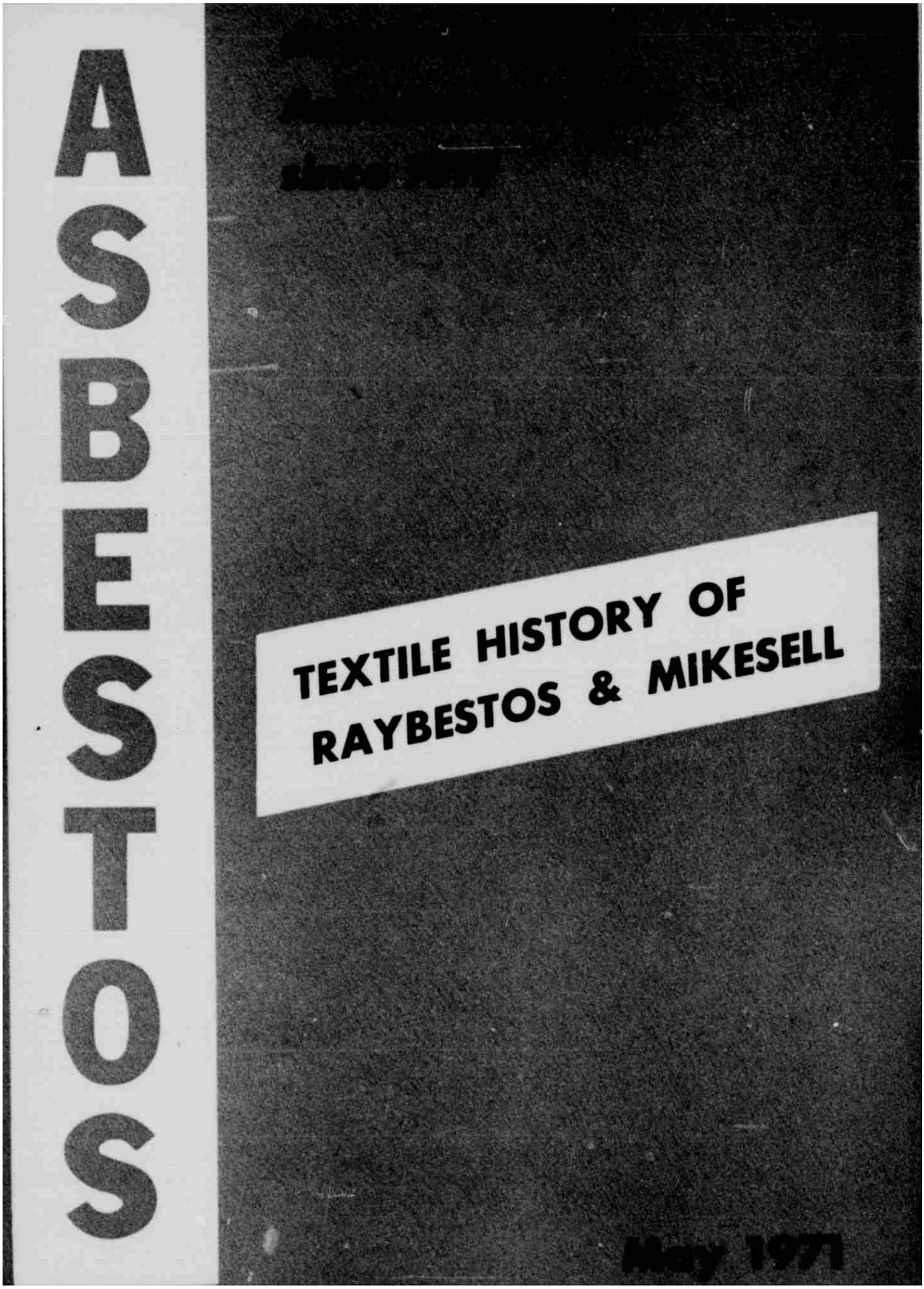
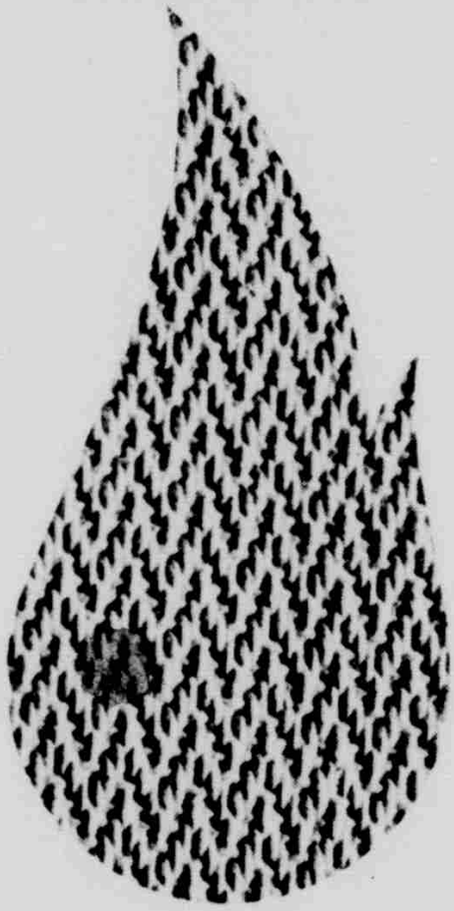


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ASBESTOS TEXTILE DIVISION BRIDGEPORT CONN 06603

ASBESTOS

VOLUME 52 MAY 1971 NUMBER 11

FOUNDED JULY 1919 AND PUBLISHED MONTHLY SINCE THAT DATE

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THE HISTORY OF THE ASBESTOS TEXTILE INDUSTRY IN THE UNITED STATES

Chapter VIII: The Raybestos Company (now a division of Raybestos-Manhattan, Inc.)

By: John A. Bettes, Jr.

As edited by the Staff of ASBESTOS

In writing the history of asbestos textiles it will be established that the development of asbestos packings for steam engines constituted the start of the industry. This basic demand was soon followed by a need for heat-resistant friction materials. The history and development of The Raybestos Company is, therefore, very much a part of the history of the asbestos textile industry in the United States.

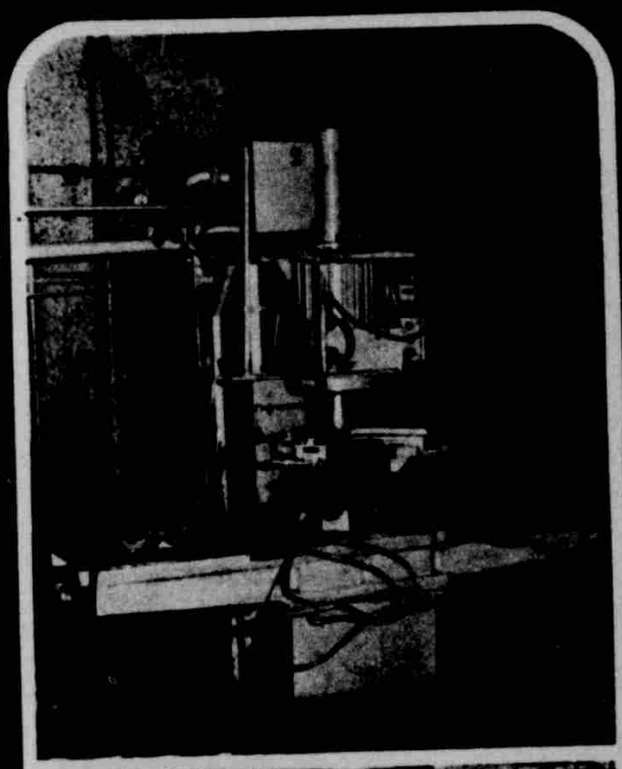
The immediate predecessor of The Raybestos Company was the Royal Equipment Company of Bridgeport, Connecticut, founded in December 1909. Royal's predecessor was the A. H. Raymond Company, started in January 1902. Royal Equipment was originally a manufacturer of automotive brakes rather than brake lining. Mr. Raymond is credited with having developed the wrap-around brake band, i.e., the external contracting brake. U.S. Patent #694,785 was issued November 29, 1901, to Mr. Raymond and described a steel band over a steel drum.

Early model brake bands were unlined, steel against steel. They over-heated, grabbed and screeched—but they stopped the automobile. It was in an effort to overcome these deficiencies that brake bands were first lined. Numerous organic materials such as cotton duck, leather and camel's hair belting were tried as brake lining, but as might be expected all such materials deteriorated rapidly from excessive heat.

It is probable that in 1905 the first solid-woven, multiply asbestos tape used in the United States as brake lining was woven on Keasbey & Mattison's looms on order from the Royal Equipment Co. The tape was woven using brass wire-

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inserted asbestos yarns, a major improvement at the time, but it wore out at an unsatisfactory rate and absorbed oil, water and grime. Royal Equipment next developed oil- and water-repellent finishes for the asbestos-metallic tape. This was the first real brake lining tape as we understand the term today. As a matter of fact, it was the only such material on the market for several years. (It is interesting to note, however, that the earliest well-substantiated use of asbestos as a lining for brake bands is a patent granted March 27, 1897, to Robert Hutchings of Grosvenor Chambers, Bournemouth, England.)

"Raybestos," a contraction of Raymond and asbestos, was adopted as a trade name in 1907. Royal Equipment purchased its first four-space brake lining loom from Schaum & Uhlinger (now the Fletcher Works) on June 19, 1909.

In 1909 Sumner Simpson joined the company as an accountant. He was elected President and General Manager in 1911 and was largely responsible for the formation of Raybestos-Manhattan, Inc. He was elected the first President of R/M in 1929 and served as Chairman of the Board from 1948-1953. Mr. Simpson passed away June 13, 1953.

Royal Equipment moved in 1912 to a substantially larger plant at Bridgeport. An enlarged weaving department produced woven brake linings for cars and trucks, woven clutch facings, and woven cotton lining for Ford transmission bands.

In 1915 Robert B. Davis joined the company as a salesman and rose steadily through the ranks to become General Manager of The Raybestos Co. He was elected a Vice President of Raybestos-Manhattan, Inc., in 1939.

The business outgrew the Bridgeport plant and in 1916 a new factory was built in the neighboring town of Stratford for the manufacture of asbestos wet machine products (millboard) and compressed asbestos sheet packing. The company name was changed that same year to The Raybestos Company. Around this time, during World War I, Raybestos wove tremendous footages of olive drab webbing on its brake band looms for the U.S. Army.

In October 1920 Raybestos purchased an Arizona asbestos mine (the Sierra Ancho property) from the American Ores & Asbestos Company, Globe, Arizona. Also in 1920 Raybestos established Canadian Raybestos Limited at Peterborough, Ontario, Canada.

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In 1922, in partnership with Bell's United Asbestos Co. Ltd., London, England (now a member of the Turner & Newall organization), The Raybestos Co. formed Raybestos-Belaco Limited to distribute Raybestos products in Europe.

Raybestos purchased General Asbestos & Rubber Company, of North Charleston, South Carolina, in 1924.

In April 1925 James L. McGovern, Jr., joined the Raybestos sales team under Sales Manager Morton F. Judd. Mort Judd subsequently moved up to General Manager and was succeeded as Sales Manager by Bob Davis, a dynamic salesman who led the Raybestos team to a commanding position in the automotive after-market (replacement parts sales). In 1945 Jim McGovern took over as Sales Manager and headed the Raybestos replacement sales team for 23 years until his retirement in 1968. He achieved one of the longest and most successful sales administrations in the history of the friction materials industry.

Starting in 1937 and continuing until 1939 the weaving operations were transferred from Bridgeport, Connecticut, to North Charleston, South Carolina, and to Manheim, Pennsylvania. The departments that remained at Bridgeport (concerned with molded brake linings and molded clutch facings) were moved to Stratford, Connecticut, in 1939.

Mr. William S. Simpson, son of the former President, joined R/M in 1939. He served in various sales and marketing capacities and as Director of Personnel and was elected Secretary and a Director in 1948. In 1954 Mr. Simpson was named General Manager of the Raybestos Division and a Vice President of the corporation and in 1967 he became President, succeeding John F. D. Rohrbach.

In 1941 Raybestos commenced the manufacture of sintered metal products including clutch facings for automatic transmissions and for heavy earthmoving equipment.

During World War II the Raybestos Division produced parts for airplanes, anti-aircraft guns, tanks, jeeps, trucks, motorcycles, PT boats and submarines.

The Raybestos Division continues today as an important supplier of woven asbestos brake lining, brake blocks and clutch facings despite the fact that a major portion of the friction materials now in use are of the molded type.

