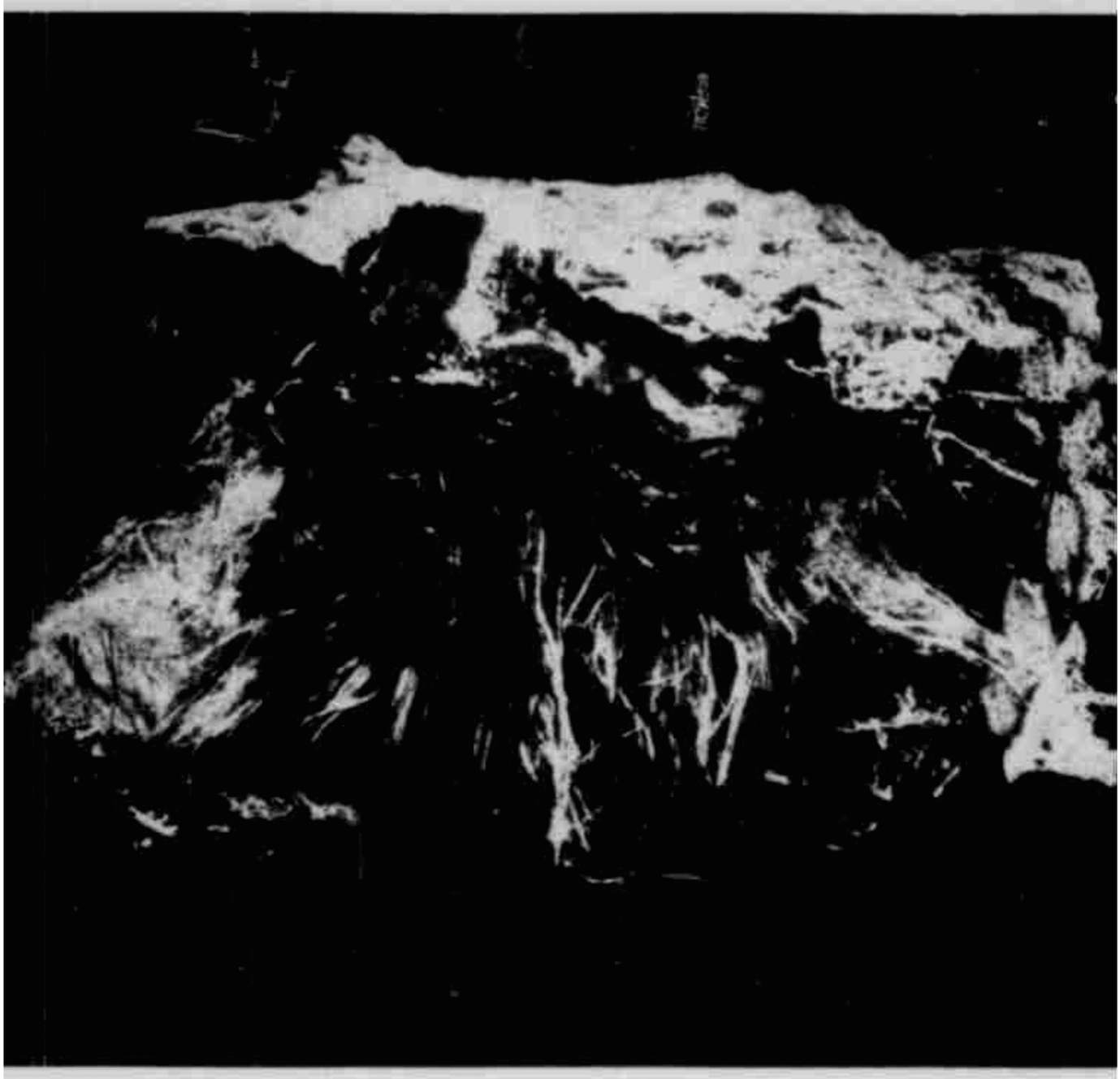
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A NEW HIGH OUTPUT PLANT

For the Manufacture of Asbestos-Cement Flat and Corrugated Sheets

By: H. H. G. Klos

Mr. Klos is Chief Engineer of Asbestos Cement Engineering Co., Vaduz-Liechtenstein (Switzerland)

This article deals with Plants making Asbestos-Cement Sheets according to the Hatschek system which is the most important in practice.

To conform with the modern tendency of increasing the output of the single Sheet Making Plants, generally higher output guarantees have been asked for by clients and have been given by manufacturers. It has been necessary to analyze each section, e.g. the asbestos opening and slurry preparation, the making of the sheets, and the machines for corrugating, trimming and stacking the sheets, to understand the limits of output increase or the ways for further increase respectively.

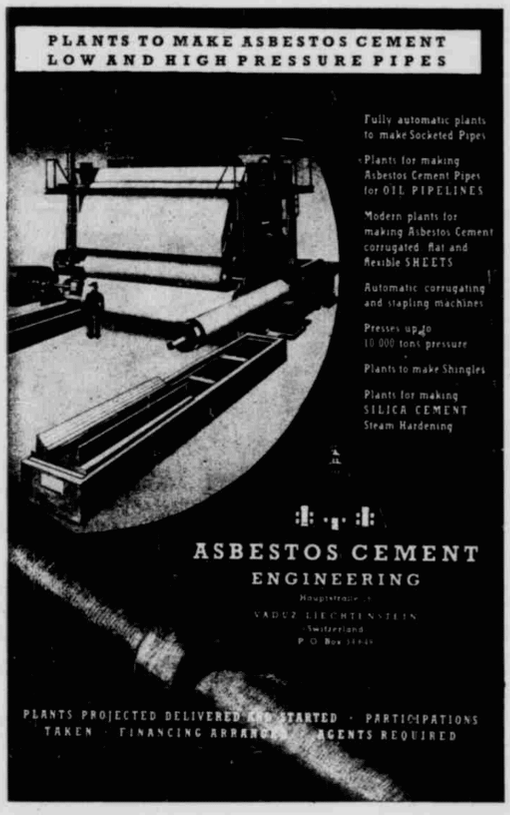
Now as regards the section, asbestos opening and slurry preparation, which consists of various machines like edge runners, disintegrators, dry and wet mixers, it has been found that there is no difficulty in raising the output, either by adopting larger machines or by raising the speed of the machines.

However, the situation regarding the Sheet Making Machine is quite different. The output of this section is limited less by the dimensions or speed than by technological possibilities.

There are so many factors affecting both quantity and quality of production that it would exceed the scope of this article to scrutinize the special effects.

The standards required by asbestos-cement sheets are numerous and have regard usually to bending strength, flexibility, water content, water absorption, water permeability, resistance to frost, and density.

Furthermore, the sheet must after manufacture be also formed to an exact profile and must be in a condition to be bent accordingly. All features regarding the finished product result from the chemical and physical characteristics of the asbestos used, of the cement used and of the



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water, of the ratio of asbestos-cement mixture and, last but not least, of the peculiarities of the production process on the Sheet Making Machine.

Sheets to realize these requirements must be produced with an adequate felt speed, a sufficient vacuum for drying the asbestos-cement film and under suitable pressure of the forming roll or of an additional press roll.

It may seem at first glance that the output can be raised by an increase of the felt speed or film thickness but it was proved by many tests under manufacturing conditions that no single part of the process can be altered independently without adjusting all the other conditions.

The following data gives a rough idea of the output limits of a Sheet Making Machine with three or even four sieve cylinders. At a felt speed of about 138 feet per minute, the maximum film thickness is 1/20th of an inch. A sheet of 1/4-inch thickness could then be made with a minimum of six layers.

