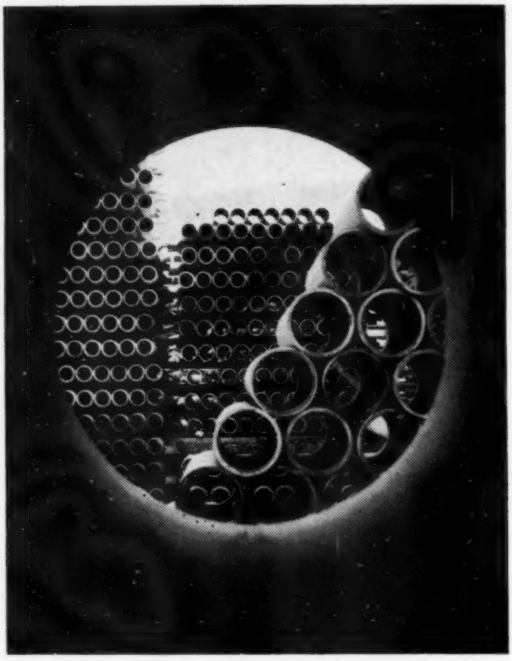
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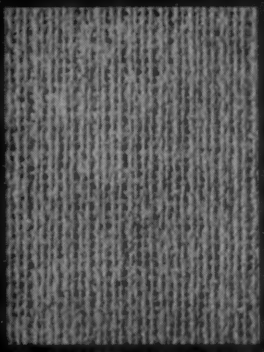


Asbestos-Cement Pipes manufactured by Keasbey & Mattison Co. Ambler, Pa.

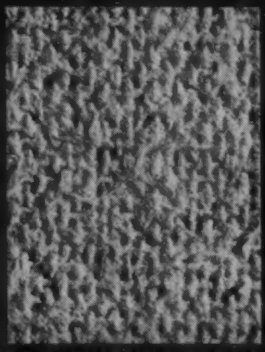
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Entered As Second Class Matter November 23, 1923, at the Post Office at Philadelphia, Pennsylvania, Under Act of March 3, 1879

Volume 41 JULY 1959 Number 1

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ASBESTOS is indexed regularly by Engineering Index, Inc.

SUBSCRIPTION PRICE

United States - - - $3.00 Per Year
Canada - $4.00 Per Year Foreign Countries - $4.00 Per Year
Back Copies - .35 Each Single Copies - (Current) .25 Each
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UNDERGROUND MINING IN CANADIAN ASBESTOS MINES

By: W. E. Sinclair, M.I.M.M.

Since many of the asbestos deposits occur in massive form, they lend themselves most readily to open pit mining methods and, indeed, a large number of the well known mines are worked in this manner, as was described in an earlier article.* However, there comes a time in the life of all open pit mines when extraction costs, usually due to the need for excessive stripping, make production unpayable.

As a pit deepens, the ratio of overburden to be moved eventually exceeds the available ore and thereby marks the economic limite of surface extraction. Advance warning of this stage of operations is determined by preliminary calculations based on the form of the ore-body.

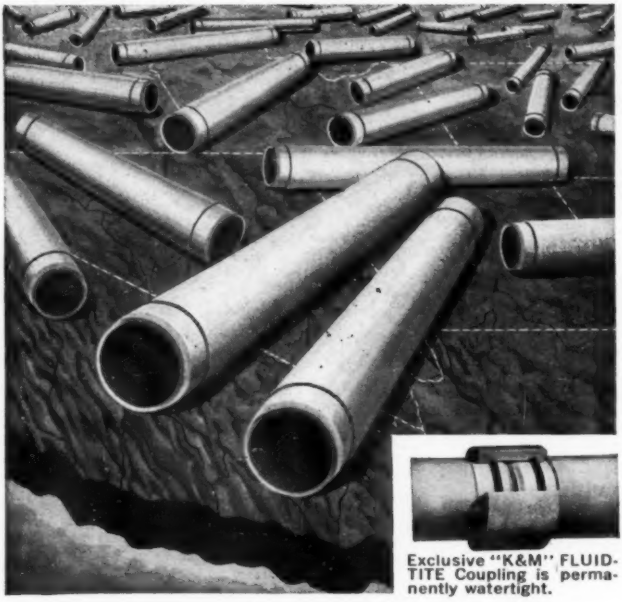
At this point, the most effective means of attack in mining the deeper parts of the ore-body, are determined first, by a system of skeleton primary development, carried out from one or two shafts sunk from strategic points on the surface. Secondly, as it is usual to arrange the layout of the primary development underground in such a way that it might serve as main haulage, service and ventilation opening, in the ultimate mining operations, it is customary to first determine the more general characteristics, as to form and structure of the body, by means of diamond drilling. The initial work is followed by closer systematic drilling to enable a fair estimation of the value of the blocks and the tonnage available, to be made. This information, with that collected in the open pit, provides a reasonably safe picture as to future prospects.

Many of the producing mines in the main Quebec Eastern Townships field have been operating for periods varying from fifty to seventy-five years. The extraction of large tonnages of ore by open pit workings for so many years has naturally resulted in some of the mines reaching the limit of economical production by these means.

Of the total of fourteen producing mines, three have

* "Open Pit Asbestos Mining in Canada", by the Author. "ASBESTOS", January 1959.

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already switched from open pit to wholly underground methods, while several others are extracting by both surface and underground operations. In two of the latter category development work underground is proceeding in readiness to gradually change over completely to underground working methods.

As already suggested, insofar as open pit work is concerned, there exists a plan of standardization in general principles, based on the uniformity of the deposits and the proved efficient working methods resulting from many years of experience. The same might be said of the underground systems of working which, after varying trials and tests, have also become almost standardized in operational practice.

With few exceptions, a system of block-caving, or a modified form of this method, has been adapted in most mines. Normal shrinkage and sub-level stoping methods were tried initially but the fractured nature and variable characteristics of the serpentine rocks caused some minor difficulties and resulted in comparatively high mining costs. In some cases, advantage was taken of the existing open pit by adapting forms of glory-hole mining. This system, however, was liable to give trouble due to the hazards of snow and ice that tended to block the drawpoints in winter operations.

In general, the large massive ore-bodies that constitute so many of these serpentine deposits, plus the nature of the ore, have proved amenable to the block-caving system. In exceptional cases, local physical conditions have made it necesssary to deviate from standard practice and instead to adapt some form of shrinkage stoping with rib-pillars or otherwise panel-caving to maintain the necessary output effectively and economically.

Block-caving in these conditions, as in most cases where this form of mining exists, has proved to be a low cost method of production, mainly because of the large tonnages that can be broken and delivered with a relatively limited amount of drilling, blasting and handling. The system, in theory, assumes that ground conditions are such that large blocks of ore can be extracted by simply undercutting the block and thereby allowing the whole mass of

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ore to cave, crush and break up from its own weight.

The size of the block of ore which is planned for attack may vary in size, but usually it is arranged about 160 feet square by 400 feet high, according to the form and volume of the ore-body available. This volume is calculated to give about one and a half million tons of ore.

As already mentioned, the main primary development openings, and more especially the main haulage ways, are suitably planned under the blocks to be in a position to handle the broken ore delivered from above. The secondary development openings, above the haulage drifts, consist mainly of tunnels along which the broken ore is first handled before delivery down chutes to the haulage cars. Above these slusher tunnels, under-cutting levels are driven to provide a means of drilling and blasting the block of ore above them. Operating methods designed to induce complete caving depend largely on the nature of the rock in the block but in general, they follow common procedure, consisting of drilling a number of separate sections which are finally combined for simultaneous blasting.

Operational functions follow common principles, the only difference is that in some lay-outs the broken ore is drawn from caving to the handling drift whence it is passed over grizzlies and down ore-passes to the haulage cars. In others, the broken rock is drawn down to a slusher-drift and scrammed along to chutes delivering direct to haulage cars.

Granby type railroad cars, varying from 5 ton to 10 ton capacity, are hauled by electric locomotives to transport the broken rock to the shaft for delivery to the crushers either underground or on the surface.

A further layout of secondary development consists of boundary or fringe drifts that are driven round the block at 40 feet intervals. These serve as observation or control points as caving operations proceed and, ultimately, they induce a break-line vertically on each side of the block. As the broken ore in the block caves and is drawn out, the gradual subsidence of the mass is covered on the surface by the addition of mill tailings. This filling tends to prevent the collapse of the solid walls of ore around the block. Once the filling is finally consolidated in a worked out

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block, a new block is attacked and mined alongside.

When one considers the enormous tonnage of broken rock that is handled in the development openings under the block of ore, it is obvious that all drifts, ore-passes and other openings must be designed to remain open despite the friable and relatively soft serpentine rock in which they are driven. To insure a state of permanency while caving proceeds, therefore, nearly all the openings are concreted, except of course the undercutting level. In some of the haulage drifts, in firm and compact ground, steel sets are used instead of concrete. In many of the drifts outside of the immediate block area, roof bolting has proved a satisfactory and economic form of support.

As effective means of support, concrete, steel sets and roof bolts have together entirely eliminated the use of timber, at one time, troublesome bug-bear in asbestos mining. As a result, the once costly work of removing wood chips and splinters, that constituted a serious form of contamination of the fibre, is a thing of the past.

Because of the large quantities of concrete necessary in supporting the development openings under the caving areas, the bigger mines have established concrete mixing plants on the surface and deliver the concrete through 6 inch pipes by compressed air to the points where it is required underground. In smaller operations, the cement and aggregates are delivered to batching stations underground, from which the concrete can be delivered in pipes to the various points where concreteing is in progress.

The principal mines now operating either wholly or partly by underground methods are the following:

Asbestos Corporation Limited

King Mine. *Thetford Mines.* The first mine to adapt block-caving in 1932. Total output from underground operations today.

Johnson's Company Limited

Johnsons Mine. *Thetford Mines.* Started underground caving methods in 1940 and total output is recovered from underground work today.

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Bell Asbestos Mines Limited

Bell Mine.	*Thetford Mines.* Started underground on a retreating panel system in 1951 and all out-put produced from underground work today.

Canadian Johns-Manville Limited

Jeffrey Mine.	*Asbestos.* Operating caving system underground but open pit work continues as well.
Munro Mine.	*Matheson, Ont.* Developing underground block-caving system in readiness for switch over from present open pit mining.

THE FLINTKOTE COMPANY ACQUIRES GLENS FALLS PORTLAND CEMENT CO.

Stockholders of Glens Falls Portland Cement Co., at a special meeting in Glens Falls, New York (June 3), voted approval of the proposed acquisition of that company by The Flintkote Company, manufacturer of America's broadest line of building products for home and industry. This is expected to become effective on June 17.

This new acquisition marks the tenth such move by Flintkote since February 1956, when the company embarked on its current expansion and diversification program.

THE COVER

This unusual view of asbestos-cement pipe was taken in the storage area of Keasbey & Mattison Company's Ambler pipe plant. It was accomplished by placing a 4 x 5 Graphic in the barrell of a 12″ diameter, quarter length pipe, 3 feet, three inches long and focusing on the stacks of pipe in the foreground. Various diameters are represented. Royal Pan film was used with a lens opening of f:22 and a speed of 1/25th second.