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Chapter IX: Mikesell Brothers Company

There are not many people left in the asbestos textile industry who can remember the Mikesell Brothers Company as a competitor. The President of the company for many years was Harry S. Mikesell, with Neal Mikesell as Sales Manager and Daniel Mikesell in charge of Mine Sales.

The Perfection Tire & Rubber Company, with plants at Fort Madison, Iowa, and Wabash, Indiana, was the predecessor company. Perfection made "bald" automobile tires prior to the time automobile tires had treads. In those early years (1905-1910) automobile tires had a "carcass" consisting of several layers of rubberized cotton duck. Tires of this construction were not very reliable and a motorist did not expect to take a trip of any great length without having to change a couple of "flats."

Perfection Tire & Rubber was among the first to realize that tire failure was caused in part by heat. The firm, therefore, made tires using an open weave asbestos fabric weighing one pound per square yard. This pioneer development is all the more intriguing considering the current success of glass yarns in the automobile tire industry.

The textile mill at Wabash made a specialty of brattice cloth. This is a jute fabric, similar to burlap bagging, used to seal off the opening of mine shafts not currently in use. Dan Mikesell made a business of selling brattice cloth to the hundreds of soft coal mines in Southern Illinois and Indiana.

Mikesell Brothers Co. were originally jobbers in Chicago, Illinois, and handled the Perfection Tire & Rubber Co. line. Mikesell Brothers took over the textile mill at Wabash in 1920.

Arthur R. Byrnes was employed as a salesman by Mikesell Brothers about 1921. In later years he was in charge of textile and packing sales for the Union Asbestos & Rubber Company. We are indebted to Art Byrnes for this story on the Mikesell Brothers Co.

Although Mikesell Brothers Co. went into the hands of a receiver late in 1925, the firm contributed materially to the growth of the asbestos textile industry in the United States. The company is credited with an important industry first—weaving an asbestos herringbone cloth using 18-cut, 2-ply

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yarns in both warp and filling. Art Byrnes sold the fabric to all the asbestos safety garment manufacturers in the Chicago area. This fabric became the quality standard of the safety garment industry and it was soon duplicated by all other asbestos textile mills servicing the safety garment trade.

The Plant Manager at Wabash was Richard J. Evans. This is the same Dick Evans who in later years ran the Asbestos Manufacturing Company's plant at Huntington, Indiana. AMCO was absorbed by the Thermoid Company and became a part of H. K. Porter Company, Inc., when Porter purchased Thermoid in 1955.

Next Issue . . .

Chapter X: United States Asbestos Company

IN THE PHILIPPINES, where warding off the scorching heat of the sun from the interior of buildings is a perennial problem, fresh approaches to the question of sun-shading devices have come to the fore. *Asbestos-cement sun baffles* have gained unprecedented popularity as light, flexible, economical and effective sun deflectors. They have proved to be highly durable and particularly adaptable to tropical conditions.

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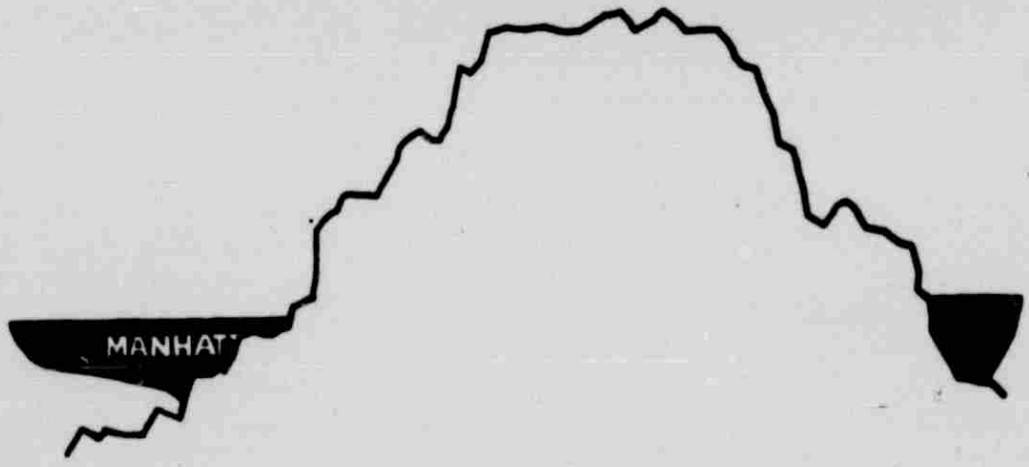
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In Memoriam

EMILE L. RIMBAULT, JR., Director of Advertising and Public Relations for American Smelting and Refining Company, died March 30, 1971, after an illness of several months. He was 51 years of age.

A native of New York City, Mr. Rimbault's entire business career was with Asarco. He was a graduate chemical engineer (BSE, Princeton, 1941) and joined the company in 1946. Specializing in sales, marketing research and advertising, he served in various executive sales positions with Asarco divisions and on September 1, 1965, was named to the position he held at the time of his death. He was a member of the Bankers' Club, the Noe Pond Club, the Association of Industrial Advertisers and the Public Relations Committee of the American Mining Congress.

In lieu of flowers, donations may be made to Madison Community House, 25 Cook Avenue, Madison, New Jersey, for the purpose of establishing a scholarship fund.



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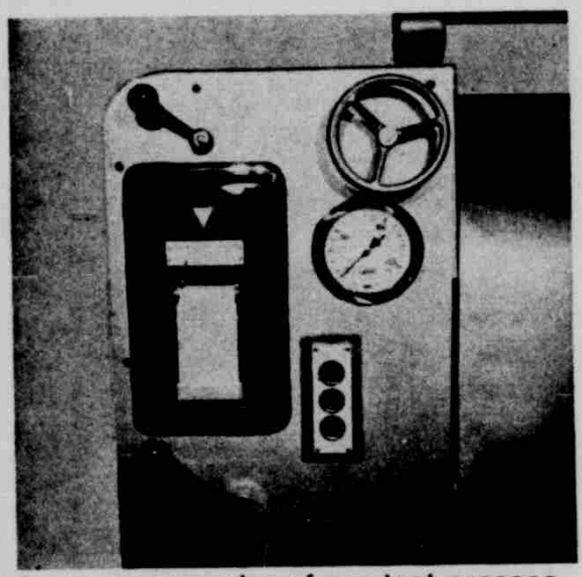
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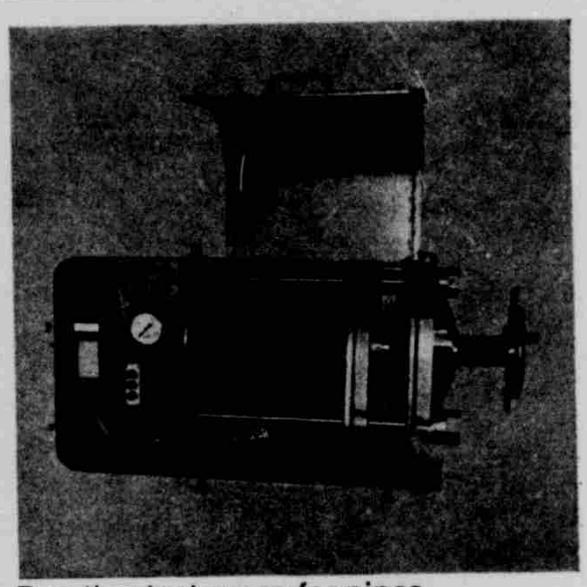
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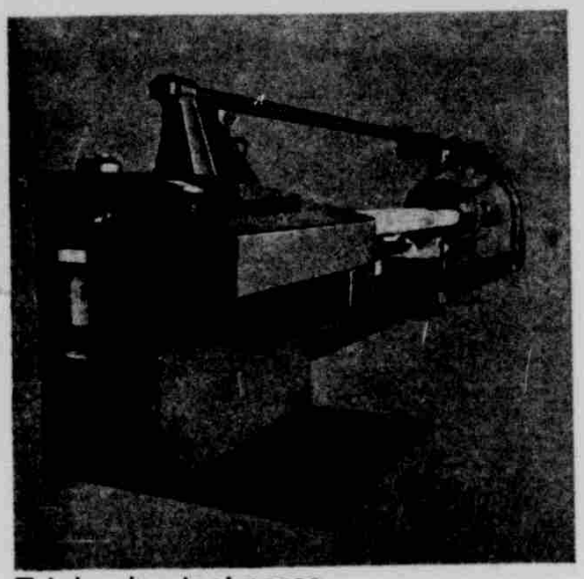
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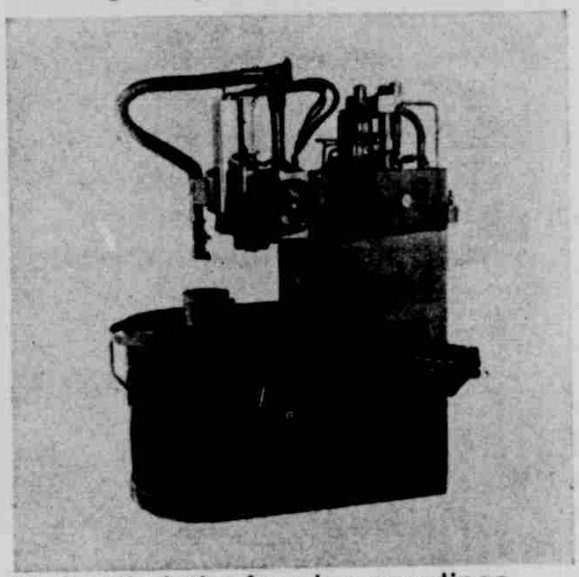
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REPLACEMENT FOR ASBESTOS?

[The following item appeared in the January 20, 1971, edition of "Chemical Week" and is quoted herewith in its entirety for your information.]

"Glass-reinforced concrete may be moving to the marketplace shortly. Glass fiber has long been recognized as a prime candidate for strengthening concrete. Trouble was that it disintegrated on exposure to the alkaline atmosphere. But Great Britain's Fibreglass, Ltd., in association with British National Research and Development Corporation and the British Building Research Station have developed a glass fiber that resists alkali. Fibreglass (a subsidiary of Pilkington Glass, St. Helens, Lancashire) expects to make the product, called Cem-Fil, available in limited quantities by the end of this year.

"The company sees the fibers, added in bits, as a complete or partial replacement for asbestos in reinforcing Portland cement. It believes that as technology improves the fibers will be made in 4-inch lengths to provide total reinforcement for concrete, eventually replacing steel as a reinforcing agent. The glass reinforcement is expected to improve concrete's tensile strength, lead to a new generation of products and applications for the material."

NEW CORPORATE NAMES

Freeport Sulphur Company, a Delaware corporation organized in 1913, has changed its name to FREEPORT MINERALS COMPANY to reflect the widened scope of its activities in basic minerals. The New York Stock Exchange symbol will remain "FT" and the name "Freeport Sulphur Company" will continue to designate the firm's sulphur operations division.

Eaton Yale & Towne Inc. shareholders approved EATON CORPORATION as the new name of the company. It effectively endorses brand names, is brief and easy to pronounce and is linguistically acceptable in all major countries. "ETN" is the new ticker symbol on the New York Stock Exchange.

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J-M — T.V. BORD™

Underwriters' Laboratories awarded its highest flammability rating, SE-O, to a new electrical grade inorganic fiber board recently introduced by Johns-Manville Corporation. Called T.V. BORD, the new sheet material contains asbestos fibers and proprietary organic binders which combine to produce a low-cost material with electrical and physical features normally found only in sheets costing appreciably more. T.V. BORD offers permanent fire resistance and an extra margin of safety in electrical and electronic devices. It has excellent moisture resistance, unusual dimensional stability, permanent dielectric strength (dry or moist), high arc resistance (185 seconds) and low specific gravity.