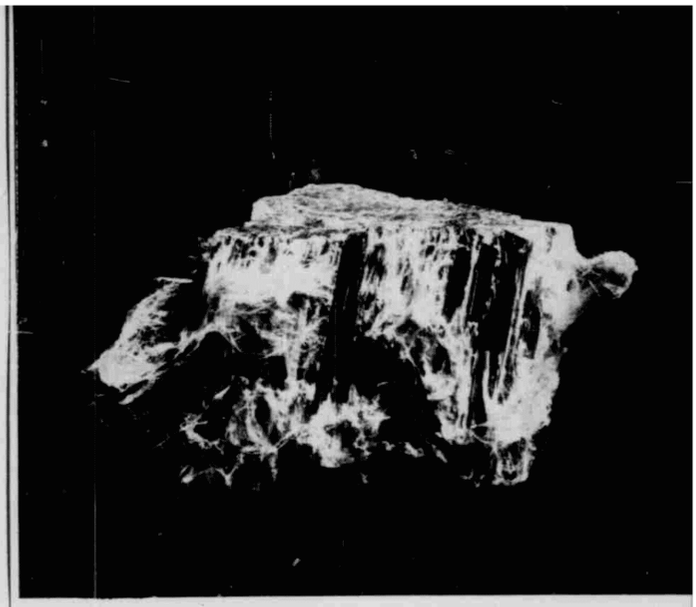
It follows that the following manufacturing times are necessary: production of 8-foot long sheets will need 22 seconds; production of 10-foot long sheets will need 27 seconds; and, production of 12-foot long sheets will need 32 seconds.

At the above rates of production, the output of Corrugated Sheets (Type B) according to British Standard Specification 690/63 would figure according to the following table:

LENGTH OF SHEETS	DAILY OUTPUT IN TONS
6-foot (one sheet at a time)	106
6-foot (two sheets made together)	146
8-foot	141
10-foot	144
12-foot	146

As an increase in felt speed causes a decrease in film thickness, these figures can be taken as maximum output of a usual type of Sheet Making Machine with one production felt.

In order to obtain a further increase in output, Asbestos Cement Engineering Co. has studied and developed a Double Sheet Making Machine of special design. This Company has solved the mechanical problems involved, especially regarding drive, linear pressure, changing of forming



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rolls, facilities for changing felts, etc.

This Two-Felt Machine gives the technological possibilities of doubling the production rate, compared with an old-type machine under the same working conditions.

Thus an 8-foot sheet could be produced in 11 seconds, a 10-foot sheet in 13.5 seconds, and a 12-foot sheet in 16 seconds.

To gain advantage of the Double Sheet Making Machine, it was necessary to construct a Trimming, Corrugating and Stacking Plant with an adequate cycle.

A few years ago, most modern plants had a cycle for their corrugating machines of about 30 seconds. Asbestos Cement Engineering Co. has now developed a sheet making line with a cycle of 16 seconds and this cycle limits the output of the whole plant.

The daily output would then be 5400 sheets if one sheet only is made at a stroke. Should more than one sheet be made at one stroke by using a larger forming roll, the output per day increases correspondingly. The output is therefore as follows:

LENGTH OF SHEETS	DAILY OUTPUT IN TONS
6-foot (one sheet at a time)	147
6-foot (two sheets made together)	293
8-foot	195
10-foot	244
12-foot	293

Having increased the speed of the corrugating plant, one has to increase also the felt speed of the Sheet Making Machine slightly, say to 165 - 195 feet per minute. The results are that a sheet is made with a thinner film with about 8 or 10 layers. It is well-known that the more layers and the smaller the thickness of these layers, the greater the strength of the sheet while using the same mixture. Thus a saving in asbestos is obtained by having as a goal, the same strength.

As mentioned before, with the modern tendency of increasing the output of machinery, we think that this new High Output Plant should be of interest to many companies. The Plant has not only a large output but it uses less space in the factory, it needs fewer workmen, and it uses less power.

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SOUTHERN RHODESIA IN THE NEWS

By: W. E. Sinclair, M.I.M.M.,
Consulting Engineer to Putten's Asbestos Corporation Limited

Although there was a drop in chrysotile production last year (1963), it would seem that this disappointing position is quite likely to be retrieved and the country's economy substantially supported by the operations of a large and promising new asbestos proposition—Pangani.

To refer to this proposition as a new undertaking is strictly incorrect since the mineral area to be exploited really consists of a number of orebodies extending over a large area S.W. of Filabusi (where the well-known Croft and Hart asbestos mines are located), and where parts of the mineralized zones have been worked at different times. At one stage, in 1958, the Schmidheiny Group controlled operations in one section and produced at the rate of about 1,000 tons per annum, for a short period.

The new factor in the Pangani development today is the operating company—the Pangani Asbestos Mining Company—which was sponsored by a consortium of European and South African financiers who raised a capital sum of one and a half million pounds to develop and to bring the mine to a producing stage.

Following the recent official opening of the mine, the Company has now reached the interesting stage of stripping overburden to expose the serpentine orebodies below the surface. It is estimated that 5,000 tons of overburden must be removed to expose 4,000 tons of ore, which is to be exploited in benches 35 feet to 40 feet in height along open pit cuts.

Actual stripping operations are now exposing three main orebodies, first the upper part of the Pangani, the North orebody and the Panasequa body, all of which are located along the western contact of the same serpentine zone. As the surface ore is extracted, development work in preparation for underground mining will be commenced.

Soon, from this field, the country expects to benefit by the production of chrysotile to the value of about £2-million annually.

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CONFERENCE ON THE BIOLOGICAL EFFECTS OF ASBESTOS will be held by the New York Academy of Sciences at the Waldorf-Astoria Hotel, New York City, October 19th through 21st, 1964. Although the Conference will be concerned primarily with the biological and medical aspects of asbestos, its scope will of necessity encompass those technical and scientific matters which are related. Because of this, there will be a wide industry participation including scientific papers by scientists associated with the various companies in the Asbestos Industry.

Qualified individuals are encouraged to attend the Conference since attendance by knowledgeable individuals can only strengthen the discussions of the Conference and allow for fertile interchange of information and ideas. To obtain an application for invitation to the Conference, write the Chairman, Conference on Biological Effects of Asbestos, The New York Academy of Sciences, 2 East 63rd Street, New York, New York 10021.

FRICTION MATERIALS STANDARDS INSTITUTE, INC. held its annual meeting on June 18th, 1964, and the following officers were elected for the year starting July 1st, 1964: President—S. Arthur Smith, Silver Line Brake Lining Corporation; Vice President—Alexander J. Bette, Johns-Manville Corporation; Treasurer—Harold Hodson, The Bendix Corporation (Marshall-Eclipse Division); and, Secretary—Miss Harriet G. Duschek. Other members of the Board of Directors, serving with these officers, are: Joseph W. Greenen, Auto Friction Corporation; Frank T. Gatke, Gatke Corporation; John H. Kelly, The Bendix Corporation (Marshall-Eclipse Division); James L. McGovern, Jr., Raybestos-Manhattan, Inc.; and, Wade E. Canfield, The S. K. Wellman Company.

One of the most important subjects discussed by the members was the performance of brakes under varying conditions and whether or not performance standards might be established. Because of the intricacy of the subject and the many factors involved, a committee known as the Brake Performance Study Committee was appointed.

