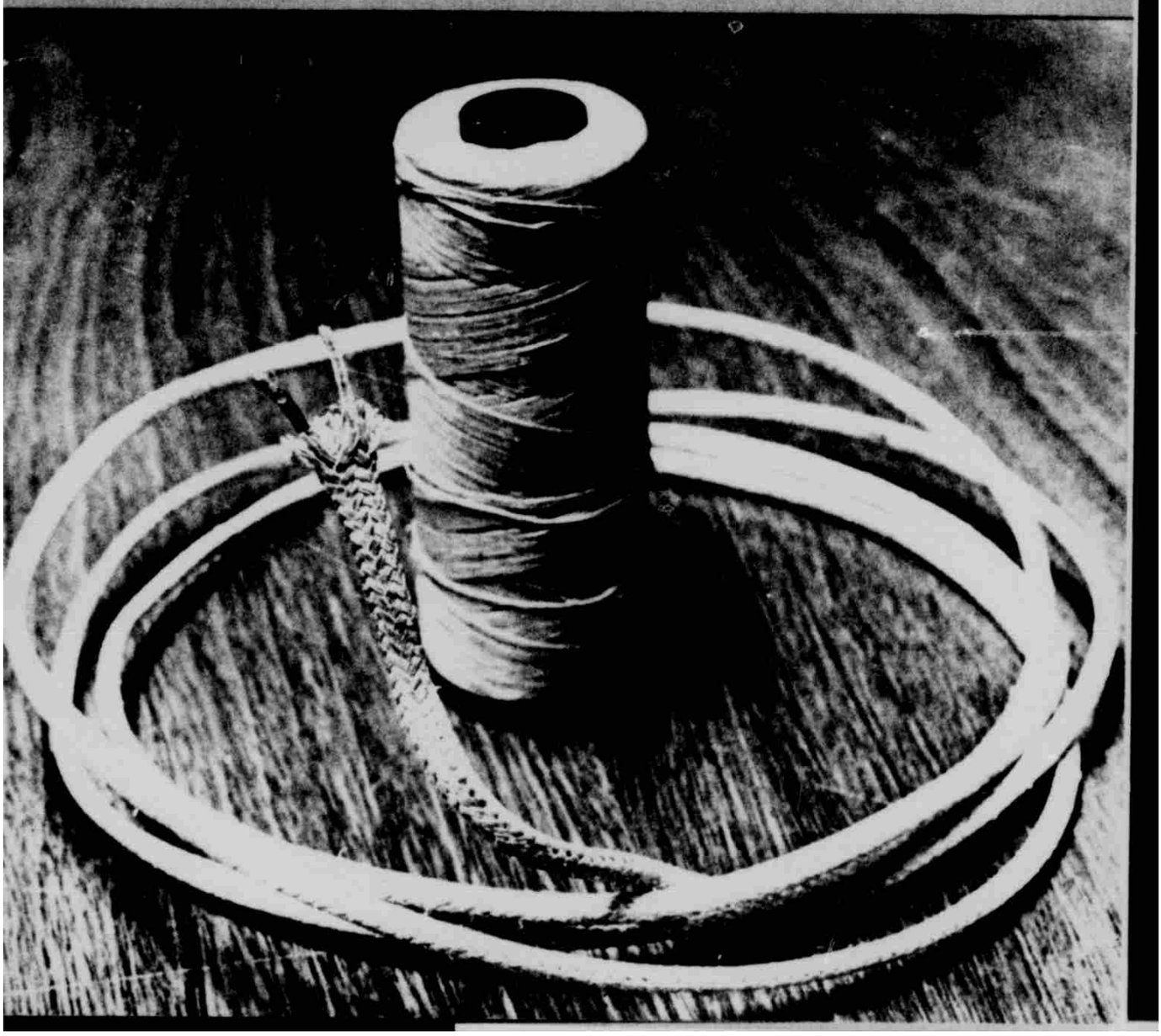
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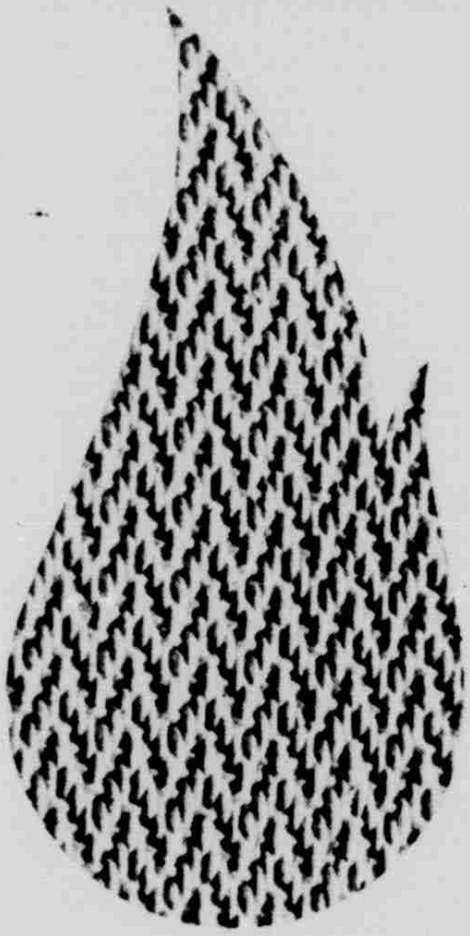
R/M Pure Asbestos Jackets
For Tensolite Thermocouple Wire



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ASBESTOS

VOLUME 54 MARCH 1973 NUMBER 9

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

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

SUBSCRIPTIONS 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

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PURE ASBESTOS JACKETS

FOR THERMOCOUPLE WIRE—FROM R/M

A pure asbestos yarn for high-temperature applications is the key component in a new thermocouple wire guaranteed to withstand temperatures of 1000°F in continuous use without deterioration or discoloration.

The braiding yarn, made by a new process, is lubricated to give long, trouble-free production runs on braiding equipment and to protect workmen's health by maintaining asbestos dust and lint well below established levels. After the yarn is braided, the lubricant is easily driven off the asbestos jacket by a simple curing process.

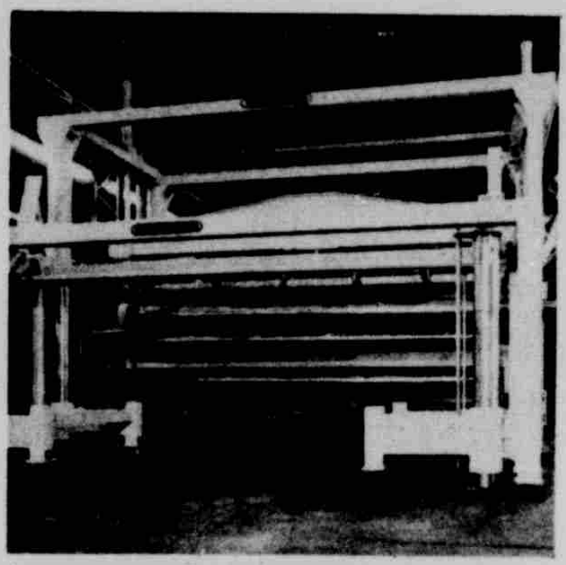
Known as Novatex 195/3/0 lubricated braiding yarn, the material is a new development of the Asbestos Textile Division of Raybestos-Manhattan, Inc., Bridgeport, Connecticut. It is 100% pure asbestos in contrast to Underwriters' grade of asbestos braiding yarn which contains 20% organic fiber. The pure asbestos yarn withstands high temperatures to a much greater extent than yarn that contains some organic materials.

The thermocouple wire was developed by Tensolite, Tarrytown, New York, a division of Carlisle Corporation, and is sold under the trade name of Tensol-Therm. Believed to be the first to have a pure asbestos jacket, the wire is suitable for use in all thermocouple applications requiring long-term resistance to temperatures as high as 1000°F. The Tensol-Therm thermocouple wire connects the thermocouple with the indicating or recording instrument. It is furnished in 20 gage and 16 gage sizes and in any length required. Industries which are expected to find it especially useful are chemical processing, nuclear and metal producing, but it will lengthen wire life in any high-temperature thermocouple application such as heat treating furnaces.

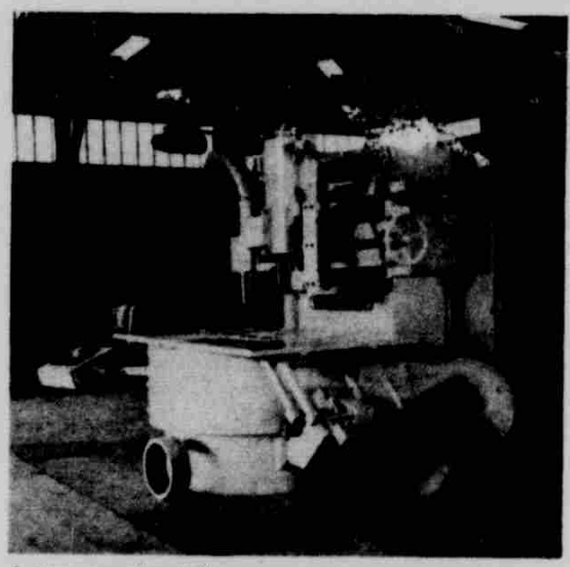
The development of the Novatex yarn actually began with the visit of an R/M engineer to the Tensolite plant to study the company's manufacture of thermocouple wire and its braiding equipment. Conversations between the R/M and Tensolite engineers resulted in a yarn which met Tensolite's requirements

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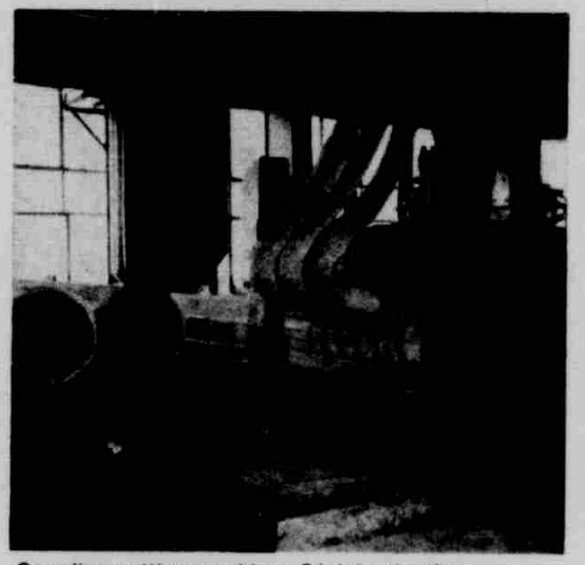
Autom. pressure pipe machine with pipe calender



Autom. coupling lathe



Autom. pipe lathe



Coupling cutting machine, 5 joints at a time

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for a braided sheath for high-temperature thermocouple wire.

When making Tensol-Therm high-temperature thermocouple wire, Tensolite first covers the wire with standard asbestos for insulation. It then braids a Novatex jacket on the insulated wires to give them high heat protection. The final step is to cure the wire to eliminate the lubricant from the jacket.

Since Tensolite began using the lubricated Novatex braiding yarn less than a year ago, it has experienced exceptionally long runs without the yarn breaking and before maintenance is required on the braiding equipment. The lubrication has minimized the emanation of asbestos dust when the yarn is braided into cable jackets.

Of special interest is the long life of the wire in customers' plants. According to William A. Lewis, Tensolite's Product Manager for thermocouple wire, "When the jackets are made from Underwriters' grade asbestos and the wire is subjected to temperatures in the 1000°F range, the jackets eventually char badly and the thermocouple wire cannot be reused. It becomes, in effect, a throwaway item. On the other hand, the new all-asbestos jackets stand up to heats this high with no sign of failure, even when used continuously. They can be used again and again and look as good as when first bought."

In addition to being heat resistant, the new Novatex asbestos yarn is unusually light, flexible and strong. Its tensile strength is greater than that of conventional asbestos yarn weighing up to four times as much. The asbestos content is 99-100%, conforming to ASTM Grade AAAA.