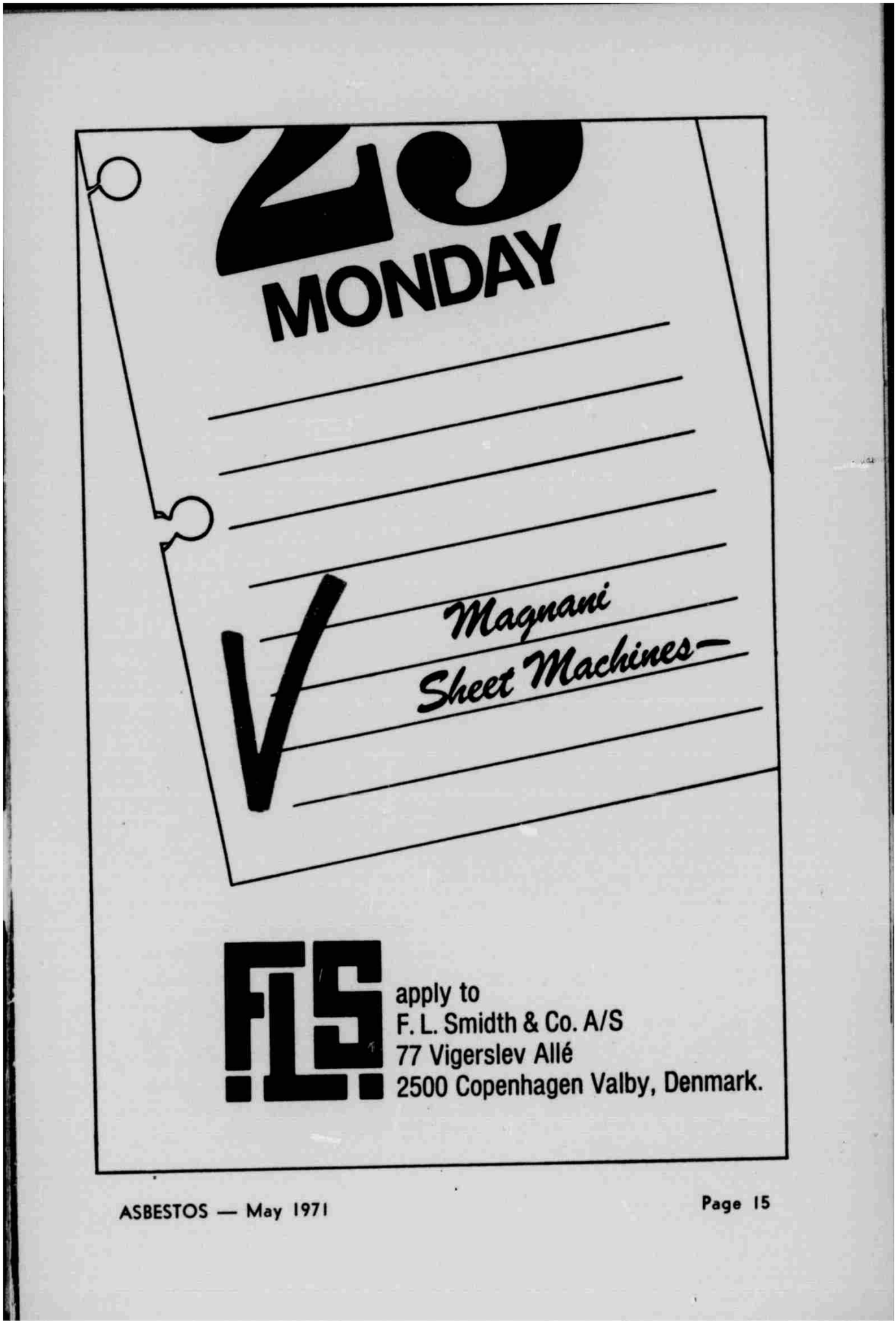
TBA — FORTEX TEXTILES

Turner Brothers Asbestos Co. Ltd. announced a new line of Chrysotile asbestos textile products made by a revolutionary wet dispersion process. The products have been evaluated and commended by potential users in both domestic and export markets and a large production plant has been commissioned at TBA's factory at Rochdale, Lancashire, England. The new products will be marketed internationally under the trademark FORTEX.

The process for the manufacture of the FORTEX range of products is the result of intensive research and development effort at TBA's laboratories. The yarns are manufactured by a chemical process that eliminates the need for mechanical opening and carding. The raw asbestos is separated and dispersed by chemical means into fibers much finer than previously had been possible. The ultra-fine fibers are extruded and spun into yarn and the yarn is then treated to prepare it for further processing into cloth, listing, tubing and webbing.

FORTEX products are purer, lighter, stronger and more resistant to heat than commercial-grade, conventional asbestos textiles. They are remarkably smooth and clean in appearance and are free from the tendency to shed fiber and dust particles.

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VERSATILITY OF ASBESTOS

A four-page illustrated technical article by John W. Hawkins, Director of Asbestos Textile Research, Raybestos-Manhattan, Inc., chronicles the versatility of asbestos in a wide variety of fabricated forms for industry and aerospace.

Titled "Asbestos: Today, Tomorrow, the Day After Tomorrow," the article discusses the properties of Chrysotile, Crocidolite and other asbestos fibers, as well as asbestos fiber composites developed specifically for rocket and missile programs, lunar exploration, nuclear energy applications and as structural, insulating and packing materials. It enumerates examples of new asbestos composites which meet current criteria of industry. These include asbestos felts, asbestos-Teflon composites, silicone-asbestos composites and aluminized wire-inserted asbestos cloth for heat barriers against 2000°F gases.

Reprints of the article, originally published in "Sampe Journal," are available from R/M's Asbestos Textile Division, Bridgeport, Connecticut 06603.

THERMOID MARINE ASBESTOS TEXTILES

Bulletin No. TH-5526 entitled "Thermoid Marine Asbestos Textile Products" presents details of six Thermoid asbestos textile products for marine applications including advantages, properties, sizes and weights, military specifications, etc.

The products described are Porter custom lag canvas cloth (with built-in inorganic adhesive activated by water), the RWL-100 series of asbestos lagging cloths (also with the built-in adhesive), Flamegard molten metal splash protection cloth, sound control fabric, plain and metallic asbestos cloth, and Portersite Amosite asbestos and glass felts.

A copy of the bulletin is available from the Thermoid Division, H. K. Porter Company, Inc., Pittsburgh, Pennsylvania 15219.

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How Gold Bond keeps track of asbestos grades for 3,200 end uses.

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

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ASBESTOS A HAZARDOUS POLLUTANT

Asbestos, beryllium and mercury were listed in the Federal Register on March 31, 1971, as hazardous air pollutants. They are the first to be identified under the 1970 Clean Air Amendments.

In naming the three as pollutants, W. D. Ruckelshaus, Administrator of the Environmental Protection Agency, said that "Listing these contaminants as hazardous does not mean that current levels in the air are dangerous. It means that even slight exposure to asbestos, mercury and beryllium may threaten human health and we must carefully control any release of those substances to the environment."

Under the Clean Air Amendments, listing a substance as a hazardous air pollutant calls for EPA to propose National emission standards for sources of the hazardous pollutants. The standards will be promulgated, after hearings, and are to be set within one year of publication of the list.

DUST SAMPLING PROCEDURES

The Asbestosis Research Council has published Technical Note No. 2 on "Dust Sampling Procedure for use with the Asbestos Regulations 1969," the second in its series of technical notes relating to the requirements of the "Regulations." The booklet gives guidance on the practical aspects of sampling airborne asbestos dust and explains how sampling periods should be organized. It also recommends the most suitable types of dust sampling equipment together with the names and addresses of suppliers.

The first technical note published by the Council is entitled "The Measurement of Airborne Asbestos Dust by the Membrane Filter Method." Further information may be obtained from Dr. S. Holmes, Secretary of ARC, P. O. Box 40, Spotland, Rochdale, Lancashire, England.

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U.K. WASTE DISPOSAL INDUSTRY

According to a report titled "Waste Disposal Industry: Market Potential for U.S. Products," submitted to the U.S. Department of State by the American Embassy in London, research has shown that United States equipment is manufactured in the United Kingdom under license and U.K. firms have shown no great interest in direct importation of American equipment. However, contacts with the waste disposal industry indicate there is interest in manufacturing U. S. equipment under license and in keeping informed of new U. S. developments in this field. The two countries differ in their practice and organization for waste disposal—some of the American equipment that is unique in its particular operation cannot be used in the U. K. However, equipment of novel design and offering something revolutionary in waste disposal technology would be particularly interesting to the British market.

The British firms that are currently manufacturing American or American-designed equipment include the Powell Duffryn Group, Vehicle & Plant Supply Co. Ltd., Simon Handling Engineers Ltd., T. T. Boughton & Sons Ltd. and Heenan & Froude Ltd.

There is intense interest in air and water pollution control equipment, effluent treatment plants, sewage treatment plants and sophisticated solid waste handling equipment. During the period 1958-68, Britain's ten main pollution-prone industries spent a massive £150 million in capital expenditure and over twice that amount in running costs to control pollution.

[Although this Report, No. DIB 70-05-156, was issued some time ago, on February 27, 1970, to be exact, we thought it of sufficient interest to warrant a brief review in these pages.]

Subscribers . . . are not only readers, they are also the eyes and ears of the Editor. ASBESTOS welcomes all notes or clippings about firms and individuals in the Industry, from anywhere in the world. Address items to ASBESTOS, Post Office Box 471, Willow Grove, Pennsylvania 19090.

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VIBRA-METRIC FEEDER

A new gravimetric feeder designed to meet rugged production requirements in critical process applications has been announced by Vibra Screw Inc., Totowa, New Jersey. Called the "Vibra-Metric," the new unit features simple but dependable construction, operational stability and performance reliability.

STEVENS SONARGAGE

C. W. Stevens, Inc., Kennett Square, Pennsylvania, has developed the "Sonargage Conveyor Control System" to control the level of dry materials in storage bins. The analog output from the Sonargage, which is proportional to the material level, is fed into a control cabinet where the level is read from a vertical edge meter.

NORDBERG SCREENS

The expanded line of Nordberg Heavy Duty GP® Screens is described in Bulletin 389 by the Nordberg Division of Rex Chainbelt Inc., Milwaukee, Wisconsin. Designed for stationary or portable plant operations and for dry or wet applications, the screens are now manufactured in 12 sizes and each size comes in single, double and triple deck models.

LITTLEFORD MIXERS

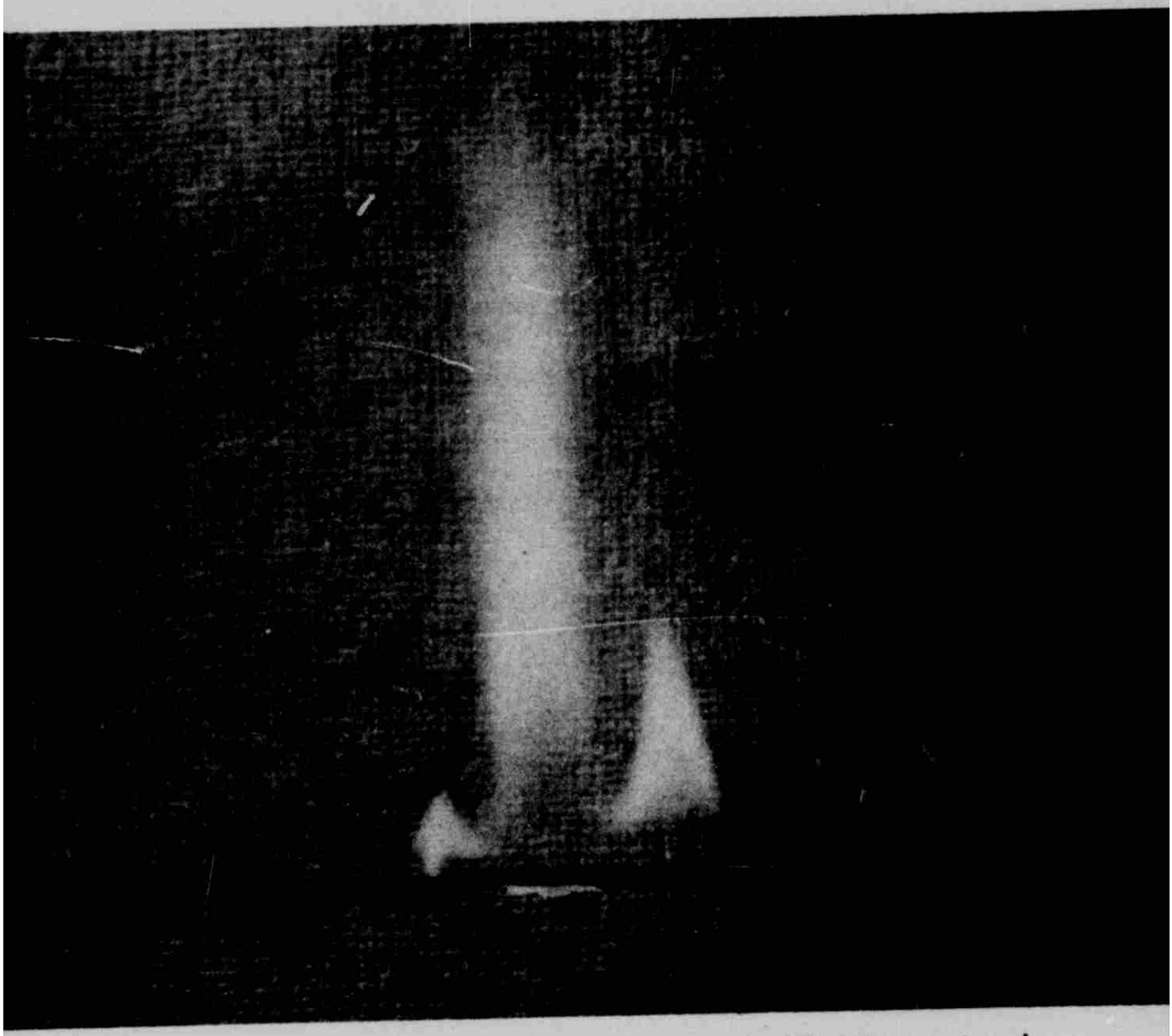
A new mixer (FKM-600D-2Z) developed by Littleford Bros., Inc., Cincinnati, Ohio, turns out a typical batch of caulking compound mastic in 5-10 minutes. It employs Littleford's exclusive hurling and whirling action to blend fine, dry ingredients with oils, solvents and synthetic polymers.