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EHRET MAGNESIA AND BALDWIN-HILL

Plan Merger

A proposed merger between Ehret Magnesia Manufacturing Co., Valley Forge, Pennsylvania and Baldwin-Hill Company, Trenton, New Jersey, is announced jointly by Alvin M. Ehret, Jr. and William H. Hill, Presidents of the two companies, respectively.

Directors of each company voted June 18 to submit the proposal to the stockholders. Proxies and copies of the agreement of merger were mailed June 19 to Ehret and Baldwin stockholders of record June 12. Stockholders will vote on the merger at special meetings to be held July 14 in Trenton and Valley Forge.

If approved by a vote of two-thirds of the outstanding shares of each corporation, the merger will become effective August 1. Stock of the new company will be exchanged one-for-one with shares of the merging companies, and the new company will be known as *Baldwin-Ehret-Hill, Inc.* with main offices at 500 Breunig Avenue, Trenton.

Baldwin-Ehret-Hill, Inc. would be a strong factor in the industrial and home insulation field with five plants located in various parts of the United States. It would have 552,134 shares of common stock outstanding, and, based on current figures, would have a net worth of $5,500,000 and annual gross sales of about $14,000,000.

Ehret Magnesia, founded in 1897, has a well established position in the industrial insulation field as a manufacturer of 85% magnesia and calcium silicate high temperature insulations. It has paid a dividend every year for 40 years. The company's recently modernized plant in Valley Forge is almost fully automatic. Ehret has 140 employees.

Founded in 1935, Baldwin-Hill manufactures a complete line of mineral wool thermal insulations and acoustical products. It recently introduced the first rigid polyurethane foam pipe insulation for low temperature use. Baldwin-Hill's main office and plant are in Trenton, N. J. The company also operates plants in Kalamazoo, Michigan; Huntington, Indiana and Temple, Texas; and, employs a total of 550 persons.

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According to Mr. Ehret, "Our company is enthusiastic about the prospect of joining forces with Baldwin-Hill Co. The merger will offer our customers a full line of industrial insulations and give them the support of a national sales force. We look forward to continued growth, but at a substantially greater rate than either company would attain individually".

Commenting on the proposed merger, Mr. Hill stated, "Baldwin-Hill is honored to associate with a firm of the reputation and long tradition of Ehret Magnesia Manufacturing Co. We anticipate that the new company will provide greatly enhanced service to its customers as a result of its ability to supply, from its own plants, insulation products covering a temperature range from 450 degrees below zero Fahrenheit to 2,000 degrees above".

The National Association of Business Economists

This newly-formed organization of economists connected with private industry, has elected its first slate of officers.

The first president of the Association is Adolph G. Abramson, director of economic planning for SKF Industries, Inc., Philadelphia, Pa.

Other officers are: George Cline Smith, F. W. Dodge Corporation, New York City, vice president; Sidney E. Rolfe, C.I.T. Financial Corporation, New York City, treasurer; and Charles B. Reeder, E. I. du Pont de Nemours & Co., Wilmington, Delaware, secretary.

The Association, which was recently incorporated in Delaware, was founded in response to a long-felt need for an organization devoted specifically to business economics and particularly to the practice of economics as a professional business service.

The National Association of Business Economists is not intended as a substitute for broader interest groups in economics and statistics, but it will give special attention to the particular problems and the professional functions of the economist who serves private enterprise.

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PROFILE—ROBERT R. PORTER
KEASBEY & MATTISON COMPANY



Robert R. Porter

Robert R. Porter, the President of Keasbey & Mattison Company, Ambler, Pa., was born in Minnesota. He graduated from Chippewa Falls, Wisconsin, High School and then received an appointment to the U. S. Naval Academy at Annapolis. There he began his military career which eventually won him the distinction, at 34, of being the youngest colonel in the Marine Corps.

Upon graduation, he was commissioned a second lieutenant and assigned to the Philadelphia Navy Yard. This was followed by a duty at Lakehurst, N. J., and on a battleship. In 1935, he was assigned to flight training at Pensacola, Florida, where he received his wings.

In 1938, Mr. Porter returned to the Naval Academy for two years' post-graduate study. Then he was assigned to a year's study at Massachusetts Institute of Technology where he received his master of science degree in aeronautical engineering.

At the time of Pearl Harbor, he was executive officer of the service squadron at Quantico, Virginia. Shortly afterwards, he was appointed commander of the squadron and sent to the South Pacific. In 1943, he became engineering officer for all marine aviation in the South Pacific. Three months later he was recalled to the states and transferred to the Bureau of Aeronautics in Washington, and subsequently made head of the Engine Design Section and responsible for all aircraft engines in navy service.

In 1945 he was transferred to Lima, Peru as Executive Officer of the U. S. Naval Mission to Peru and technical advisor to the Peruvian Minister of Aeronautics. One year later he moved to Hartford, Conn. as Bureau of Aeronautics representative of the Pratt & Whitney and Hamilton Standard plants.

Mr. Porter resigned from the service as a colonel in 1947 and joined Cleveland Graphite Bronze Co. in a sales capacity. Two years later he moved to Ford Instrument

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Co., Long Island, where he subsequently became vice president and sales manager. Here he directed a complete reorganization of the sales department.

After leaving Ford Instrument Co., he joined Keasbey & Mattison Co. in 1955, and a short time later was appointed executive vice president. In April, 1957, the board of directors of Keasbey & Mattison appointed Mr. Porter President of the firm, which is one of the country's leading manufacturers of asbestos, heat insulating and asphalt products.

Mr. Porter and his wife, the former Veronica Beach of New York City, live in Gladwyne, Pa. A daughter attends Randolph Macon Women's College, and a son is employed by Ratheon Manufacturing Company.

Mr. Porter is a member of the University Club of New York City, Wings Club of New York City, Philadelphia Country Club and Army-Navy Club of Washington, D. C.

ASBESTOS IN THE SERVICE OF MODERN RAILWAYS

The above article by C. Z. Carroll-Porczynski, appeared in the April 1959 number of "Engineering Materials and Design".

The article surveys the current modernization of railway systems, the use of asbestos based materials, recent trends in the field, and is illustrated with charts and tables.

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CANADIAN ASBESTOS MINING—1958

Province of Quebec

Even though the value of asbestos production in the Province of Quebec in 1958 was lower than in 1957, the asbestos industry achieved some progress during the year under review.

In 1958, three companies joined the ranks of the producers. *National Asbestos Mines Limited* and *Carey-Canadian Mines Limited* entered into production July 1st; the official inauguration of *Lake Asbestos of Quebec Limited* took place on October 16th, 1958. However, *Quebec Asbestos Corporation Limited* closed its doors at the end of June. On December 31st, 1958, the Province of Quebec had ten producers of asbestos fibres.

Asbestos Corporation Limited—A daily production of 13,000 tons of ore came from the British-Canadian, King and Normandie mines. In 1958, the King mine and the Beaver mine were amalgamated under one operation, the King-Beaver mine. There were no operations at the Beaver mine in 1958, as the mill was being enlarged and renovated. One section of this mill was placed in operation at the end of September, at a production rate of 1,000 tons per day. Once completed, this mill will be able to handle 6,000 tons of ore per day.

Bell Asbestos Mines Limited maintained its mining rate at 2,300 tons of ore per day, this being the same as in 1957.

Canadian Johns-Manville Company Limited enlarged its No. 5 mill in order to increase its treatment capacity from 15,000 to 20,000 tons of ore per day. The new section began functioning in September. The No. 4 mill has been closed. The company maintained its underground mining rate at 12,000 tons of ore per day but decided to increase the tonnage of ore coming from its open-pit.

Carey-Canadian Mines Limited, with mine and mill at Iring Junction, started producing on July 1st. This producer replaces Quebec Asbestos Corporation Limited. The mill capacity is 2,000 tons of ore per day.

Flintkote Mines Limited treated 2,000 tons of ore per

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(Private Branch Exchange)	**London**

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day in its Thetford Mines plant, an average of 200 tons below the 1957 daily production rate.

Johnson's Company Limited kept its mining rate at 2,500 tons of ore per day. The ore came from underground stopes located above levels No. 4 and 5, of its mine in Thetford township.

Johnson's Asbestos Company Limited mined a daily average of 4,000 tons of ore from its open-pit in Coleraine township.

Lake Asbestos of Quebec Limited was officially in production on October 16th, 1958. Before reaching this goal, the company was obliged to pump 55 billion gallons of water and remove 27 million cubic yards of mud and silt from Black Lake. Its 14-story mill, built at a cost of over $9,000,000, has a rated production capacity of 100,000 tons of asbestos fibres per year.

National Asbestos Mines Limited began production on July 1st, 1958. The mill, with a daily capacity of 3,000 tons of ore, can produce 50,000 tons of fibres per year.

Nicolet Asbestos Mines Limited has reduced its daily treatment rate from 2,500 to 1,600 tons of ore. The company's operations are located in Tingwick township.

NEW BOOKLET "FIRE PROTECTION OF STRUCTURES"

"Fire Protection of Structures" is the latest booklet from Turners Asbestos Cement Co. Ltd., of Trafford Park, Manchester, England. Sized 8" x 5", it has 36 pages, is profusely illustrated with photographs, data charts and line drawings, and is a brief interpretation of the byelaws in relation to asbestos and asbestos-cement materials.

A revision of an earlier publication, it has additional paragraphs on the following: (a) combustibility test, (b) external fire exposure roof test, and (c) corroglaze sheets. The illustrations show various fire tests which are normally carried out at the Fire Research Station on different types of structures such as floors, walls and columns.

Copies will be supplied by Turners Asbestos Cement Co. Ltd., on request.

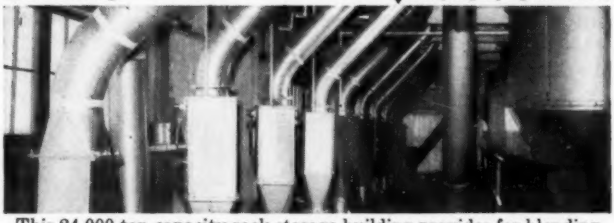
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Quality controlled asbestos from ore to fibre



▲ Rock Storage

▼ Sampling Piping and Valves



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

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

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

Carey® **ASBESTOS FIBRE**

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

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J-M ASBESTOS PRODUCTS
To Be Used In World's First Underwater Sulphur Mine

The final phase of the construction of the world's first underwater sulphur mine, owned by Freeport Sulphur Company and located in the Gulf of Mexico, is now underway.

In this tremendous engineering feat, Johns-Manville Corporation, manufacturers of the insulation, make the huge pumping operation possible. This immense plant will pump five million gallons of superhot water a day down 2,000 feet beneath the gulf's floor into a rich deposit of sulphur. Melted and forced up, the sulphur will be piped through a unique seven-mile-long heated pipeline to deliver molten sulphur to land from Grand Isle, Freeport Sulphur's new mine located off the shore of Louisiana. The line alone will cost about $2,000,000 and will require approximately 2,120 tons of steel.