THE COVER

The photograph shows a tube of Novatex 195/3/0 lubricated braiding yarn surrounded by a coil of Tensol-Therm thermocouple wire with cover braided from this Grade AAAA (99-100% asbestos) yarn. Covered wire by Tensolite, a division of Carlisle Corporation. Braiding yarn by Raybestos-Manhattan's Asbestos Textile Division.

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INDUSTRIAL HEALTH & SAFETY

EV 21 VACUUM FROM BVC

The health dangers of dust on industrial premises and at hospitals have been a source of concern and intensive study for many years. Numerous governmental and private investigations have been in progress since early in the century and today the studies continue in many fields, under both government and private direction.

Special regulations have been issued by the Department of Employment, United Kingdom, concerning asbestos and the protection of those who work with it or in association with it. The Asbestos Regulations of 1970 apply to every process involving asbestos except where asbestos dust cannot be given off. The Regulations require the provision of equipment that produces an exhaust draught which prevents the entry of asbestos into the air at any workplace. Where exhaust ventilation is impracticable, respiratory protection should be used.

A new system of filtration developed by BVC Ltd., Leatherhead, Surrey, England, is claimed as a breakthrough in combating the health hazards of injurious dusts and fibers in industry. The first commercial application of the filter is seen in BVC's new EV 21 portable vacuum cleaner which, in a standard portable appliance, gives a degree of filtration previously possible only with larger, more sophisticated and more costly equipment.

Tests carried out by industry and by hospital authorities show that the EV 21, with the three-stage positive filter, captures all airborne particles and retains them for safe disposal, with negligible exhaust emission into the atmosphere. The system is to be incorporated throughout a complete range of BVC industrial vacuum cleaners, all of which can then provide filtration standards superior to the specific requirements of various health regulations, including the Asbestos Regulations.

The Asbestosis Research Council recommended a test procedure to be conducted to evaluate the effective operation of a vacuum system for incorporation with hand-operated cutting tools. The objective was to reduce, to an absolute minimum, contamination of the atmosphere by asbestos dusts, particularly in the operator's breathing zone. With the cooperation of leading specialists in the U.K. asbestos industry and with advice on the subject by members of Her Majesty's Factory Inspectorate, tests were efficiently conducted by qualified test personnel using special equipment and operating facilities.

The unit subjected to the test was the BVC Model EV 21 cylinder-type vacuum cleaner with inlet hose connected by adaptor to a drill. Prior to the test a fiber count was taken in

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Asbestos

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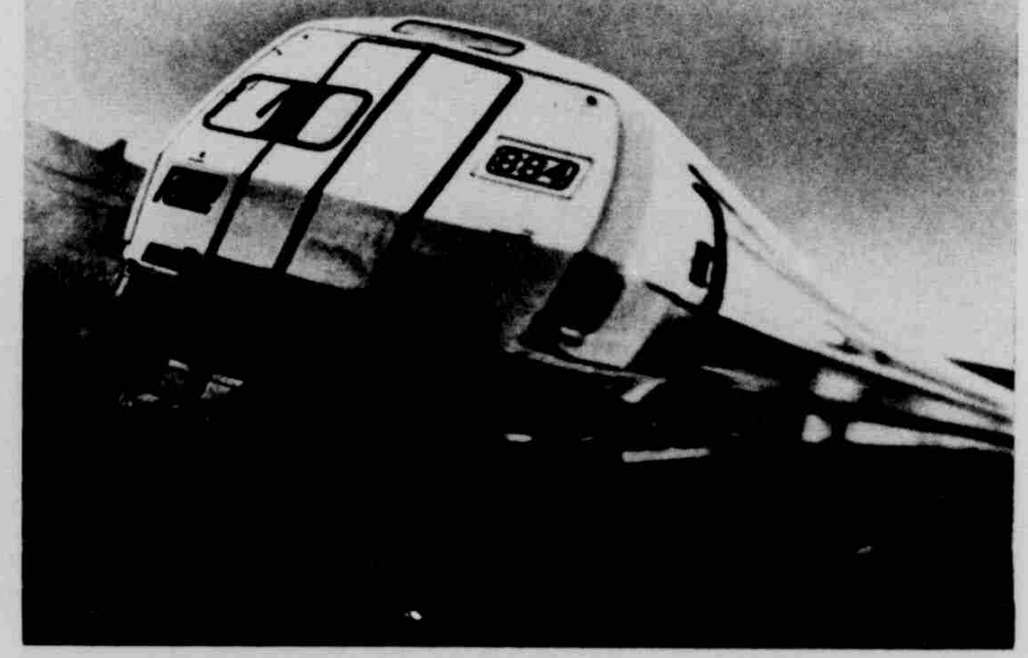
At speeds of up to 100 mph, Amtrak's New York-Washington, D.C. Metroliner needs all the stopping power it can get. So hard-working asbestos is used in the brake shoes on this cannonballing express.

Tough, lightweight, incombustible asbestos is a unique material. Indispensable for hundreds of protective uses—in industry, in homes and public buildings, in cars and trucks and trains, on ships, even on spacecraft.

Without asbestos, life for all of us would be a lot more hazardous.

For information on how asbestos can help you, contact your local J-M representative or the Canadian Johns-Manville Co., Ltd., Box 1500, Asbestos, P.Q. Or Johns-Manville Asbestos Fibre Sales, Box 5705-AFD, Denver, Colo. 80217 U.S.A.

Johns-Manville JM



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the area and registered 0.1 fibers per cubic centimeter. During drilling of sample asbestos products without protection the contamination of the same area was recorded as over 40 f/cc. In carrying out the same operation but with the cleaner in operation, the area reading in the breathing zone was, on an average, no higher than 0.16 f/cc.

The three-stage filter system which more than meets the stringent U.K. factory regulations comprises two filter bags, one within the other, together with a special replaceable exhaust filter. A disposable primary paper bag which can be sealed for safe removal is placed within the secondary cloth filter so that even the most minute particles are captured. The filter at the exhaust end ensures that only clean air is discharged, and this discharge occurs at such a low velocity that there is only negligible disturbance in the atmosphere.

The BVC "positive filtration" system is also available in kit form for simple conversion of other BVC machines. Kits are supplied as optional extras with new purchases or may be fitted to cleaners already in service.

Each kit is equipped with a hose connection, a filter head, a sealing tube, a disposable paper bag filter, a shielded back plate, a replaceable exhaust-air filter diffuser and a cover for the diffuser. The filter head is interchangeable with the types of filter heads fitted to containers of the same diameter. The existing fabric bag is retained. The disposable bag can be removed with a minimum of disturbance by releasing the filter head and seal tube, folding it over the neck of the paper bag and lifting it clear of the container.

BVC Ltd. is the industrial division of the Goblin (BVC) Group, founded by H. Cecil Booth, a British engineer who invented and held the original patents of the vacuum cleaner. His original cleaner was the forerunner of vacuum cleaning equipment which today ranges from the small domestic units to mobile appliances weighing up to 14 tons and fixed installations of immense capacity. The Goblin Group is an international company that manufactures domestic vacuum cleaners and other appliances. Through its industrial company, BVC Ltd., it covers the full scope of what is known as "Vacuumation."

BVC equipment operates on the same principle as the homemaker's vacuum cleaner. In addition to industrial cleaning, it also moves raw materials in powder and granular form; conveys hot air, steam and chemicals; collects bulk refuse for disposal; and reclaims gold and other precious metals. Industrial applications are virtually limitless and new uses are continually being introduced wherever controlled air movement is required.

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THE SIGRIST PHOTOMETER

The Sigrist Photometer for continuous measurement and monitoring of turbidity, fluorescence, absorption and reflection is now available from Gubelin International Corporation, Mt. Kisco, New York. Operating on a single light source and a single photocell but with two optical paths produced by an oscillating mirror, the photometer is simple to use and requires no special knowledge to provide accurate measurements.

In operation, a light beam is directed against an oscillating mirror to produce both a measuring beam and a comparison beam of light alternately at 600 times a second. The measuring beam passes through the material being measured and the comparison beam through a reference standard to reach the photocell. As the photocell receives the measuring and comparison beams at the same frequency, it converts the intensity difference between them into an electric current. This is amplified to drive a synchronous servomotor for operating a mechanical shutter to alter the intensity of the comparison beam until both beams are equal in intensity. In this equilibrium condition, the position of the shutter is a measure of the solid content, color, concentration or fluorescence. The absolute reading is a product of the shutter position and the magnitude of the standard.

Upon contacting the company, we were advised by W. Gubelin, President, that the Sigrist turbidimeter (photometer) can be used to advantage for the measuring of asbestos dust. The basic instrument lends itself to a variety of applications by using different interchangeable measuring units. For instance, for the continuous surveillance, recording and monitoring of asbestos dust conditions or concentrations, the Sigrist basic unit UP51B3 with measuring attachment FTNF3 would be recommended. The instrument lends itself ideally to continuous supervision of air contamination in asbestos plants. The Sigrist turbidimeter (photometer) will not measure the specific length of asbestos fibers but will indicate mg concentrations per cubic meter of air to a sensitivity of .005 mg/cubic meter. A recording chart can be supplied with a conversion which indicates the OSHA limitation. An advantage of the instrument is its fully optical dual beam bridge which, contrary to electronic measuring devices, does not require a zero adjustment. It therefore provides a stability and a reliability that is not matched by other dust measuring devices. A continuous supervision of dust concentrations in asbestos plants revealed interesting high and low variations during days,

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weeks and months of measuring. Knowing the variations makes it possible to detect sources responsible for such variations and, thus, arrive at a more uniform and less hazardous condition of the atmosphere.

PRE-DAMPENED SILBESTOS SPRAY

A new pre-dampening machine is being marketed by Sprayed Insulations Ltd., London, England, to substantially reduce the amount of dust produced when applying Silbestos sprayed asbestos insulation. The machine is compact and operates from the same compressor that powers the spray machine. Water is poured into the gravity feed pot on the right of the pre-dampening unit and the fiber is placed in a drum into which a sprinkler head ejects atomized water over the fiber, as it is tumbled, for six minutes. The drum is turned to release the dampened fiber into a deep tray underneath the machine and it is then taken from the tray and placed in the hopper of the spray machine. The hopper is fitted with revolving tines which loosen the fiber. The fiber is carried to a set of brushes for further disintegration. A fan then blows the fiber through a tube and jets of atomized water mix with the already-damp fiber as it is sprayed out of the gun head.

The drum weighs about 75 pounds and roughly measures 50" high, 28" wide and 43" deep. The unit is driven by a single 1/2-horsepower electric motor which permits a slow rotation of the drum to ensure thorough mixing of the spray fiber with water.

According to a report by the HM Chemical Inspector of Factories, airborne dust samples taken during spray trials using SIL's pre-dampening equipment indicate very satisfactory control of the dust. The airborne dust levels are well below the ten fibers per cubic centimeter normally encountered with an effective pre-dampening system. At these levels, the expensive screening on site can be avoided, provided other workers are kept at least 20 feet away from the spray area.

At the time when the controversy first arose in the U.K. concerning the health hazard associated with asbestos dust, the British manufacturers that offered the sprayed process banded together and formed an Asbestos Spray Technical Committee, with the idea that any action necessary would be taken to meet the requirements of the Asbestos Regulations. The use of sprayed asbestos in the U.K. is reported to be on the increase and restrictions are not envisioned provided asbestos spray fibers are pre-dampened and work sites are kept clean.

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AUTOMATIC BAG OPENER

Interesting information has been received from Taunton Engineering Company, Inc., Taunton, Massachusetts, on the TECO Automatic Bag Opener, a heavy-duty machine that automatically opens and empties bagged materials and that eliminates waste due to dust dispersion of bag residue and spillage. The opener is complete with an infeed conveyor section adaptable to any size bag. Feed is continuous from six to ten bags per minute or greater, depending on material flow characteristics. The unit is adjustable according to bag size and is completely enclosed, thus requiring minimal venting for complete dust control. A special razor-sharp stainless steel cutting knife, the only point of contact with the product, cuts the bag without shredding or contaminating the product.