Special trial-demonstration mixers (Model FM-130D-IZ) are now available for test and pilot mixing runs in customer plants. According to Littleford, its mixers are suitable for the blending of asbestos particles.

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UNIROYAL

Asbeston protects naturally or unnaturally.



Naturally; since we combine asbestos with other natural fibers. And unnaturally; since we also can combine asbestos with man-made fibers including glass, acrylic, polyester and nylon.

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

SAW FOR ASBESTOS BOARD

A new technique for trimming wet asbestos board has been introduced as a result of a joint research and development program between Cape Universal Building Products Ltd. and C. D. Monniger Ltd. Produced by Monniger, the tungsten carbide-tipped circular blade was tested under production conditions at Cape's Cowley Bridge Works, Uxbridge, England. Results show a life of 3-4 months before sharpening is necessary. The new blade, which has a serrated edge, supersedes a high-speed steel circular saw previously employed by Cape for side trimming Asbestolux in its wet condition.

J-M ACQUISITION PROPOSAL

Johns-Manville Corporation submitted a proposal to the Directors of Holophane Company, Inc., for the acquisition of Holophane by J-M on a basis that would be tax-free to Holophane stockholders. A manufacturer of lighting fixtures, Holophane maintains its general headquarters in New York City, operates plants in New Jersey, Ohio and California and has subsidiaries in Canada, Mexico and England.

STEDMAN AWARDS CONTRACT

An "all-Canada" contract to represent the Stedman Foundry & Machine Company, Aurora, Indiana, in the sale of its equipment was awarded to Canadian Pulverizer Company, Toronto. Previously, Canadian Pulverizer had represented Stedman only in the Eastern sections of Canada. Stedman, a Wean United Company, manufactures single-row, cage-type impact crushers and multi-row cage mills.

COMPUTER SCIENCES INFONET

Through its nationwide time-sharing service, INFONET, Computer Sciences Corporation, Los Angeles, California, has introduced a comprehensive package of applications programs for the construction industry. The applications span the entire building process from economic planning through to architectural design, engineering and field construction.

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ASBESTOS CEMENT REQUIRES EXPERIENCE

We offer that experience we got by constructing and setting operating 50 complete plants all over the world.

SLURRY PREPARATION

Automatic dosage of the asbestos mix — Pneumatic asbestos transport — Asbestos fibre processing by Kollergang — Pneumatic transport and automatic dosage of cement — Slurry preparation by turbomixer — Normal and forced feed — Hydropulper — Water recuperators.

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3-4-5-6 mts. pipe machines — Nom. diameters 50 to 1800 mms. with fully automatic equipment — Automatic and semi-automatic loaders for pipe machines — Central control board — Pipe maturing conveyor and tunnel — Automatic lathes for asbestos-cement pipes and joints — Automatic testing presses for pipes and joints.

SHEET PLANTS

Variable speed sheet machines with 2-3-4 sieve cylinders — Automatic cutting bench and pneumatic corrugators — Stacker — Sheet maturing tunnel — Rotating and bridge type Destacker — Mould lubricator.

We are not only a consulting office but we have been constructing exclusively machines for the asbestos-cement industry for 20 years.

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P. ROHRER — RETIRES FROM EVERITE

P. ROHRER, Manager of the Western Cape Region for Everite Ltd., Johannesburg, retired March 31, 1971. He had been with the company for 29 years and was intimately connected with the growth and development of asbestos-cement production in the Republic of South Africa.

Mr. Rohrer had the second longest association with Everite of any company employee. He emigrated from Switzerland in 1938 and joined Everite in 1942 as a Construction Engineer at its first asbestos-cement factory at Kliprivier. In 1945, also as a Construction Engineer, he was involved with establishing Everite's second factory at Brackenfell, Cape Province. He was subsequently appointed Manager of the Brackenfell Factory and later returned to Kliprivier to become the firm's Chief Engineer and then Technical Manager. In 1955 he again assumed the responsibility of Brackenfell Factory Manager and in November 1969 was appointed Manager of the Western Cape Region.

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ALLIED POWER-PAC

A new unit to provide hydraulic power to its own and other hydraulic attachments for excavators and cranes was announced by Allied Steel & Tractor Products, Inc., Cleveland, Ohio. Designated the Model 32 Power-Pac, it provides a range of oil flows from 14-34 gpm at pressures to 2000 psi.

CASE CONSTRUCTION EQUIPMENT

J. I. Case Company, Racine, Wisconsin, is extending its line of trenching, excavating and materials handling equipment. Among the improvements or additions are increased capacity of the W26 Series B articulated loader, a versatile new modular system for King loader-backhoes and a hydraulically-operated side-boom attachment for the Model W24 articulated 4-wheel drive loader.

RAYGO GRADER/LEVELER

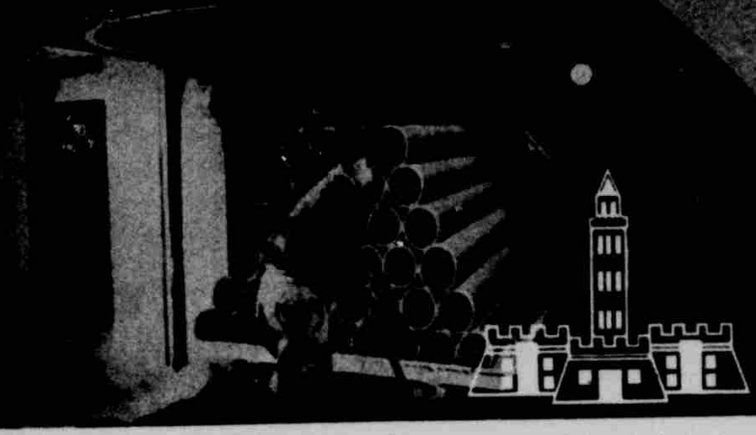
RayGo, Inc., Minneapolis, Minnesota, has developed a king-size grader and leveler for use in mining applications. "The Giant" is a 105,200 pound, 636 horsepower twin-engine leveler designed to knock down and level up to 4000 cubic yards of earth per hour. High travel speeds of 25 mph, work speeds of 6-8 mph and 2-point articulated steering combine to give maneuverability to the unit.

SCHRAMM PNEUMATRACTOR

Schramm, Inc., West Chester, Pennsylvania, describes its HT160 Pneumatractor as the most versatile single piece of equipment on the market for handling varied construction, maintenance and utility chores. The machine is both a self-propelled air compressor delivering 160 cfm of air at 100 psi and a 50-horsepower heavy-duty tractor capable of handling backhoe, loader, demolition breaker and other attachments.

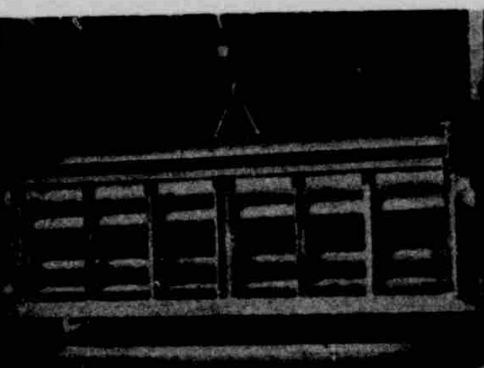
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AUTOMATIC PLANTS TO [illegible]



AUTOMATIC PLANTS FOR MAKING HIGH PRESSURE ASBESTOS CEMENT PIPES

ASBESTOS CEMENT ENGINEERING CO.



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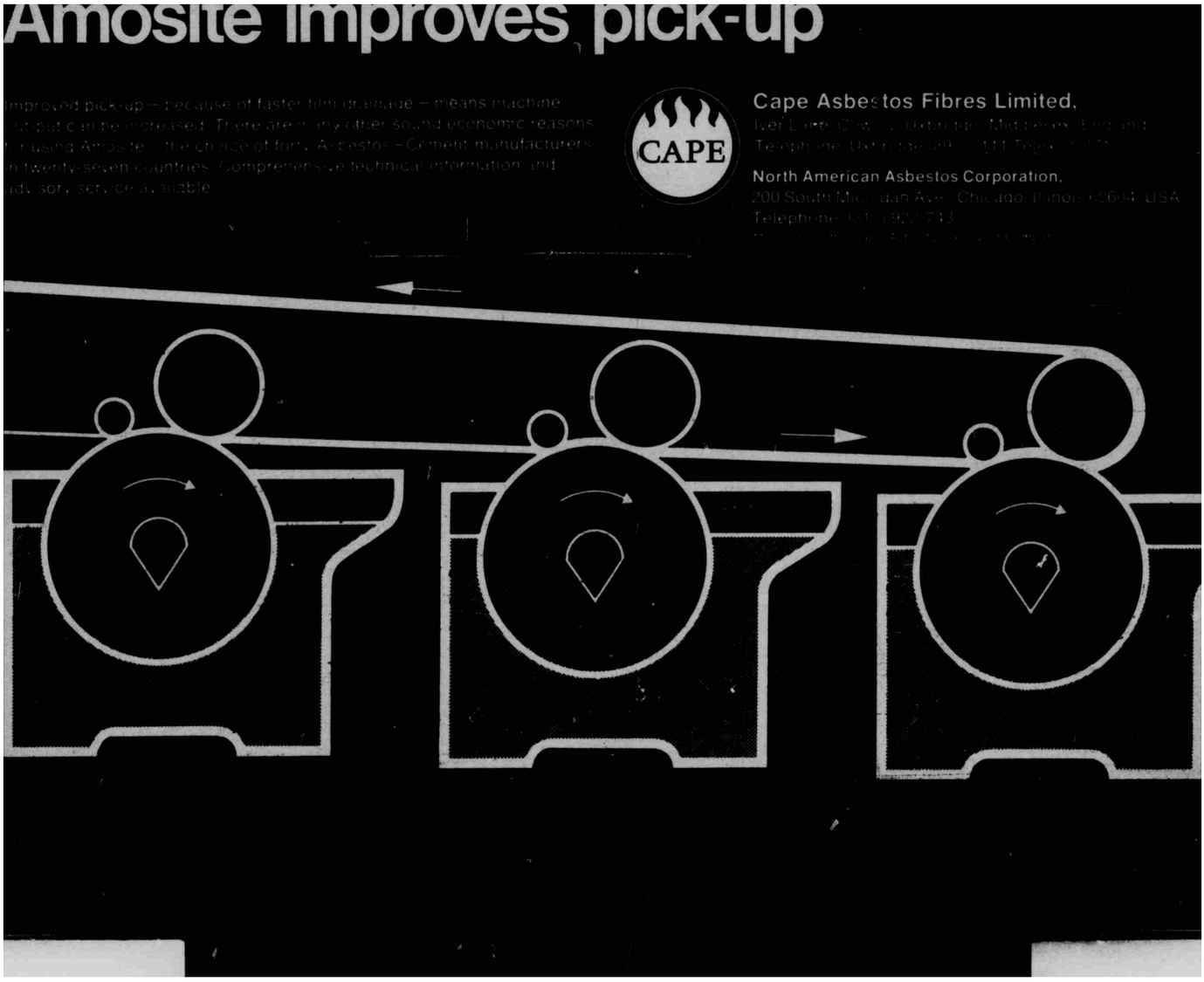


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TELEX: 5781 TEL


Amosite improves pick-up
CAPE
Cape Asbestos Fibres Limited,
North American Asbestos Corporation.

CONSTRUCTION NEWS

MARCH 1971—A recovery in nonresidential building combined with a sustained high level of housing activity boosted the March value of the Dodge Index to a new high of 142 (1967=100). Contracts for future construction work totaled $6,385,921,000, topping the year-ago amount by 6%.

Nonresidential contract value, at $2,199,297,000, was 6% higher than the March 1970 total. Commercial buildings, hospitals and public buildings posted good gains and the value of school construction contracts held even with last year. Contracting for industrial plants was still substantially below last year's high level.