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ASTM 1963 PROCEEDINGS, Volume 63, records the technical accomplishments, including reports and papers, together with discussions, which were offered to ASTM during 1963 and accepted for publication in the "Proceedings". Summaries of the sessions of the ASTM 66th Annual Meeting, several outstanding symposia, a list of Special Technical Publications and the Annual Report of the Board of Directors are included. The Society has greatly expanded its publications program in recent years with the preparation of a steadily increasing number of Special Technical Publications; however, the "Proceedings" remains the repository of factual information and a record of the Society's work. An important adjunct is the Subject and Author Index to all papers published in any form by the Society in 1963.

Copies of this 1400-page volume may be obtained from the American Society for Testing and Materials, 1916 Race Street, Philadelphia, Pennsylvania 19103 (prices if prepaid—$12.00 each; to ASTM members—$8.00).

ASTM has issued a new *Supplement to Coden for Periodical Titles—STP 321-S1* which lists the unique four-letter codes, or CODEN, that were assigned to new or uncoded periodical titles since 1963 when the parent book (STP 321) was first available. Copies may be obtained from ASTM Headquarters, 1916 Race Street, Philadelphia, Pennsylvania 19103. Prices of *STP 321*, if prepaid $20.00; to ASTM members: $18.00. Prices of *STP 321-S1*, if prepaid: $8.50; to ASTM members: $6.00.

Since use of the CODEN has extended to large organizations with broad literary interests, codes have been supplied for titles of periodicals not ordinarily classed as "scientific" periodicals. In the interest of providing a single set of codes for all users, assignments will be made for the titles of any bona fide periodicals upon request by any interested user of the CODEN system. Requests for new CODEN assignments should be sent to Dr. L. E. Kuentzel, Wyandotte-ASTM Punched-Card Project, Wyandotte Chemicals Corporation, Wyandotte, Michigan.



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U. S. RUBBER has announced plans to construct a Midwest management center in the Detroit, Michigan, area. The 65,000 square foot center, to be situated on a 37-acre site in Allen Park, Michigan, will be headquarters for the company's Midwest operations, encompassing all sales activities as well as management functions of purchasing, sales forecasting, production planning, inventory control and accounting for all operating divisions. It will be equipped with the most modern electronic computers which will be tied in with company plants in five states. The management center will be part of a multi-million dollar program announced by the company last year calling for centers to be strategically located in major geographical regions of the country.

UNIROYAL—United States Rubber Co. is adopting UniRoyal as a world-wide trademark in order to identify more effectively its various subsidiary companies in different countries as part of a world-wide global enterprise. The new UniRoyal symbol will replace the circular U. S. Rubber trademark in the United States as well as other trademarks used throughout the world. The word "rubber" is no longer truly descriptive of the broad scope of the company's product diversification and manufacturing capabilities and the adoption of UniRoyal will give all of U. S. Rubber's companies around the world a common one-word trademark and identification, building unity of products and performance. UniRoyal was derived from the word "United" and the company's best known trade name "U. S. Royal".

IDCNA will hold its Ninth Annual National Meeting at the Fairmont Hotel in San Francisco, California, October 26th through 29th, 1964. For further information, contact Mr. Ellwood F. Jones, Executive Secretary, Insulation Distributor-Contractors National Association, Inc., 1425 Chestnut Street, Philadelphia, Pennsylvania 19102.

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MARLEY ASBESTOS HONEYCOMB—The use of asbestos honeycomb in place of steel for cooling tower fill and drift eliminators has accomplished several tower advantages: reduction in the wet weight of the overall tower; increasing the wetted surface for greater cooling efficiency; complete qualification for fireproof building codes; and, a long life fill material that will not corrode. Additional information about asbestos honeycomb fill and drift eliminators and the Marley HydroTower line is available from The Marley Company, 222 West Gregory Boulevard, Kansas City, Missouri.

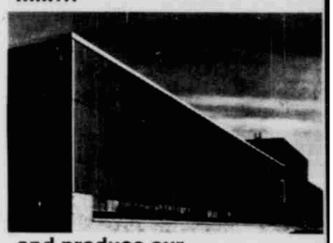
KOLORMATE—A soon-to-be completed junior high school in Brooklyn, New York (P.S. 218) features curtain wall panels of rugged asbestos cement. Manufactured by *Nicolet Industries, Inc.*, Florham Park, New Jersey, this material lends itself to attractive architectural design and is extremely functional due to its durability.

ALVIN M. EHRET, SR. died in Philadelphia, Pennsylvania, on July 15th, 1964, at the age of 92. He was the founder of Ehret Magnesia Company, now Baldwin-Ehret-Hill, Inc., of which Alvin M. Ehret, Jr. is Chairman of the Board.


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Additional data on the new Transite sewer line fittings are available free from Johns-Manville, Pipe Division, Box JJMC-21, 22 East 40th Street, New York, New York, 10016.

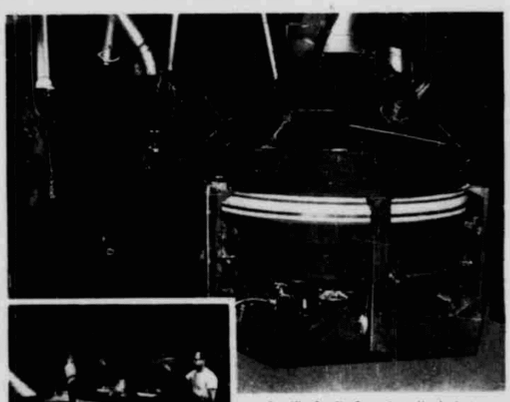
J-M BOOKLET AFD-25A—The advantages of using asbestos fiber in asphalt curbing mixes are described and illustrated in a 4-page booklet published by Johns-Manville. The booklet also contains specification data on handling and storage of the fiber, mix designs, construction recommendations, and test results; defines the major problems of placing extruded bituminous curbing, such as slumping and excessive cooling of mix, and the effects on these of adding asbestos fiber; presents the economic advantages of the curbing, as well as the costs of adding asbestos; and, contains photographs of typical asbestos-asphalt curbings.

Copies of AFD-25A, Asbestos-Asphalt Curbing, are available free from Johns-Manville, Asbestos Fiber Division, Box DOC-9, 22 East 40th Street, New York, New York 10016.

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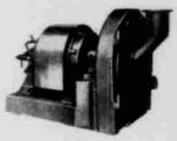
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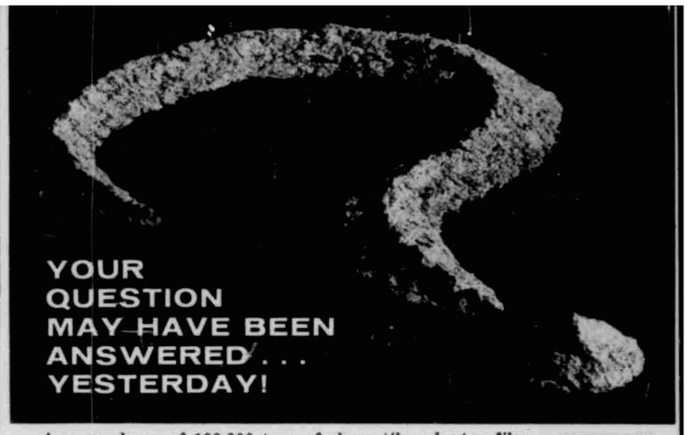
AUTOMOBILE SALES

MAY 1964—The Automobile Manufacturers Association, Detroit, Michigan, has issued the following statistics for May 1964 of motor vehicle factory sales from plants in the United States: passenger cars 735,041, trucks and buses 138,710; total for May 1964 was 873,751 compared to 840,165 in May 1963. Total motor vehicles for the first five months of 1964 amounted to 4,347,893.