Mr. Gilbert Lavoie, President of Taunton Engineering, states the TECO bag opener will open bags of certain grades of asbestos provided specific techniques are followed. The firm has tested opening 50-pound bags of some Grade 7 fibers, employing an "Air-Sparge" to fluidize the asbestos while still in the bag and after the bag has been cut, to enhance the flow from the bag. Each grade of asbestos differs in the amount of air required to fluidize the material properly and to blow out the residue which may remain in a corner of the bag if it has not been cut exactly dead-center. The combination of agitators and Air-Sparge seems to empty the bag reasonably well. Most products tend to provide their own air space at the top of the bag as it is placed on the infeed conveyor section of the Taunton unit. However, the operator must assist when working with a heavily-packed material such as asbestos which is fibrous in nature. Since most bags of asbestos are packed very tightly, they would tend to jam the ejection mechanism of the bag opener. However, Taunton found that simply by dropping the bag with a little force onto the infeed conveyor, a dead-air space is provided at the top of the bag, thereby allowing the ejection mechanism to properly pick up the paper bag which can then be cut and ejected efficiently.

The basic bag opener requires about 600 cfm of air for proper venting and using the Air-Sparge increases the requirement by an additional 200 cfm.

EPA STANDARDS FOR NEW PLANTS

The U.S. Environmental Protection Agency announced the publication in the Federal Register of January 16, 1973, of a list of 27 industries for which it will develop water pollution control standards for new plants. Among the industries listed

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World Wide CONSULTING SERVICES

Working on asbestos projects since 1946, SNC and its associate GECO have grown up with the industry, becoming one of the few consulting organizations with extensive experience in this specialized field.

PROJECTS INCLUDE:

Canada:	Advocate, Baie Verte, Newfoundland Johns-Manville, Mill No. 5, Asbestos, Quebec Johns-Manville, Reeves, Ontario Carey-Canadian, East Broughton, Quebec Flintkote, Thetford Mines, Quebec
Australia:	Woodsreef Chrysotile Corp., Barraba, N.S.W.
South Africa:	Msauli, Barberton
West Germany:	Asbestos Corporation, Nordenham

Feasibility studies have been carried out in Australia, Bolivia, Turkey, Canada, Greece and Mexico.

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GENERAL ENGINEERING (1970) COMPANY LTD.
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are glass and asbestos manufacturing plants. Under the Federal Water Pollution Control Act Amendments of 1972, EPA is required to establish standards of performance for new sources of pollution which require application of the "best available demonstrated control technology, processes, operating methods or other alternatives including, where practicable, a standard permitting no discharge of pollutants." EPA must issue the standards within one year from publication of the list of industries. The standards will be applicable only to new sources or plants for which construction commences after the date of publication of proposed regulations.

AIR POLLUTANT STUDY

Major Canadian sources of air pollutants posing potential hazards to health will be pinpointed in a cross-country survey, commissioned by Environment Canada, Ottawa. The study will be carried out by James M. MacLaren Ltd., Toronto consulting engineers, and will be based on 1970 data. It will focus on emission sources of asbestos, beryllium, lead and mercury. As well as identifying the major sources of the pollutants, methods of controlling the emissions will be inventoried. It is expected that as a result of the survey, Canada will no longer be dependent on U.S. information on the quantity and nature of such emissions.

MINES BUREAU-APPROVED RESPIRATORS

"Respirators Approved by the U.S. Bureau of Mines as of May 24, 1972" are listed in Information Circular 8559, available free of charge from the Publications Distribution Section, Bureau of Mines, 4800 Forbes Avenue, Pittsburgh, Pennsylvania 15213. The list covers devices approved for use in oxygen-deficient atmospheres and in the presence of specific gases, vapors, dusts, mists and fumes. An appendix to the report provides names and addresses of manufacturers of the listed devices. Under a new ruling, the Bureau will continue to establish requirements for mine respirators and testing will be handled by the National Institute for Occupational Safety and Health. Those devices that "pass the test" will be approved jointly by the Secretaries of the Interior and of Health, Education and Welfare.

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PLANTS AND MACHINERY FOR THE PRODUCTION OF ASBESTOS-CEMENT SHEETS



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PRODUCT NEWS

TRUCK B.L. FROM THERMOID

A new line of brake linings for light and medium truck applications is now offered by the Thermoid Division of H. K. Porter Company, Inc., Pittsburgh, Pennsylvania. "Red Streak" Truck Lining Sets feature new, high-quality compounds specifically engineered for truck service. The four-piece (one axle) sets are finished products, packaged one set per box and ready for installation. In addition, Thermoid offers "Red Streak" bonding segments and drilled segments for riveting, a quality line of Portobond segments, lined disc pads, disc pad linings and heavy-duty brake blocks. The range covers applications for passenger cars and for light, medium and heavy trucks.

HUME PRODUCTS IN NEW WAREHOUSE

A new $S6-million bulk cargo warehouse in Singapore, owned by Mitsui Toatsu Chemicals Inc., for storage and distribution of urea-fertilizer and chemicals was officially opened during the latter part of last year. Ten-thousand asbestos-cement sheets, manufactured by Hume Industries (Far East) Ltd., were used for the giant roof and claddings, including specially-molded sheets to suit the specific requirements of the uniquely-designed structure. The production order for the sheets represented one of the largest single projects undertaken by Humes in recent years. According to F. Cerosio, Asbestos Division Manager, it was a challenging task as the asbestos sheets had to be manufactured to meet the stringent specifications required for an air-conditioned building that occupied such a large area. The warehouse has a covered area of 3.04 acres.

J-M OIL SEAL LITERATURE

The Industrial Products Division of Johns-Manville Corporation up-dated its Oil Seal Interchange List PK-256A to include the new J-M sizes that cover most Garlock model numbers. The literature will be helpful to distributors and customers when converting Garlock numbers to J-M sizes. . . . The first completely-metric catalogs of their kind in the oil seal industry were prepared by Johns-Manville to provide engineering and design data and mold list metric sizes for all J-M Clipper Oil Seals. Booklet PK-347A lists all of the metric stock sizes and Master Catalog PK-346A offers a product description along with a mold list in metric sizes.

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CANADA



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Raw Asbestos Crudes

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PLANT EXPANSIONS & RELOCATIONS

NATIONAL INCREASES PLANT EFFICIENCY

The Gold Bond Building Products Division of National Gypsum Company has undertaken a major multi-million dollar modernization program at its plant in Mobile, Alabama, which produces a variety of wood fiber and mineral wool building products. The program primarily involves the installation of new equipment, including a fiber-forming machine and a multi-deck gas dryer, and increased efficiency of water treatment facilities. All process water will be aerated in a new five-plus-acre retention pond and then piped to a municipal water treatment plant where it again will be treated.

J-M SUBSIDIARY RELOCATES

Pipeline Accessories Corporation, a wholly-owned subsidiary of Johns-Manville Corporation, opened larger manufacturing facilities in San Leandro, California. The plant employs a total of 52 people and formerly was located at nearby Emeryville. PAC produces and markets a wide range of pipeline accessories including saddles, flanged adapters, couplings, repair clamps, fittings and fabrications.

A/C BOARD PLANT FOR ETERNIT

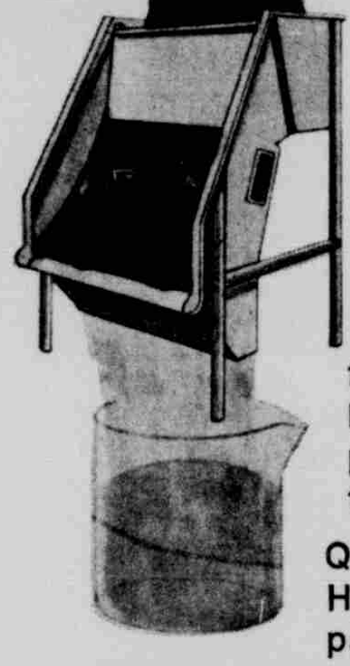
Eternit-Werke Ludwig, Austria, will increase production capacity by 20% with the start-up of its sixth asbestos-cement sheet plant at the Vocklabruck facility. The new plant, an Ha-Maschine, is designed to produce 20 tons of sheeting each three-shift day. The total cost of the project, including expansion of existing grading and processing plants, will be in the neighborhood of 22 million schillings.

REDCO BELTING DISCONTINUED

Due to a gradual decline in sales, The Reddaway Manufacturing Company, Inc., Newark, New Jersey, has discontinued all production of transmission belting and is now devoting full-time energies to the manufacture of woven asbestos brake lining and other friction products. A new 3/8" loom and many of the looms formerly used to manufacture belting will be employed to help meet the increased demand for Redco friction materials.

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recycle wast water



The C-E Bauer Hydrasieve® screen removes grit, fibers and other suspended solids (up to 90%) from plant waste flow. "Cleaned" water can be reused. Screening improves pollution control, too!

Quiet. Efficient. Economical. Hydrasieve has no moving parts, requires no supervision. Flows from 50 GPM to over 10 MGD. Ask for Bulletin and technical data.

The Bauer Bros. Co., a subsidiary of Combustion Engineering, Inc., Springfield, Ohio 45501, and Brantford, Ontario.

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ASSOCIATION ACTIVITIES

NEW QAMA OFFICERS

Michael J. Messel, President of Lake Asbestos of Quebec, Ltd., was elected President of the Quebec Asbestos Mining Association. Other newly-elected officers for 1973 include R. S. Coleman, Vice President; G. A. McCammon, Treasurer; and Paul A. Filteau, General Manager. Directors for the current year are W. W. Oughtred, M. Dorais, J. R. M. Hutcheson and M. Prus. QAMA groups the six asbestos-producing companies in Quebec's Eastern Townships region, i.e., Asbestos Corporation, Bell Asbestos Mines, Canadian Johns-Manville, Carey-Canadian Mines, Lake Asbestos of Quebec, and National Asbestos Mines. In 1972, these firms shipped almost 1.4 million tons of Chrysotile asbestos to over 70 countries, a 2.6% increase over the level attained in 1971. Shipments this year are expected to at least equal the volume reached in 1972.

ASTM MOVES AHEAD

Evaluation of road and paving materials laboratories will be a new activity of the American Society for Testing and Materials' Committee D-4 on Road and Paving Materials. . . . ASTM will muster the resources of U.S. industry, cooperating with government, to develop safety standards that will protect consumers from unreasonably hazardous products. The Society has appropriated the necessary funds and is fully prepared to respond to the standards requirements of the Consumer Product Safety Act of 1972. The Act requires the development of safety standards within approximately 150 days after the Product Safety Commission has made a finding of need. This will require that ASTM and other standardizing agencies take a new look at their legal and administrative procedures to ensure that time can be compressed without sacrificing sound technology.

NEW LEADERS FOR FSA

Current officers of the Fluid Sealing Association include President—L. C. van Dyck, Vice President—G. K. Mordas, Legal Counsel—G. F. Nagy, and Secretary/Treasurer—B. H. Farber, Jr. Companies represented on the Board of Directors are Anchor Packing; A. W. Chesterton; Metallo Gasket; Raybestos-Manhattan; Canadian Gasket; Garlock; Parker Packing; Johns-Manville; Greene, Tweed; La Favorite Rubber; and Nicolet Industries.

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UNIROYAL

Doing Things...

...for Dryer Felt manufacturers

Dryer felts have got to be tough. So UNIROYAL developed extra tough asbestos yarns for the dryer felt industry that could be woven into felts capable of standing up under all the stresses and temperatures the users could muster.

If you're looking for an asbestos yarn engineered for stability and wear resistance, ask us for specifications. It's so good we don't call it asbestos. We call it ASBESTON®, which is another word for dependability.

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MARKET CONDITIONS

GENERAL BUSINESS

While many businesses are experiencing sharply rising sales and profits and general business is reflecting the improvement predicted for this portion of the new year, a new international monetary crisis is having a sobering effect on the business and financial communities.