Residential contracts totaled $2,728,986,000, up 38% from the figure for last March. Compared with a year ago the value of one-family building contracts was ahead 51% and apartment contracting gained 21%.

Nonbuilding construction, at $1,457,638,000, was 26% below the year-ago amount. Highway contracting is the only category of nonbuilding construction that is presently running below expectations.

Cumulative construction contract value for the first three months of 1971 totaled $15,749,108,000: Nonresidential, $5,563,251,000, down 13%; Residential, $6,187,046,000, up 27%; and Nonbuilding, $3,998,811,000, down 14%. This year's 3-month total was 1% less than that for the same period in 1970. [F. W. Dodge Division, McGraw-Hill Information Systems Company]

MOTOR VEHICLE FACTORY SALES

FEBRUARY 1971 motor vehicle factory sales from plants in the *United States* totaled 921,940 (passenger cars—757,770; trucks and buses—164,170). The cumulative total for the First Two Months of 1971 was 1,782,555 compared with 1,408,345 for the same period in 1970.

Motor vehicle factory sales from plants in *Canada* totaled 121,868 in February 1971. The cumulative total from January-February 1971 was 214,062 against 203,017 for the like period in 1970. [Automobile Manufacturers Association]

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MARKET CONDITIONS

GENERAL BUSINESS

Latest figures indicate a rather substantial increase in Gross National Product but, at this rate of increase, GNP for the year 1971 will fall short of the goal previously announced by the Administration.

Although new car sales have been very strong and many corporate earnings reports show greatly improved profits for the first quarter, unemployment continues at a high level and continues to increase in some areas. Businesses serving the capital goods and aerospace industries are experiencing a slow-down due to lack of orders and there are no indications of a near-term improvement in this situation.

The stock market continues strong with prices and trading volume at high levels. If the market is truly a forecaster of things to come, the future for business and industry is very bright indeed. It is to be hoped that the rush to buy stocks is not indicative of excessive speculation such as occurred several years ago since, in many cases, present corporate sales and earnings cannot possibly justify the valuations being placed on common stocks at this time.

On the diplomatic front there are signs of improvement in relationships between the U.S. and Red China sparked by, of all things, the visit of a group of U.S. table tennis players to China where they were wined and dined and, as expected, defeated by the Chinese whose national pastime happens to be table tennis. Statements made by political leaders on both sides, during and after this tour, indicate a mutual desire for a reapprochement between the two countries. This, we believe, is certain to occur sooner or later and if "ping pong diplomacy" will speed the process, so much the better.

1971 BID LIST DIRECTORY

This Directory lists Federal and State purchasing agencies as well as foreign agencies located in New York and in Washington, D. C. Orders can be placed with Product Promotions, 3960 Richelieu Road, Indianapolis 46226 [$25.00 postpaid]

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Apartado Postal 8600
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■ UNITED STATES

BALTIMORE, MD. 21202
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BUFFALO, N.Y. 14210
Meyers Chemicals Inc.
290 Larkin St.

CHICAGO, ILL. 60645
Donald R. Fitzgerald Co.
5875 N. Lincoln Ave.

CINCINNATI, OHIO 45203
C. L. Zimmerman Co.
N 303 Cincinnati Union Terminal

CLEVELAND, OHIO 44102
Chem-Materials Co., Inc.
6400 Herman Avenue

DETROIT, MICH. 48219
Gerald J. Fahey
16772 Plainview Road

FORT WORTH, TEXAS 76106
Lehman-Phillips, Inc.
2550 Glendale Ave.

HAYWARD, CAL. 94544
Central Solvents & Chemicals Co.
31702 Hayman St.

KENT, WASH. 98031
Central Solvents & Chemicals Co.
7601 South 190th St.

NEW ORLEANS, LA. 70126
D. F. Condon Co.
Box 26012
Chef Menteur Station

NEW YORK, N.Y. 10007
Whittaker, Clark & Daniels, Inc.
100 Church St.

PHILADELPHIA, PA. 19140
Charles A. Wagner Co. Inc.
4455 N. 6th St.

PORTLAND, ORE. 97302
Central Solvents & Chemicals Co.
10821 North Lombard St.

ST. PAUL, MINN. 55114
MacArthur Co.
936 Raymond Ave.

SALT LAKE CITY, UTAH 84110
Central Solvents & Chemicals Co.
407 West 17th South St.

SANTA FE SPRINGS, CAL. 90670
Central Solvents & Chemicals Co.
13900 Carmenita Road

SPOKANE, WASH. 99206
Central Solvents & Chemicals Co.
6308 East Sharp Avenue

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PRODUCTION—IMPORTS—EXPORTS

Australia—Production of non-acoustic asbestos-cement sheets from *July-September 1970* totaled 11,636,000 square yards, compared to 10 807,000 square yards for the same 3-month period in 1969. [Commonwealth Bureau of Census and Statistics, Canberra]

Canada—Producers' shipments of asbestos during *January 1971* totaled 99,563 short tons (74,486 tons from Quebec plants and 25,077 tons from plants in Newfoundland, Ontario, British Columbia and the Yukon). The total for January 1970 was 84,189 tons. [Dominion Bureau of Statistics, Ottawa]

Swaziland—During the period *January-September 1970,* asbestos production totaled 27,100 short tons. This compares to 29,900 tons produced during the same period of the previous year.

Late in January 1971 the United Nations Development Program awarded Swaziland R635,000 out of the total of about R91 million approved for the whole of Africa by the UNDP governing council. The money is to be used during the next three years for the expansion of the country's small enterprises. The Swaziland Government has agreed to provide R522,000 during the same period to meet the local costs of the project. [Standard Bank Review]

CANADIAN PUBLICATION

Asbestos Products Manufacturers 1969—For statistical purposes the industry titled Asbestos Products Manufacturers in the revised Standard Industrial Classification covers the operations of establishments primarily engaged in manufacturing asbestos textiles, packings, brake linings, gaskets, asbestos building materials and other commodities composed wholly or chiefly of asbestos.

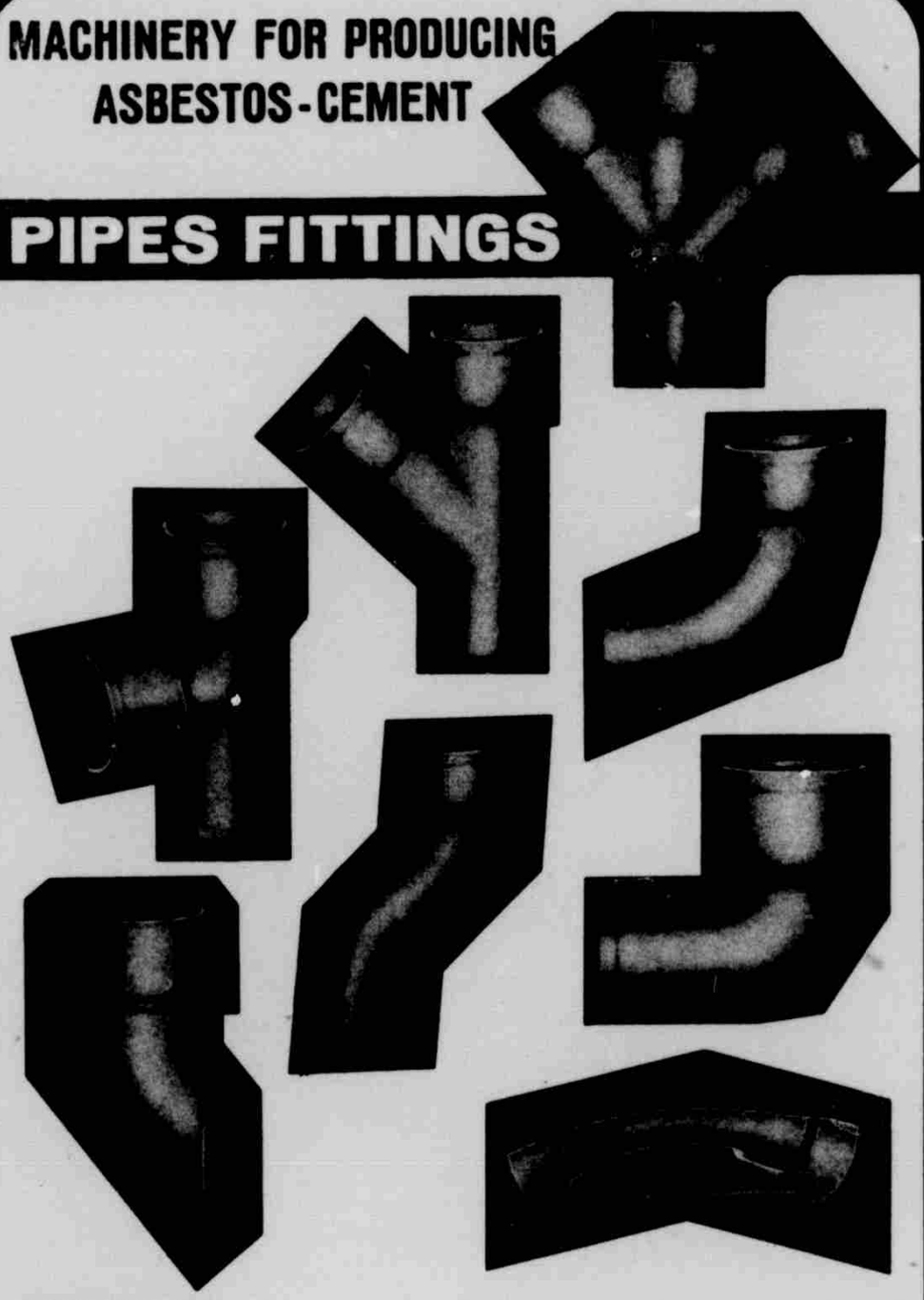
Value of shipments and other revenue of this industry in *Canada* amounted to $58.4 million in 1969 compared with $57.2 million in 1968, an increase of $1.2 million or about 2.1%. Shipments and other revenue resulting from the manufacturing activity of this industry totaled $50.3 million in 1969 compared with $19.2 million in the previous year. Other revenue totaled $8.1 million in 1969 against $8.0 million in 1968.

The total cost of materials and supplies, fuel, electricity, etc., (total input) in 1969 increased by $1.6 million over 1968. Total input in 1969 represented about 40.3% of gross output (of own manufacture) compared with 39.8% in 1968. [Dominion Bureau of Statistics, Ottawa; Catalog No. 44-203; 50c]

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IMPORTS INTO U.S.A.

Figures from U.S. Bureau of the Census

Unmanufactured Asbestos:	Short Tons **YEAR 1970**
Amosite, South Africa	14,261
Crocidolite (Blue), South Africa	9,046
Chrysotile, Crude, Canada	80
South Africa	591
United Kingdom	90
Chrysotile, Spinning Fibers, Canada	15,398
Italy	2
South Africa	85
United Kingdom	211
Yugoslavia	1,488
Chrysotile, Other, Canada	596,652
Finland	10
India	5
Mexico	100
South Africa	425
West Germany	65
Yugoslavia	826
Other Crudes & Fibers, Canada	1,180
Finland	4,131
Italy	2
Norway	132
Mozambique	70
Portugal	231
Rhodesia	200
South Africa	2,430
United Kingdom	5
Yugoslavia	1,686
	649,402

Year 1970 unmanufactured asbestos imports were valued at $75,146,657.

Manufactured Asbestos Goods:		
Asbestos Yarn, Slivers, etc.	Lb 3,155,918	$ 2,933,973
A-C Pipes, Tubes & Fittings	Lb 59,014,128	2,897,298
Asbestos-Cement Articles, Other	Lb 21,696,902	2,846,842
Asbestos Articles, Other	..	2,035,685
		$10,713,798

ASBESTOS

welcomes the following new advertiser:

KILBORN ENGINEERING LTD., page 47

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EXPORTS FROM CANADA

Figures from Dominion Bureau of Statistics

YEAR 1970

Short Tons

Unmanufactured Asbestos:	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
Western Europe	21	10,530	301,518	143,426
Eastern Europe	1	798	22,875	3,690
Middle East	..	211	16,819	2,313
Africa	..	..	10,306	2,745
Asia	73	4,089	114,607	135,432
Oceania	..	66	53,296	16,257
So. & Cen. America & Antilles	..	769	81,734	26,559
United States	6	14,768	191,938	407,585
	101	31,231	793,093	738,007

The total amount of unmanufactured asbestos exported in 1970 was 1,562,432 short tons, valued at $227,248,000.

Manufactured Asbestos Goods:	
Asbestos Brake Lining & Facings	$1,791,000
Asbestos-Cement Building Materials	3,217,000
Asbestos Basic Products, Other	1,428,000
	$6,436,000

EXPORTS FROM U.S.A.