DR. CATTANEO—A much bigger world than that confined to the asbestos industry is the poorer by the tragic death of *The Marchese Stefano M. Cattaneo Adorno*, when his yacht capsized off Rio de Janeiro on July 5th, 1964. Under his enthusiastic leadership, Asberit S.A. had looked set fair to become a prominent influence in the asbestos textile industry of the Latin American Free Trade Area, and Dr. Cattaneo spared neither his health nor his family life to make a success of the Company. Dr. Cattaneo was a member of a well-known and aristocratic Italian family whose interests he represented in Brazil. He was also a Director of Ferodo S.A., Lonas Para Freios, Brazil. He had a remarkably broad knowledge of the asbestos industry and was extremely well informed both commercially and technically. Dr. Cattaneo will be greatly missed by his acquaintances in the industry as both a personal friend and a well-respected business associate.

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TURKEY
Textile Improvements Ltd.
Guilford, England

ASARCO INTERNATIONAL CORPORATION
A Subsidiary of American Smelting and Refining Company

ASARCO

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BUILDING

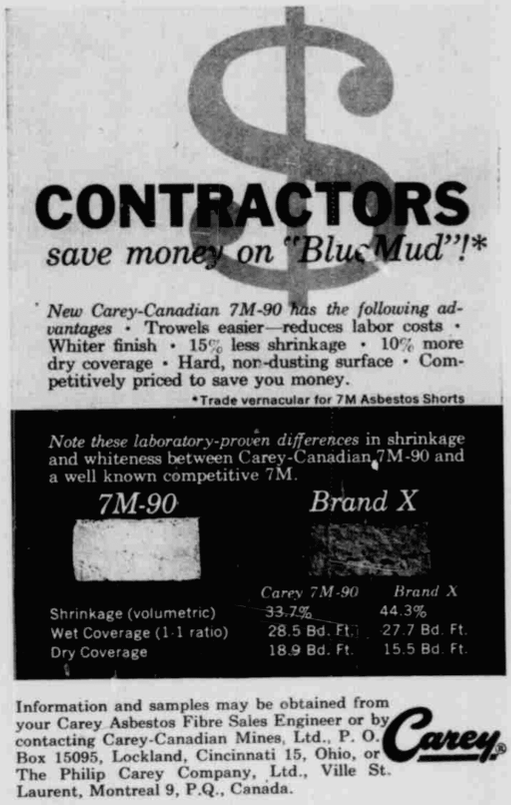
JUNE 1964—According to F. W. Dodge Company, a division of McGraw-Hill, Inc., the value of construction contracts in the United States during June 1964 (with percentage changes from June 1963) totalled $4,504,121,000 up 2%; nonresidentital building, $1,400,184,000, down 4%; residential building, $1,996,431,000, up 2%; and, nonbuilding construction, $1,107,506,000, up 13%.

This latest month's gain brings the year-to-date lead over 1963 construction contract value to 8%.

ASBESTOS, Volume III, by E. Stander and J. J. LaGrange, is the third report in a series resulting from the investigation regarding the processing of certain minerals in the Republic of South Africa and South West Africa. This investigation is being conducted under the supervision of the Subsidiary Committee, assisted by the staff of the Natural Resources Development Council, the Geological Survey and Minerals Bureau of the Department of Mines, the Government Metallurgical Laboratory and the Council for Scientific and Industrial Research, Pretoria, Republic of South Africa.

METATE ASBESTOS CORPORATION has issued a brochure on its 100% pure asbestos #222 precoat filter fiber that it is putting on the market for pressure type filters. Metate is receiving a wonderful reception into many industrial applications in the United States. The company is selling into many major oil companies (water flooding) filtration in the oil fields, large sugar companies (beet sugar) and chemical industries. Also, its acid washed fiber is going into the beer industry.

Anyone in the industry interested in the product, may request a copy of the brochure by contacting Metate Asbestos Corporation, P. O. Box 111, Globe, Arizona.



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ROBERT J. PAINTER, Executive Secretary emeritus of the *American Society for Testing and Materials*, will retire on August 1st, 1964, after 33½ years' service. In 1931, he joined the Society's staff directing its developmental and promotional activities and served as Associate Editor of the Bulletin, now Materials Research & Standards. After several years as Assistant Secretary, Mr. Painter was elected Treasurer in 1952 and assumed the added duties of Executive Secretary later that same year. Forced into semi-retirement in 1960 by a combination of hip surgery and cardiac trouble, he was then made Executive Secretary emeritus, but immediately took on the heavy staff burden of the fund drive for the new ASTM headquarters building. With the fund well past half its goal and the staff of 135 occupying the new building on Philadelphia's Parkway, Mr. Painter is moving into full retirement. The only Executive Secretary emeritus of this 20,000-man technical and scientific society, Mr. Painter was honored at a special luncheon during ASTM's 67th Annual Meeting.

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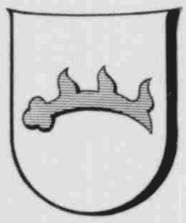
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plastic material - metals

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Italian and Foreign manufacturers of pipes



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THE HEAT RESISTANCE

of J-M Asbestos Fibre can put your product in the high-temperature zone



Many industries have found asbestos fibre a mineral filler of wide and diverse applications because of its many unique properties . . . particularly its exceptional heat resistance. A standard ingredient in many high-temperature applications... flame-proof J-M asbestos fibre resists loss of tensile strength during exposure to high temperature.

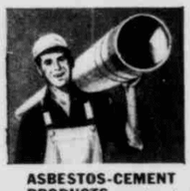
Other important properties of J-M asbestos include high tensile strength (greater than an equal thickness of ingot of wrought iron) . . . extreme fineness (a bundle of 1500 asbestos fibres is finer than one human hair) . . . and high bulking action . . . any of which can improve your product. For free literature, write to Canadian Johns-Manville Co., Ltd., Box 1500, Asbestos, P. Q., Canada, or to Johns-Manville Asbestos Fibre Sales, Research and Engineering Center, Manville, N. J.



PLASTICS such as distributor heads have greater heat resistance and dimensional stability, when made with J-M asbestos fibres.



FLOOR TILE has more strength, better processing characteristics and more "give" without cracking with J-M asbestos fibres in the formula.



ASBESTOS-CEMENT PRODUCTS are structurally stronger, more flexible and have more resistance to impact when they contain J-M asbestos.

JOHNS-MANVILLE

THE NAME TO THINK OF FIRST FOR ASBESTOS FIBRE

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MARKET CONDITIONS

GENERAL BUSINESS.

Despite the many localized business slowdowns caused by vacations the general business picture remains very good and the effect of the "summer doldrums" has been at a minimum in most industries. Steel output is picking up after a slow and very moderate decline. Auto production is slowing down for the model changeover and for major improvements in some plants but sales of new cars are still setting records. First half sales and earnings reports of many large corporations have been issued and are excellent in most cases. The stock market is strong and there is every indication of good business for the balance of 1964.

ASBESTOS—RAW MATERIAL.

Quebec asbestos fibre shipments for the Industry during June 1964 were 101,595 tons, or 385 tons lower than the same period last year.

Year to date shipments, at 542,001 tons, exceed the same period 1963 by 48,299 tons, or approximately 9%.