The freezing point is 240°F and the Johns-Manville insulation keeps the exit temperature above 280°F. It is interesting to note that one of the two asbestos products used is Min-K, which has a lower conductivity than still air and is now being used successfully in operational U. S. missiles. The higher it flies, the more effective it performs as insulation. This is the first time Min-K has been used below the surface. The sulphur line will be inserted into the water line, which will be insulated with Johns-Manville Thermobestos.

The initial work at the Grand Isle land base began during the week of April 6-11, and will be in operation early in 1960.

ASBESTOS-CEMENT MACHINERY

Wet machines with Auxiliaries for the production of 24" to 48" wide, flat or corrugated sheets in commercial lengths.

Fiberizing Equipment, Rotary Cutters, Wet and Dry Trimmers, Finishing and Texturing Machines.

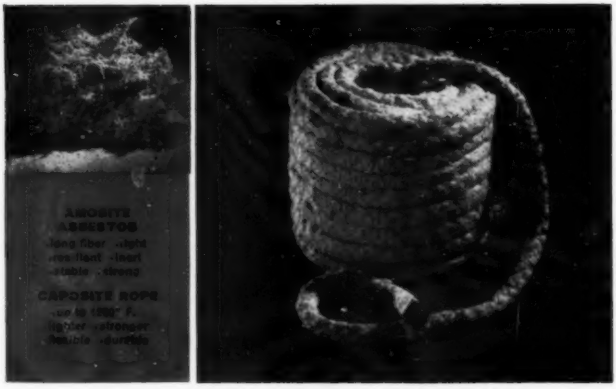
Your inquiries are most welcome

LINCOLN IRON WORKS

(Successors to Asbestos-Cement Associates, Inc.)

255 West Street Rutland, Vermont

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100%

pure Amosite Asbestos CAPOSITE Rope

You can insulate better and cheaper with Caposite Rope because it yields 3 times the footage of ordinary asbestos rope on a pound for pound basis. It can be reapplied repeatedly for service up to 750° F. The flexibility of Caposite provides easy application in all diameters from ¼" to 2". Ask for Bulletin 101 and samples.

NAAC

In the United States
NORTH AMERICAN ASBESTOS CORPORATION
Board of Trade Building · Chicago 4, Illinois

In Canada
CAPE ASBESTOS (CANADA) LIMITED
200 Bloor Street East · Toronto, Ont. · Canada

CAPE

Subsidiaries of The Cape Asbestos Co. Ltd., London

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New Asbestos Cement Sheet With 9 Ft. 6 In. Span Bold Profile Of Universal "Magnum"

A new design in asbestos cement roof sheeting, capable of spanning purlins at up to 9 ft. 6 in. centres, is announced by the Universal Asbestos Manufacturing Co. Ltd. Until now, maximum spans for asbestos cement sheets—as distinct from flat roof decking systems—have been in the order of 6 ft. to 7 ft.

The new design has been named the Universal Magnum. It is an extremely robust, deep-sectioned sheet which forms a stiff beam. It is particularly suitable for low-pitched frameworks of the more massive type. In modern reinforced concrete and pre-stressed concrete frames, for example, it is sometimes advantageous to arrange large section beam members at relatively wide centres.

The sheet is moulded in 3/8 in. thick material. The 9 ft. 6 in. roof purlin spacing is made possible by a 7 in. overall depth of corrugation giving greater beam strength with an adequate safety margin. The spacing of the corrugations is 18 in., iving three corrugations in an overall sheet width of 3 ft. 4 in. with a net cover of 3 ft. The 4 in. side-laps are deep and well-weathered. The end lap is a minimum of 6 in., with the use of a new butyl jointing strip known as Foamjoint. This cellular synthetic material is rot-proof and seals the joint completely. The minimum roof pitch is 4 degrees.

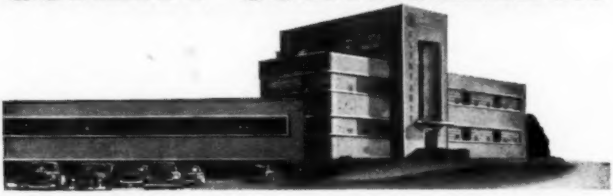
Magnum sheets are made in lengths of 4 ft. to 10 ft. by 6 in. increments. Their weight as laid is approximately 47.25 lb. per sq. yd., including normal fixings. The price is 12s.3d. per sq. yd.

Moulded underlining sheets will be available in order to effect double-skin insulated cladding, similar to existing Universal sandwich constructions. Roof lighting is achieved with Unilux translucent sheets, made by U.A.M. Plastics Ltd. to the Magnum profile.

Details of Universal Magnum roof sheeting are given in the latest issue of U.A.M. Group Information (No. 2, 1959), pending the production of a full technical leaflet. Copies are available from the U.A.M. Group Advisory Service, Tolpits, Watford, Herts. (Watford 34551).

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QUALITY-CONTROLLED...



Flintkote's modern research center at Whippany, New Jersey provides the facilities and technical know-how to determine the right fibres for diversified product uses.

...FLINTKOTE Asbestos Fibres

You, too, can gain from experience. The Flintkote Company stresses quality—has manufactured quality products for over fifty years—uses quality-controlled asbestos fibres produced by Flintkote Mines in many of its products.

A wide variety of asbestos fibres now available for *your* use.

For further information and descriptive brochure—Write: The Flintkote Company, East Rutherford, New Jersey.

FLINTKOTE MINES, LIMITED

(Subsidiary of The Flintkote Company) Thetford Mines, P. Q., Canada



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THIS AND THAT

An ingenious and inexpensive new counting and tallying device, worn like a wrist watch, is finding scores of daily uses in industrial plants and laboratories. Technologists and research men use the WRIST TALLY COUNTER for counting operations in laboratories and pilot plants. Industrial engineers and efficiency experts employ it in time-and-motion studies. Tally clerks and checkers find it invaluable for cargo and production tallies; counting traffic; recording pile driver strokes; tallying loads or batches of sand, cement and other materials; and dozens of other uses. It is also popular with golfers for recording scores.

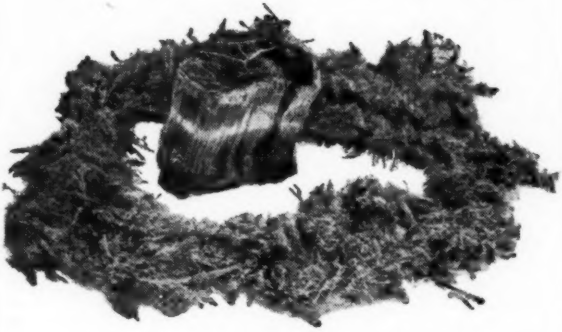
Worn on the wrist, the Tally Counter cannot be lost or mislaid. Operation is simplicity itself; just push the button and count is tallied on visible dials. The Tally Counter totals to 99 and dials are easily reset to zero by turning knobs. Lightweight, sturdy Swiss construction assures durability and efficiency under hard use. Dimensions are 1-7/16" x 1-1/4" x 1/4". Leather wristband included. Remarkably low priced at $3.95 postpaid. Available on direct order from Edmund Scientific Company, Barrington, New Jersey.

Robert W. Egolf, an honor graduate of Ambler High School, Ambler, Pennsylvania, was the recipient of the sixth annual Keasbey & Mattison Co. scholarship to the College of Engineering of Drexel Institute of Technology, Philadelphia, Pennsylvania. Mr. Robert R. Porter, President of Keasbey & Mattison, made the presentation. K&M instituted the $1800 scholarship as a means of encouraging qualified high school graduates to enter the engineering profession. Young Egolf will study physics at Drexel and work at Keasbey & Mattison during the industry periods in which he will participate under the Institute's Co-op Program.

The Travelers Insurance Companies studies show that exceeding the speed limit caused 12,770 deaths and 980,000 injuries during 1958 on our highways.

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Australian Blue Asbestos Limited



Australian Blue is an ideal fibre for asbestos cement and for purposes requiring good heat insulation and acid resistance. It has excellent spinning properties. Samples available on request.

SOLE SELLING AGENTS

Minerals Fibres Ltd., Market Buildings, Mark Lane, London.
Argentine, Belgium, Brazil, Chile, Columbia, Denmark, France and French Morocco, Egypt, Eire, Great Britain, Holland, India, Israel, Italy, Mexico, Norway, Pakistan, Peru, Portugal and Portuguese Africa, Spain, Sweden, Switzerland, Turkey, Uganda, Uruguay, Venezuela.

Carters (Merchants) Ltd., Winchester House, Old Broad St., London.
Austria, Czechoslovakia, Germany, Hungary, Japan, Poland, U.S.S.R., Yugoslavia.

In Australia, address inquiries to:—
AUSTRALIAN BLUE ASBESTOS LTD.,
89 St. George's Terrace, Perth, Western Australia.

CSR
BUILDING CONFIDENCE

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Building Spending Hits Alltime High For First Quarter

Total spending for new construction in the first quarter of 1959, a record $10.0 billion, showed a 12% increase over the same period last year, Architectural Forum recently reported.

The magazine said $3.4 billion was spent in the first quarter for new dwelling units, a jump of 32% over the first quarter of 1958. And new homes were being started at a seasonally adjusted rate of 1,390,000 per year in March.

However, private nonresidential construction actually trailed last year's first quarter by $207 million, or about 5%.

The drop in nonresidential activity is attributable to the continuing slump in industrial building (down 34% in the first quarter) and office building (down 9%). Forum said that industrial building is expected to recover later in the year, but office construction will probably continue its slide and end with its first minus year since 1952.

Other areas of private nonresidential building that showed minus signs in the first quarter were hospital building (down 6%) and the building of telephone and telegraph facilities (down 14%).

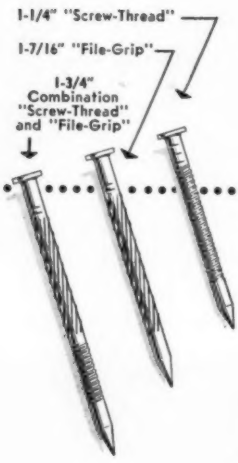
Running counter to the generally downward trend of nonresidential building is the construction of stores, restaurants and garages. After two years of decline, store building shows a rise of 16% for the first quarter of 1959, an increase largely due to shopping center construction.

In the booming area of public building (up 16% in the first quarter to a record of $3.1 billion), there is only one worrisome spot—school building. School building dropped slightly from last year's first quarter.

On the other hand, highway building boomed 23% above last year's similar period, and a $6 billion total for highway spending in 1959 seems a certainty—unless, as some officials have indicated, the federal Highway Trust Fund runs dry.

This year, as much as 50% of total highway spending may come from federal sources, compared with about 20% in 1956.

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new!

nichols
NEVER-STAIN

PAINTED
ALUMINUM
ASBESTOS FACE
Nails

TO MATCH
THE *NEWEST*
COLORS IN
ASBESTOS SIDING

WRITE for FREE CHART and SAMPLES of 7 standard colors available from stock.

