first nine months of 196[illegible]

F. W. DODGE CONSTRUCTION OUTLOOK FOR 1970—After some early months of weakness, a late spring recovery and a second-half expansion will carry the total value of construction contracts in 1970 to $66.6 billion. The first three months of 1970 will be the weakest quarter for the year, with improvement showing in each successive quarter. With the easing of credit, which is expected to occur by spring, housing will be the first segment to advance. A new phase of expansion in nonresidential construction will begin [illegible]

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AMERICAN ASBESTOS TEXTILE CORPORATION

PLANTS AT NORRISTOWN, PA. MILFORD SQUARE, PA. MEREDITH, N.H. TOLUCA, MEXICO

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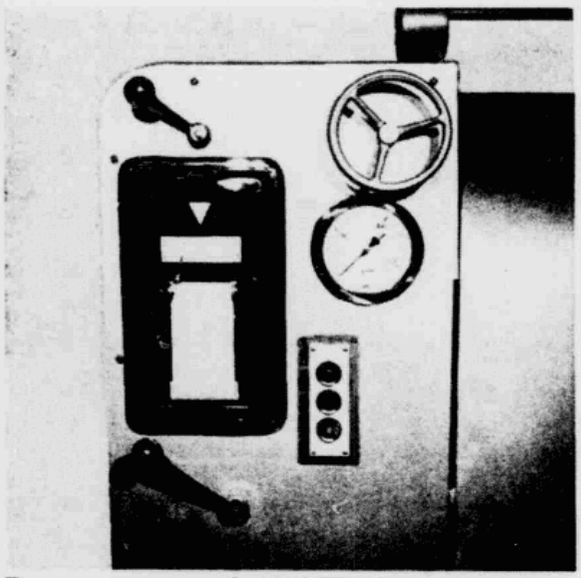
HUNTINGDON INDUSTRIES, INC. is offering new optional equipment on its semi-automatic palletizer for shipping products in bags. The major new feature of the equipment is an air deck where the bags are floated on a film of air while the operator forms a row into the desired pattern and then moves the row forward by pusher bar. The air film is maintained by blowers beneath the air deck. When a layer of bags has been formed, the operator activates a rake bar by pushbutton. The bar rises behind the layer and sweeps it onto a stripper plate which retracts and gently deposits the layer on the pallet. Palletizing of bags with this equipment makes for a reduction in spillage, more uniform loads and a saving in warehouse space by the higher stacking of more compact pallets. Production speed is rated at 20 bags per minute. The equipment is 17 feet long; seven feet, five inches wide; and nine feet high.

VISI-CON has announced an economical system for centralized monitoring of grinders, crushers, conveyors, kilns, motor-drive systems, and other production and process equipment. The system can also be used to monitor other building parameters such as heating, steam production, air conditioning, water supply, etc. *Visi-Con annunciator monitors* are completely pre-engineered, with all logic, lights and components supplied in a package which can be installed by plant personnel. Standard units are supplied in sizes with from 12 to 48 monitored points, in increments of 6 points, so the system can be expanded in modules as needed. By giving clear, early warning of conditions needing attention, the units help prevent serious, costly damage and breakdowns of expensive equipment, and minimize downtime.

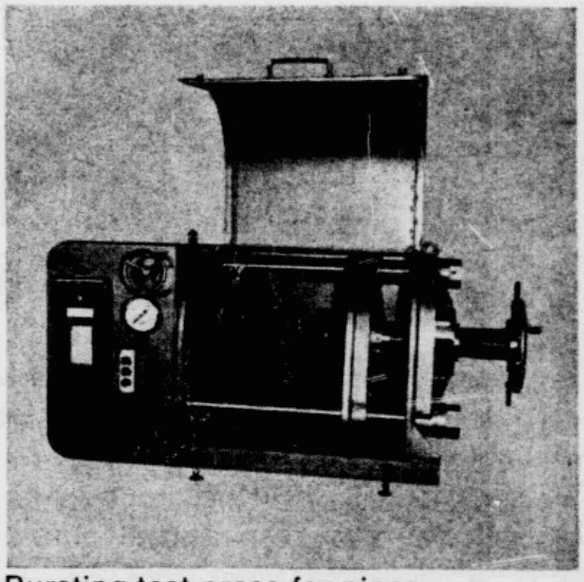
NATIONAL GYPSUM COMPANY declared a regular quarterly dividend on its common stock of 26¼¢ per share payable January 2 to holders of record December 10. The company also declared a regular quarterly dividend of $1.12½ per share on its preferred stock payable December 1 to holders of record November 7.

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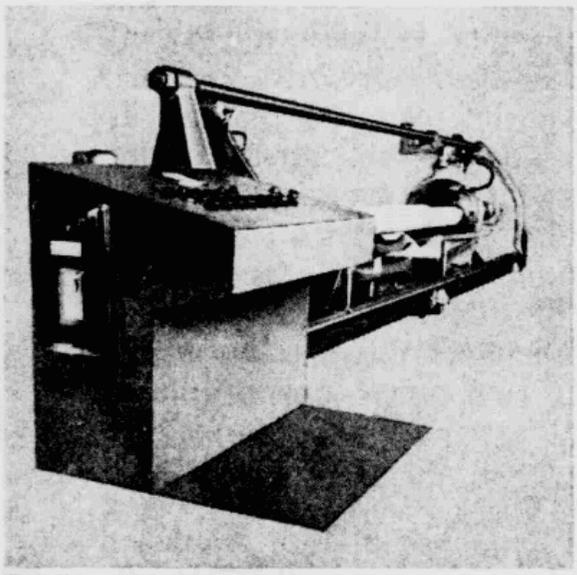
Choose performance and efficiency



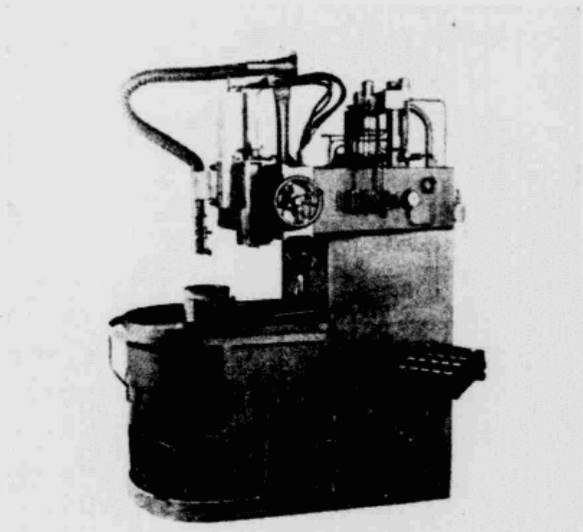
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Bursting test press for pipes



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Automobile Sales

AUGUST 1969 motor vehicle factory sales from plants in the *United States* totaled 473,734 (passenger cars—346,389, trucks and buses—127,345). The total for August 1968 was 292,125.