ASBESTOS—MANUFACTURED GOODS.

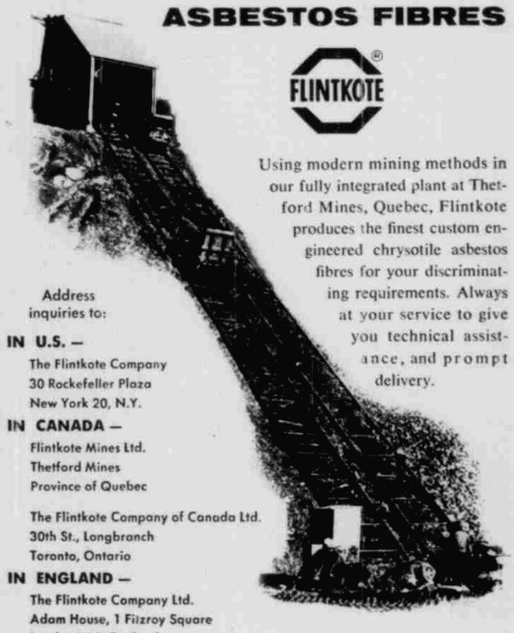
Asbestos Textiles. The normal seasonal slowdown, due primarily to vacations, has eased the demand somewhat for asbestos textiles. However, certain specialty items continue in high demand and mills are being pressed for deliveries. All indications point toward a very good third quarter this year and manufacturers believe volume will exceed the same period of 1963.

Asbestos Brake Lining. The market situation for this product is good and this condition should continue through the third quarter of this year.

Asbestos Paper. This market is going along at the same pace as this time last year and no drastic change in this condition is anticipated in the near future.

HIGHEST GRADE
CHRYSOTILE
ASBESTOS FIBRES

FLINTKOTE®



Using modern mining methods in our fully integrated plant at Thetford Mines, Quebec, Flintkote produces the finest custom engineered chrysotile asbestos fibres for your discriminating requirements. Always at your service to give you technical assistance, and prompt delivery.

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The Flintkote Company
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IN CANADA —
Flintkote Mines Ltd.
Thetford Mines
Province of Quebec

The Flintkote Company of Canada Ltd.
30th St., Longbranch
Toronto, Ontario

IN ENGLAND —
The Flintkote Company Ltd.
Adam House, 1 Fitzroy Square
London W-1, England

Manufacturer Of
DIVERSIFIED PRODUCTS FOR HOME AND INDUSTRY

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Asbestos Millboard. Orders for this material are currently coming in very slowly but it is hoped that the volume of orders will increase within the next few months.

Corrugated & Flat. Volume of business for both corrugated and flat sheets is running higher than this time last year. The corrugated market should maintain this strength for the balance of the year and the market for flat sheets should pick up in the next few months.

High Pressure Insulation. At the present time, business for this material is quite good and prices are firm. The remainder of the year looks very good.

Asbestos Cement Shingles—Roofing & Siding. This market is presently very strong and should remain so through the balance of the year.

Asbestos Cement Pipes. Sales of all asbestos-cement pipe products continue at a satisfactory level. A pleasing note to manufacturers is that prices, which have been low over the last 14 months, are showing signs of increasing. This will permit better profit margins previously hampered by increased labor and material costs. The last quarter of 1964, barring adverse weather conditions, shows strong indications of being one of the best quarters for the last three years.

Asbestos Filter Fibre. Filter Fibre markets are steady and a seasonal sugar filter market increase in volume is anticipated during the third quarter. The outlook for the balance of the year appears to be very good.

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

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Importer of Raw Asbestos
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WORLD'S FIRST MANUFACTURER
OF NEEDLED
FELTS
Greater durability — Uniform quality — Rapid delivery



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PRODUCTION

Canada—The Dominion Bureau of Statistics has issued the following for the month of MAY 1964 in short tons: Producer's Shipments totalled 124,656 (Quebec—117,436 and Newfoundland, Ontario and British Columbia—7,220). Total shipments for May 1963 were 116,612.

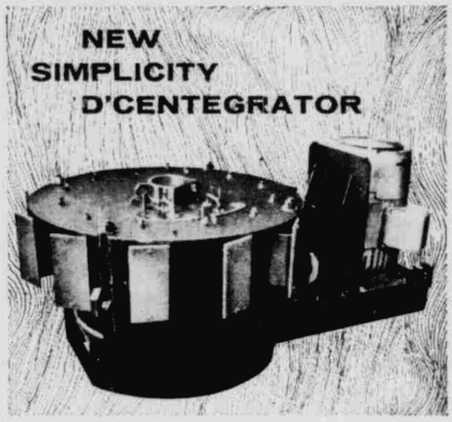
Cyprus—The Ministry of Commerce & Industry has issued the following statistics (production in short tons & exports in long tons) for the 2ND QUARTER of 1964: April—Production, none; Exports 11, valued at £156; May—Production, none; Exports 1,946, valued at £95,670; and June—Production 1,158; Exports 681, valued at £33,000.

Republic of South Africa—The Department of Mines has issued its Quarterly Information Circular for the 1ST QUARTER of 1964 containing the following statistics on asbestos: Production totalled 49,441 short tons (Amosite—18,461, Chrysotile—9,153, Cape Blue—19,536, and Transvaal Blue—2,291).

Southern Rhodesia—The Ministry of Mines, Salisbury, has issued the following statistics on asbestos: MAY 1964—Production 13,232.85 short tons, valued at £583,927.11.02; JUNE 1964—Production 12,879.09 short tons, valued at £559,190.13.11.

Buvoha Trade Letter—1964 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), Oudebrugsteeg 16, Amersrdam-C., Holland.

C. STANLEY manufacturers since 1906
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On-the-job performance has proved that the new Simplicity D'centegrator will produce longer fibres. The horizontal impeller action fibrizes so thoroughly that the longer fibres are not "dirtied." Tests to date also indicate a higher recovery rate and a lower percent of fines. Basic design permits lower initial cost and exceptionally low maintenance costs.

Model 24-A has 12 fibrizing bars and will take up to 60 t.p.h. of 2" cubical feed. Simplicity D'centegrators are now producing higher profits for mills in the U.S., Canada and South Africa. Write or call for literature and your own test at our plant.

312

OTHER MINING INDUSTRY EQUIPMENT: vibrating screens, feeders, grizzly feeders, scalpers, crushers, conveyors.

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CANADA: Simplicity Materials Handling Ltd., Guelph, Ont.
EXPORT: Brown & Sites, 50 Church St., New York 7, N.Y.

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IMPORTS & EXPORTS

Imports Into U.S.A.

(Figures by Bureau of the Census) — Year 1963

Unmanufactured Asbestos:	Short Tons
Amosite, Crude—British East Africa	34
Mozambique	385
Portugal	5
Republic of South Africa	19,511
Rhodesia & Nyasaland	1,830
United Kingdom	184
Crocidolite (Blue), Crude—Australia	10
British East Africa	70
Republic of South Africa	10,538
Rhodesia & Nyasaland	140
United Kingdom	168
Crysotile, Crude, Spinning, Other & Asbestos Textile Fiber—British East Africa	120
Canada	186,767
Finland	55
Italy	6
Republic of South Africa	372
Rhodesia & Nyasaland	2,900
United Kingdom	101
Yugoslavia	7,433
Asbestos, Other—Canada	431,975
Finland	398
Portugal	24
Republic of South Africa	1,396
Rhodesia & Nyasaland	1,098
United Kingdom	2,245
Western Portuguese Africa	20
Yugoslavia	75
	667,860

Valued at: $61,739,029

Manufactured Asbestos Goods:	Quantity (lbs.)	Value
A-C Pipes, Tubes & Fittings	30,954,202	$ 1,631,660
A-C Articles, Other	7,204,786	630,022
Asbestos Shingles	9,278,031	1,221,580
Asbestos Packing	818,732	303,487
Asbestos Yarn	409,791	274,002
Asbestos, Other	..	357,464
		$ 4,418,215

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Producers of Soft, Low Iron, White Chrysotile Crudes and Filter Fibre

MINES AND MILL IN GILA COUNTY

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Exports From U.S.A.