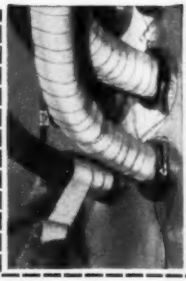
Your products deserve the best fasteners available. Protect their beautiful colors with inconspicuous NICHOLS RUSTPROOF PAINTED ALUMINUM NAILS. We will paint aluminum asbestos face nails to meet your exact color-match requirements; also available in the satin etched finish. Write today.

nichols WIRE & ALUMINUM CO.
DAVENPORT, IOWA

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J-M Asbestos Tubing selected asbestos yarn braided into flexible, fireproof, chemical-resistant sleeving. Inside diameters 1/64"-2½". Plain or wire-inserted.



An important "plus" in J-M Asbestos FIBRES or TEXTILES...

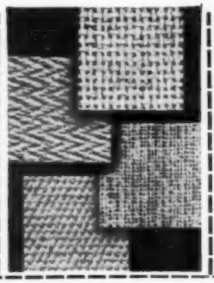


Imagine—asbestos fibres some 1500 times finer than a human hair . . . controlled to meet strict grading requirements and over 20 textural classifications!

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J-M No. 55 Tape silicone-impregnated asbestos, cuts costs of fireproofing electrical cable . . . repels water . . . resists oil, fungus, mold, rot . . . and is non-sagging.



J-M Asbestos Cloth uniform textures from *light-proof* to *open weave*. Exceptional resistance to heat, flame, chemicals. In all standard grades.

ILES . . .

QUALITY

is carefully controlled at Johns-Manville

Some of the most comprehensive quality standards ever devised by industry assure that all 60 or more grades of Johns-Manville crude and milled asbestos—and the asbestos textiles made from them—are *exactly* as defined.

Day in and day out, in every step of production, continuous testing is run to measure and control a score of properties. Wet and dry volumes, adsorption levels, settling rates, grit removal, density and degree of fiberization —nothing escapes the eye of J-M Quality Control.

This unrelenting attention to product detail explains the high acceptance of Johns-Manville in asbestos fibres today. It also helps explain how asbestos textiles and products fabricated from these raw materials can meet the highest standards.

For FIBRE literature write Asbestos Fibre Division, Box 1500, Asbestos, Quebec, Canada.

For TEXTILE literature write Asbestos Textiles Department, Box 14, New York 16, N. Y.

JOHNS-MANVILLE JM PRODUCTS

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MARKET CONDITIONS

GENERAL BUSINESS.

General business continues to improve by leaps and bounds. In most areas the upturn has brought substantial improvements in volume of sales accompanied by even more improved profits. At this writing a steel strike appears almost certain—whether this will hurt the steel industry is a large question mark. Warehouses are full of steel and large users have, on the most part, substantial inventories. Gross national product, total national income and similar measures of our economic health are at all time highs. Some isolated companies are still not feeling the general upsurge but on the whole it appears that we are in a rea. boom period, the end of which is not yet in sight. Financial markets have had their ups and downs of late but the most recent moves have been upward and, while the stock market is quite selective, the generally recognized averages are steady to higher.

ASBESTOS—RAW MATERIAL.

Total Canadian shipments for the first five months have exceeded those of 1958 for the same period by 15% and it is expected the upward trend will continue with the pick-up in general business conditions.

Shipments for the months of June and July will be slightly lower than any previous month as a result of vacations at the Mills and consumers plants; however, higher than 1958.

Inventories are relatively high in all grades.

ASBESTOS—MANUFACTURED GOODS.

Asbestos Textiles. This market has been unusually strong during the first six months of this year, due to abnormally high production in steel and other basic industries, as well as a large amount of available government business. A prolonged steel strike would seriously curtail the demand for asbestos textiles; however, with the exception of this possibility, the market for the balance of the year appears extremely favorable.

Asbestos Brake Lining. Market is still running at

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record high sales level in replacement. Equipment Sales are at a much better level than the same period in 1958. If the steel strike occurs, a depressing effect may be realized on both O.E.M. and replacement sales. The market should continue to be good in replacement, and Equipment Sales should level off in the next few months due to new models coming out in the fall.

Asbestos Paper. There is some light pick-up in business and capacity to produce is still well in excess of demand. An increase of 3 to 5% is looked for over the current levels by the end of the year. Orders for *Millboard* are about the same as last month except that prices are more competitive. The volume for this material is expected to be slightly higher than last year.

High Pressure Insulation. Orders for this material are coming in at a steady rate even though prices are extremely competitive among the contractors for the business which is available, with very low prices being quoted. Present situation will continue until industrial construction increases substantially. There is some indication of an increase in industrial construction for the fourth quarter.

Low Pressure Insulation. Orders have slowed down somewhat, due to the use of other materials. It is anticipated that the volume for this product will continue to decline.

Asbestos Cement Products. The market situation for this product is still improving and is expected to continue in an upward trend for the balance of the year.

Shingles—Roofing & Siding. There is some decline in June for this market compared to April and May; however, the same level as 1958 is anticipated in 1959.

Asbestos Pipes. At the present time, the usual seasonal pickup business is being experienced. The outlook is satisfactory due to a continuing high level of new residential construction.

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

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AUTOMOBILE SALES

	April 1959
Passenger Cars	585,789
Motor Trucks	116,910
Motor Coaches	253
	702,952

In April 1958, a total of 396,712 motor vehicles was sold. In the four months of 1959, the total was 2,602,321.

These figures were supplied by the Automobile Manufacturers Association, New Center Building, Detroit, Michigan.

N.F.P.A.—INSPECTION MANUAL

The well-known NFPA Inspection Manual, standard work of its kind, is now available in an enlarged and revised second edition. Designed for the use of property owners, fire departments and inspection offices, the pocket manual provides helpful information to beginners but also contains a selection of material which even experienced inspectors have frequent occasion to consult.

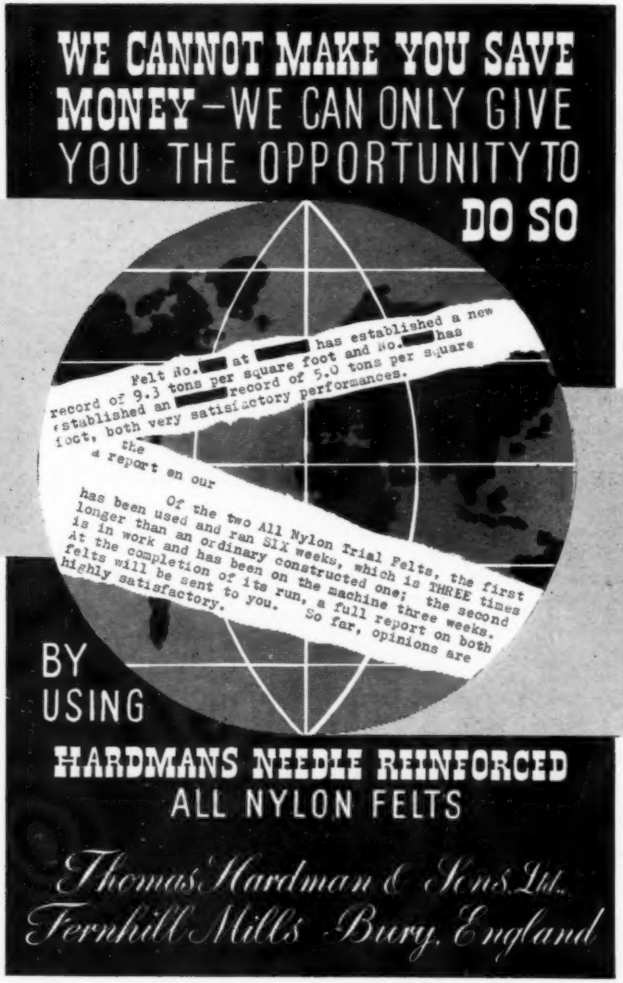
Subjects covered include inspection procedure, what to look for in various occupancies, heating hazards, inspection of protective equipment, what "approvals" mean, how to make plans and reports.

New material in the 320-page book ranges from sections on gas appliance connectors, factory-built chimneys and electrical equipment in paint-spraying areas, to flame-spread ratings of wall finish materials, extinguisher ratings and sprinkler requirements.

Editor of the 1959 edition of the Inspection Manual is Horatio Bond, chief engineer of the National Fire Protection Association. It was prepared under the direction of the NFPA Committee on Fire Inspection, of which William G. Hayne of the New York Board of Fire Underwriters is chairman.

The Inspection Manual is available, at $4.00 per copy, from the National Fire Protection Association, 60 Batterymarch Street, Boston 10, Massachusetts.

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PRODUCTION STATISTICS

AFRICA (Rhodesia)
(Published by Rhodesia Chamber of Mines)

Tons 2,000 lbs.

Production for Year 1958	127,115 18
Valued at	£8,593,726.
Production for Year 1957	132,124.01
Valued at	£9,016,388.
Production for March 1959	10,459.68
Valued at	£ 667,817.
Production for March 1958	10,660.52
Valud at	£ 740,854.

CANADA
(Dept. of Mines, Province of Quebec)

Tons 2,000 lbs.

Production for April 1959 (Quebec)	93,935
Other Provinces	4,204
	98,139

Total production for April 1958 was 83,477 tons.

CYPRUS
(From Inspector of Mines)

	1st Quarter (Ending March 31, 1959)		
	January	February	March
Rock Mined	7,151	21,246	30,201
Rock Treated	..	..	..
Fibre Produced	..	..	..
Fibre Exported	..	..	..

PHILLIPS ASBESTOS MINES
Producers of
CRUDES
and
FIBERIZED ASBESTOS
The World's Finest Fibres
DRAWER 71 GLOBE, ARIZONA
Mines and Mills in Gila Co., Arizona

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asbestos cement department

10, VIA SANTA TERESA

TURIN, ITALY

Manufacturers of all types of Fully Automatic

asbestos cement machinery

Daily output guaranteed according to the International Standard Specification:

150 ton high pressure pipes
300 ton flat and corrugated sheets

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UNION OF SOUTH AFRICA

(Quarterly Information Report—Dept. of Mines)

Tons 2000 lbs.

4th Quarter (Oct., Nov. and Dec. 1959)

	Production	Local Sales		Exports	
	Tons	Tons	Value	Tons	Value
Amosite	17,513	574	£ 12,383	15,810	£ 754,808
Chrysotile	7,120	1,712	44,298	6,423	374,143
Cape Blue	15,888	810	46,438	13,066	995,444
Transvaal Blue	4,015	143	9,705	2,792	202,648
Tremolite	70	55	908	6	87
	44,606	3,294	£113,732	88,097	£2,327,130

Year 1958

	Production	Local Sales		Exports	
	Tons	Tons	Value	Tons	Value
Amosite	69,773	4,012	£ 98,789	58,920	£2,789,029
Chrysotile	27,403	4,467	143,026	21,056	1,228,193
Cape Blue	61,520	3,685	218,769	53,753	4,124,677
Transvaal Blue	16,670	412	27,408	12,060	878,905
Tremolite	278	261	4,444	7	108
	175,644	12,837	£492,436	145,796	£9,020,912

FIBREBOARD APPOINTMENTS

The appointment of *Howard R. West* as manager, advertising and sales promotion, Fibreboard Paper Products Corporation, was recently announced by Jack L. Davies, director of marketing planning. According to Mr. Davies, Mr. West brings to Fibreboard a broad range of professional experience both in agency and industrial advertising.