The approximately 10% devaluation of the dollar on February 12 brought a temporary halt to heavy dollar sales by speculators but, less than two weeks later, increased selling drove the dollar down sharply and necessitated support by several state banks. Meanwhile the price of free gold was driven up to new highs. It has been claimed for some time that weakness in the dollar is due to the continuing imbalance in U.S. trade and lack of confidence in the ability of this country to control inflation. The trade imbalance should be subject to correction by dollar devaluation and/or by allowing foreign currencies to float in relation to the dollar. However, either course cannot produce immediate results. Assuming adequate steps are taken to alleviate the present crisis, it will be months before statistics will reflect the results.

The whole picture was further clouded by release of figures showing the retail cost of food in the U.S. had risen 2.1 percent in January, with a further substantial increase predicted for February. While ordinary inflation is only partly to blame for the rise, the figure is still disquieting at this point in time.

The Federal Reserve Board increased its discount rate by 1/2 point to 5.5% citing as reasons the rising trend of short term interest rates and the continuing international monetary crisis. Arthur Burns, Chairman of the Board, testified before the Congressional Joint Economic Committee that inflation is continuing at an unacceptable rate and that rate could be increased by excessive consumer and business buying. This could offer a further reason for the increased discount rate which, theoretically, should put a damper on an incipient boom.

The uncertainties in the economic and monetary situations have been reflected in lower stock prices. Stocks have been falling since the first of the year and analysts see no reversal of this trend until the many questions bothering investors are answered to their satisfaction.

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"The Asbestos Factbook"?

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OVER A QUARTER CENTURY OF EXPERIENCE

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CONSTRUCTION NEWS

JANUARY 1973 contracts for future construction totaled $6,794,672,000, a gain of 14% over the first month of last year. The seasonally-adjusted Dodge Index (1967=100) jumped to 181, the highest reading since last September.

The *nonresidential* building contract value of $2,419,840,000 in January is a good gauge of the improvement in economic conditions over the past twelve months. This value is 40% stronger than it was a year ago and most of the difference is due to the steady improvement in industrial and commercial building. After a two-and-a-half-year interruption, nonresidential building has fully recovered to its pre-recession level.

January is typically one of the slowest months for homebuilding due to adverse weather conditions in most parts of the U.S., but by normal standards the opening month of 1973 was a record-setter with $3,194,586,000 of new *residential* building contracted—21% more than its 1972 counterpart.

January's *nonbuilding* construction contract value, totaling $1,180,246,000, showed weakness in both private and public work. The 26% decline from a strong year-ago level was due partly to the absence of any major electric power projects and to Federal restraint on spending for highways, sewer and water facilities and other public works construction.

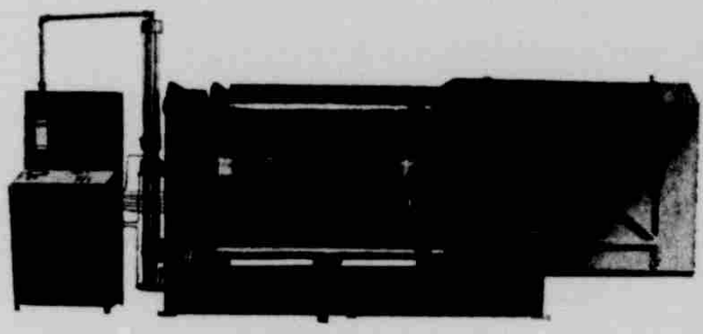
1973 F. W. Dodge Construction Outlook—The annual Dodge forecast of the construction market, initially issued last October, has been revised upward by some $3 billion dollars, bringing the total value of construction contracting anticipated in 1973 to $92 billion. The best gains will be in commercial and industrial building and in construction of electric power plants, as the business sector prepares for expansion. The construction industry will be adjusting to some major shifts in economic policy, which means that construction, usually the beneficiary of expansive fiscal and monetary conditions, will be among the first to feel the cutting edge of austerity.

MOTOR VEHICLE FACTORY SALES

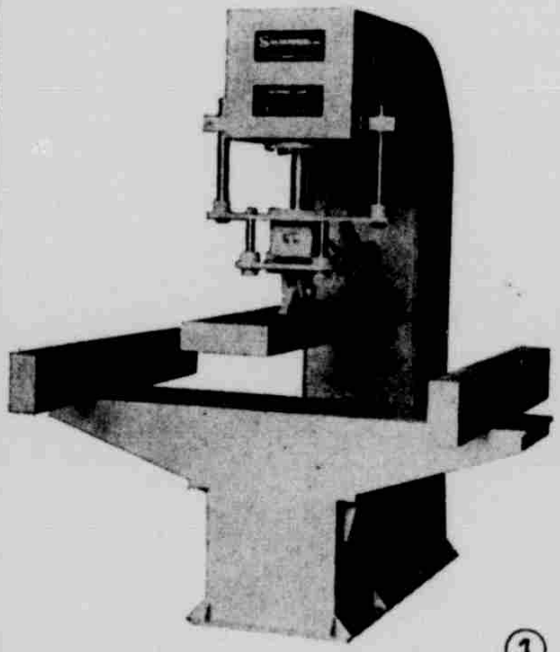
DECEMBER 1972 motor vehicle factory sales from plants in the *United States* totaled 907,629 (passenger cars—706,027; trucks and buses—201,602. The cumulative total for the YEAR 1972 was 11,270,745, compared with 10,637,738 in the previous year. . . . Motor vehicle factory sales from plants in *Canada* totaled 109,211 in December 1972. The accumulated total from January-December 1972 was 1,455,117 against 1,354,795 for the year 1971. [Motor Vehicle Manufacturers Association of the U.S., Inc., Detroit, Michigan]

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① Bending and crushing test press for sheet and pipes



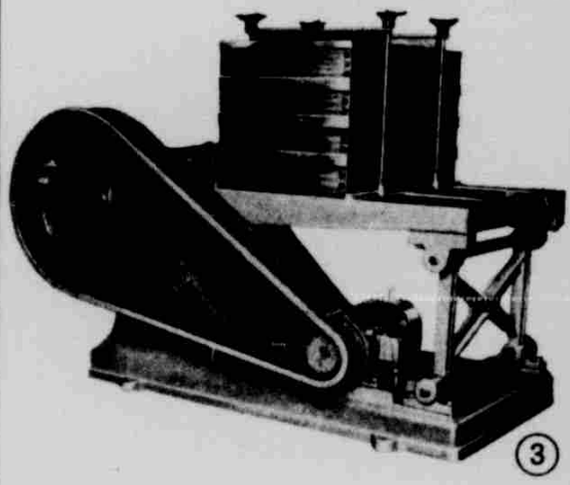
②



①

② Bursting test press for pipes

③ Classifier for testing asbestos fibres



③

Asbestos-cement testing machines designed and manufactured by:

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We welcome the challenge

The enlargement of the European Economic Community is an outstanding opportunity to further develop our service.
Closer links with our new partners will stimulate the development of even better felts for the European Asbestos-Cement Industry.
Above all, our service, reliability and repeatability will always be maintained.

L'espansione della Comunità Economica Europea rappresenta una occasione per poter incrementare ancora di più la nostra attività.
I vincoli che uniranno il nostro Paese agli altri membri della Comunitá favoriranno l'attuazione di feltri migliori di quanto non lo siano ora per l'industria europea del fibrocimento.
Ma sopratutto rimarranno inalterate la nostra assistenza, la nostra serietà e le nostre immutabili prestazioni.

Die Erweiterung der EWG bietet uns eine ausgezeichnete Gelegenheit zur Weiterentwicklung unserer Leistungen.
Eine engere Verbindung zu unseren Geschäftspartnern legt uns zur Entwicklung noch besserer Filze für die Europäischen Asbest-Zementhersteller an.
Vor allem behalten wir aber weiterhin unsere Leistungen unsere Zuverlässigkeit und Reproduzierbarkeit bei.

L'élargissement de la Communauté Economique Européenne est pour nous une occasion de première importance pour développer davantage nos services.
Des liaisons plus étroites avec nos nouveaux partenaires stimuleront le développement de cartons encore meilleurs pour les industries européennes du fibrociment.
Nous maintiendrons par-dessus tout notre service, notre qualité et la continuité de nos produits.

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Felts for the Asbestos-Cement Industry.

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PRODUCTION—IMPORTS—EXPORTS

CANADA

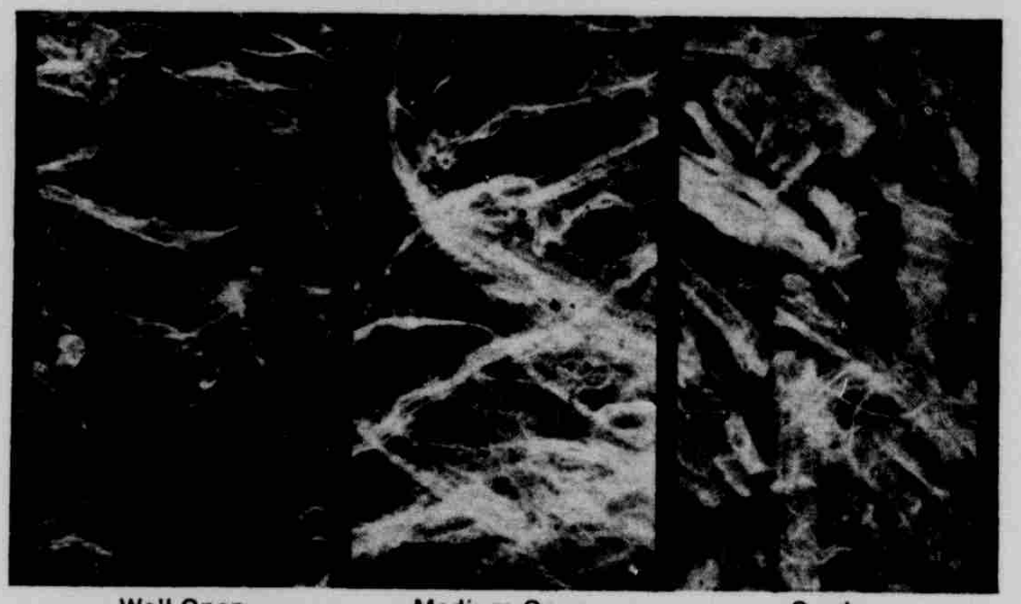
Producers' shipments of asbestos in *December 1972* totaled 146,837 short tons (125,525 tons from plants in Quebec and 21,312 tons from plants in Newfoundland, Ontario, British Columbia and the Yukon). The total for December 1971 was 168,679 tons. . . . *Year 1972* shipments reached 1,687,619 tons (1,377,797 tons from Quebec plants and 309,822 tons from operations in the other four Provinces). Comparable shipments in 1971 totaled 1,634,579 tons. . . . A breakdown of the Quebec figures for 1972 are: 21,538 tons of Crudes 1 & 2 and 3/Spinning, 322,449 tons of Group 4/Shingle, 186,521 tons of Group 5/Paper, 213,748 tons of Group 6/Stucco, 632,658 tons of Group 7/Refuse and 883 tons of Group 8/Sand. . . . Firms reporting include Advocate Mines, Asbestos Corporation, Bell Asbestos Mines, Canadian Johns-Manville, Canadian Refractories, Carey-Canadian Mines, Cassiar Asbestos, Flintkote Mines, Hedman Mines, Johns-Manville Mining & Trading, Lake Asbestos of Quebec and National Asbestos Mines. [Statistics Canada]

Canadian shipments of woven and/or needled wet felts and jackets for the *Year 1972* amounted to 1,681,571 pounds valued at $15,791,-305 to papermills in Canada and 930,026 pounds valued at $6,469,-823 to foreign papermills. Shipments to domestic papermills of woven and/or needled felts used in asbestos-cement pipe or sheet-forming operations totaled 23,368 pounds valued at $146,722. Total shipments of asbestos, cotton or synthetic papermakers' dryer felts and fabrics were 5,196,411 square feet valued at $10,856,363 to papermills in Canada and 495,956 square feet valued at $898,616 to foreign papermills. . . . These statistics are based on data from Albany Felt of Canada, Asten-Hill, Ayers, Cosmos Imperial Mills, Drytex, Kenwood Mills, Penman's, Porritts & Spencer, Scapa Dryers and Warwick-Lockport Felts. [Statistics Canada]

Production of vinyl-asbestos floor tile for the *Year 1972* totaled 197,-249,925 square feet (90,201 short tons) against *shipments* of 177,-877,296 square feet (83,849 tons). Comparable 1971 figures are 182,136,270 square feet (84,334 tons) produced and 174,774,673 square feet (80,816 tons) shipped. The reporting firms are American Biltrite Rubber, Armstrong Cork Canada, Domco Industries and Flintkote of Canada. [Statistics Canada]

Canada's Mineral Production, 1972 [Catalog 26-202; 50¢]—Based on an estimate prepared by Statistics Canada, Ottawa, the total value of shipments from Canadian mineral producers in 1972 reached an all-time high, exceeding $6.38 billion. An increase of 6.3% in the value of the non-metal group provided a gross value of $532 million. The quantity of asbestos shipped increased 3.5% to 1.7 million tons and the value was increased by 7.7% to almost $220 million. Statistical tables for 1972 (estimated) and 1971 (revised) provide a Provincial breakdown of shipments of each metal, non-metal, fuel and structural material.