(Figures by Bureau of the Census) — March 1964

Unmanufactured Asbestos: — Short Tons

Crude & Spinning		Non-Spinning Fibers		Waste & Refuse	
Canada	35	Mexico	110	U. Kingdom	20
Argentina	6	Japan	323	W. Germany	20
Japan	4	Australia	300	Italy	9
Other Ctys.	..	Other Countries	5	Korean Rep.	70
				Japan	507
				Australia	52
				Other Ctys	3
	45		738		681

Total Unmanufactured Asbestos—1,464 — Valued at—$168,057

Manufactured Asbestos Goods:		Production		Value
Cement & Pipe Covering	Lbs	549,693	$	93,376
Textiles & Yarn	Lbs	86,139		68,743
Packing	Lbs	169,973		258,414
Clutch Facing	No	200,130		169,787
Brake Lining (Mld & S. Mld)	Lin Ft	106,846		54,880
Brake Lining, Other	Lbs	581,131		393,285
Construction Material	Lbs	2,833,070		315,573
Asbestos Manufactures—Other		..		155,035
				$1,509,093

April 1964

Unmanufactured Asbestos: — Short Tons

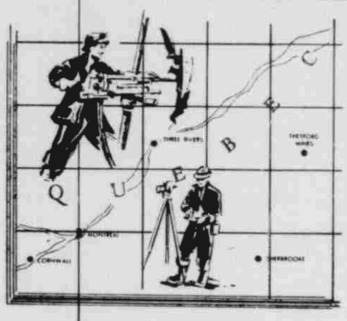
Crude & Spinning		Non-Spinning Fibers		Waste & Refuse	
Canada	10	Canada	50	Mexico	30
France	15	Mexico	105	Italy	134
India	3	U. Kingdom	100	India	5
Japan	4	France	9	Japan	708
Other Ctys.	10	India	199	Other Ctys.	11
		Viet-nam	294		
		Taiwan	21		
		Japan	246		
		Other Countries	3		
	42		1,027		888

Total Unmanufactured Asbestos—1,957 — Valued at—$254,937

Manuactured Asbestos Goods:		Production		Value
Cement & Pipe Covering	Lbs	330,501	$	65,089
Textiles & Yarn	Lbs	30,921		32,432

LYNN, MACLEOD

ENGINEERING SUPPLIES, LIMITED



ASBESTOS MILLING EQUIPMENT

DESIGNERS MANUFACTURERS & DISTRIBUTORS

METALLURGY DIVISION FOR STEEL CASTINGS

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PACKOMATIC BALE SEALER
FLEXOVEYOR BAG FLATTENER
ROTEX SCREENERS
AIR SEPARATORS
ROCK FIBERIZERS
SYNTRON VIBRATORY FEEDERS
RAYMOND WHIZZERS
SCALES & MAGNETS
FANS & FILTERS
CHECK WEIGHERS
CYCLONES
ROTARY VALVES
ASPIRATION PIPING
PRECOMPRESSORS
MULTI-STAGE FIBERIZERS
FIBRE GRINDERS
QUEBEC STANDARD TESTING MACHINES
CONVEYING EQUIPMENT

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Packing	Lbs	164,064	272,595
Clutch Facing	No	190,367	181,682
Brake Lining (Mld & S. Mld)	Lin Ft	106,190	45,508
Brake Lining, Other	Lbs	448,195	322,660
Construction Material	Lbs	2,836,244	301,081
Asbestos Manufactures—Other		..	5,246
			$1,226,293

Imports By United Kingdom

Raw Materials

Tons 2,240 lbs.	May 1964
From: Republic of South Africa	2,376
Basutoland, Bechuanaland & Swaziland	651
Rhodesia & Nyasaland	3,247
Canada	8,702
Other Commonwealth Countries & Irish Republic	207
Foreign Countries	146
	15,329

Exports From Republic of South Africa

(Quarterly Information Report—Dept. of Mines) 1st Quarter 1964

	Short Tons	Value
Amosite	18,914	R1,845,617
Chrysotile	6,121	466,637
Cape Blue	17,961	2,312,794
Transvaal Blue	2,533	291,851
Tremolite	..	..
	45,529	R4,916,899

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Phenolic & Cashew Resins

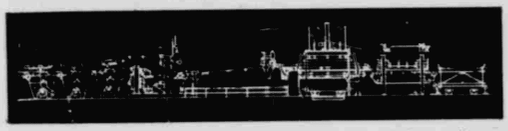
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Machinery for the asbestos - cement industry is the result of more than a man's age of experience in the development, construction and erection of machines for asbestos-cement.



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

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flat sheets

corrugated sheets

shingles **on machines of**

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ALL GRADES—ALL TYPES

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ASBESTOS CEMENT MACHINERY

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

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automatically manufactured by *machinery* and plants based on the *ELASTIC AND UNIFORM HIGH PRESSURE process*

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Minimum of breakage in transport and service.
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All characteristics never reached until now.
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INDUSTRY NEWS

HAPPY BIRTHDAY

Ian C. Spark, Vice President & General Manager, Cape Asbestos (Canada) Limited, Toronto, Canada, July 16.
William J. Whitaker, President, Magnesia-Asbestos Insulation Company, New York City, July 17.
John F. D. Rohrbach, President & Director, Raybestos-Manhattan, Inc., Passaic, New Jersey, July 18.
R. F. Turner, Promotion Sales Manager, The Philip Carey Manufacturing Company, Cincinnati, Ohio, July 18.
C. Brown Whitley, President, Scandura, Inc., Charlotte, North Carolina, July 20.
C. J. Backstrand, Chairman, Armstrong Cork Company, Lancaster, Pennsylvania, July 21.
Robert S. King, Chairman, The Philip Carey Manufacturing Company, Cincinnati, Ohio, July 21.
Seymour Milstein, Senior Vice President for Corporate Development & Director, The Ruberoid Co., New York City, July 21.
William S. Simpson, Vice President, Secretary & Director, Raybestos-Manhattan, Inc., Bridgeport, Connecticut, July 21.
Roscoe E. Tallman, Director, Tallman McCluskey Fabric Company, Kirkwood, Missouri, July 22.
Mrs. Nina Schwezoff, Vice Managing Director, Putten's Asbestos Organization, Johannesburg, South Africa, July 25.
Robert E. Rimbach, Secretary-Treasurer, Magnesia-Asbestos Insulation Company, New York City, July 26.
Clinton B. Burnett, President, Chief Executive Officer & Director, Johns-Manville Corporation, New York City, July 29.
R. B. Williams, First Vice President, Treasurer & Secretary, The Russell Mfg. Co., Middletown, Connecticut, July 31.
C. B. Brown, Turner & Newall (Overseas) Limited, Montreal, Canada, August 1.
G. P. Reilly, Plant Manager, National Gypsum Company, Millington, New Jersey, August 5.
Wade I. Duym, Vice President & General Manager, Asbestos Corporation of America, Garwood, New Jersey, August 6.
A. P. Keasbey, Sr., President & General Manager, Robert A. Keasbey Company, New York City, August 6.
R. C. Braun, Secretary-Treasurer, Niagara Asbestos Company, Buffalo, New York, August 8.
Arthur C. Smith, Vice President of Research, Development & Engineering, Johns-Manville Corp., New York City, August 8.
Melvin H. Baker, Chairman of the Board, National Gypsum Company, Buffalo, New York, August 11.
Grant V. Wilson, President, Grant Wilson, Inc., Chicago, Illinois, August 11.