Figures from U.S. Bureau of the Census

YEAR 1970

Unmanufactured Asbestos:		Short Tons
Crude & Spinning Fibers	4,300	$ 929,551
Non-Spinning Fibers	12,477	1,961,198
Waste & Refuse	21,458	2,448,615
	38,235	$5,339,364

Manufactured Asbestos Goods:		
A-C Shingles & Clapboard	Lb 16,711,348	$1,658,805
Other Asbestos-Cement Articles	Lb 6,880,042	1,201,951
Asbestos Gaskets	Lb 418,872	327
Asbestos Packing	Lb 4,673,600	6,375,967
Asbestos Heat or Sound Insulation	..	2,700,126
Asbestos Textiles & Yarns	Lb 7,465,090	2,368,302
Asbestos Protective Clothing	..	106,950
Mfrs. Other Than Friction Materials	..	2,797,531
Clutch Facings & Linings for Auto. Use	No 1,521,713	1,496,490
Clutch Facings & Linings, Other	No 1,035,981	429,514
Brake Linings for Automotive Use	Lb 5,331,900	3,809,293
Asbestos Brake Linings, Other	Lb 2,241,366	1,766,777
		$25,300,043

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ABITIBI/MINBANCO MERGER

An agreement has been reached to effect a merger with **Minbanco Corporation** of New York City whereby **Abitibi Asbestos Mining Co. Ltd.** will be the surviving company, controlling 100% of the asbestos deposit near Amos, Quebec.

The agreement is subject to the approval of shareholders of both companies, regulatory bodies and to the receipt of favorable U.S. tax rulings.

BRAZILIAN MINE OPENED

Mineracao de Amianto S.A. has opened its asbestos mine at Cana Brava, near Uruacu in the State of Goias. It is expected to produce about 17,000 tons of asbestos per year. Brazil's current production of asbestos is less than half that amount and is primarily used in asbestos-cement manufacture.

Mineracao is controlled by Tubos Brasilit S.A. and has some funding from Cie. Financiere et Industrelle Intercontinentale and Cie. dePont de Mousson. [Brazilian Bulletin]

CERRO ASBESTOS FIBER BEING TESTED

Cerro Corporation has announced that its subsidiary, Asbestos Mines of Northern Greece Mining S.A., (MABEM), has begun processing Chrysotile asbestos fiber at a pilot plant located at its Zidani deposit near Kozani, Greece. Cerro International S.A., Brussels, Belgium, a marketing subsidiary, is distributing bulk samples of the fiber for testing by potential customers.

The pilot plant was built under the supervision of Kilborn Engineering Ltd. and has a design capacity for processing 100 tons of asbestos ore per day. Kilborn will continue to supervise the operation of the plant.

MABEM is 90% owned by Cerro Corporation and 10% owned by the Hellenic Industrial Development Bank, an agency of the Greek Government.

HAZEMAG IMPACTORS IN AUSTRALIA

Noyes Bros. Pty. Ltd., Sydney, Australia, a licensee of HAZEMAG m.b.H., West Germany, has been awarded a contract to supply four impact crushers to **Chrysotile Corporation of Australia Pty. Ltd.** for use at its asbestos property near Barraba, New South Wales, Australia. The contract was awarded by the Project Managers, Robinson Perrin and Associates, Toronto.

There are now 112 HAZEMAG impactors installed in the Asbestos Industry in Australia, Canada, South Africa and the United States.

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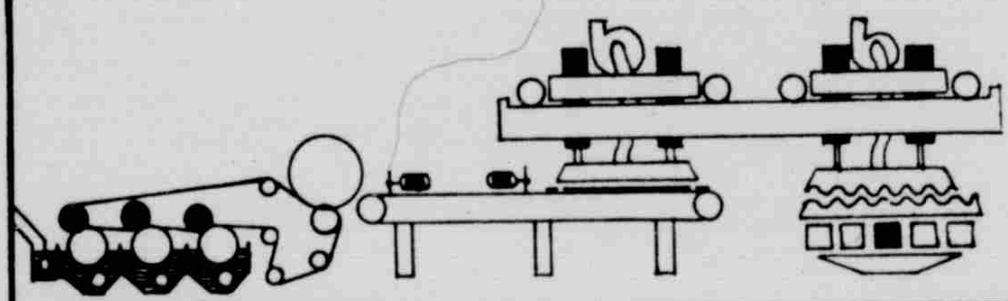
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BIRTHDAY GREETINGS TO . . .

E. J. Weber, Jr., Vice President, Industrial Relations, The Flintkote Company, White Plains, New York, May 13.
John B. Jobe, Executive Vice President for Operations, Johns-Manville Corporation, New York City, June 16.
Gordon D. Parker, Chairman & Managing Director, British Uralite Ltd., Higham, Rochester, Kent, England, June 17.
William S. English, Vice President & Assistant General Manager, Sturtevant Mill Company, Dorchester, Massachusetts, June 19.
Erwin C. Gutzwiller, Corporate Director of Industrial Engineering, GAF Corporation, New York City, June 20.
Dr. W. Richard Goodwin, President & Chief Executive Officer, Johns-Manville Corporation, New York City, June 21.
Michael Prus, Vice President of Operations, Carey-Canadian Mines, Ltd., East Broughton Station, Quebec, Canada, June 21.
Lee R. Anderson, President, Asbestos Products, Inc., St. Paul, Minnesota, June 22.
Frederick S. Daly, Vice President of Manufacturing, Raybestos- Manhattan, Inc., Bridgeport, Connecticut, June 22.
John W. Weber, Chairman of the Board & Chief Executive Officer, American Asbestos Textile Corporation, Norristown, Pennsylvania, June 22.
C. Branton Wheatley, President & Treasurer, Philadelphia Asbestos Corporation, Philadelphia, Pennsylvania, June 22.
Malcolm Meyer, Chairman of the Board & President, Certain-teed Products Corporation, Valley Forge, Pennsylvania, June 23.
Marcel Dorais, Director & Executive Vice President, Bell Asbestos Mines Ltd., Thetford Mines, Quebec, Canada, June 25.
F. Pearson, Chairman, BBA Group Ltd., Cleckheaton, Yorkshire, England, June 26.
Dr. Gordon Taylor, Executive Director, The Flintkote Company Ltd., London, England, June 26.
Edward F. Briggs, General Marketing Manager-Aerospace, Industrial Insulations Division, Johns-Manville Corporation, New York City, June 27.
J. W. McCarvill, Vice President-Administration, Asbestos Corporation Ltd., Thetford Mines, Quebec, Canada, June 27.
Louis B. Stocks, Marketing Manager-Felt & Asbestos Products, GAF Corporation, New York City, June 27.
M. F. Howe, Managing Director, Turners Asbestos Fibres Ltd., Manchester, England, June 28.
G. F. A. Brink, Manager, Product Research & Development Department, Asbestos Corporation Ltd., Thetford Mines, Quebec, Canada, July 2.
I. C. Campbell, Vice-President & Secretary Treasurer, Asbestos Corporation Ltd., Thetford Mines, Quebec, Canada, July 3.
D. L. Monroe, Mine Project Manager, Asbestos Fibre Division, Johns-Manville Corporation, Asbestos, Quebec, Canada, July 3.

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Arthur I. Rank, Jr., President, Universal Insulation Company, Philadelphia, Pennsylvania, July 3.
George J. Urbanis, Director, Hedman Mines Ltd., Bethlehem, Pennsylvania, July 3.
Donald H. Lyons, Vice President for Administrative Services, Johns-Manville Corporation, New York City, July 5.
Howard E. Walker, Director of Research, The Flintkote Company, White Plains, New York, July 5.
Frank T. Campagna, Director of Marketing, Industrial Products Division, GAF Corporation, New York City, July 6.
S. David Skinner, Vice President-Engineering, National Gypsum Company, Buffalo, New York, July 6.
C. L. Hoshaw, Manager, Carey Insulation Company, Cincinnati, Ohio, July 7.
Gordon Read, Vice President & Director for Far Eastern Operations, Johns-Manville Corporation, New York City, July 7.
A. W. S. Schumann, Chairman, Msauli Asbes Ltd., Johannesburg, South Africa, July 7.
Roy M. Billings, General Manager, Packings & Friction Materials Division, Johns-Manville Corporation, New York City, July 8.
B. Kovacs, Production Superintendent, Cassiar Mine, Cassiar Asbestos Corporation Ltd., Cassiar, B.C., Canada, July 9.
Donald L. Andrew, Secretary, Philadelphia Asbestos Corporation, Philadelphia, Pennsylvania, July 11.
Jack R. Paulson, Vice President, Asbestos Products, Inc., St. Paul, Minnesota, July 11.
W. L. Giachino, Mine Superintendent, Cassiar Mine, Cassiar Asbestos Corporation Ltd., Cassiar, B.C., Canada, July 13.
John F. Sullivan, Jr., President & Treasurer, Asbestos & Magnesia Materials Company, Chicago, Illinois, July 13.
Carlo M. Weber, Product Manager, Asbestos-Cement Products, Philip Carey Company, Cincinnati, Ohio, July 14.

NASA TECH BRIEFS—The following Tech Briefs announce new technology derived from the U.S. Space Program and are issued by the National Aeronautics and Space Administration to encourage commercial application. Tech Briefs are available on a subscription basis from the National Technical Information Service, Springfield, Virginia 22151. Requests for individual copies or questions relating to the Tech Brief Program may be directed to the Technology Utilization Division, NASA, Code UT, Washington, D.C. 20546.

70 10020—Reinforcement of Polymeric Structures with Asbestos Fibrils, from A. M. Schwartz & C. A. Rader of Harris Research Laboratories, Inc., under contract to NASA Headquarters.

70 10397—Nondestructive Sonic Testing of Adhesive-Bonded Composites, from E. L. Caustin of North American Rockwell Corporation, under contract to the Marshall Space Flight Center.

70 10544—Improved Heat-Resistant Garments, from R. S. Johnston of the Manned Spacecraft Center.

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1967 CENSUS OF MANUFACTURES

The U.S. Bureau of Census has issued its Report on "Pulp, Paper & Board Mills" as part of the 1967 Census of Manufactures. It includes data on SIC Codes 2611-Pulpmills, 2621-Papermills (except building paper), 2631-Paperboard Mills and 2661-Building Paper & Board Mills. Since we are mainly interested in products allied to the Asbestos Industry, we excerpt from the Report the following information concerning establishments classified under **SIC Code 2661 on Building Paper & Board Mills.**

This industry comprises establishments primarily engaged in the manufacture of building paper and building board from woodpulp and other fibrous materials. The Report shows a breakdown of statistics for insulating board, construction paper and other types of building paper and board.

In 1967, as in earlier years, a minimum size limit was set for including establishments in the Census. Reports were required from all establishments employing one or more persons at any time during the Census year.

Of the 94 establishments reporting for Industry 2661, 74 had 20 employees or more and 86 were establishments with 75% or more specialization. Payroll amounted to $82.5 million for a total employment of 11,700. Value added by manufacture reached $183.7 million, cost of materials was $155.6 million, new capital expenditures totaled $20.3 million and end-of-year inventories were valued at $31.6 million.

The value of shipments and other receipts of this industry in 1967 totaled $341.1 million, including shipments of building paper and board (primary products) valued at $303.6 million, shipments of other (secondary) products valued at $26.1 million and miscellaneous receipts (mainly resales) of $11.4 million.

The industry's shipments of building paper and board (primary products) in 1967 represented 92% (specialization ratio) of its total product shipments (primary & secondary). The specialization ratio in 1963 was 97%. Secondary products shipped by the industry in 1967 consisted mainly of wood products not elsewhere classified ($18.4 million) and mineral wool ($2 to $5 million).

Industry 2661 shipments of building paper and board (primary products) in 1967 represented 96% (coverage ratio) of these products valued at $317.9 million shipped by all industries. In 1963 the coverage ratio was 88%. Other industries shipping building paper and board (primary products) consisted mainly of Industry 2631 ($4.9 million) and Industry 2621 ($2.1 million).

A copy of the entire Report No. MC67(2)-26A can be obtained for 55c from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.

1967 CENSUS OF MINERAL INDUSTRIES

Report MIC67(1)—14E entitled "Nonmetallic Minerals (Except Fuels) Services & Miscellaneous Nonmetallic Minerals" includes data on *SIC Code 1499—Miscellaneous Nonmetallic Minerals.* Separate subindustry figures have been tabulated for asbestos. [Superintendent of Documents, 55c]

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If you use asbestos for



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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.

SALES AGENTS

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

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

CALIFORNIA, Los Angeles
E. B. Taylor Company

CANADA, Montreal
Federated Metals Canada, Ltd.