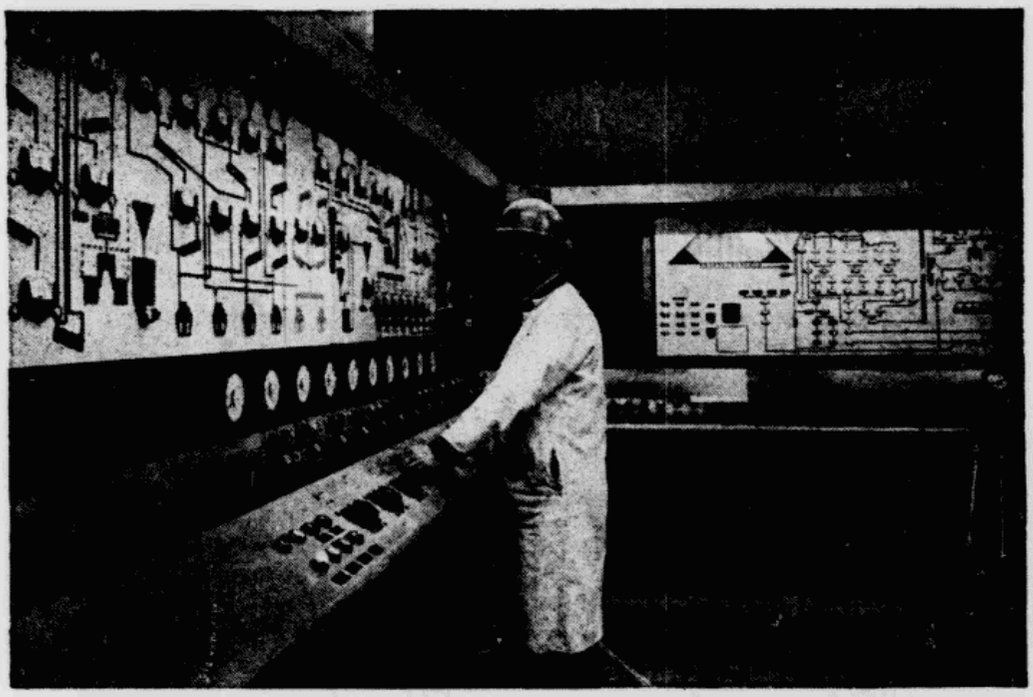
Motor vehicle factory sales from plants in *Canada* totaled 61,739 in August 1969 compared with 31,768 in August 1968.

THE MINING ASSOCIATION OF CANADA, Toronto, has published a booklet entitled *"Taxes: The Mining Industry and Economic Growth"* to acquaint Canadians with how government policies influence the mining industry in Canada. The development and growth of this industry in a stable government and public climate which recognizes its unique problems has been of immeasurable value to the entire Canadian economy and society. Confidence that the ground rules will not be changed has been a vital factor in the growth of the mining industry to its present size, a growth which has been at least at twice the rate of the overall Canadian industrial sector. Because of these realistic government policies, which have been in force over the past fifty years, Canadian companies have been able to build up resources and compete on a worldwide basis. This pamphlet will help the reader understand the unique position of mining in the Canadian economy and what is at stake whenever changes in related tax policies are contemplated.

THE CANADIAN GOVERNMENT SPECIFICATIONS BOARD, Ottawa, Canada, has revised the following Standards as of May 30, 1969: No. 34-GP-14a, Standard for Asbestos-Cement Decorative Sheets; and No. 34-GP-19a, Standard for Asbestos-Cement Panels for Acoustical Purposes. The revised Standards are available, at 15¢ each, direct from the Board.

Two Specifications were cancelled by the Board since they describe materials no longer procured by the Canadian Government. Dated July 14, 1950, and cancelled May 30, 1969, the Specifications concerned are "34-GP-12, Asbestos-Cement Sheets for Electrical Purposes" and "34-GP-13, Asbestos-Cement Dielectric Sheets."

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Gold Bond processes asbestos for the darndest things. Products like armored cars, artificial snow, cartridges, filing cases, frying pan handles, spark plugs and yarn.

Naturally we want to control the quality and uniformity of the many grades of asbestos we produce. So to meet exact customer requirements, we use sophisticated equipment as seen in this Thetford Control Center.

It controls five floors of automated milling equipment. Closed circuit TV helps monitor the complex maze of milling circuits throughout the huge facility.

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

Gold Bond
ASBESTOS FIBRES

Asbestos Magazine, 1969, November 1969
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U.S./SOVIET EXCHANGE VISITS—A group of Soviet building construction experts visited building research, planning, design, construction and product-factory sites throughout the United States. The itinerary took the team to California, Wisconsin, Illinois, Indiana, Texas, Pennsylvania and Washington, D. C., and included a tour of the Gaithersburg laboratories of the National Bureau of Standards.

Another exchange between the two Governments is on "Industrialization of the Building Process." It began this past August with an 8-delegate team from the United States which visited Moscow, Leningrad, Kiev and Tashkent.

U. S. NATIONAL BUREAU OF STANDARDS recently established six new outdoor weathering sites in areas of diverse weather conditions. The sites, as well as various artificial weathering devices, will be used for a number of *outdoor performance studies* on roofing materials, metals, paints, plastics, porcelain enamels, etc.

THE MODERNIZED METRIC SYSTEM is an illustrated, full-color wall chart which presents the six base units of the present form of the Metric System, some derived units defined directly in terms of the base units, and the relation between International System (SI) units and the United States customary units—foot, pound, quart, etc. The chart takes into account the adoption of the "atomic second" as the SI unit of time and changes in definitions or terminology for the units of temperature and luminous intensity. It contains pictorial or schematic drawings illustrating the definitions or essential parts of the standards that embody the six basic units, and also includes definitions of the SI units of area, volume, frequency, speed, acceleration, force, work or energy, power, electric voltage, and electric resistance. Prefixes adopted for use with SI units to provide names of decimal multipies and submultiples are also given.

The chart (NBS Special Publication 304) is available, at 50 cents, from the Superintendent of Documents, the Clearinghouse for Federal Scientific and Technical Information, or from local U.S. Department of Commerce Field Offices.

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PRODUCTION - IMPORTS - EXPORTS

Australia—According to the Bureau of Mineral Resources, Geology and Geophysics, Canberra, *production* of Chrysotile asbestos from mines in New South Wales amounted to 176 short tons for the *Fourth Quarter of 1968*. The total production for the *Year 1968*, for New South Wales and Western Australia, reached 895 tons. This compares to 600 tons in 1967.