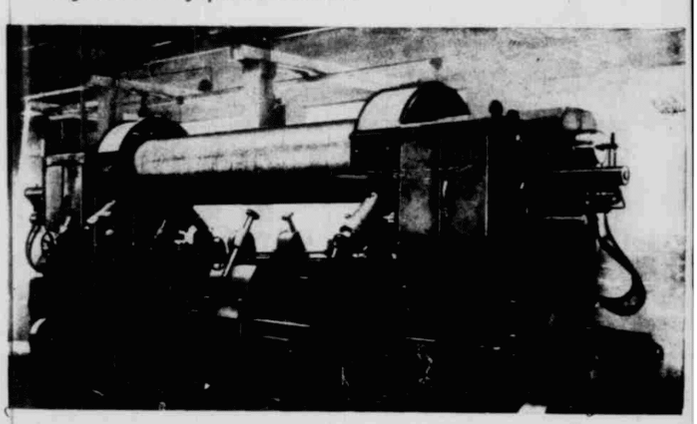
To all these gentlemen we extend congratulations and best wishes on the occasion of their birthdays.

J.M.VOITH A.G.

one of the oldest manufacturers of asbestos-cement machinery are proud to have at their disposal a team of first-class engineers and technicians who are continually engaged in the development, design and construction of the complete machinery for the production and testing of all kinds of asbestos-cement sheets and pipes.

Our engineering staff shun no effort to promote an increasing economy of manufacturing operations in the asbestos-cement industry by continually improving the design of the individual machines and by making their operation largely automatic.

We invite you to avail yourself of the experience of our staff of expert engineers and highly-skilled craftsmen!



Full-automatic pipe turning lathe IIIh turning a pipe of nom. width 800 on the workshop test bench

J.M.VOITH A.G.

St. Poelten-Austria, P.O.B. 168 Tel. 2501, Teletype 01510

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U. S. Rubber—Claude H. Allard, Vice President and General Manager of the Textile Division, United States Rubber Company, has announced the appointment of **C. H. Sigler** to Commercial Development Manager of the Textile Division. Mr. Sigler will be located at the company's Administrative Center in Winnsboro, South Carolina, and will report directly to Mr. Allard on the commercial development of the Textile Division's new products.

Allan M. Wilson has been appointed Manager of Textile Products, International, of the Textile Division of U. S. Rubber. He will coordinate the activities of U. S. Rubber's affiliated overseas thread companies which manufacture Lastex and Vyrene. The affiliated companies are located in England, Wales, France and Italy. Mr. Wilson will also be responsible for the sales of all of the division's products outside of the United States.

Cape Asbestos Group—Continuing his work as Economic Consultant and, in addition, assuming the responsibilities of Publicity Manager to The Cape Asbestos Company Limited, **A. A. Cross** has been appointed Marketing Consultant to The Cape Asbestos Group of Companies effective July 1st, 1964.

Dennis Lole has resigned his appointment as Publicity Manager to The Cape Asbestos Company Limited effective July 1st, 1964, and will be taking up an appointment outside the Cape Group.

H. K. Porter Company, Inc. has named **Joseph P. Lisa** Works Accountant for its Trenton, New Jersey, Works, Thermoid Division, effective August 1st, 1964. The Trenton plant manufactures brake linings and friction materials.

Joseph L. Petescia was named Works Accountant at Porter's W-S Fittings Works, Fabricated Metals Division, in Roselle, New Jersey. He joined the Division in 1962.

The Bauer Bros. Co., Springfield, Ohio, has appointed **Richard L. Lawson** as Chicago, Illinois, area representative. Mr. Lawson will be responsible for sales, service and consultation on Bauer equipment and systems for grinding, classifying, separation, pressing, extraction and cleaning, in both dry and wet processing applications. This appointment will facilitate better all-around service for Bauer customers in the midwest area.

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THETFORD MINES, QUE.

CANADA

Producers of

Raw Asbestos Crudes

& Fibres

Sales Representatives

for

Cassiar Asbestos Corporation Limited

Johns-Manville—Succeeding **J. H. Goodwin** who retired after 19 years company service. **Louis F. Frazza** has been elected Vice President of Johns-Manville Sales Corporation and appointed General Sales Manager, Direct Sales, Johns-Manville Pipe Division. In his new operating capacity, Mr. Frazza will be responsible for national sales and merchandising of J-M Transite asbestos-cement pipe to municipal and private water and sewer systems.

Edward F. Briggs has been named a Vice President of the J-M Sales Corporation and General Sales Manager of the newly formed Aerospace Products Department. He was formerly Manager of the Aerospace Products Group within the J-M Industrial Insulations Division. Products of this group were used to insulate the Mercury spacecraft and are utilized aboard the Gemini spacecraft.

James D. Bettridge has been appointed Vice President and General Sales Manager-Equipment Products Department of J-M's Industrial Insulations Division. He has been with J-M since 1957 at which time he joined the company during the acquisition of LOF Glass Fibers Company, where he was Manager of the Distributor Division.

S.p.A. M.A.G.I.C. V. PAGLIERI

TURIN, Italy — Via Orbetello 152

Cables: Paglierigom Torino

Telephones: 290.036 - 290.246 - 296.991

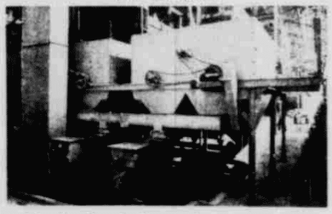
Founded in 1920

Since the beginning of the Asbestos-cement pipe industry, we have specialized in the production of rubber rings for all kinds of couplings suitable to water, gas and hydrocarbon pipes. We are the only Company in the world that has been producing couplings made of rings for over thirty years.

For the beneficiation of asbestos ore,

Modern HAZEMAG Impact Crushers

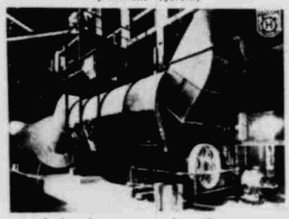
(Andreas System)



- Fiber-length protective opening of ore and crude.
- Opening of pressed asbestos.

Modern HAZEMAG Rapid-Dryers

(Andreas System)



for drying pre-crushed asbestos-ores of various moisture-contents with fibre-selecting effect.

HAZEMAG mbH., Münster/Germany, P.O.B. 576

Our New York Office:

HAZEMAG USA Inc., New York 17/N.Y.