It is also announced that *Frank Wilson*, formerly creative director for the Wyman Company in San Francisco, has been appointed "Pabco" brand advertising manager at Fibreboard. He will report to Mr. West.

Both men will headquarter at the Company's executive offices at 475 Brannan Street, San Francisco, California.

NATIONAL GYPSUM COMPANY

Six-Month Report

National Gypsum Company will set new six-month sales and earnings records in the first half of this year, Chairman Melvin H. Baker predicted.

Sales for each month this year set new records and the Company's assets have climbed to a new high of $247,000,000. National Gypsum's previous half-year sales record was set in the second half of 1958 when sales topped $89,000,000. The previous six-month earnings record was set in the same six-month period with total profits of $9,700,000.

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TECHNIQUES OF PLANT MAINTENANCE & ENGINEERING

The tenth volume in the annual series of the above publication is, appropriately, the most comprehensive of those published in the past decade. The 1950s saw the beginnings of the new science of maintenance. From a concept of maintenance as a mop and oil-can operation, the science has grown to one of the most important in industry. In the opinion of many, automation may push maintenance into the foremost position of importance in the 1960s.

The volume, published by Clapp & Poliak, Inc., New York City, is priced at $10 postpaid. It is bound in cloth-on-board, contains 266 pages, each 8½x11", and contains all papers read at the 1959 Plant Maintenance & Engineering Conference held in Cleveland last January.

LARGEST ROOFING FELT PLANT STILL GROWING

The Ruberoid Co., manufacturer of building materials, is completing construction of a finished product warehouse that will add approximately 20,000 square feet to the several acres now utilized for the production of dry felt at its Gloucester City, N. J., plant. One of 7 felt mills operated by Ruberoid, this plant has an annual capacity of some 80,000 tons of dry felt, a base material for asphalt roofing and hard floor covering, and will accommodate 2,000 tons of felt at one time—enough to supply roofing for 10,000 average-size single-family homes.

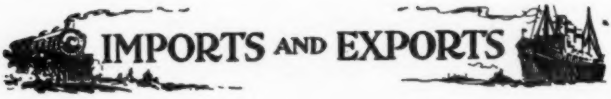
BUVOHA TRADE LETTER—1959

The above publication contains a great number of addresses of industrial and commercial firms in the Netherlands interested in trade relations with firms abroad.

Firms interested in business relations with Dutch firms can apply for a free copy by writing to the Bureau Voor Handelsinlichtingen (The Commercial Intelligence Office), 16 Oudebrugsteeg, Amsterdam C., Holland.

ASBESTOS FIBRES
ASBESTOS WASTE
Frank G. Ruggles Co. Inc.
26 BROADWAY
NEW YORK 4, NEW YORK

Asbestos Magazine, 1959, July 1959
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Imports Into U. S. A.

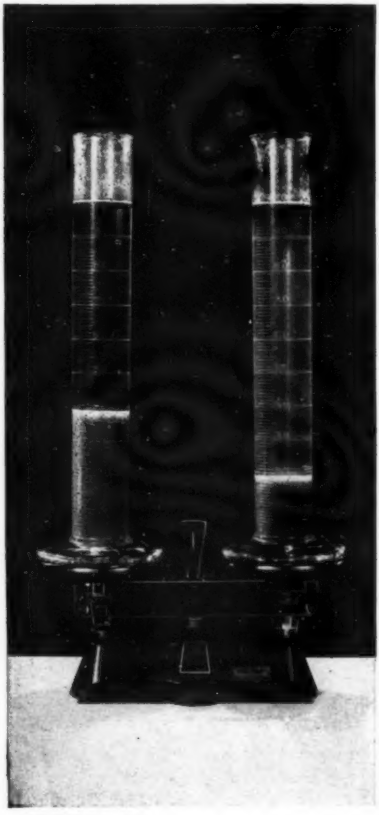
(Figures by Bureau of Census)

Unmanufactured Asbestos:	January 1959 Tons (2240 lbs.)
From: Canada	40,161
Union of South Africa	2,312
Rhodesia (Ny)	590
Australia	359
Mozambique	256
United Kingdom	39
Other Countries	50
	43,767
Valued at	$4,347,503

By Grades:

Crude No. 1, Chrysotile, Rhodesia (Ny)	31
Crude No. 1, Chrysotile, Other Ctys	5
Crude No. 2, Chrysotile, Rhodesia (Ny)	18
Crude No. 2, Chrysotile, Other Ctys	11
Crude, Other, Chrysotile, Rhodesia (Ny)	197
Crude, Other, Chrysotile, Other Ctys	33
Crude, Blue, Australia	359
Crude, Blue, Mozambique	256
Crude, Blue, Union of South Africa	1,148
Crude, Blue, Rhodesia (Ny)	200
Crude, Amosite, Union of South Africa	985
Textile Fibres, Chrysotile, Canada	1.270
Textile Fibres, Chrysotile, Union of S. Africa	179
Textile Fibres, Chrysotile, Rhodesia (Ny)	144
Textile Fibres, Chrysotile, Other Ctys	1
Shingle Fibres, Chrysotile, Canada	3,551
Paper Fibres, Chrysotile, Canada	3,164
Other Fibres, Chrysotile, Canada	32,176
Other Fibres, Chrysotile, United Kingdom	39
	43,767

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High bulking or low bulking fibres, whichever you need

Gold Bond Asbestos Fibres are available in either form to give you closer control of your costs through better formulation control. Gold Bond® fibres are light in color, and strict quality control assures you of uniform fibre length and minimum fines content. Whatever your asbestos needs may be, check first with National Asbestos Mines Ltd., Thetford Mines, P.Q., Canada. (Subsidiary of National Gypsum Co.)

a step ahead of tomorrow

Gold Bond
INDUSTRIAL PRODUCTS

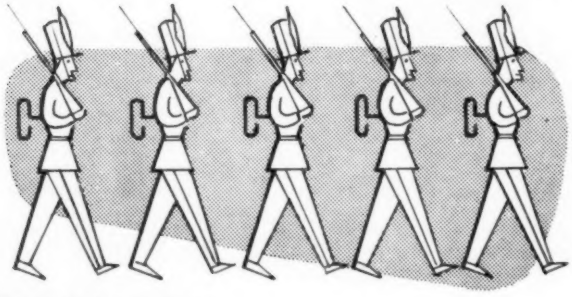
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Manufactured Asbestos Goods:	January 1959	
	Quantity (lbs.)	Value
Asbestos Yarn, United Kingdom	34,214	$ 22,700
Asbestos Yarn, Other Countries	8,211	5,394
Asbestos Packing	4,661	5,449
Asbestos Shingles (Impreg)	21,854	978
Asbestos Shingles (Not Impreg)		
United Kingdom	211,071	19,111
Belgium	476,213	34,490
Italy	1,164,024	45,999
Other Countries	27,747	3,340
Asbestos Manufactures — Others	..	6,999
	1,947,995	$144 460

Unmanufactured Asbestos:	February 1959
	Tons (2240 lbs.)
From: Canada	43,286
Union of South Africa	1,947
Yugoslavia	1,132
Rhodesia (Nyasaland)	288
Mozambique	165
United Kingdom	41
Other Countries	21
	46,880
Valued at	$4,703,568
By Grades:	
Crude, Chrysotile, Canada	40
Crude, Chrysotile, Yugoslavia	1,132
Crude, Chrysotile, Mozambique	165
Crude, Chrysotile, U. of So. Africa	247
Crude, Chrysotile, Rhodesia (Ny)	108
Crude, Blue, Union of South Africa	720
Crude, Blue, Rhodesia (Ny)	45
Crude, Amosite, U. of So. Africa	980
Textile Fibres, Chrysotile, Canada	1,514
Textile Fibres, Chrysotile, Rhod (Ny)	135
Textile Fibres, Chrysotile, Other Ctys	21
Shingle Fibres, Chrysotile, Canada	4,952
Paper Fibres, Chrysotile, Canada	3,922
Other Fibres, Chrysotile, Canada	32,858
Other Fibres, Chrysotile, U. K.	41
	46,880

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DURASORB FELTS
give better uniformity



because...

Albany Felt's new needled construction permits a consistency of fabric which is translated into felt-to-felt uniformity on your machines. This characteristic, combined with exceptional performance in terms of improved finish, drainage and longer life, brings you a new dimension in felts for asbestos-cement shingles, siding and sheets.

Ask your Albany Felt Sales Engineer for full details and case histories on the new DURASORB Felt.

AF

ALBANY
FELT COMPANY

Main Office & Plant, Albany, N. Y.
Other plants: Hoosick Falls, N. Y., N. Monmouth, Me.
St. Stephens, S. C., Cowansville, P.Q.

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Manufactured Asbestos Goods:

	February 1959	
	Quantity (lbs.)	Value
Asbestos Yarn, United Kingdom	37,489	$ 25,399
Asbestos Packing	13,735	3,930
Asbestos Shingles (Impreg)	52,109	7,396
Asbestos Shingles (Not Impreg)		
Belgium	2,882,388	196,049
Italy	1,656,936	57,891
Other Countries	3,239	463
Asbestos Manufactures — Others	..	6,510
	4,645,896	$297,638

C. A. BERLEPSCH RETIRES

Charles A. Berlepsch, director of purchases for Rockbestos Products Corporation, manufactures of insulated electrical wires and cables, will retire on June 30 after 41 years with the Company, it was recently announced by Albert S. Redway, Rockbestos president.

Mr. Berlepsch has held several responsible positions with Rockbestos since his first job in the laboratory with the company in 1918. In fact, he was involved in the sale of the first reel of wire made by the Company which then was just getting started.

He resides in Hamden, Connecticut.

MINING JOURNAL ANNUAL REVIEW

The 1959 Edition of this unique continuing record of the progress of mining throughout the world was published on May 22.

It is unique in that it is the only available publication giving a prompt annual report on the progress of mining throughout the world in both a technical and economic context.

The authoritative character of this REVIEW derives from the experience gained in over 20 years continuous publication and is reflected in a readership of between 15,000 and 20,000 people connected with every aspect of mining in over 80 countries.

All recent developments in mineral exploration, mining (both underground and open pit), ore treatment and refining are fully dealt with by recognized authorities.