Exports of all types and grades of asbestos totaled 142 tons, valued at $35,000, for the *Fourth Quarter of 1968*. The total for the *Year 1968* was 804 tons, valued at $186,000, compared to 3,524 tons, valued at $438,000, for the previous year.

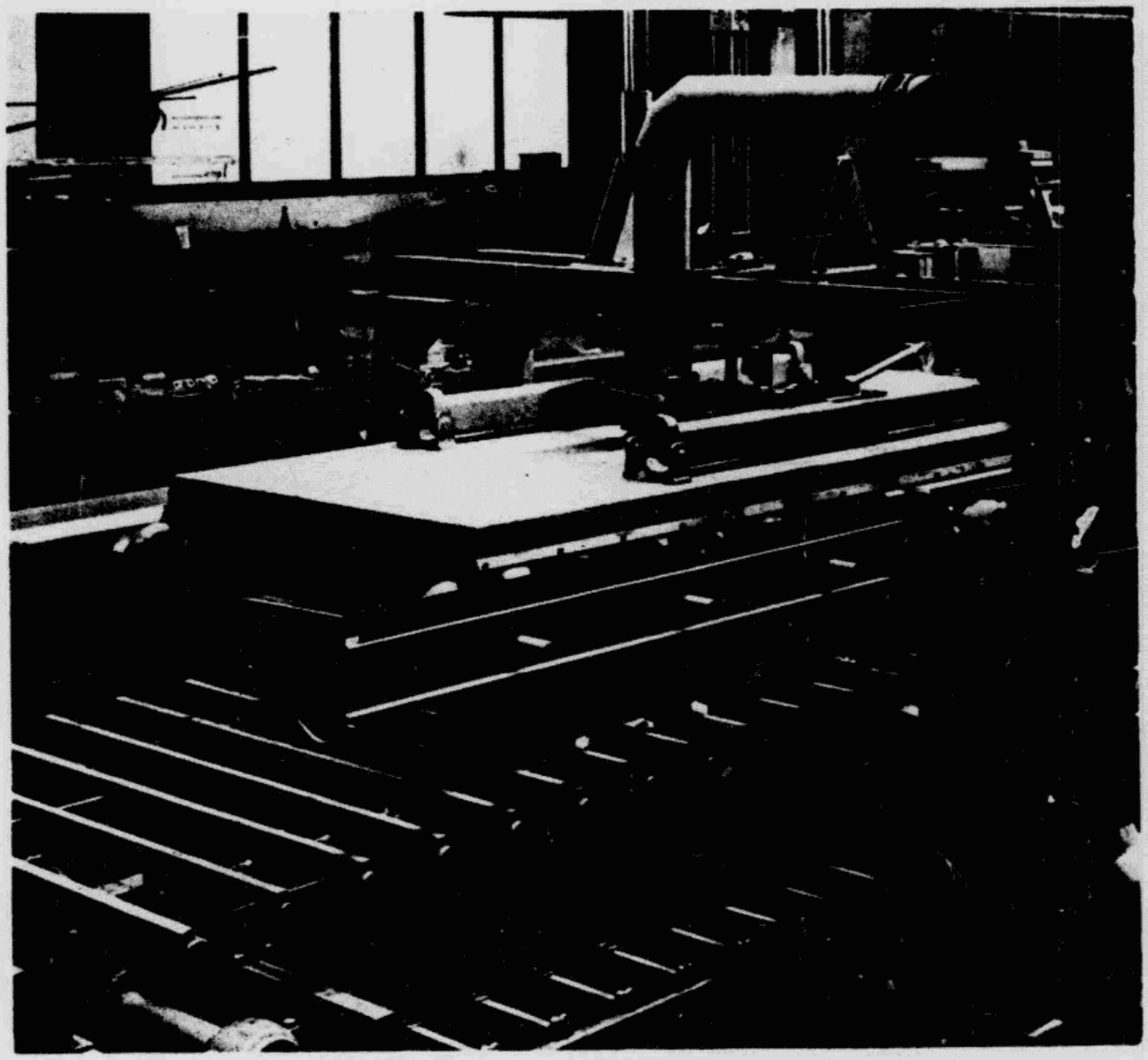
Canada—Producers' shipments of asbestos during *July 1969* totaled 126,370 short tons (110,277 tons from Quebec and 16,093 tons from Newfoundland, Ontario, British Columbia and Yukon plants). The total for July 1968 was 114,394 tons. These figures were supplied by the Dominion Bureau of Statistics, Ottawa.

Swaziland—Asbestos has been mined from the Havelock mine since 1939 by Turner & Newall Limited. Production of Chrysotile in 1968 amounted to 42,900 short tons, valued at R6 million. Late in 1968 it was reported that Lonrho Limited had signed a minimum prospecting contract which could lead to the opening of an asbestos mine adjacent to the Havelock mine. An estimated capital expenditure of some R10-15 million might be involved. (Standard Bank Group's "Annual Economic Review.")

Swaziland—Investigations are being made into the practicability of processing Swaziland's iron ore and asbestos in the country instead of exporting the products in their raw state. The *United Nations* sent consulting engineers to examine the possibility of beneficiation of iron ore at Ngwenya. Research into the possible processing of asbestos is in the hands of a Portuguese firm.



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coarse manners or rough handling.

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Exports From U.S.A.

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

Unmanufactured Asbestos:		JULY 1969	
Crude & Spinning Fibers	s. tons	115	$ 21,464
Non-Spinning Fibers	s. tons	1,972	335,807
Waste & Refuse	s. tons	1,522	184,885
		3,609	$ 542,156
Manufactured Asbestos Goods:			
A-C Shingles & Clapboard	Lb	1,993,024	$ 192,369
Other Asbestos-Cement Articles	Lb	993,615	130,030
Gaskets & Packing	Lb	462,349	637,037
Textiles & Yarns	Lb	232,622	100,348
Mfrs. other than Friction Materials		..	550,250
Clutch Facings & Linings for auto. use	No	247,037	272,239
Clutch Facings & Linings, Other	No	16,761	15,441
Brake Linings for automotive use	Lb	393,172	320,964
Brake Linings, Other	Lb	284,893	207,156
			$ 2,425,834

Exports From Canada

(Published by Dominion Bureau of Statistics) **JULY 1969**

Short Tons

Unmanufactured Asbestos:	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
Eastern Europe	..	160	4,371	148
Western Europe	6	1,025	27,416	13,291
Middle East	..	..	2,350	200
Africa	..	..	775	450
Asia	8	317	7,401	8,227
Oceania	..	..	6,928	1,398
So. & Cen. America & Antilles	..	97	10,480	1,858
United States	5	1,541	15,070	32,866
	19	3,140	74,791	58,438

The total amount of unmanufactured asbestos exported in *July 1969* was 136,388 short tons, valued at $20,288,000.