CANADA, Toronto
Federated Metals Canada, Ltd.

COLOMBIA, Bogota
Holanda, Colombia, S.A.

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

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

MEXICO, Mexico City
Asarco Mexicana, S.A.

MICHIGAN, Detroit
Baker & Collinson

NEW YORK, New York
D. H. Litter & Co., Inc.

OHIO, Cleveland
A. C. Mueller Co., Inc.

PENNSYLVANIA, Conshohocken
Van Horn, Metz & Co., Inc.

LAKE ASBESTOS

ASARCO

ASARCO INTERNATIONAL CORPORATION
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BOOKS, ARTICLES & PAPERS

CIM Books—The Canadian Institute of Mining & Metallurgy has the following books available to enhance the value of your mineral industries library: Ore Reserves Estimation & Grade Control; Structural Geology of Canadian Ore Deposits (Volumes 1 and 2); Mining in Canada; The Milling of Canadian Ores; The Geology of Canadian Industrial Mineral Deposits; Ice Seminar; and Geology and Tectonics of the Western Cordillera ($12.00). All of the afore-mentioned books are available at $10.00 each, except where otherwise noted, plus a 50c handling charge per volume. Orders may be placed directly with CIM, 1117 Ste. Catherine Street West, Suite 906, Montreal 110, Quebec.

Facts & Figures: Mining in Canada 1970 is a brief sketch of the important mining industry and what it means to Canadians. Copies are available, in either French or English, from the Mining Association of Canada, 20 Toronto Street, Toronto 210, Ontario.

Automation of Asbestos Milling Circuits is the topic of a paper presented by M. Cossette at the 73rd annual general meeting of CIM. A "preview" of the paper appeared in the April 1971 issue of the CIM Bulletin.

Construction Materials, in its December 1970 issue, carried the following articles, written in Russian: Some Properties of Materials for Low-Temperature Thermal Insulation; Chemistry in Construction; The Nature of the Wear of Crushing Plates of Jaw Crushers with Complicated Motion of the Jaw; and Equipment for the Production of Asbestos-Cement Components. ASBESTOS will be glad to lend its copies to interested readers.

CANADIAN GOVERNMENT SPECIFICATIONS BOARD

Cumulative Supplement to Index of Standards & Specifications as of December 31, 1970, is now available. It includes data on asbestos products in Group 34 and on thermal insulation products in Group 51. Also listed is the special publication titled "Building Standards Index," an index of codes, standards and specifications used in the building construction industry in Canada.

Amendments No. 1 dated January 1971 have been issued to Asbestos-Cement Products Standards 34-GP-1b, 34-GP-4b, 34-GP-5c, 34-GP-14a, 34-GP-16b, 34-GP-21a and 34-GP-22a. The changes are concerned with detail requirements, general requirements, ordering data, inspection and applicable publications.

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NEWS

FOR ASBESTOS-CEMENT MANUFACTURERS

SCAPA sets the standards

by which other felts are judged

The SCAPA range of A.C. felts
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* RELIABILITY
* REPEATABILITY
* SERVICE

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NEW ASBESTOS PATENTS

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

British 1,218,568—A composition for lining foundry molds or heads of ingot molds comprises ball mill dust, slag wool, paper pulp, a mixed phenolformaldehyde/ureaformaldehyde resin, fluorspar and asbestos; B. C. Rumbold; assigned to Foseco Trading A.G.; January 6, 1971; 3 pages.

Canadian 863,994—Production of large-size molded insulation products from a mixture of precalcined diatomite, expanded perlite, high-swelling bentonite, starch, asbestos and other common additives; A. P. Mueller & B. Asher; assigned to Panacon Corporation; February 16, 1971; 23 pages.

Canadian 864,420—Extrusion method for producing asbestos yarn continuously from a dispersion of colloidal Chrysotile fiber; J. E. Novak & J. F. Orzechowski; assigned to Raybestos-Manhattan, Inc.; February 23, 1971; 13 pages.

Canadian 864,438—An improved thixotropic thickening agent consists of either ultrafine Chrysotile asbestos alone or a mixture of such asbestos with micronized silica; C. F. Doyle & H. C. Helmlinger; assigned to W. R. Grace & Company; February 23, 1971; 21 pages.

Canadian 865,003—A thickener for polyester resin compositions is made by depositing a silica gel precipitate on well-opened, high-purity Chrysotile asbestos fibers; S. Chwastiak; assigned to Union Carbide Corporation; March 2, 1971; 17 pages.

Canadian 865,010—In the removal of organic additives from asbestos yarn structures, the yarn cake is subjected to steam heat at a temperature high enough to distill off the organic residue; W. Wilke & H. Fetzer; assigned to Rex Asbestwerke, Graf von Rex KG; March 2, 1971; 9 pages.

Russian 245,355—To improve its chemical stability and increase its working life, a novolac resin molding composition includes as a filler a mixture of asbestos, kerogen, fluroplast and phenolformaldhyde resin; P. V. Shpilfogel, et al; October 29, 1969; 1 page.

U.S. 3,562,304—Equipment is protected from rocket blasts or the like by coating it with a mixture of an ethylene propylene terpolymer, a polybutadiene polymer, asbestos, a curing agent and antimony trioxide; J. Tucker; assigned to North American Rockwell Corporation; February 9, 1971; 3 pages.

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ASBESTOS

Kilborn-engineered asbestos projects in Canada, U.S.A., South America and Europe produce a total fibre output of 365,000 tons per year.

Kilborn services include marketing surveys, process and operating assistance, engineering and construction management for new plants and expansion programs.

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NOTES FROM 1970 ANNUAL REPORTS

RAYBESTOS-MANHATTAN, INC.

Net income for 1970 for Raybestos-Manhattan, Inc., was $1,416,000 or $1.05 per share as compared to $4,422,000 or $3.26 a share in 1969. Net sales decreased about 2.5% to $145,667,000 as compared to $149,319,000 in 1969. The economic recession which began affecting R/M mid-1969 continued throughout 1970 and was the most significant factor contributing to the disappointing results for the year. The strike at General Motors, a strike at one of R/M's major divisions, and substantially higher interest costs also contributed to the reduction in sales and profits. Emphasis on cost reductions in all phases of the company's business was accelerated during the year because of declining earnings.

Demand for asbestos textile products continued to show excellent growth, registering a 38% sales increase. Replacement products also benefited from the reduction in new car production.

The market value of R/M's investment in Cassiar Asbestos Corporation Ltd. increased appreciably at the end of 1970 to $12,650,000 as compared to the quoted market value of $9,753,892 at the end of 1969.

The company is enthusiastic over the prospects of its German affiliate, Breku Reibbelag G.m.b.H. & Co., due to the potential of the Common Market. R/M technology in clutch facings, automatic transmission discs and disc brakes is being adopted by Breku on a systematic basis. The principal products presently being produced in Germany are clutch facings, disc brakes and gasket materials.

Most end products produced by R/M are a composite of two or more basic materials — asbestos, sintered metal, rubber and plastics. These composites cover a very broad range of products: friction materials which are provided in the form of drum and disc brake lining, clutch facings and automatic transmission materials; industrial rubber products; asbestos textiles; abrasive and diamond wheels; flurocarbon products and reinforced plastics; rivets and rivet-setting machines; and bowling balls. Friction materials account for about 52% of sales, industrial rubber products 16%, rivets and related products 9%, and all other products 23%.

UNIROYAL, INC.

The year 1970 was a difficult one for Uniroyal, Inc. Sales of $1,555,594,000 were slightly higher than in 1969 but net income fell 48.2% to $24,121,000. This severe setback stemmed from a composite of factors all of which had an adverse effect on operations. There are multiplying signs that the U.S. national economy is gathering momentum. Automobile sales are rising. Housing starts are increasing. Retail sales are comparatively strong. Money supply is being allowed to rise.

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Public confidence in the economy appears to be reviving.

The high capital expenditures made by Uniroyal during recent years have built new plants or updated and expanded many already established plants in the U.S. and abroad. The company now has production capacity to support substantially higher annual sales without major capital additions. As a result, capital expenditures which were $82 million in 1970 (down from $137 million in 1969) will tend to level off for the next few years.

The recessionary trends evident in the economy during 1969 and more severely in 1970 have led the company to review critically all elements of cost. Many product lines which, over a period of time, had not been making their proper contribution to earnings have been discontinued. Several inefficient or unprofitable plants have been closed in whole or in part.

During 1970, Uniroyal's operations outside the borders of the United States accounted for approximately *27%* of sales and operating revenues. Foreign plants have been modernized, research and development facilities expanded, and marketing efforts strengthened through unification of brands under the Uniroyal banner.

Uniroyal has active programs to combat and reduce pollution. Many major plants have converted their fuel from coal to either oil or natural gas eliminating or minimizing the release of fly ash and other undesirable substances into the atmosphere. New waste treatment plants are either in operation or nearing completion at three chemical facilities. During the next decade, Uniroyal expects to spend more than $25 million on pollution control systems for its worldwide operations.

The Uniroyal *Fiber and Textile Division* had its second best sales year in history during 1970. Several new specialty fabrics were developed and introduced for use in filtration processes and as reinforcement in such industrial rubber products as hose and belting. There is an expanding market for textile products in both construction and home furnishings as well as in industrial products.

RIO ALGOM MINES LTD.

1970 net sales of Rio Algom Mines Ltd. reached $183,525,000, compared to $173,114,000 in 1969. Net earnings were $14,076,000 against $15,361,000 in the previous year.

A working option was taken on an asbestos prospect located at Lake Roberge in Northwestern Quebec, Canada, and a drilling program and preliminary assessment of the property are underway.

Have you ordered your copy of the new edition of "The Asbestos Factbook"?

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ASBESTOS STOCK QUOTATIONS

CLOSE—APRIL 27, 1971

Abitibi Asbestos	*$4.50	Gulf & Western	29⅞
Advocate Mines	*$2.60	G&W (pfd 1.75)	99
Asarco	27½	G&W (pfd 3.50)	123⅝
Armstrong Cork	38	G&W (pfd 3.87)	62½
Armst Cork (pfd 3.75)	60½	G&W (pfd 5.75)	69⅛
Asbestos Corporation	*$36.00	Illinois Central	40
Bendix	36½	Ill. Central (pfd 3.50)	63½
Bendix (pfd 3)	56½	Johns-Manville	44
Carlisle	17⅞	Maremont	15½
Cassiar	*$22.75	National Gypsum	22½
Cerro Corporation	18	Natl Gypsum (pfd 4.50)	67
Certain-teed	32¾	Pacific	*$1.48
C-teed (pfd .90)	32½	Panacon	3⅜
Conwest	*$11.00	Porter (pfd 5.50)	70¼
Flintkote	29½	Raybestos-Manhattan	28⅜
F-kote (pfd-A 4.50)	84¾	Royal Industries	10¾
F-kote (pfd-B 2.25)	37⅝	Unarco	15¼
GAF Corporation	14¼	Union Carbide	49⅛
GAF (pfd 1.20)	21½	Uniroyal	22¼
Garlock	19¼	Uniroyal (pfd 8)	104½
Grace	33⅛	United Asbestos	5½

*Canadian Currency
(Sources: The Wall Street Journal & The Northern Miner)

INVESTMENT OPPORTUNITIES

Entreprise Claisse, 7 rue Gustave Eiffel, 91 Morangis, France, is a construction firm involved in drainage pipe laying. The firm is seeking a joint venture with a U.S. firm interested in waste water treatment installations in France and Europe.

Dipl. Ing. Paul Maydl, Goethestrasse 7, A-4020 Linz, Austria, a construction firm, informed the American Embassy in Vienna that it is contemplating the expansion of its activities, particularly in the field of constructing prefabricated building elements and light concrete. The firm is a single proprietorship but plans to establish itself as a limited liability company, taking in a foreign, preferably American, partner with an investment of about $1 million.

WEKA Handelsgesellschaft m.b.H., a wholesaler in chemo-technical products located at Getreidegasse 21, A-5020 Salzsburg, Austria, is seeking a U.S. supplier of a material suitable for use during construction to protect asbestos-cement building slabs against ultraviolet radiation, paints, lacquers and other contaminants. The protective material should form a film on the slabs which after completion of construction work can be peeled off in one piece, leaving no residue. PVC film proved to be impractical for this purpose.

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MEN ON THE MOVE

CERTAIN-TEED PRODUCTS CORPORATION

Byron C. Radaker has been named President of the Shelter Industries Division, a newly-created position at Certain-teed. He has full executive responsibility for the division's nationwide manufacturing and marketing operations. Mr. Radaker is a Corporate Vice President of the company.