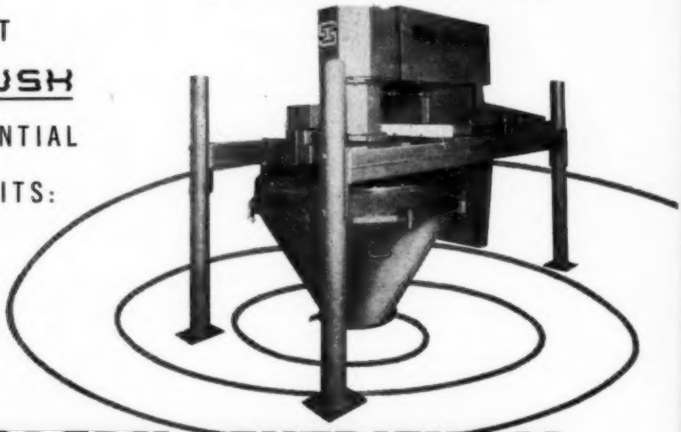
The REVIEW surveys the economic position of each metal, and of the whole mining industry (country by country) in the light of the latest trends. Of particular interest to mining investors are the informed progress reports on over 150 of the principal mining companies in the Commonwealth.

The cost of this REVIEW is 21 shillings (or U.S. $3.00) per copy, postage paid, and may be obtained from The Mining Journal, 15, Wilson Street, London, E C. 2, England.

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Series 40 Entoleter CentriMil® has capacity in excess of 20 tons per hour when releasing crudy, or fiberizing 6 tons per hour.

DON'T
CRUSH
POTENTIAL
PROFITS:



MODERN CENTRIFUGAL IMPACT MILLING

- Reduces rock, releasing fiber intact
- Has increased yield as much as 15%
- Boosts both value and volume of output
- Requires less power per ton
- Constant product from start-up to shut-down

The rugged Entoleter® Centrifugal Impact Mill is specially engineered to break open rock along natural cleavage lines liberating crudy asbestos with minimum degradation of fiber. Its superiority over conventional methods has been production proven.

The same impact principle at higher velocities is used for fiberizing without degradation. Write for details. *Free* sample processing is available in the Entoleter Development Laboratory.

ENTOLETER DIVISION
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P. O. BOX 904 NEW HAVEN 4, CONN.

PINTSCH COMPRESSING CORPORATION
ENTOLETER DIVISION
ELECTRICAL DIVISION

LIGHTING DIVISION
SAFETY RAILWAY SERVICE CORPORATION

AUTOMATIC TIMING & CONTROLS, INC.
THE HOWE SCALE COMPANY
SI HANDLING SYSTEMS

IN CANADA: LYNN, MACLEOD ENGINEERING SUPPLIES, LTD., THETFORD MINES, P. Q., CANADA

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Exports from U. S. A.

(Figures by Bureau of Census)

Unmanufactured Asbestos:	March 1959 Tons (2240 lbs.)	Value
To: Europe	181	$24,152
United Kingdom	20	1,880
South America	17	2,740
Canada	5	1,664
Other Countries	4	2,040
	227	$32,476

Manufactured Asbestos Goods:		March 1959 Quantity	Value
Asbestos Cement & Pipe Covering	Lbs.	470,297	$ 148,345
Asbestos Textiles & Yarn	Lbs	92,167	91,410
Asbestos Packing	Lbs.	260,918	244,001
Asbestos Clutch Facing	No.	109,549	100,157
Asb. Bk. Lng. (Mld. & S. Mld.)	Lin. Ft.	193,520	55,336
Asbestos Brake Lining, Other	Lbs.	345,081	314,304
Asbestos Construction Materials	Lbs.	1,455,533	226,987
Asbestos Manufactures—Others		..	48,356
		2,927,065	$1,228,896

FLINTKOTE APPOINTS

Melvin W. Rippe has been appointed District Manager for the Flooring and Adhesive Division of The Flintkote Company, it has been announced by W. L. Harper, General Sales Manager.

Mr. Rippe's territory will cover the entire state of Oklahoma and the northwest counties of Texas.

„ Tropag "

Hamburg —:— Ballindamm 6

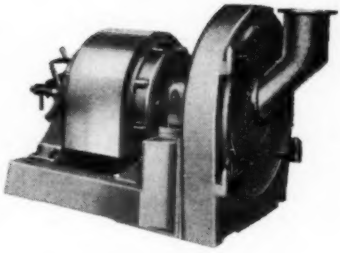
Importers since 1909 of

ASBESTOS-ORES-MINERALS

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Bauer



Single Revolving Disc Mills

for your wet grinding

In this type of mill, one disc rotates while the other remains stationary.

These famous Bauer machines are used for wet applications in the asbestos industry . . .

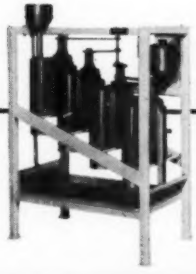
1. To reduce coarse particles—1/16" and larger.
2. To deflock fiber bundles in asbestos slurry, for the production of both paper and cement.

Our mills are adaptable to many specific purposes. We take pride in engineering installations to meet exact requirements. When we encounter new problems, we make tests in our fully equipped research laboratories.

You are invited to consult with us.

THE BAUER BROS. CO.
1826 SHERIDAN AVE.
SPRINGFIELD, OHIO

CANADIAN AGENTS:—Lynn Macleod Engineering Supplies Ltd., Thedford Mines, P.Q.
EXPORT AGENTS:—M. Neumunz & Son, Inc., 90 West St., New York 6, N.Y.



Bauer-McNett Classifier

A widely used device for classifying any sample of slurry into a number of fractions, each containing fibers of the same approximate length. Ask for literature.

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Exports from Canada

(Published by Dominion Bureau of Statistics)

Unmanufactured Asbestos:	March 1959 Tons (2000 lbs.)	Value
Crude		
United States	21	$ 17,075
United Kingdom	..	..
South America	..	..
Central America & Mexico	..	..
European Countries	..	..
Other Countries	2	1,576
	23	$ 18,651
Milled		
United States	12,135	$2,404,893
United Kingdom	716	249,269
South America	532	120,932
Central America & Mexico	330	57,920
European Countries	702	213,008
Other Countries	2,426	443,584
	16,841	$3,489,606
Shorts		
United States	41,433	$2,301,754
United Kingdom	550	23,145
South America	210	17,629
Central America & Mexico	73	4,554
European Countries	828	40,051
Other Countries	703	50,043
	43,797	$2,437,176
Grand Total— Unmanufactured Asbestos:	60,661	$5,945,433

Manufactured Asbestos Goods:	
Brake Lining	$ 23,122
Packing	..
Other Materials	5,378
	$ 28,500

WILHELM BURGDORF

Importer of **Raw Asbestos**

P. O. Box 1131, BREMEN, GERMANY

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Exporters of

RAW ASBESTOS

ALL GRADES—ALL TYPES

C. J. PETROW & COMPANY (PTY.) LTD.

P. O. BOX 11000 — CABLE: SOTSEBSA

VOLKSKAS BLDG. — 76 MARKET STREET

JOHANNESBURG - SOUTH AFRICA

INDUSTRIAL SERVICE COMPANY

Builders of

ASBESTOS CEMENT MACHINERY

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

Your Inquiries Are Invited

1-51 Paterson Avenue E. Rutherford, N. J.

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PERSONNEL NEWS FROM K&M

S. R. MacWhinney has been named merchandising manager of asbestos-cement pressure pipe, according to James R. Reichel, general sales manager of the Asbestos-Cement Pipe Division of Keasbey & Mattison Company, Ambler, Pa. Mr. MacWhinney joined K&M in 1956 as a general line salesman in its Chicago district operating in Kansas and Missouri. He was formerly with Paige & Hill Homes, Inc., as a sales project engineer.

E. J. Lawless will serve as sales engineer in the Building Products Division of Keasbey & Mattison. Prior to joining K&M, Mr. Lawless was associated with the Benson Company of Kansas City, manufacturers of curtain wall components.

C. C. Clubb has been appointed assistant district manager in K&M's Houston district, having responsibility for asbestos-cement pipe sales. Mr. Clubb had been a K&M representative in the San Antonio area.

M. E. Fuller, formerly K&M representative in the San Francisco area is the new assistant district manager in the San Francisco district of Keasbey & Mattison. Mr. Fuller will be primarily responsible for sales of irrigation, sewer pipe as well as asbestos-cement air duct.

ASBESTOS TEXTILES

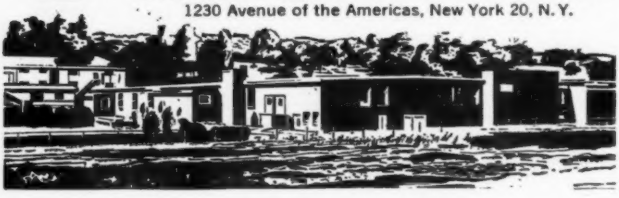
US RUBBER

are manufactured in our own modern plant at Stark Mills, Hogansville, Ga. Spinning and weaving operations are closely controlled for maximum uniformity in asbestos yarns, fabrics and tapes. Specialties developed to meet customers' requirements.

Write: Asbeston® Dept., Textile Division

UNITED STATES RUBBER COMPANY

1230 Avenue of the Americas, New York 20, N.Y.



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Now in operation: New independent source of Asbestos: Lake Asbestos of Quebec, Ltd. will produce 100,000 tons of high-quality chrysotile asbestos fibre annually. If you need a new dependable source for high grade asbestos, write to Asarco International Corp., 120 Broadway, New York 5, N. Y., distributor for Lake Asbestos.

Overseas Sales Agents:

ARGENTINA
(for Argentina, Uruguay)
Ladislao Kohn,
Buenos Aires

AUSTRALIA
Mount Isa Mines Ltd.,
Sydney

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

CHILE
Agencies Kapel Ltda.,
Santiago

COLOMBIA
Holanda Colombia, S.A.,
Barranquilla

ENGLAND
(for U. K., Spain, Portugal)
Metal Traders Ltd.,
Asbestos Division, London

FRANCE
Dieppedalle & Seilles,
Paris

HOLLAND
(for The Netherlands,
Belgium, Switzerland)
Keyser and Mackay,
Amsterdam

ITALY
G. Vaciago, Torino

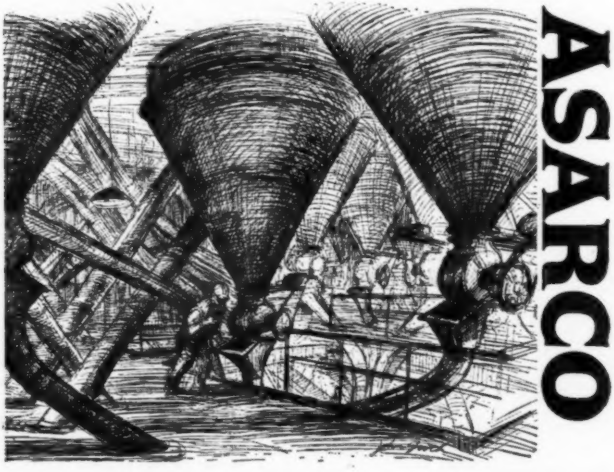
JAPAN
C. Itoh Co., Ltd., Tokyo
Metal Traders, Inc.,
Tokyo

SWEDEN
Aktiebolaget
Ingeniorsfirman Titan
Stockholm

NORWAY
Astrup & Son
Oslo

WEST GERMANY
(for W. Germany, Austria)
Atlanta 7 Bremen

LAKE ASBESTOS OF QUEBEC, LTD.
a subsidiary of American Smelting and Refining Company



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RUBEROID DIVISION
OPENS NEW RESEARCH LAB

A new research laboratory, whose work will benefit the homeowner of tomorrow, will be placed in full operation this week by The Funkhouser Mills, Division of The Ruberoid Co., a major producer of asphalt and asbestos building materials. Located at Hagerstown, Maryland, the facility will permit expanded and intensified study of roofing granules—tiny pieces of colored rock that add attractiveness, longer life and greater fire resistance to asphalt shingles.