Manufactured Asbestos Goods:	
Asbestos Brake Linings & Facings	$ 71,000
Asbestos-Cement Building Materials	81,000
Asbestos Basic Products, Other	127,000
	$ 279,000

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Asbestos on the moon.

When we arrived on the moon, asbestos got there, too. For our asbestos fibers fortify J-M Min-K® insulation, specified for the Lunar Excursion Module in the Apollo Project.

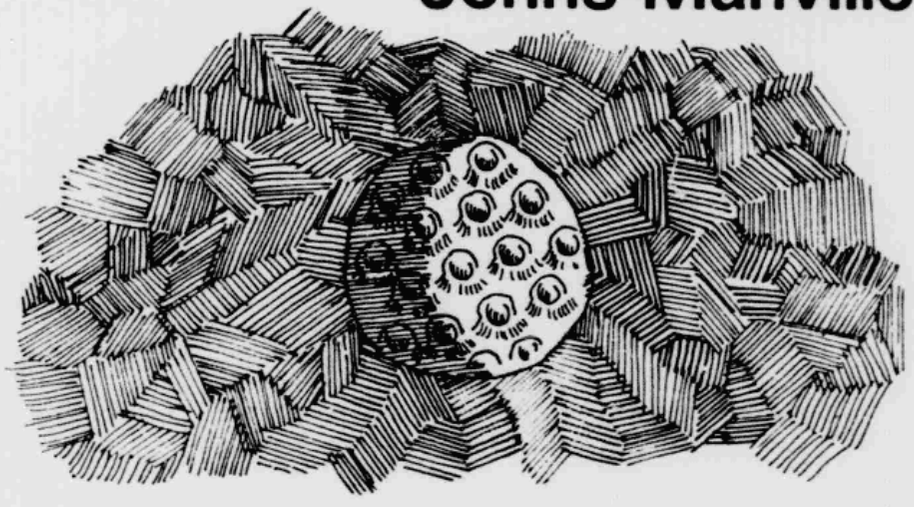
Back on Earth, you can find asbestos just about everywhere you look. In industry, our asbestos fibers add strength and fire-retardant qualities to J-M Transite® pipe, insulation, and clutch and brake linings. To mention just a few.

We have over 100 grades of asbestos. For just about any application imaginable. We'd like to show you what they can do for you.

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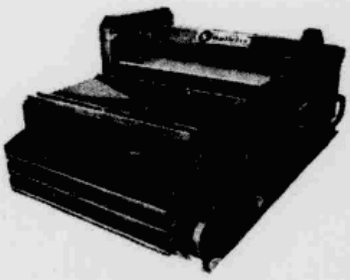
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INDUSTRY NEWS

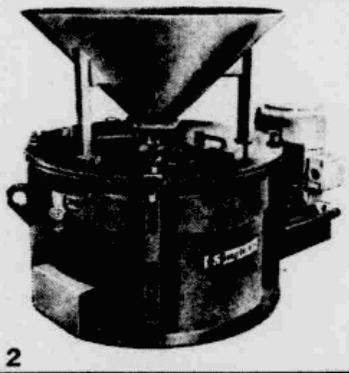
HAPPY BIRTHDAY

E. G. Robinson, Vice President, Minorex Limited, subsidiary of Asbestos Corporation Limited, Toronto, Canada, November 15.
J. J. Mangan, President & Managing Director, Hedman Mines Limited, Timmins, Ontario, Canada, November 16.
E. W. Russell, Operations Manager, Bennettsville Works (South Carolina), Thermoid Division, H. K. Porter Company, Inc., Pittsburgh, Pennsylvania, November 17
Thornton R. Smith, Controller, Johns-Manville Corporation, New York City, November 19.
Stanislaw Stachelski, Chairman, Valley Asbestos (Pty) Limited, Johannesburg, South Africa, November 19.
J. J. Walsh, Vice President-Sales, Canadian Asbestos Company, St. Laurent, Montreal, Canada, November 19.
F. A. H. Gallop, Vice President-Building Materials, Canadian Johns-Manville Company Limited, Port Credit, Ontario, Canada, November 20.
Thomas H. Dermody, Vice President-Finance, GAF Corporation, New York City, November 21.
P. E. Holmes, Vice President & General Manager, Pacific Asbestos Corporation, San Francisco, California, November 20.
J. A. D. Marcotte, Director, Asbestos Corporation Limited, Thetford Mines, Quebec, Canada, November 22.
Louis J. Knippa, Vice President of Manufacturing, Building and Industrial Products Division, Philip Carey Corporation, Cincinnati, Ohio, November 24.
Ernest J. O'Leary, Director & Senior Vice President, GAF Corporation, New York City, November 24.
J. T. Ward, Superintendent of Vancouver Operations, Cassiar Asbestos Corporation Limited, North Vancouver, British Columbia, Canada, November 24.
William H. Parker, General Manager, Cold Storage & Wall Insulation Division, Canadian Asbestos Company, St. Laurent, Montreal, Canada, November 25.
John G. (Jack) Ordway, Jr., President, MacArthur Company, St. Paul, Minnesota, November 29.
Frank G. Ruggles, President, Frank G. Ruggles Company, Inc., Short Hills, New Jersey, December 2.
Edmund F. Gorton, General Manager, Asbestos Corporation of America, Garwood, New Jersey, December 3.
K. Fred Netter, President, Supradur Manufacturing Corporation, Wind Gap, Pennsylvania, December 3.
J. V. Jones, Executive Vice President, Armstrong Cork Company, Lancaster, Pennsylvania, December 4.
George H. Martens, Jr., Vice President for Marketing, Johns-Manville Corporation, New York City, December 5

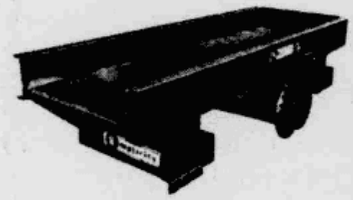
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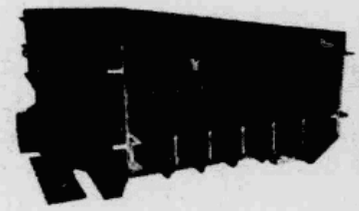
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2



3



4

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John Hasselbach, Vice President-Building Products Sales, Building and Industrial Products Division, Philip Carey Corporation, Cincinnati, Ohio, December 8.