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Well Open Medium Open Crudy

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IMPORTS INTO U.S.A.

Figures from U.S. Bureau of the Census

Unmanufactured Asbestos:		**OCTOBER 1972**	
Amosite, South Africa	s.tons	602	$ 104,587
Crocidolite (Blue), South Africa	s.tons	221	45,140
Chrysotile, Crudes, Canada	s.tons	20	1,158
Mozambique	s.tons	360	73,466
Rhodesia	s.tons	75	37,500
South Africa	s.tons	309	62,046
Chrysotile, Spinning Fibers, Canada	s.tons	858	407,353
Chrysotile, Other, Canada	s.tons	61,251	7,124,049
Other Crudes & Fibers, Canada	s.tons	174	26,115
Finland	s.tons	175	16,715
South Africa	s.tons	388	47,124
		64,703	$ 7,945,253
Manufactured Asbestos Goods:			
Asbestos yarn, slivers, etc.	Lb	513,329	$ 414,812
A-C pipes, tubes and fittings	Lb	1,376,112	87,872
A-C articles, other	Lb	1,814,123	293,326
Asbestos articles, other		..	150,601
			$ 973,611
Unmanufactured Asbestos:		**JANUARY-OCTOBER 1972**	
Amosite, Mozambique	s.tons	68	$ 11,829
South Africa	s.tons	6,614	1,239,438
Crocidolite (Blue), Bolivia	s.tons	29	2,966
South Africa	s.tons	3,853	850,018
Chrysotile, Crudes, Canada	s.tons	43	8,670
Mozambique	s.tons	360	73,466
Rhodesia	s.tons	180	90,300
South Africa	s.tons	2,217	512,845
Swaziland	s.tons	40	21,200
Chrysotile, Spinning Fibers, Canada	s.tons	10,002	4,597,778
South Africa	s.tons	16	7,105
Yugoslavia	s.tons	843	11,503
Chrysotile, Other, Canada	s.tons	587,903	66,253,141
Other Crudes & Fibers, Canada	s.tons	2,378	291,398
Finland	s.tons	1,809	123,059
Greece	s.tons	6	1,361
Italy	s.tons	1	1,111
Mozambique	s.tons	597	117,759
South Africa	s.tons	1,291	189,687
Switzerland	s.tons	4	1,538
Yugoslavia	s.tons	843	42,611
		619,097	$74,448,783
Manufactured Asbestos Goods:			
Asbestos yarn, slivers, etc.	Lb	3,473,618	$ 3,153,094
A-C pipes, tubes and fittings	Lb	31,188,108	1,603,066
A-C articles, other	Lb	16,659,896	2,642,982
Asbestos articles, other		..	1,889,265
			$ 9,288,407

EXPORTS FROM U.S.A.

Figures from U.S. Bureau of the Census

Unmanufactured Asbestos:		**OCTOBER 1972**	
Fibers not further processed than beaten, washed or graded to length	s.tons	1,080	$ 204,689
Waste and refuse	s.tons	3,150	459,099
		4,230	$ 663,788
Manufactured Asbestos Goods:			
A-C shingles and clapboard	Lb	1,615,500	$ 178,498
Other a-c or fiber-cement articles	Lb	2,545,153	269,795
Gaskets	Lb	68,988	80,309
Packing	Lb	357,335	595,887
Heat or sound insulation		..	75,193
Textiles and yarns	Lb	2,030,178	593,894
Protective clothing		..	39,285
Mfrs. other than friction materials		..	450,222
Cl. facings and linings for auto. use	No	80,137	84,601
Other clutch facings and linings	No	2,852	9,031
Brake linings for automotive use	Lb	468,835	297,059
Other brake linings	Lb	325,120	298,624
			$ 2,972,398

Unmanufactured Asbestos:		**JANUARY-OCTOBER 1972**	
Fibers not further processed than beaten, washed or graded to length	s.tons	18,565	$ 3,165,670
Waste and refuse	s.tons	24,893	3,204,709
		43,458	$ 6,370,379
Manufactured Asbestos Goods:			
A-C shingles and clapboard	Lb	18,540,656	$ 2,062,886
Other a-c or fiber-cement articles	Lb	17,448,295	1,838,069
Gaskets	Lb	485,352	864,770
Packing	Lb	3,726,381	5,493,981
Heat or sound insulation		..	1,427,877
Textiles and yarns	Lb	13,829,495	3,631,593
Protective clothing		..	249,431
Mfrs. other than friction materials		..	3,852,746
Cl. facings and linings for auto. use	No	1,505,240	1,222,480
Other clutch facings and linings	No	746,815	362,762
Brake linings for automotive use	Lb	5,183,983	3,699,281
Other brake linings	Lb	2,304,614	1,939,875
			$26,645,751

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EXPORTS FROM CANADA

Figures from Statistics Canada

OCTOBER 1972

Unmanufactured Asbestos:	*Crude*	*Milled Gp 3*	*Milled Gp 4&5*	*Shorts Gp 6-9*
				Short Tons
Western Europe	..	712	42,982	16,982
Eastern Europe	..	..	1,450	429
Middle East	..	..	2,447	1,479
Africa	..	110	2,616	308
Asia	5	237	10,576	9,932
Oceania	..	..	3,480	1,330
So. & Cen. America & Antilles	..	127	8,838	2,871
United States	..	1,020	18,867	44,352
	5	2,206	91,256	77,683

The total amount of unmanufactured asbestos exported in *October 1972* was 171,150 short tons, valued at $25,294,000.

Manufactured Asbestos Goods:

Brake linings and facings	$ 157,000
Asbestos-cement building materials	151,000
Other basic products	215,000
	$ 523,000

JANUARY-OCTOBER 1972

Unmanufactured Asbestos:	*Crude*	*Milled Gp 3*	*Milled Gp 4&5*	*Shorts Gp 6-9*
Western Europe	17	7,800	218,226	119,108
Eastern Europe	..	709	20,629	1,348
Middle East	..	72	15,965	6,039
Africa	..	110	8,927	2,109
Asia	10	2,578	67,453	83,698
Oceania	..	56	39,292	9,954
So. & Cen. America & Antilles	..	671	64,400	24,243
United States	16	12,043	166,739	423,864
	43	24,039	601,631	670,363

The total amount of unmanufactured asbestos exported in *January-October 1972* was 1,296,076 short tons, valued at $186,345,000.

Manufactured Asbestos Goods:

Brake linings and facings	$ 708,000
Asbestos-cement building materials	1,827,000
Other basic products	2,006,000
	$ 4,541,000

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ABITIBI PROGRESSING

Abitibi Asbestos Mining Co. Ltd. is making great strides toward putting its asbestos property into production, possibly before the 1975 target date. The mine site is located at Maizerets Township, about 100 miles north of Val d'Or, Quebec. Brinco Ltd. holds 18% interest in Abitibi and has the option to increase this to 51% when the decision is made to put the mine into full-scale production at an estimated cost of $60 million.

The 105-million-ton A zone lies in the nose of an anticline in a body of serpentinite. The ore dips south at an average of 45° and plunges west at about 35°. At bedrock surface the deposit is 2400 feet long and has an average true width of 500 feet. Engineering studies show the ore-to-waste ratio for the entire planned open pit will be 1:1.7, although no waste is expected for the first five years of mining. A feasibility study made by Kilborn Engineering Ltd. indicates the deposit could support a 13,000-ton-per-day mill, which would produce about 160,000 tons of fiber per year from four million tons of ore, for a mine life of 25 years. Fiber content of the ore runs about 4% and falls in Grades 4, 5 and 6.

Four miles southeast of the A zone, assays from hole B-1-1 give an average of $6.89 per ton in recoverable fiber in the 817-foot section. This is believed to represent a true width of 700 feet. A good deal of importance is attached to this find as it lies within the same 14-mile-long body of peridotite as the A zone and shows up as a magnetic anomaly of about the same size and strength as the one over the A zone. Abitibi holds 7000 contiguous acres in all, taking in the main zone and the other exploration possibilities to the southeast.

The mining company has another asbestos find near Timmins, Ontario, in McArthur Township, where a trench 130 feet long has cut rock containing 10% fiber in grades 5, 6 and 7. Abitibi has added 50 claims to its holdings there and plans to do geophysics and probably drilling in the spring.

Also, Abitibi has a 20% interest in ground optioned to Placer Development Ltd. at Frotet Lake. Placer is reported to have done geophysics and come up with many anomalies. [Northern Miner]

CELTIC FINANCING

Celtic Minerals Ltd. has made a public offering of 200,000 shares with warrants attached to raise $100,000 to finance the start of a proposed $112,800 two-phase program on its asbestos property at Cleveland Township, Richmond County, Quebec, 100 miles southeast of Montreal.

Diamond drilling completed during 1972 and to mid-February 1973 outlined an asbestos fiber zone extending 2800 feet south from the property of Pathfinder Resources Ltd. as an extension of its B zone. Hole No. 17, about 1200 feet east of this area, penetrated significant amounts of asbestos fiber, which may represent the southern extension of the Pathfinder A zone. W. G. Stevenson, Consulting Geologist, recommended that Celtic establish liaison with Pathfinder for land surveys, feasibility and marketing studies. [Northern Miner]

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CYPRUS ANNUAL REPORT 1971

According to the Annual Report of the Senior Mines Officer, Nicosia, Cyprus, 811,517 tons of mineral products, valued at £9,734,-639, were exported during 1971, compared with 1,049,538 tons, valued at £14,007,661, in 1970. Exports of mineral products represented about 23% of the total value of domestic exports of the island compared with 35% in 1970, 33% in 1969 and 35% in 1968. Direct revenue from mining operations amounted to £256,066 against £335,875 in 1970, but the industry's main contribution is in the form of taxation on company profits. Asbestos producers pay royalties at the rate of 3% of value. Five asbestos prospecting permits were in force at the close of 1971, covering an area of five square miles. During the year under review, the Geological Survey Department drilled eleven holes totaling 4366 feet on payment, for Cyprus Asbestos Mines Ltd. and no exploration work was carried out for Cytechno Ltd.

Operations continued smoothly throughout the year for Cyprus Asbestos Mines. Skilled labor was scarce but there was sufficient unskilled labor available for the needs of the company. During 1971, 3,883,400 tons of rock were quarried, compared with 4.2 million tons in 1970. One mill was in operation which treated 1,915,880 tons of raw material and produced 15,724 tons of fiber of long grades and 11,535 tons of short grade fiber. Held in stock at year-end were 5436 tons of long grade fiber and 3241 tons of short grade fiber. Shipments were valued at £1,363,233 and quantities exported included 14,401 tons of 3S, 11,494 tons of HSH, 125 tons of 6F and 7 tons of P50. Expenditures on plant machinery and equipment amounted to £93,710. The asbestos-cement factory at Moni utilized 206 tons of asbestos to produce 74.2 tons of flat sheets, 1269.3 tons of corrugated sheets and 257.4 tons of molded goods.