GRANT WILSON, INC.

The following assignments were made in Grant Wilson's national sales force. **Joseph Morales** is headquartered in Nashville and will handle sales in Tennessee and Georgia. **Steven Rudd** has offices in Little Rock and is responsible for the Arkansas area. **Cole Cash** is based in Baton Rouge and his territory includes Mississippi and Louisiana.

JOHNS-MANVILLE CORPORATION

J. E. Hesse was appointed to the newly-created position of Vice President for Production and Engineering. He will be responsible for staff production functions, plant engineering, general industrial engineering and maintenance, control. He joined J-M in 1942 as an Assistant Plant Engineer at Marrero, Louisiana.

Donald H. Lyons is the new Vice President for Administrative Services with responsibility for the Purchasing, Traffic, Headquarters, Sales Office Services and Physical Distribution Departments. He began his career with J-M over 25 years ago.

Rudolph P. Shupper was appointed Director of Purchasing. A native of Rahway, New Jersey, he was employed by the U.S. Metals Refining Company prior to joining J-M in 1942.

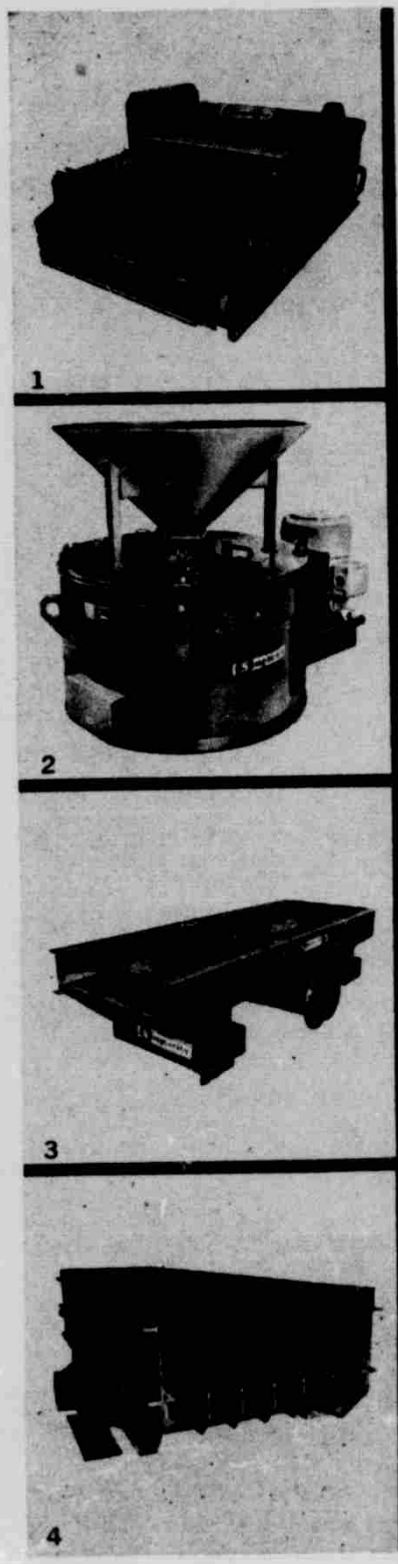
Three executive staff apointments at Canadian Johns-Manville include **G. D. Poole** as General Marketing Manager for Industrial and Building Products, **M. A. Haddon** who continues as General Marketing Manager for Special Products but with the added responsibility for Celite and exports, and **F. K. Doty** as Sales Manager for Industrial and Building Products.

NATIONAL GYPSUM COMPANY

Robert E. Scifres was appointed to the Board of Directors and elected Group Vice President responsible for the operations of the Huron and Allentown Cement Divisions. He joined National Gypsum in 1942.

Virgil W. Cooprider was elected Corporate Vice President-Personnel and Industrial Relations. He joined the company in 1951 as Manager of the Legal Department at the Kansas Ordnance Plant.

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Simplify screening, crushing and feeding...

1. **High-speed "Z" screens** - designed to screen fine materials, wet or dry, with a minimum of blinding and at high separation efficiency. Basic two-bearing design permits low first cost along with fast, low-cost maintenance and repair.

2. **D'CENTEGRATOR impact crushers** - fibrize so thoroughly, the longer fibres are not dirtied. On-the-job performance also indicates a higher recovery rate and lower percent of fines. Lower installation costs and easy maintenance (only one moving part) make this unit an outstanding producer. Available in several model sizes with capacity range of 35-100 t.p.h.

3. **Pan Feeders** - provide smooth, continuous flow of materials under all conditions. Capacities to 2,500 tons per hour.

4. **Grizzly-feeders** - combined scalping and feeding in one operation. Reduce operating and maintenance costs up to fifty percent and gain valuable plant space. The primary crusher capacities increase up to 30%.

For complete information on Simplicity screens, feeders or crushers, call 517/288-3121 or write: 95

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CALENDAR OF EVENTS

Environmental Quality Conference for the Extractive Industries—The American Institute of Mining, Metallurgical & Petroleum Engineers (AIME), Washington Hilton Hotel, Washington, D.C. *June 7-9.*

Asbestos Textile Institute—General Meeting, Cherry Hill Inn, Cherry Hill, New Jersey, *June 9-10.*

Mineral Processes: Their Analysis, Optimization & Control—jointly sponsored by the Department of Mining Engineering at Queen's University and the Department of Metallurgical Engineering at Colorado School of Mines; *June 12-25* at Colorado School of Mines, Golden, Colorado; *July 7-21* at Queen's University, Kingston, Ontario, Canada; and *August 1-13* at University of Concepcion, Chile, South America.

NAM Institute on Industrial Relations in 1971—sponsored by the National Association of Manufacturers, Jackson Lake Lodge, Grand Teton National Park, Wyoming, *June 13-17.*

American Water Works Association—91st Annual Conference, Denver, Colorado, *June 13-18.*

Southeastern Insulation Contractors Association—Spring Meeting, Ponte Vedra Club, Ponte Vedra, Florida, *June 14-15.*

Noise & Vibration Control Seminars—sponsored by Bolt Beranek & Newman Inc., Cambridge, Massachusetts, *June 9-11 and 14-15.*

ASTM Committee C-24 on Building Joint Sealants—ASTM Headquarters, Philadelphia, Pennsylvania, *June 20-22.*

The Building Team—1st National Conference and Exposition, developed as an industry service by the American Institute of Architects and the Producers' Council, Inc., Cobo Hall, Detroit, Michigan, *June 21-22.*

Temperature, Its Measurement & Control in Science and Industry—5th Symposium sponsored by the American Institute of Physics, the Instrument Society of America and the National Bureau of Standards, Washington, D.C., *June 21-24.*

International Exhibition of Packaging Engineering—Brno Trade Fairs and Exhibitions, Brno, Czechoslovakia, *June 21-25.*

ASTM 74th Annual Meeting—including the North American Materials Evaluation Exposition, the Photographic Exhibit and the Publications Fair, Chalfonte-Haddon Hall, Atlantic City, New Jersey, *June 27-July 2.*

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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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Scandura

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Remember When?

(May 1921 ASBESTOS)

New Advertisers:
Canada Asbestos & Chrome Co. Ltd.
Waite-Wild Asbestos Co., Inc.
National Asbestos Mfg. Co.

This issue contained the first of a series of articles on Methods of Mining and Milling Asbestos by Walter A. RuKeyser. Mr. RuKeyser will be remembered by some of our readers as a leading authority of the time on asbestos mining and milling practices.

Announcement was made of the organization, in Philadelphia, of the Allbestos Corporation whose purpose was to engage in the manufacture and sale of asbestos yarns and other asbestos textile products. Officers of the company were William G. Kitchen, President and Treasurer; John F. Bolger, Vice President and General Manager; Charles Elder, Superintendent of the Yarn Department and William H. Hall, Jr., Superintendent of the Weaving Department.

The Canada Asbestos & Chrome Co. Ltd. was reported about ready to commence operations at its Kerr Hill Mine.

The opening of the West Coast Asbestos Co. at Downey, California, was reported. The plant was engaging in the manufacture of asbestos textiles and S. R. Zimmerman and C. L. Hill of United States Asbestos Co., Lancaster, Pennsylvania, were actively identified with the new company.

Shipments of asphalt shingles and roll roofing by manufacturers in the United States and Canada during 1920 amounted to over 30,000,000 squares.

Because of depressed world economic conditions the Great National Automobile Exposition scheduled for mid-1921 at Basel, Switzerland, was postponed until February 1922.

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The Complete Asbestos



You'll find everything you want in the wide range of Carey-Canadian asbestos fibre grades . . . unusual whiteness, low iron content, uniform fibre length, high fibre value, good lubricity and a complete absence of troublesome grit. You'll also find them readily available in warehouses in key areas across the country.

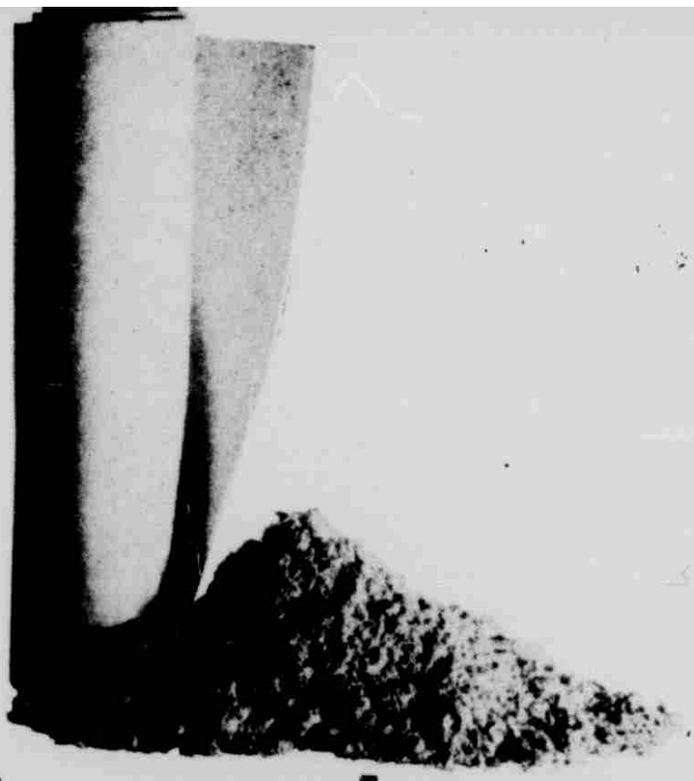
For samples and data contact the warehouse nearest you or write Dept. 00-0000, Carey-Canadian Asbestos, Division of Panacon Corp., P.O. Box 15070, Cincinnati, Ohio 45215.

Carey.

Warehouse stocks 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.
Kansas City, Mo.,
Thompson-Hayward Chem. Co.
Little Rock, Thompson-Hayward Chem. Co.
Los Angeles, E. S. Browning Co.
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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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Two good starts...

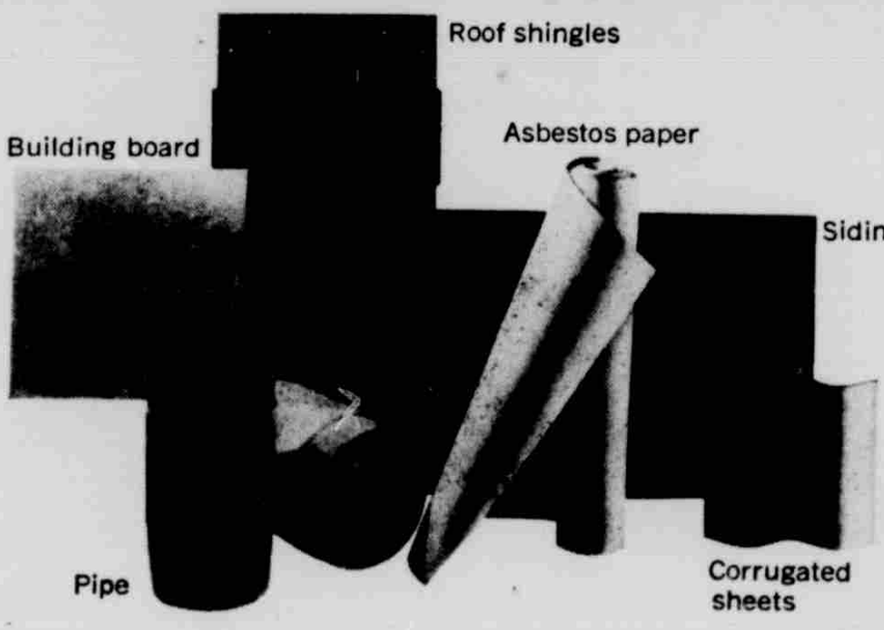
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