J. C. McKendry, President, Niagara Asbestos Company, Buffalo, New York, December 10.

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

Thesaurus of Textile Terms Covering Fibrous Materials and Processes has been prepared as a part of the textile information program conducted in the Fibers and Polymers Division of the Massachusetts Institute of Technology, under sponsorship of the U. S. Department of Commerce. It provides an indispensable tool in the area of textile information storage and retrieval and is a quick and valuable reference guide to users of textile research and engineering literature. It also provides a source of specialized and accurate terminology for authors, editors, librarians and the like. It contains terms relating to all segments of the textile industrial complex from fiber producer to machinery maker to consumer goods testing laboratories. In particular, the Thesaurus is designed to provide an effective language interface between people and manual storage systems or electronic computers capable of handling immense stores of technical information.

Copies are available at $25.00 each. Orders may be placed through ASBESTOS Magazine.

PREPRINTS—1968 U.S. BUREAU OF MINES MINERALS YEARBOOK

The Mineral Industry of Czechoslovakia—Coking coal and nonmetallics remained the principal minerals produced and expansion and development programs are under way to assure the country's continuance as a significant world steel producer. An overall industrial production growth rate of 5.2% was reported in 1968. Production and export figures were not recorded for asbestos but imports of the mineral during 1967 were 33,060 metric tons (mostly from the U.S.S.R., Canada and Austria).

The Mineral Industry of Hungary—By world standards, bauxite was the only significant mineral produced. The production of mineral fuels and iron and steel were important only for the country's domestic economy. Many plants and facilities of Hungary's mineral industries were of Soviet design or origin. However, a tendency toward purchasing highly-developed processes and equipment from Western countries could be noted. A number of non-metallic minerals had to be imported to meet domestic needs. In 1967, the U.S.S.R. supplied 12,200 metric tons of the 14,114 tons of asbestos imported

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The Ontario Research Foundation is now operating its new pilot plant facility. Located adjacent to the main laboratory building in the Sheridan Park Research Community, the new plant houses the ore dressing, process metallurgy and chemical engineering equipment used in pilot scale studies and tests.

The Ontario Research Foundation is a non-profit, independent, industrial research institute which undertakes work on a confidential contract basis for individual companies.

Scapa Dryers Limited, Blackburn, England, has further strengthened its overseas sales organization with the opening, on October 1, 1969, of a new wholly-owned sales company in Oslo, Norway — *Scapa Norsk A/S.*

Other offices within the overseas sales organization of Scapa Dryers are *Scapa Dryers Sweden AB.* in Bruzaholm and Sundsvaal, Sweden, *Oy Finnish Scapa Dryers AB.* in Helsinki, Finland, and *G. Salicath & Company* in Hellerup, Denmark.

Pacific Asbestos/Marubeni—The Directors of *Pacific Asbestos Limited,* Calgary, Alberta, Canada, have approved a proposal to sell 210,000 short tons of Grades 4 through 7 Chrysotile fiber, over a 5½ year period, to *Marubeni-Iida Company Limited,* Tokyo, Japan. The fiber will be from Pacific's asbestos properties in Woodsreef, near Barraba, N.S.W., Australia, and the estimated gross value of the proposed contract amounts to approximately $25 million, at current Canadian prices.

The proposal was contained in a letter of intent from Marubeni and grants Marubeni exclusive distributorship rights throughout Japan, South Korea, Formosa, Thailand, Malaysia, Hong Kong, Singapore, Cambodia, Laos, Vietnam and other Eastern-South Asian countries.

Compania Nacional de Asbestos is a new company to be formed by the Government of Mexico to mine and process Chrysotile asbestos in the Novillo Arroyo area, 20 kilometers west of Ciudad Victoria, Tamaulipas. With an initial capitalization of $2,800,000, the new company will be 51% owned by the Government and the remainder of the equity will be offered to public and private entities entitled to participate. The mine and mill are expected to commence operating within 15 months.

The area has long been known to contain a potentially productive asbestos property and was examined by geologists during World War II. In recent years it was explored by a Federal Trust and determined to contain economic reserves of 1.2 million tons of ore, sufficient to justify the establishment of a plant to treat 300 tons of ore a day.

At present Mexico does not produce any asbestos fiber and its needs of approximately 30,000 metric tons per year are imported, mostly from Canada.

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PERSONNEL NEWS

ABEX CORPORATION

N. George Belury has been elected First Vice President. He has been with the company since 1937 and most recently was Group Vice President for Cast Metal Products.

ASBESTOS CORPORATION OF AMERICA

Joseph A. Colagreco has been named Vice President and General Manager. He was formerly Sales Manager.

PHILIP CAREY CORPORATION

Louis J. Knippa, Vice President of Manufacturing, announced the appointment of *John W. Hanchey* as the Lockland Plant Manager of Quality Control. Mr. Hanchey started with Carey in 1951 as Quality Control Manager of the Houston Plant.

GAF CORPORATION

Robert Garofalo was appointed Director of Corporate Public Relations, succeeding *Jack F. Gow*, who was recently named General Manager of Corporate Personnel Relations. Prior to joining GAF, Mr. Garofalo served as Manager of Corporate Communications for Heublein, Inc.

JOHNS-MANVILLE CORPORATION

In the Commercial Insulation Product Group of the Industrial Insulations Division, *Michael I. Schermerhorn* is now Staff Manager of Metal Building Products & Engineered Systems. He will be responsible for Duct Insulations, Metal Building Insulations and Systems and Cold Storage Products. He started with J-M in 1964 and most recently was a salesman for the Distributor Products Department in Philadelphia.

H. K. PORTER COMPANY, INC.

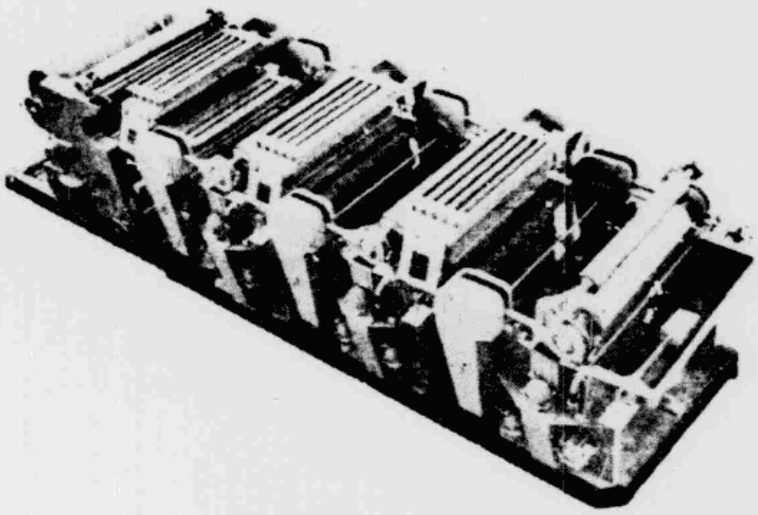
B. Campbell Blake was elected a Director of Porter following his recent retirement as Vice President and General Manager of the Connors Steel Division. Under Mr. Blake's direction, the Division led the way in the development, in the South, of the first integrated cold finished bar mill and continuous casting facility.