The modern, air-conditioned building provides Funkhouser's staff of research chemists with several times more area than heretofore for product development and testing, study, administration and storage.

Funkhouser has been supplying roofing granules to many of the nation's leading building products manufacturers since 1914. Its mines and mills which produce the granules are located at Charmian and Delta, Pennsylvania, and Fairmount, Georgia.

ASBESTOS STOCK QUOTATIONS

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

		June 1959		
	Par	Low	High	Last
American Brake Shoe	np	50¼	54⅛	51⅞
Armstrong Cork (Com)	1	41½	45⅞	45⅜
Armstrong Cork (Pfd)	np	77	81½	78¾
Asbestos Corporation	np	27¼	29⅞	28¼
Philip Carey	10	41½	44⅝	42⅛
Cassiar Asbestos Corp.	np	10½	11¾	10⅞
Celotex (Com)	1	39	42⅝	40⅜
Celotex (Pfd)	20	18½	19¼	19¼
Certain-Teed	1	12⅞	15¼	13¼
Fibreboard	np	46	55⅝	51
Flintkote (Com)	5	38¾	44¼	39
Flintkote (Pfd)	np	87	89	88
Johns-Manville	5	50¾	55¾	52½
National Gypsum (Com)	1	57⅞	67⅜	58¾
National Gypsum (Pfd)	np	92	97	94½
Porter, H. K.	100	90¼	94	91
Raybestos-Manhattan	np	65	71	68
Ruberoid	1	40½	46⅞	44¾
Unarco	5	9¼	13⅛	12⅜
United Asbestos	1	$4.35	$5.35	$5.15
U.S. Gypsum (Com)	4	100¾	114½	105
U.S. Gypsum (Pfd)	100	147½	155	150
U.S. Rubber (Com)	5	57⅝	65⅝	63⅞
U.S. Rubber (Pfd)	100	143¼	148¼	146

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BELL ASBESTOS MINES LTD.

THETFORD MINES, QUE.

CANADA



Producers of

Raw Asbestos Crudes

& Fibres



Sales Representatives

for

Cassiar Asbestos Corporation Limited

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NEWS OF THE INDUSTRY

HAPPY BIRTHDAY

Thomas L. Gatke, President, Gatke Corp., Chicago, Illinois, July 16.

L. U. Noland, Chairman of the Board, Noland Co., Inc., Newport News, Virginia, July 17.

Robert R. Porter, President, Keasbey & Mattison Co., Ambler, Pennsylvania, July 17.

G. F. Bahrs, Vice President & Treasurer, The Ruberoid Co., New York City, July 18.

J. F. D. Rohrbach, President, Raybestos-Manhattan, Inc., Passaic, New Jersey, July 18.

R. F. Turner, Sales Promotion Manager, The Philip Carey Co., Lockland, Cincinnati, Ohio, July 18.

C. B. Whitley, Secretary, Scandinavia Belting Co., Charlotte, North Carolina, July 20.

C. J. Backstrand, President, Armstrong Cork Co., Lancaster, Pennsylvania, July 21.

Laurence W. Clarke, Vice President, The Philip Carey Manufacturing Co., Lockland, Cincinnati, Ohio, July 21.

R. S. King, Chairman, The Philip Carey Manufacturing Co., Lockland, Cincinnati, Ohio, July 21.

W. S. Simpson, Director & Secretary, Raybestos-Manhattan, Inc., Bridgeport, Connecticut, July 21.

R. R. Galloway, Vice President, Fibreboard Paper Products Corp., San Francisco, California, July 22.

J. E. Hooker, Pacific Roofing Co., Portland, Oregon, July 22

Roscoe E. Tallman, Director of the Board, Tallman McCluskey Fabric Co., Kirkwood, Missouri, July 22.

Charles A. Saitta, President, Asbestos Corp. of America, New York City, July 23.

C. R. Hubbard, Vice President, Garlock Packing Co., Palmyra, New York, July 25.

Hilton A. Moberg, President, Arnold Insulations, Inc., Chicago, Illinois, July 25.

Frank C. LeRow, Executive Vice President, Asbestos, Asphalt & Insulation, Inc., Chicago, Illinois, July 26.

P. H. Ryan, Merchandise Manager, Pabco Building Materials Division, Fibreboard Paper Products Corp., San Francisco, California, July 26.

R. S. Hammond, General Sales Manager, Building Products Division, Johns-Manville Corp., New York City, July 27.

John Ozurovich, President, Atlantic Asbestos Corp., New York City, July 31.

Harry H. Heckroth, Vice President, Penn Supply & Metal Corp., Philadelphia, Pennsylvania, August 2.

C. W. Gregg, Treasurer & Director, The Flintkote Co., New York City, August 3.

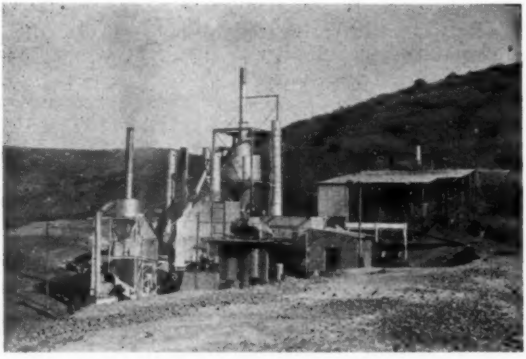
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Antony Gibbs & Co., Inc.

61 Broadway

New York 6, New York

Tel. Digby 4-6580



View of Blue Asbestos Reducing Mill

ASBESTOS FIBRES

Chrysotiles, Blues, Amosites

Agent in the United States for

S. A. ASBESTOS TRADING (PTY.) LTD.

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G. P. Reilly, Plant Manager, Smith Asbestos Products, Inc., Millington, New Jersey, August 5.
A. P. Keasbey, President, Robert A. Keasbey Co., New York City, August 6.
John Dragisic, President, Inland Insulation Co., Chicago, Illinois, August 9.
Melvin H. Baker, Chairman of the Board, National Gypsum Co., Buffalo, New York, August 11.
Grant V. Wilson, President, Grant Wilson, Inc., Chicago, Illinois, August 11.
Matthew L. Ladden, President, Ladden Asbestos Corp. of New Jersey, Irvington, New Jersey, August 15.

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

CANADIAN JOHNS-MANVILLE CO., LTD.

Appointment of D. Lloyd Monroe

Karl V. Lindell, Vice President of Canadian Johns-Manville and General Manager of the Company's Asbestos Fibre Division has announced the appointment of *D. Lloyd Monroe*, formerly Assistant Production Engineer, to the position of Technical Consultant for the Sales Department.

In February 1948, Mr. Monroe was hired by Canadian Johns-Manville as Senior Mining Engineer. During his more than ten years of service, he has also held the positions of Chief Design Engineer, Assistant Plant Engineer and Assistant Production Engineer. He is a graduate of the University of British Columbia with the degrees of B.A. and B. Sc. in Mining Engineering.

In his newly established position of technical assistant, D. L. Monroe will act as liaison man between production and sales personnel with respect to the technical and sales engineering aspects of the sale of asbestos fiber. He will promote the scope of fibre sales by stimulating efforts to see that customers are supplied with quality fibres most appropriate for their needs.

"Specialty Fibres Our Business"

Metate Asbestos Corporation

P.O. Box 111 Globe, Arizona

Producers of Arizona Asbestos Grades
AAA, 3, 4, 5, 6, 7 and 8 Milled Fibres

Very white, low iron content, high drainage harsh fibres, high filtration soft fibres.

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RAW ASBESTOS DISTRIBUTORS

LIMITED

FOR CANADIAN, RHODESIAN
AND SOUTH AFRICAN ASBESTOS

ASBESTOS HOUSE • 77-79 FOUNTAIN ST. • MANCHESTER 2
ENGLAND

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CURRENT RANGE OF PRICE

As of July 10, 1959

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

No. 1 Crude (soft)	$1,475.00 to $1,850.00
No. 2 Crude (soft)	830.00 to 1,260.00
Group-3 (Plastic & Spinning Fibre)	375.00 to 675.00
Group-4 (Plastic & Filtration)	190.00 to 250.00
Group-5 (Plastic & Moulding)	125.00 to 177.00
Group-7 ((Refuse & Shorts)	60.00

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

Group No. 1 (Crude No. 1)	$1,475.00 to $1,850.00
Group No. 2 (Crude No. 2); Crude Run-of-Mine and Sundry	790.00 to 1,200.00
Group No. 3 (Spinning Fibre)	370.00 to 650.00
Group No. 4 (Shingle Fibre)	180.00 to 245.00
Group No. 5 (Paper)	120.00 to 150.00
Group No. 6 (Waste, Stucco or Plaster)	.. 86.00
Group No. 7 (Refuse or Shorts)	40.00 to 80.00

VERMONT—Per ton of 2,000 lbs. f.o.b. Hyde Park or Morrisville, Vt.

Group No. 3 (Spinning & Filtering)	$ 370.00 to $ 428.00
Group No. 4 (Shingle Fibre)	181.00 to 200.00
Group No. 5 (Paper Fibre)	120.00 to 152.00
Group No. 6 (Waste, Stucco or Plaster)	.. .. 86.00
Group No. 7 (Refuse or Shorts)	41.00 to 75.00

JOHNS-MANVILLE CORPORATION

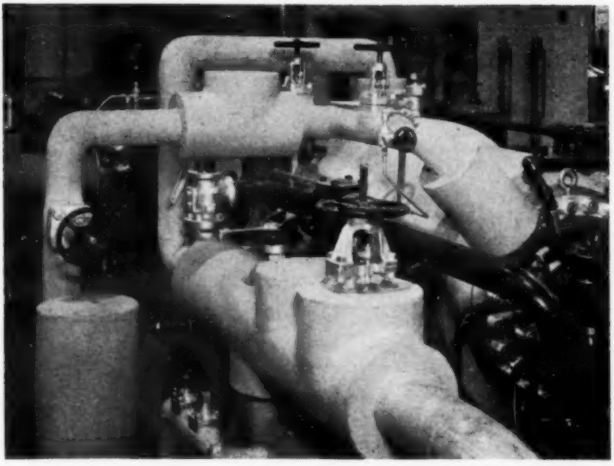
Multi-Million Dollar Plant

Johns-Manville has announced that immediate construction will begin on a new highly-mechanized, multi-million dollar plant at Chillicothe, Ohio, for the manufacture of J-M vinyl plastic and asphalt floor tiles.