NEWS ABOUT ASBESTOS STANDARDS

ASTM C 659 72—Specification for Asbestos-Cement Plastic-Foam Core Insulating Panels. [Revision of Standard; Published December 1972; Reference Part 12, 1973]

ASTM D 1573 61 (1971)—Method of Test for Heat Aging of Asbestos Textiles. [Intent to Withdraw; Approved July 28, 1972; Reference Part 25, 1972]

Canadian Standard 34 GP 9d—Asbestos-Cement Sewer Pipe; applies to non-pressure pipe suitable for conveying sanitary sewage in gravity-flow systems. [Canadian Government Specifications Board]

Canadian Standard 34 GP 23—Asbestos-Cement Sewer Pipe for House Connection; applies to small-diameter, standard-duty, non-pressure pipe suitable as building sewer pipe and as drain pipe buried under floor. [Canadian Government Specifications Board]

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MINERAL FACTS & PROBLEMS, 1970 EDITION

Part 24: Problems

One of the most serious problems confronting the U.S. consuming industry is its dependence for the greater part of its supply of asbestos on foreign sources. Almost 85% of the supply of Chrysotile and all of the Amosite and Crocidolite are imported. Complete dependence upon foreign supply for strategic grades is minimized by adequate stockpiles but imposes long-term concern.

Adequate information on the methods of mining and processing of asbestos and development of equipment is available but cost data are lacking. Information is available on the principal end products in which asbestos is utilized but there is no information on the wastage that takes place in the manufacturing process.

To fully appraise the current future supply situation of asbestos, information is needed on stocks and consumption. Presently, data on consumption and stocks are available on stockpile grades only. Information on the quantities of asbestos going into the various individual end uses is not satisfactory and the estimates are made on the basis of insufficient data. This illustrates the need for an occasional canvass of the principal industries in order to establish the quantitative end use consumption pattern.

[This is the 24th and final excerpt from "Mineral Facts and Problems" to be printed in ASBESTOS. Prior excerpts may be reviewed in past issues of this magazine. Clothbound copies of the entire 1970 Edition of "Mineral Facts and Problems" are available at $10.75 per copy from: Manager, Public Documents Distribution Center, 5801 Tabor Avenue, Philadelphia, Pennsylvania 19120. Orders should specify both Stock No. 2404-0665 and Catalog No. 128.3:650. Please do not place orders through this journal.]

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ASBESTOS STOCK QUOTATIONS

Close—February 20, 1973

Abitibi Asbestos	*$2.40
Advocate Mines	*$1.29
Allied Mining	*$3.35
Asarco	21½
Armstrong Cork	27⅞
Armst Cork (pfd 3.75)	56
Asbestos Corporation	*$19.25
Bendix	43⅝
Bendix (pfd 3)	66½
Carlisle	22¾
Cassiar Asbestos	*$13.50
Cerro Corporation	16¼
Certain-teed Products	16⅝
Charter Consolidated	**233
Conwest	*$6.90
Flintkote	21½
F-kote (pfd-A 4.50)	69
F-kote (pfd-B 2.25)	37⅞
GAF Corporation	16⅜
GAF (pfd 1.20)	23
Garlock	17
Grace	25⅞
Gulf & Western	27⅜
G&W (wt)	7⅞
G&W (pfd 3.50)	115¼
G&W (pfd 3.87)	58⅛
G&W (pfd 5.75)	77¼
Illinois Central	24⅞
Ill. Central (pfd A-6)	110½
Illinois Central (pfd 3.50)	50⅜
Jim Walter Corporation	24⅞
Jim Walter (pfd 1.60	31⅛
Jim Walter (pfd 1)	13⅛
Johns-Manville	24¾
Kennecott Copper	27¼
Maremont	41
McAdam Mining	*$.42
National Gypsum	16¼
Pathfinder	*$.62
Porter (pfd 5.50)	82
Raybestos-Manhattan	27¾
Rio Algom Mines	*$24.00
Royal Industries	9¼
Unarco	10⅛
Union Carbide	46⅜
Uniroyal	13⅝
Uniroyal (pfd 8)	105
United Asbestos	3-9/16
Woodsreef Mines	*$.68

***Canadian Currency**
****London—in pence**
wt—when traded
Sources: The Wall Street Journal & The Northern Miner

TRADE/INVESTMENT OPPORTUNITIES

India—firm desires direct purchase or sale of asbestos fiber Grades 3T and 3R for spinning yarn; annual requirements approximately 60 metric tons. [G K Industries, 2423 Shardhanand Marg, Surekha Building, Delhi.-6]

Korea—manufacturer seeks agency agreement re mixer, forming machine, corrugator, press, sheet separator and other asbestos-cement sheet manufacturing equipment for corrugating sheet or flexible flat board. [Miyowng Co., Ltd., 5th Floor, Samil Building, 16, Iaka, Ulchiro, Chung-ku, Seoul 100]

Germany—company interested in sale or purchase of asbestos felts, asbestos-cement shingles and roofing products, asphalt floor tile and insulation materials. [MS-Handel Manfred Schierling, Schwarze Strasse 13, 43 Essen]

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BIRTHDAY GREETINGS to . . .

Stuart Charbula, Executive Assistant to the President, Hedman Mines Ltd., Timmins, Ontario, April 8.

Ernest S. Sprinkmann, Jr., Executive Vice President, Sprinkmann Sons Corporation, Milwaukee, Wisconsin, April 8.

Raymond J. Sachs, President, Porter-Hayden Company, Baltimore, Maryland, April 10.

J. C. Veltmeyer, Plant Superintendent, Cassiar Mine, Cassiar Asbestos Corporation Ltd., Cassiar, British Columbia, April 10.

G. L. Kingston, Plant Superintendent, Clinton Mine, Cassiar Asbestos Corporation Ltd., Yukon Territory, April 11.

Henry B. Moreno, Vice President, Industrial Divisions, Johns-Manville Corporation, Denver, Colorado, April 11.

W. E. Royds, General Superintendent, Transport Division, Cassiar Asbestos Corporation Ltd., Whitehorse, Yukon Territory, April 11.

M. De Rouin, Production Superintendent, Clinton Mine, Cassiar Asbestos Corporation Ltd., Clinton Creek, Yukon Territory, April 13.

P. H. Riordon, President, Minorex Ltd., wholly-owned subsidiary of Asbestos Corporation Ltd., Vancouver, British Columbia, April 13.

J. Vermeer, Managing Director, Chemische Productenhandel J. J. van de Vrande, Haarlem, The Netherlands, April 13.

H. D. S. Hardie, Director, Turner & Newall Ltd., Manchester, Lancashire, England, April 15.

Arch. Mackintosh, Managing Director, Wunderlich Ltd., Sydney, N.S.W., Australia, April 15.

Harold U. Zerbe, Director, Hedman Mines Ltd., Bethlehem, Pennsylvania, April 15.

Philip A. Meyer, Consultant, Nicolet Industries, Inc., Short Hills, New Jersey, April 16.

Wesley E. Gatewood, President, Pipe & Plastics Group, and Vice President, Certain-teed Products Corporation, Valley Forge, Pennsylvania, April 17.

G. A. Higham, Managing Director, The Cape Asbestos Co. Ltd., London, England, April 17.

Henry E. Sporrer, Production Manager A.C., Wunderlich Ltd., Sydney, N.S.W., Australia, April 17.

Robert A. Matthews, Vice President, Supradur Manufacturing Corporation, Kalamazoo, Michigan, April 18.

S. P. Milburn, Managing Director, Ferodo Italiana S.p.A., Mondovi, Italy, April 18.

Henry A. Berg, Manager, Engineering Fiber Processes, National Gypsum Company, Buffalo, New York, April 21.

M. T. Voiles, Manager, Supradur Manufacturing Corporation, Wind Gap, Pennsylvania, April 21.

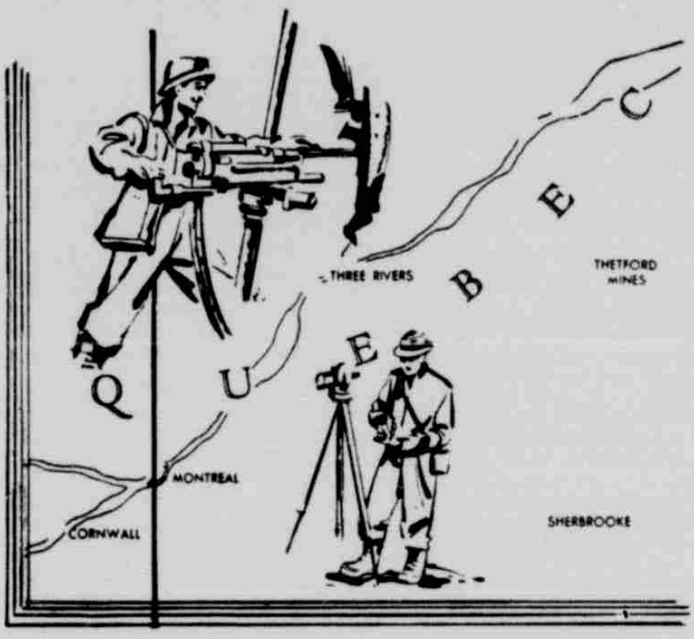
F. E. Thurston, Vice President-Northern Operations, Asbestos Corporation Ltd., Montreal, Quebec, April 23.

William T. Cavanaugh, Managing Director, American Society for Testing and Materials, Philadelphia, Pennsylvania, April 24.

Joseph G. Hall, Group Vice President for Building and Industrial

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Products, GAF Corporation, New York City, April 24.
R. D. Armstrong, President, Rio Algom Mines Ltd., Toronto, Ontario, April 25.
P. W. C. Griffith, Joint Managing Director, Turner & Newall Ltd., Manchester, Lancashire, England, April 26.
W. Lindsay Wylie, Managing Director, Uniroyal Ltd.-United Kingdom, New York City, April 26.
J. Carroll Johnston, President, Atlas Asbestos Company, North Wales, Pennsylvania, April 28.
W. Jerry Rooney, Marketing Manager, Gasketing Division, Nicolet Industries, Inc., Ambler, Pennsylvania, April 28.
Richard H. Jaffer, President, York Insulation Company, Inc., Hillside, New Jersey, May 1.
R. L. Hennebach, President, American Smelting and Refining Company, New York City, May 2.
Herbert L. Abrons, Corporate Secretary & Counsel, GAF Corporation, New York City, May 4.
Guy G. Gabrielson, Jr., President, Nicolet Industries, Inc., Ambler, Pennsylvania, May 4.
E. C. Hildebrandt, Secretary, MacArthur Company, St. Paul, Minnesota, May 4.
Hans Thoeni, Managing Director, Everite Ltd., Braamfontein, Johannesburg, South Africa, May 4.
W. S. Cowell, Chairman, Albion Asbestos Packings Ltd., Montreal, Québec, May 5.
J. Randall Plummer, General Manager, Pars Manufacturing Company, Ambler, Pennsylvania, May 6.

R. D. BRADFORD—Deceased

Robert D. Bradford, a former President of American Smelting and Refining Company, died February 25, 1973, at Greenwich, Connecticut. He was 69.

Mr. Bradford retired in 1969 after 43 years of service with Asarco. He joined the firm as a metallurgist in 1926 and subsequently was Manager of several Asarco metal processing plants and General Manager of the company's Western smelting and refining operations. In 1952 he was elected Vice President and was transferred from Salt Lake City, Utah, to Asarco's New York City headquarters. He served as head of the Federated Metals Division and as President of Lake Asbestos of Quebec Ltd., a subsidiary of American Smelting. He became Executive Vice President of Asarco in 1959 and was elected President in 1963. He also was a Director of Asarco, of General Cable Corporation and of Revere Copper and Brass, Inc.