H. T. Montgomery, General Sales Manager since 1951, succeeded Mr. Blake as Vice President and General Manager of the Division.

SCAPA GROUP LIMITED

Following the resignation of *P. N. Ashworth*, on October 1, *M. Thompson* was appointed Secretary. Mr. Ashworth will continue as Associate Secretary on a part-time and consulting basis.

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ASBESTOS CEMENT SHEET MACHINE



AUTOMATIC AND SEMI-AUTOMATIC ASBESTOS CEMENT PLANTS FOR THE MANUFACTURE OF:-

ASBESTOS CEMENT

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- **Corrugated sheets**
- **Flat Sheets**
- **Socket Pipes**



HYDERABAD ASBESTOS CEMENT PRODUCTS LTD.

Plant Manufacturing Division,
Sanatnagar, Hyderabad-18.(A.P.), India.

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ASBESTOS STOCK QUOTATIONS

Close—October 24, 1969

Advocate	*$2.50	Glen-Alden	10⅞
Asarco	31¼	G-Alden (pfd 3)	76
Armstrong Cork	35¾	G-Alden (pfd 2.25)	39
Armst Cork (pfd 3.75)	59½	Grace	27⅝
Asbestos Corporation	*$25.00	Gulf & Western	23⅞
Bendix	44	G&W (pfd 1.75)	81
Bendix (pfd 3)	66½	G&W (pfd 3 87)	52¾
Carlisle	16⅝	G&W (pfd 5.75)	64⅜
Cassiar	*$17.50	Johns-Manville	34⅞
Certain-teed	26⅛	Maremont	12⅞
C-teed (pfd .90)	25½	National Gypsum	28¼
Conwest	*$10.00	Patino	*$46.25
Flintkote	27⅞	Porter (pfd 5.50)	71
F-kote (pfd-A 4.50)	78¾	Raybestos-Manhattan	50
F-kote (pfd-B 2.25)	36⅝	Unarco	10½
GAF	17⅝	Union Carbide	43⅛
GAF (pfd 1.20)	24⅞	Uniroyal	21⅞
Garlock	19¾	Uniroyal (pfd 8)	108

*Canadian currency
(Source: The Wall Street Journal)

U.S. Documents—The following reports are available at $3.00 per paper copy and 65c per microfiche from the Clearinghouse, U.S. Department of Commerce, Springfield, Virginia 22151.

AD 688 103—Surface Chemistry of Plastics Reinforced by Strong Fibers, by W. A Zisman of the Naval Research Laboratory, Washington, D.C.

AD 691 000—Landing Fields and Runways, a bibliography by the Defense Documentation Center, Alexandria, Virginia; contains references that evaluate and analyze design configuration, construction, runway materials, coatings, site preparations, surface properties, stability and durability of aircraft landing fields and runways.

NASA SP-5021 (09)—Index to NASA Tech Briefs; lists the technological innovations published as NASA Tech Briefs during the period from January through June, 1969.

NASA TECH BRIEF 69-10283—Automated Measurement of Thermal Conductivity, by D. V. Hale of Lockheed Missiles and Space Company, under contract to Marshall Space Flight Center.

NBS BSS 19—A Study of the Variables Involved in the Saturating of Roofing Felts, by Sidney H. Greenfeld

JAMES united steel limited

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ASBESTOS PRICES

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

(As of August 1, 1968) U. S. Dollars

No. 1 Crude	$1,410.00 to	$1,650.00
No. 2 Crude	700.00 to	950.00
AAA		800.00
Group No. 3 (non-ferrous filtering-plastic)	425.00 to	700.00
Group No. 4 (non-ferrous filtering-plastic)	400.00 to	500.00
Group No. 5 (non-ferrous filtering-plastic)	385.00 to	425.00
Group No. 6 (non-ferrous plastic)		250.00
Group No. 7 (white shorts)	65.00 to	90.00

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

(As of January 1, 1969) Canadian Currency

Crude No. 1	$	$1,480.00
Crude No. 2		800.00
Group No. 3 (spinning fiber)	385.00 to	630.00
Group No. 4 (shingle fiber)	212.00 to	360.00
Group No. 5 (paper fiber)	152.00 to	180.00
Group No. 6 (waste, stucco or plaster)		110.00
Group No. 7 (refuse or shorts)	50.00 to	92.00

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

(As of January 1, 1969) Canadian Currency

AAA	grade (non-ferrous spinning fiber)	$ 845.00
AA	grade (non-ferrous spinning fiber)	673.00
A	grade (non-ferrous spinning fiber—Canadian Group 3)	508.00
AC	grade (asbestos-cement—Canadian Group 4)	363.00
AK	grade (shingle fiber—Canadian Group 4)	249.00
CP	grade (shingle fiber—Canadian Group 4)	234.00
AS	grade (shingle fiber—Canadian Group 4)	217.00
CT	grade (shingle fiber—Canadian Group 4)	211.00
AX	grade (shingle fiber—Canadian Group 5)	193.00
CY	grade (shingle fiber—Canadian Group 5)	136.00
AY	grade (shingle fiber—Canadian Group 5)	136.00

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

(As of January 1, 1969) U. S. Dollars

Group No. 3 (spinning & filtering)	$ 356.00 to	$ 382.00
Group No. 4 (shingle fiber)	195.00 to	331.00
Group No. 5 (paper fiber)	141.00 to	165.00
Group No. 6 (waste, stucco or plaster)		102.00
Group No. 7 (shorts & floats)	47.00 to	85.00

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Asbestos projects undertaken by SNC are located in Canada, U.S.A., Australia and Europe.

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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 September 9 through October 7, 1969.

3,466,187—Pressure-Sensitive Tape, F. E. Heinemann & C. B. Moore (assigned to W. R. Grace & Company, Cambridge, Massachusetts), September 9, 1969.

3,466,221—Expanded Silicate Insulation, R. H. Sams & N. W. McCready (assigned to Philadelphia Quartz Company, Philadelphia, Pennsylvania), September 9, 1969.

3,466,354—Process for Fast Curing Alkali Metal Silicate Bonded Product, F. A. Donner (assigned to Vermiculite Manufacturing Company, Seattle, Washington), September 9, 1969.