When completed in the summer of 1960, the new factory will expand the Company's floor tile productive capacity by more than 33 per cent.

Operation of the new plant will be assigned to the Johns-Manville Building Products Division, one of ten J-M operating Divisions producing more than 500 lines of industrial products and building materials. W. R. Wilkinson, Vice President of Johns-Manville Corporation, is General Manager of the Building Products Division with headquarters in New York.

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Maximum control of temperatures with
PABCO PRECISION-MOLDED CALTEMP
a Calcium Silicate Insulation

Curb expensive heat loss, control temperatures within minimum tolerances with performance-proved Pabco Insulations. For power plant piping and equipment, a Pabco Insulation insures peak performance wherever temperatures must be maintained up to 1900° F. Pabco's Caltemp and 85% Magnesia insulations are "Precision-Molded" by a patented process in both pipe and block form. For data on technical advantages... case histories... or engineering consultation, write... or call... a Pabco insulation engineer.

INSULATION GUIDE

Temperature	Recommended Pabco Insulation
to 550° F.	85% Magnesia pipe covering • block • cement
to 1200° F.	Caltemp pipe covering • block • cement
to 1500° F.	Prasco 15 C pipe covering • block • cement
to 1900° F.	Prasco 19 C block

PABCO

INDUSTRIAL INSULATIONS DIVISION

Fibreboard Paper Products Corporation
San Francisco 19 • Chicago 54
Houston 4 • New York 16 • Los Angeles

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ASBESTOS CHAPTER

Preprint from 1957 Minerals Yearbook

The 1957 Chapter on Asbestos from the U. S. Minerals Yearbook, published annually by the U. S. Bureau of Mines, has just arrived. All "ASBESTOS" readers who have collected an Asbestos Library, will want a copy. Send 10¢ (in coin) to the Superintendent of Documents, U. S. Government Printing Office, Washington 25, D. C.

It contains salient statistics of the Asbestos Industry in the United States, including a table of World Production of Asbestos, (by countries), 1948—1957, inclusive.

Other information on the Asbestos Industry in 1957 which the pamphlet contains will, no doubt, be of interest to our readers.

CAPE ASBESTOS COMPANY LTD.

New Glasgow Address

The offices of Mr. James L. Thomas, Scottish Area Manager of The Cape Asbestos Company Ltd., and his staff, have moved to a new building in the Springburn district of Glasgow. Their address is now: Hobden Street, Petershill Road, Glasgow, N. 1, Scotland. All Scottish inquiries concerning "Caposite" and "Rocksil" thermal insulation materials and "Capasco" brake linings and clutch facings should be made to this new address.

This is also the new address of Mr. A. Armour Clark, Scottish Area representative of Cape Building Products Ltd., subsidiary of Cape Asbestos and manufacturers of "Asbestolux" and Uxbridge Flint Bricks.

FRICTION MATERIALS STANDARDS INSTITUTE, INC.

Annual Meeting—Election of Officers

At the Annual Meeting of the Friction Materials Standards Institute, Inc. held on June 10, 1959, the following officers were elected for the year starting July 1st:

President—*George S. Lamson*, Thermoid Div., H. K. Porter Co., Inc.

Vice-President—*Richard A. Riley*, World Bestos.

Treasurer—*Harold Hodson*, Marshall-Eclipse Div., Bendix Aviation Corp.

Secretary—*Miss Harriet G. Duschek.*

Other members of the Board of Directors, serving with these officers are:

William H. Johnston—Atlas Asbestos Company.

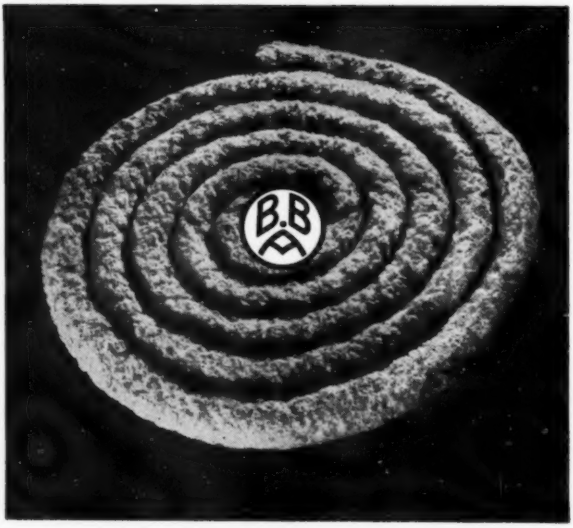
Edward H. Wells—Johns-Manville Corporation.

William J. Vachout—Molded Materials Div., Carlisle Corp.

James L. McGovern, Jr.—Raybestos Manhattan, Inc.

S. Arthur Smith—Silver Line Brake Lining Corp.

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LAGGING IN FRONT

This is B.B.A. Asbestos Fibre-Filled Rope Lagging for Steam Pipe Insulation, one of many of asbestos products, from yarn and rovings to cloth, tapes and jointings of all types and the world-famous MINTEX friction materials and MINTEX Industrial Plastics—made by B.B.A. In production, as in research, we are in the front of our field. To all intents and purposes, B.B.A. *is* Asbestos.

B.B A **BRITISH BELTING & ASBESTOS LTD**

CLECKHEATON, YORKSHIRE, ENGLAND

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PATENTS

Abstracts of U. S. Patents on Asbestos and Asbestos Products by Oliver S. North.

Copies of patents can be obtained by sending 25 cents, (in coin), to The Commissioner of Patents, Washington 25, D. C., giving the patent number, date is was issued, name of patentee and name of invention.

Method of Molding Foundry Core Drier Supports, No. 2,873,480. Granted on February 17, 1959 to O Ayers and A. Homiak (assigned to Johns-Manville Corp., New York, N.Y.). A composition suitable for molding into support members for use during the curing of foundry cores comprises preferably 10-70% by weight of amosite or chrysotile asbestos fiber and optimum proportions of lime and a comminuted siliceous aggregate, such as diatomite, quartz, siliceous clay, or the like.

Asbestos Fiber Recovery From Tailings, No. 2,874,838. Granted on February 24, 1959 to M. C. Pharo (assigned to Johnson's Co. Ltd., Thetford Mines, Quebec, Canada). In the recovery of asbestos fibre from weathered dump tailings, such as those of the Canadian producing region, containing 1-8% of short chrysotile fibre most of which is in the fluffed state, the tailings masses are broken up and dropped into water containing entrained air. The suspension is subjected to primary hydraulic drag classification, and the fibre separated thereby is floated off in the overflow and treated in a secondary drag classifier and further on a shaking stable.

Hydrous Calcium Silicates, No. 2,875,075. Granted on February 24, 1959 to G. L. Kalousek (assigned to Owens-Corning Fiberglas Corp., a corporation of Delaware). A lightweight high-temperature pipe insulation product is made by autoclaving a mixture of lime, tripoli, diatomite, kaolin, chrysotile asbestos fibre, and calcium chloride, and shaping the reaction material.

Varnish and Process of Making, No. 2,875,080. Granted on February 24, 1959 to D. C. Ewart and E. G. Sieber (assigned to Airflo Roofing Company of America, Inc., Pittsburgh, Pa.). A varnish composition made of gilsonite, asphalt, linseed oil, soybean oil and mineral spirits is used in the making of a mastic About 65.3% of the varnish is mixed with 34.7% of a fiberizing material consisting of 50% short asbestos fibre and 50% long asbestos fibre.

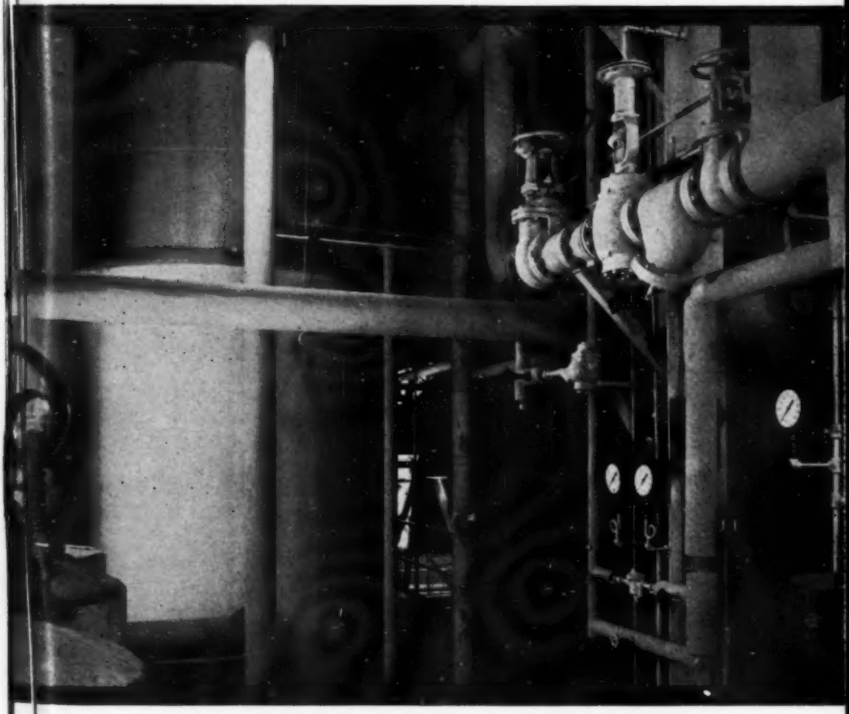
Method of Producing a Molded Article, No. 2,877,499. Granted on March 17, 1959 to R. E. Wilkinson (assigned to Rostone Corp., Lafayette, Ind.). In the manufacture of a material having high electrical resistance and good resistance to electric arc corrosion, a mixture of MgO or Mg $(OH)_2$, asbestos fibre, a non-fibrous filler, and water is molded into shapes. The shapes are exposed to a carbon dioxide atmosphere, whereby the magnesium compound is carbonated, and then subjected to steam under pressure to hydrate the $MgCO_3$.

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ONLY APPROVED CONTRACTORS INSTALL EHRET INSULATIONS

The THERMALITE 85% Magnesia Insulation in this boiler room is typical of the faultless work of Ehret-approved contractors. Only men fully skilled in the application of Ehret products are entrusted with their installation. Result: Full insulating value and long, trouble-free service life with economical heating.

Standard inventories of THERMALITE are maintained by distributors in all principal cities. For the full story of this money-saving insulating material, see your Ehret Distributor or write direct for Bulletin 11C to the address below.



Typical THERMALITE installation. THERMALITE has unusually low thermal conductivity, is molded to exact shape, assuring tight joints and snug pipe fits essential for maximum heat economy.

SAVE HEAT WITH EHRET INSULATIONS

EHRET MAGNESIA MANUFACTURING COMPANY

VALLEY FORGE, PENNSYLVANIA

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SOUTHERN ASBESTOS — TEXTILES



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