A native of Salt Lake City, Mr. Bradford earned a B.S. and an M.S. in mining and metallurgy from the University of Utah. He was a member of many clubs and professional societies as well as of the American Institute of Mining, Metallurgical and Petroleum Engineers; the Canadian Institute of Mining and Metallurgy; the Scientific Research Society; and the Asbestos Manufacturers Association.

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ASBESTOS FIBRES

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MEN ON THE MOVE

CAPE ASBESTOS GROUP

In conformity with plans for future growth and development, the following appointments were made by Cape Insulation Ltd., Stirling, Scotland. *E. Gaskell* was named Deputy Chairman, responsible for strategic long-term planning. *J. L. Geddes* became Managing Director, in Mr. Gaskell's stead. Other appointments include *W. Benns* as Technical Director and Works Manager, *D. M. Creighton* as Production Director and *J. Whitehead* as Sales and Marketing Director.

CAREY-CANADIAN MINES, LTD.

Fred W. Evinger retired in December 1972 as Mid-West Manager for Carey-Canadian Mines. His replacement, as of January 1, 1973, is *Joseph A. Munder, Jr.*

GAF CORPORATION

John J. Butler was elected a Vice President, responsible for domestic marketing, manufacturing functions and development of the Building Products Division. He will continue as General Manager of the Division.

JOHNS-MANVILLE CORPORATION

F. J. "Jack" Solon, Jr., has been appointed Vice President of the newly-established Environmental Affairs Department and will have the responsibility of providing information and guidance on environmental matters to stockholders, customers and company employees. The new Department also will fill an increasing need for development of relationships with government agencies, with the scientific community and with health organizations throughout the world. Mr. Solon had been Vice President-Corporate Relations since 1970.

NATIONAL GYPSUM COMPANY

Colon Brown, Chairman and Chief Executive Officer, has assumed the additional duties of President and Chief Operating Officer for National Gypsum. *Darwin D. Tucker*, who had been President and Chief Operating Officer since March 1971, said his employment contract, which had run until 1980, had been terminated. Also, Mr. Tucker resigned as a Director, a position he had held since 1969.

NICOLET INDUSTRIES, INC.

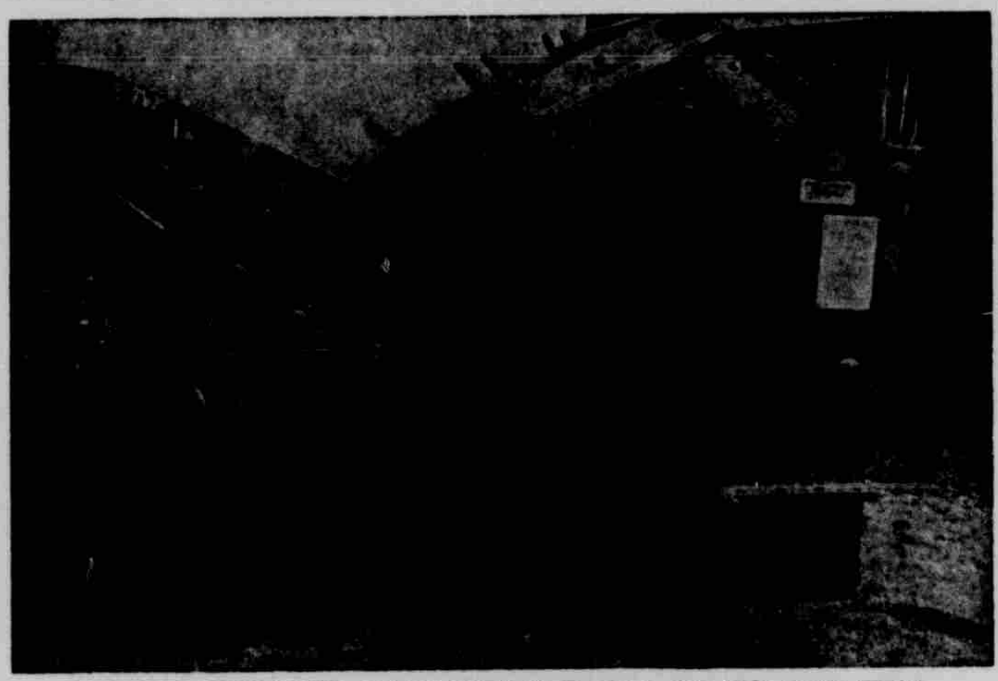
The new Marketing Manager for the Gasketing Division is *W. Jerry Rooney*, formerly Vice President-Sales at Garlock, Inc. Other experience includes National Sales Manager for Greene, Tweed & Company and Vice President and General Manager with Belmont Packing & Rubber Company. The Gasketing Division of Nicolet produces compressed asbestos sheet, beater-saturated sheet, packing and materials combining various elastomers with asbestos.

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REPORTS/MAPS/ARTICLES

Hearing Conservation for the Mineral Industry—contains guidelines to aid mine and mill operators in setting up programs to protect workers from hearing loss; describes the hearing process, how noise can damage it and problems associated with measuring sound intensity and hearing loss; gives background on the industrial noise problem and reviews the legal and legislative history of compensation for hearing loss. [Information Circular 8564; Free of Charge; Publications Distribution Section, U.S. Bureau of Mines, 4800 Forbes Avenue, Pittsburgh, Pennsylvania 15213]

Systematic Control of Nonmetallic Materials for Improved Fire Safety—systematic approach to the complex problem of making a product or an area fire-safe; the problem has many interactive variables such as flammable nonmetallic materials, ignition sources, oxygen-rich atmospheres, fire detection and fire extinguishment. [NASA SP-5109; Stock Number 3300-0442; 45¢; Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402]

U.S. Technical Documents—reports available from the National Technical Information Service, 5285 Port Royal Road, Springfield, Virginia 22151 [cost per paper copy is indicated at the end of each title; microfiche of each report costs 95¢ per reproduction]: Fibrous Composites, Academy of Sciences of the Ukrainian SSR [N72 14586; $6.00]; Evaluating Adhesives for Building Construction, Forest Products Laboratory, Madison, Wisconsin [AD 742 612; $3.00]; Handbook of Phase Diagrams of Silicate Systems, Volume I—Binary Systems, Academy of Sciences of the USSR [TT 71 50040; $9.00]; Bibliography of Articles and Reports on Mineral-Separation Techniques, Processes and Applications, Manned Spacecraft Center, Houston, Texas [N72 13419; $3.00].

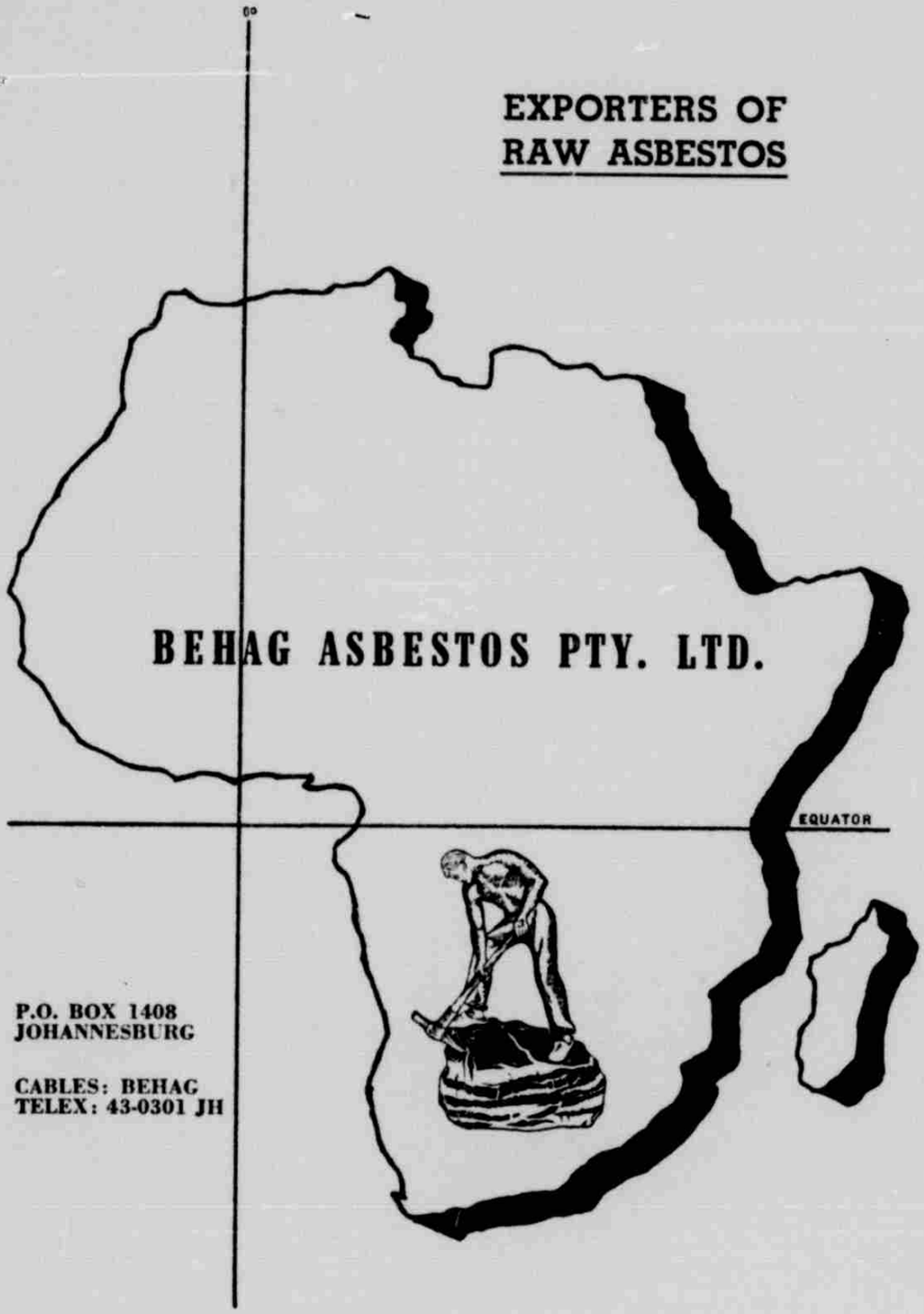
Maps of the Eagle Quadrangle, Alaska—set of two maps [MF-356; 50¢ per set; by H. L. Foster and M. E. Yount] showing distribution of anomalous amounts of selected elements in stream-sediment and rock samples in the Eagle Quadrangle, Alaska; and preliminary geologic map [MF-358; 50¢; compiled by H. L. Foster] of the Eagle Quadrangle, Alaska. [Distribution Section, U.S. Geological Survey, Denver Federal Center, Building 41, Denver, Colorado 80225]

Principal Mineral Areas of Canada—22nd edition, 1972, of Mineral Map 900-A; issued by the Department of Energy, Mines and Resources, Ottawa, Ontario. [Free of Charge; Folded or Flat; from Surveys and Mapping Branch, 615 Booth Street, Ottawa, or Mineral Resources Branch, No. 8 Temporary Building, Ottawa]

Articles Written in Russian—"Technical Rearmament of the Asbestos Industry," by R. Y. Titarenko and G. T. Shestakov, and "Shrinkage of Asbestos Cement in the Process of Hardening," by S. B. Volkova and T. M. Berkevich. [July 1972 "Construction Materials"; available on loan basis from ASBESTOS]

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NEW ASBESTOS PATENTS

U.S. patents may be purchased from The Commissioner of Patents, Washington, D.C. 20231, for 50c each. Photoprints of non-U.S. patents may be purchased from the same source at a cost of 30c per page. Remittances should be in coin, currency or check and the number of the patent, name of the inventor and date of issue should be given.