3,466,722—Rolls for Glass Drawing Machinery, J. Martin (assigned to Fabricacion de Maquinas, Monterrey, N.L., Mexico), September 16, 1969.

3,471,402—Drilling Fluid, J. L. Shannon & C. A. Sauber (assigned to Phillips Petroleum Company, a corporation of Delaware), October 7, 1969.

3,471,438—Asbestos Composition, S. Chwastiak (assigned to Union Carbide Corporation, a corporation of New York), October 7, 1969.

STATEMENT OF OWNERSHIP, MANAGEMENT AND CIRCULATION
(Act of October 23, 1962; Section 4369, Title 39, United States Code)

1. Date of Filing: October 1969.
2. Title of Publication: ASBESTOS.
3. Frequency of Issue: monthly.
4. Location of Known Office of Publication: 131 North York Road, Willow Grove, Pennsylvania 19090.
5. Location of the Headquarters or General business Offices of the Publishers: 131 North York Road, Willow Grove, Pennsylvania 19090.
6. Names and Addresses of Publisher, Editor, and Managing Editor: Publisher, Stover Publishing Co., 131 North York Road, Willow Grove, Pa. 19090; Editor & Managing Editor: D. M. Fagan, 50 South Penn Street, Hatboro, Pennsylvania 19040.
7. Owner: Trust of C. J. Stover, Box 73, Benson Manor, Jenkintown, Pennsylvania 19046.
8. Known Bondholders, Mortgagees, and Other Security Holders or Holding 1 Percent or More of Total Amount of Bonds, Mortgages or Other Securities: None.
9. Not Applicable.
10. Extent and Nature of Circulation: Preceding 12 Months—A. Total No. Copies Printed (Net Press Run), 1,500; B. Paid Circulation: 1. Not Applicable, 2. Mail Subscriptions, 1,008; C. Total Paid Circulation, 1,008; D. Free Distribution (including samples) by Mail, Carrier or Other Means, 222; E. Total Distribution (Sum of C and D), 1,230; F. Office Use, Left-Over Unaccounted, Spoiled After Printing, 270; G. Total (Sum of E & F—should equal net press run shown in A), 1,500.

Actual Number of Copies of Single Issue Published Nearest to Filing Date—A. Total No. Copies Printed (Net Press Run), 1,500; B. Paid Circulation: 1. Not Applicable, 2. Mail Subscriptions, 1,028; C. Total Paid Circulation, 1,028; D. Free Distribution (including samples) By Mail, Carrier or Other Means, 217; E. Total Distribution (Sum of C and D), 1,245; F. Office Use, Left-Over, Unaccounted, Spoiled After Printing, 255; G. Total (Sum of E & F—should equal net press run shown in A), 1,500.

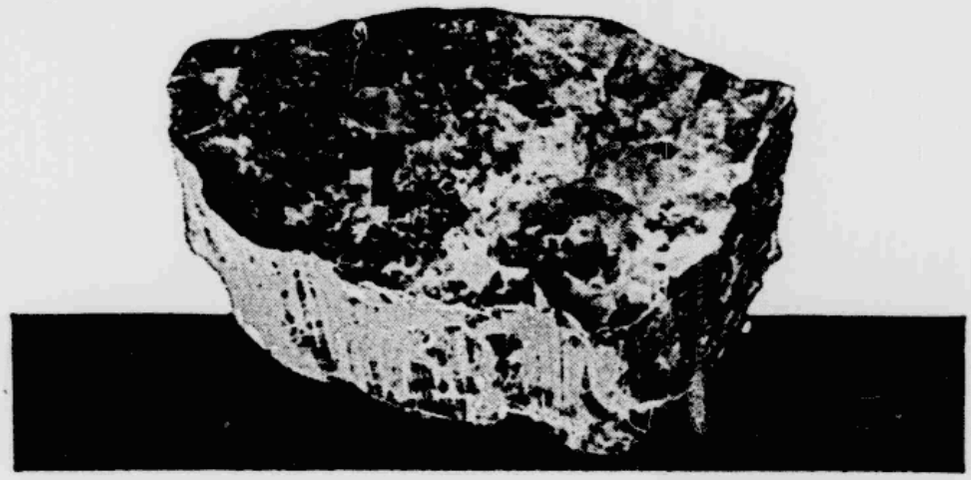
I certify that the statements made by me above are correct and complete.

BUILT ON A ROCK

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

THE ASBESTOS DIVISION OF **SCANDURA LIMITED**

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Remember When?

(November 1919 ASBESTOS)

New Advertisers: The Rhodesian & General Asbestos Corporation, Ltd.; Elwood J. Wilson, Mining Engineer.

Samuel Turner, of Turner Bros. & Co., Ltd., Rochdale, England, the largest manufacturers of asbestos products in that country (and, possibly, in the world), spent some time in the States last month, studying industrial conditions here. He was surprised and impressed by the comparatively satisfactory condition of the labor problem here and by the "hum" of American industry.

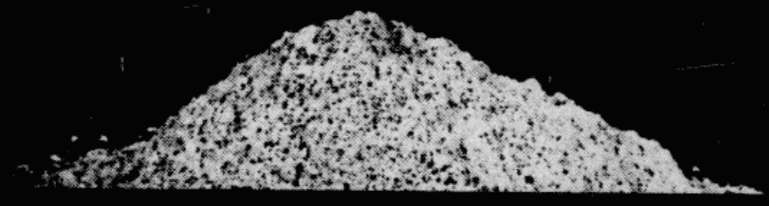
The Postoffice Bureau of Equipment and Supplies has been preparing to equip its aerial mail carriers with asbestos mail bags and, by the time this issue of ASBESTOS goes to press, 20 of these bags will be installed, a sufficient number to equip all mail-carrying planes in service at present. In tests it has been found the bags can be exposed to the heat of a gasoline blowtorch without scorching the paper within the bag. The bags are made of a good quality asbestos cloth supplied by the Keasbey & Mattison Company.

C. J. Stover, Secretary to the various Asbestos and Magnesia Trade Associations, sailed for Liverpool on the Carmania, November 8th, on business in the interests of the Industry.

The Marlin Rockwell Company, New Haven, Connecticut, manufacturers of insulated wire, have been doing some especially noteworthy advertising. "Rockbestos" is the trade name applied to a particularly effective insulated wire and intelligent use by the company of the oddities of asbestos is very interesting.

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IN Carey 7RF FLOATS

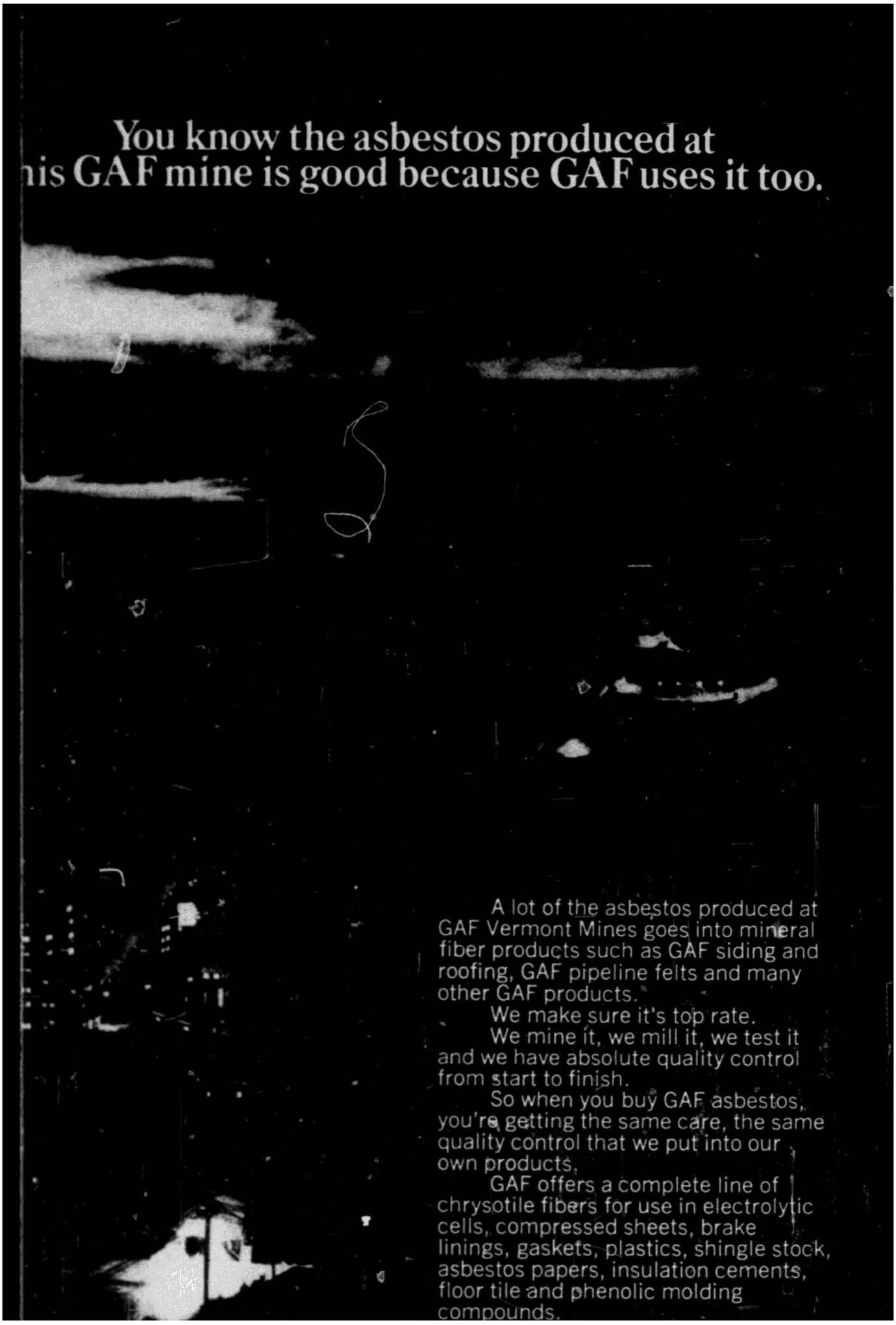
Grit-free Carey-Canadian 7RF-9 is specified in great quantities by resin compounders, joint cement manufacturers and others who have improved their products with these floats.

Get samples and data from the Warehouses below or from Carey-Canadian Mines, Ltd., P.O. Box 15070, Lockland, Cincinnati, Ohio 45215, or The Philip Carey Co. Ltd., Ville St. Laurent, Montreal 9, P. Q., Canada.

Warehouse stock of 7RF asbestos floats at:

Atlanta	Thompson-Hayward Chem. Co.
Baltimore	A. B. Kohl Sales Co.
Birmingham	Thompson-Hayward Chem. Co.
Brooklyn	Smith Chem. & Color Co.
Buffalo	Commercial Chemicals, Inc.
Chicago	Chicago Firebrick Co.
Cleveland	Donald McKay Smith, Inc.
Dallas	Thompson-Hayward Chem. Co.
Davenport, Iowa	Thompson-Hayward Chem. Co.
Denver	Plateau Supply Co.
Des Moines	Thompson-Hayward Chem. Co.
Detroit	A. E. Fleming Co.
Hallandale, Fla.	Thompson-Hayward Chem. Co.
Houston	Thompson-Hayward Chem. Co.
Huntsville, Ala.	Thompson-Hayward Chem. Co.
Indianapolis	Thompson-Hayward Chem. Co.
Kans. City, Mo.	Thompson-Hayward Chem. Co.
Little Rock	Thompson-Hayward Chem. Co.
Los Angeles	E. S. Browning Co.
Memphis	Thompson-Hayward Chem. Co.
Minneapolis	Thompson-Hayward Chem. Co.
Mobile	Thompson-Hayward Chem. Co.
Montgomery, Ala.	Thompson-Hayward Chem. Co.
Nashville	Thompson-Hayward Chem. Co.
New Orleans	Thompson-Hayward Chem. Co.
Oklahoma City	Thompson-Hayward Chem. Co.
Omaha	Thompson-Hayward Chem. Co.
Philadelphia	George A. Rowley & Co., Inc.
Pittsburgh	McCann-Shields Paint Co.
Shreveport	Thompson-Hayward Chem. Co.
St. Louis	Thompson-Hayward Chem. Co.
San Francisco	E. S. Browning Co.
Tampa	Thompson-Hayward Chem. Co.
Trenton, N. J.	H. M. Royal, Inc.
Tulsa	Thompson-Hayward Chem. Co.
Wichita	Thompson-Hayward Chem. Co.
Winchester, Mass.	W. D. Egleston Co., Inc.

You know the asbestos produced at his GAF mine is good because GAF uses it too.



A lot of the asbestos produced at GAF Vermont Mines goes into mineral fiber products such as GAF siding and roofing, GAF pipeline felts and many other GAF products.

We make sure it's top rate.

We mine it, we mill it, we test it and we have absolute quality control from start to finish.

So when you buy GAF asbestos, you're getting the same care, the same quality control that we put into our own products.

GAF offers a complete line of chrysotile fibers for use in electrolytic cells, compressed sheets, brake linings, gaskets, plastics, shingle stock, asbestos papers, insulation cements, floor tile and phenolic molding compounds.