British 1,287,817—disc brakes, internal shoe drum brakes or the like are formed from a proportioned mixture of asbestos, barite, nickel, brass powder, phenolic resin, graphite and sulfur; when the shapes are heated the nickel and sulfur react in-situ to form nickel sulfide; J. B. Lumb & M. Edwards; assigned to BBA Group Ltd., September 6, 1972; 4 pages.

British 1,289,465—a fire-resistant laminated wood body consists of a core of pulverulent material obtained from the grinding or sanding of fire-resistant chipboard and surface layers comprising a mixture of such material, asbestos and boric acid; the surface layers are glued to the core; A. Moralt; September 20, 1972; 3 pages.

Canadian 909,198—a smooth, stable grease having a high dropping point consists of a major amount of a mineral lubricating oil and minor amounts of pulverized talc and a colloidal asbestos having a fiber diameter of from 1 to 80 millimicrons and a fiber length of from 2,000 to 30,000 millimicrons; A. J. Morway & A. J. Bodner; assigned to Esso Research & Engineering Co., September 5, 1972; 16 pages.

German Offen. 2,150,845—improved brake linings for use under high temperature conditions are formed from a mixture of 52-80% by weight of asbestos, 10-30% of novolac resin, 1-3% of hexamethylene etramine, 5-20% of kaolin, 0-55% of glass fibers, 0-12% of waste rubber crumb, and 0-10% of graphite; O. P. Sulea, I. Staicu, F. Ionovics, A. Purcel, I. Vlad, G. Ploca & P. E. Romak; assigned to Combinatul de Industrie Locala-Timisoara, April 27, 1972; 8 pages.

German Offen. 2,156,931—non-woven fibrous plastics are produced by precipitating a thermoplastic resin on asbestos fibers in an aqueous dispersion, dewatering the dispersion of coated fibers, and drying the dewatered mat; Y. Fleurquin & M. N. Nyes; assigned to Produits Chimiques Pechiney, S.A., May 31, 1972; 17 pages.

German Offen. 2,161,436—In the manufacture of fire-resistant asbestos board, a mat of asbestos is treated with a complex aluminum phosphate, the mat pressed, and the pressed mat heated to deposit the phosphate from solution and form a board that will take nails and screws; J. D. Birchall & J. E. Cassidy; assigned to Imperial Chemical Industries Ltd., June 22, 1972; 14 pages.

U.S. 3,689,430—in the production of a surface-modified, disoriented, disaggregated asbestos for use in organic solvent dispersions, Chry-

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sotile asbestos is contacted with lithium chloride or calcium chloride in an aqueous system to replace with halide ions the magnesium ions on the surfaces of the fibers; P. C. Yates, assigned to E. I. duPont de Nemours & Co., Inc., September 5, 1972; 5 pages.

U.S. 3,692,509—a millboard suitable for forming lehr rolls for supporting and moving hot glass is made from a mixture of 15-25% by weight of Chrysotile asbestos, 40-50% of Anthophyllite asbestos, 0-25% of Amosite asbestos, 5-9% of high-calcium line, 3-7% of colloidal silica and 3-5% of bentonite; R. C. Breiner; assigned to Nicolet Industries, Inc., September 19, 1972; 3 pages.

U.S. 3,692,682—a container or casing for explosives or other combustible products is made by shaping and hardening a mixture of (1) a water-extended polyester, (2) powdered or fibrous asbestos or powdered glass, and optionally (3) a catalyst, (4) an inhibitor, and (5) cobalt; C. Re, E. O. Conrad & J. R. Conrad; assigned to Dyna-Shield, Inc., September 19, 1972; 3 pages.

U.S. 3,692,700—a catalyst for cracking hydrocarbons at temperatures of 400-650°C. comprises either (1) natural magnesium Chrysotile asbestos in flakes of optimum surface area, or (2) magnesium, nickel or cobalt Chrysotile in which is incorporated aluminum-substituted Chrysotile and the whole of which fiber matrix has sufficient Bronsted acidity to improve the total cracking activity of the composite; W. H. Sawyer & H. E. Robson; assigned to Esso Research & Engineering Co., September 19, 1972; 11 pages.

U.S. 3,694,304—improved compressed sheet packings or gasket materials are produced by pressure rolling a mixture of 50-75% by weight of asbestos, 10-50% of diatomite, 3-25% of hydrated calcium silicate of low bulk density, 13-35% of rubber, and 2-15% of rubber compounding ingredients; H. J. Palumbo; assigned to Johns-Manville Corporation, September 26, 1972; 4 pages.

U.S. 3,694,306—a vapor barrier roofing unit on which a built-up roof can be constructed is made by adhering a layer of asphalt-impregnated asbestos felt to a metal roof deck and then applying a layer of noncombustible insulating boards to the asbestos felt by mopping asphalt; R. L. Fricklas; September 26, 1972; 4 pages.

PATENTS READY FOR LICENSING

The U.S. Department of Commerce currently has custody of some 250 active patents which are available for licensing to private industry. Most of the patents cover inventions developed at the National Bureau of Standards and the Bureau encourages use of its achievements for public benefit.

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CALENDAR OF EVENTS

CONTRIBUTIONS OF BASIC HEAT TRANSMISSION MEASUREMENTS TO THE DESIGN & BEHAVIOR OF THERMAL INSULATION SYSTEMS—Symposium sponsored by ASTM Committee C-16 on Thermal and Cryogenic Insulating Materials; American Society of Testing and Materials, Philadelphia, Pennsylvania; *April 16-17.*

COMPUTER APPLICATIONS IN THE MINERAL INDUSTRY—11th Symposium organized by the University of Arizona, Tucson, Arizona; *April 16-20.*

ASTM COMMITTEE MEETINGS—F-6 on Resilient Floor Coverings, National Bureau of Standards, Gaithersburg, Maryland, *April 23-25;* F-3 on Gaskets, Holiday Inn-Downtown, St. Louis, Missouri, *April 25-27;* E-18 on Sensory Evaluation of Materials and Products, Hilton Hotel, Pittsburgh, Pennsylvania, *May 2-4;* E-33 on Environmental Acoustics, St. Paul Hilton, St. Paul, Minnesota, *May 14-16;* E-14 on Mass Spectrometry, Sheraton Palace, San Francisco, California, *May 20-25.*

UNIVERSITY OF WISCONSIN-EXTENSION—Courses scheduled in *May* at the Madison campus unless otherwise noted: Computer-Aided Automation/Evolution of the Automatic Factory (Milwaukee), *1-2;* Design of Optical Systems, *7-11;* Product Liability/Design and Product Safety, *17-18;* Minicomputers in Instrumentation and Control, *21-25;* Control Computers, *21-25;* Material Failure/Analysis and Prevention, *24-25.*

BUILDING CODES & STANDARDS—6th Annual National Conference of States; Hotel Sonesta, Hartford, Connecticut; *May 6-11.*

NOISE AS A PUBLIC HEALTH PROBLEM—International Congress sponsored by the U.S. Environmental Protection Agency and conducted by the Yugoslav Medical Association and the American Speech and Hearing Association; Dubrovnik, Yugoslavia; *May 13-18.*

NFPA ANNUAL MEETING & FIRE SAFETY EXHIBIT—Sponsored by the National Fire Protection Association; Chase Park Plaza, St. Louis, Missouri; *May 13-18.*

POLLUTION CONTROL SHOW—Automotive Building, Exhibition Park, Toronto, Ontario; *May 15-17.*

INSTITUTION OF MINING & METALLURGY—Annual General Meeting; to be held at the Chemical Society, London, England; *May 17.*

19TH NATIONAL INSTRUMENTATION SYMPOSIUM—Instrument Society of America; Frontier Hotel, Las Vegas, Nevada; *May 21-23.*

UNIVERSITY OF MISSOURI-ROLLA—Courses scheduled by the Extension Division at Rolla, Missouri: Water Pollution Control/Waste Treatment and Disposal, *May 21-25;* Modern Techniques in Process Design, *May 21-26.*

PEECON '73—Pollution Engineering and Equipment Exposition and Conference; New York Hilton, New York City; *May 22-24.*

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The Greeks didn't have a word for it.

The ancient Greeks called asbestos 'unquenchable'. Not, perhaps, the most apt of descriptions. 'Incomparable' might have been better.

Strangely enough, they don't seem to have had a single all-embracing word for 'one of the leading producers of asbestos textiles in the world who know their subject inside out and who are ready at the drop of a hint to advise on any aspect of asbestos in any of its many applications'.

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Remember When?

(March 1923 ASBESTOS)

New Advertisers:
American Insulation Co.
Lindsay Asbestos Products Co.

A lead article in this issue covered the "Development and Growth of the Rhodesian Asbestos Industry" from first production and sale in 1908 of some 55 tons to the 1921 total of over 19,000 tons. This short history was further embellished by a report on all the then operating asbestos fields of Africa, written by an American who had recently visited most of the operating mines and mills.

Production of passenger cars by U.S. manufacturers for the year 1922 was reported as 2,334,790. Orders on the books were of such magnitude that manufacturers decided not to close down for their annual inventory in January 1923.

Asbestos Limited, of Bound Brook, New Jersey, started preparing and selling a grade of asbestos spinning fiber which tested 16 ounces on the first and second screens of the Standard Testing Machine. This resulted in no loss of preparation by the spinner and elimination of short fibers and dust in the textile mills.

The Asbestos Brake Lining Association adopted as a slogan "Brake Inspection—Your Protection." Members intended to use this in their individual advertising campaigns and on their stationery.

The Johns-Manville Company acquired the residence of Mrs. William G. Rockefeller, 292 Madison Avenue, New York City, bringing J-M's holdings in the area to a total of 95 feet on Madison Avenue and 96 feet on 41st Street. (J-M's headquarters building was later erected on this site.)

Mikesell Brothers Company announced the election of Edward S. Davis, a wealthy Chicagoan, as Vice President.

W. A. Godfrey, Manager and Secretary of The Cape Asbestos Co. Ltd., reported at length on his recent visit to Capamianto, South Africa, Cape's branch factory at Turin, Italy. He commented specifically on an apparently healthier industrial climate since the rise of Benito Mussolini to power.

At the risk of being considered immodest . . .

Asbestos people have told us that we've had no small part in up-grading the image of asbestos-cement. It was necessary!

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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.
Kansas 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.
Portland, Durkin Chemicals, Inc.
Seattle, Durkin Chemicals, Inc.
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.

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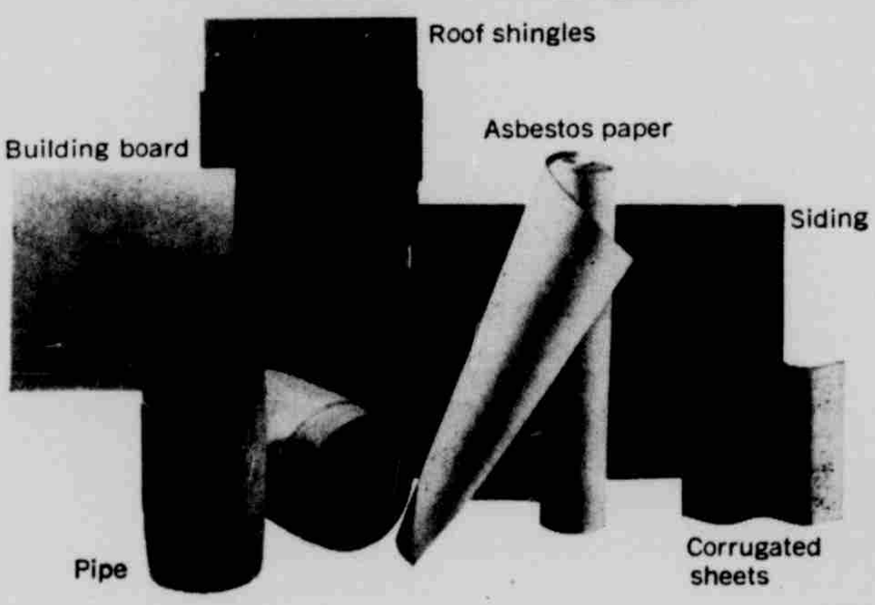
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