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Canada: Joy Manufacturing Company Ltd.
75 Beverly Street, Galt, Ontario

USA: Joy Manufacturing Company
333 Oliver Building, Pittsburgh 22, Pennsylvania

Australia: Noyes Bros. Pty. Ltd.
P.O.B. 1587, G.P.O. Sydney

South Africa: Industrial Machinery Supplies Pty. Ltd.
P.O.B. 9653, Johannesburg

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CURRENT RANGE OF PRICE

As of August 10, 1964

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

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

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

Group No. 1 (Crude No. 1)	$1,410.00	to	$1,475.00
Group No. 2 (Crude No. 2); Crude Run-of-Mine and Sundry	610.00	to	875.00
Group No. 3 (Spinning Fibre)	350.00	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

CASSIAR— Per Ton of 2,000 lbs., f.o.b. Vancouver, B. C.
(As of January 1, 1964) Canadian Currency

AAA grade (non-ferrous spinning fibre)	$ 787.00
AA grade (non-ferrous spinning fibre)	625.00
A grade (non-ferrous spinning—Canadian Group 3)	470.00
AC grade (asbestos cement—Canadian Group 4)	325.00
AD grade (asbestos-cement—Canadian Group 4)	260.00
AK grade (shingle fibre—Canadian Group 4)	220.00
AS grade (shingle fibre—Canadian Group 4)	181.00
AX grade (shingle fibre—Canadian Group 5)	160.00

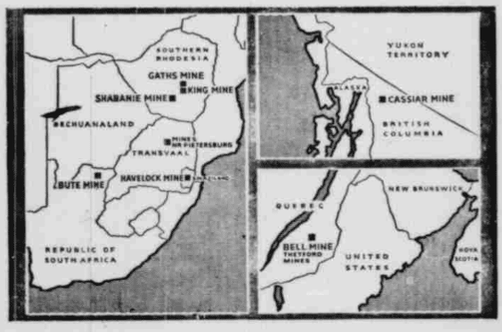
VERMONT— Per ton of 2,000 lbs. f.o.b. Mine
(U.S. Dollars—converted to Canadian equivalent)

Group No. 3 (Spinning & Filtering)	$ 345.00	to	$ 402.00
Group No. 4 (Shingle Fibre)	151.00	to	320.00
Group No. 5 (Paper Fibre)	120.00	to	142.00
Group No. 6 (Waste, Stucco or Plaster)	..	to	86.00
Group No. 7 (Refuse or Shorts)	40.00	to	75.00

asbestos

chrysotile, crocidolite and amosite fibres
from Africa and Canada
from Britain's largest distributors

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ASBESTOS STOCK QUOTATIONS

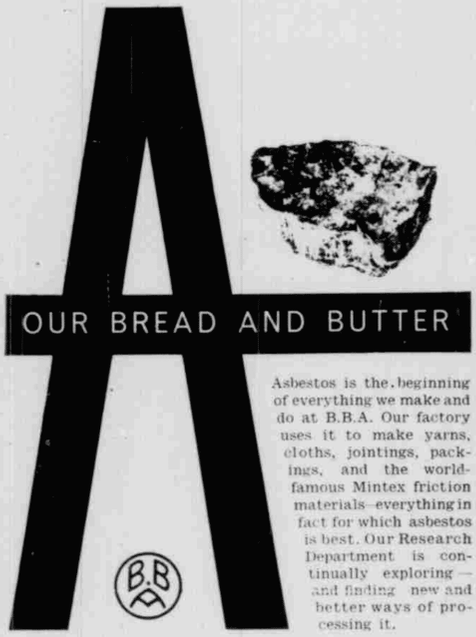
These figures are compiled from the Commercial & Financial Chronicle. No guarantee as to their correctness.

		July 1964		
	Par	Low	High	Last
Advocate Mines Ltd.	1	$6.25	$6.50	$6.45
American Brake Shoe	np	54½	59¾	59½
Asarco	np	48¾	51⅞	51
Armstrong Cork (Com)	1	61⅝	66	65½
Armstrong Cork (Pfd)	np	88	90	90
Asbestos Corporation	np	22⅜	23	23
Philip Carey	10	28½	30⅝	30¼
Cassiar Asbestos	np	12	12½	12
Certain-teed	1	15⅜	17⅛	15⅝
Flintkote (Com)	5	24¼	26¼	25½
Flintkote (Pfd)	np	87¼	89	88
Johns-Manville	5	56½	59¾	58
National Gypsum (Com)	1	46	48½	46½
National Gypsum (Pfd)	np	100	101	100
Pacific Asbestos	1	2¼	2½	2⅜
Porter, H. K.	100	100	101½	100¾
Raybestos-Manhattan	np	45⅜	46⅜	46⅜
Ruberoid	1	33	36⅜	35¼
Seagrave	2½	10¾	14	13¼
Unarco Industries	5	13⅛	14⅞	14½
United Asbestos	1	$2.50	$2.75	$2.59
U. S. Rubber (Com)	5	54⅛	57½	55
U. S. Rubber (Pfd)	100	165½	169	168½

Small and Parkes Limited, Manufacturers of DON and CAPASCO friction materials, announced that they have concluded, with the **Nisshin Spinning Company Limited** of Japan, a licensing agreement which is being submitted to the Japanese Government for formal ratification. Under this agreement, Nisshin will receive the benefit of the advanced technical and production knowledge of S&P to enable them to produce the wide range of brake and clutch materials required by the rapidly expanding Japanese motor industry.

Nisshin is one of the largest brake lining manufacturers in Japan. They also have wide interests in textiles, plastics and engineering and employ approximately 10,000 people in several factories throughout Japan.

Small and Parkes, a member of the Cape Asbestos Group of Companies, is rapidly expanding its influence in markets throughout the world following the increasing popularity of its products in England.



Asbestos is the beginning of everything we make and do at B.B.A. Our factory uses it to make yarns, cloths, jointings, packings, and the world-famous Mintex friction materials—everything in fact for which asbestos is best. Our Research Department is continually exploring — and finding new and better ways of processing it.

British Belting & Asbestos Ltd.

CLECKHEATON · YORKSHIRE · ENGLAND

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Asarco First Six Months 1964—Earnings for the first six months of 1964 were $19,113,000 compared with $15,130,000 in the first six months of 1963. This excludes non-recurring gains in 1964 of $3,033,000.

Carey Second Quarter 1964—Sales for the second quarter of 1964 were $19,972,900, compared with $18,696,183 a year ago. Earnings before taxes in the second quarter were $2,085,818 in 1964, compared with $1,761,363 for 1963. Sales for the first six months of 1964 amounted to $34,541,803 compared with $30,714,937 for the same period of 1963. Net earnings for the first six months of 1964 were $1,310,686 compared with $606,378. Current earnings and the favorable sales outlook indicate that 1964 profits will be substantially ahead of last year.

Flintkote Second Quarter 1964—Net sales for the second quarter totaled $76,394,143 compared with $77,258,683 a year earlier. Net income was $4,833,371 compared with $4,115,693. For the first half of this year, net sales amounted to $134,329,228 compared with $128,934,527 for the first six months of 1963. Net income totaled $6,526,588 compared to $4,498,592.

National Gypsum Second Quarter 1964—Sales for the 1964 second quarter were $69,218,000, compared with $68,559,000 for the same period in 1963. Earninngs of $6,568,000 were slightly lower than the 1963 second quarter figure of $6,909,000. For the first half of 1964, sales of $122,270,000 were up 7% over the $114,511,000 record volume for the same period last year and earnings were up 9% at $10,396,000.

H. K. Porter Second Quarter 1964—Net sales of H. K. Porter Company, Inc. were $68,494,684 for the second quarter of 1964, compared to $66,839,342 for the same period last year. Net income after taxes amounted to $1,529,486 against $1,315,786. Net sales for the first six months of this year were $131,844,735 compared to 1963's first half figure of $125,968,894. Net income after taxes amounted to $2,492,452 against $1,809,661.

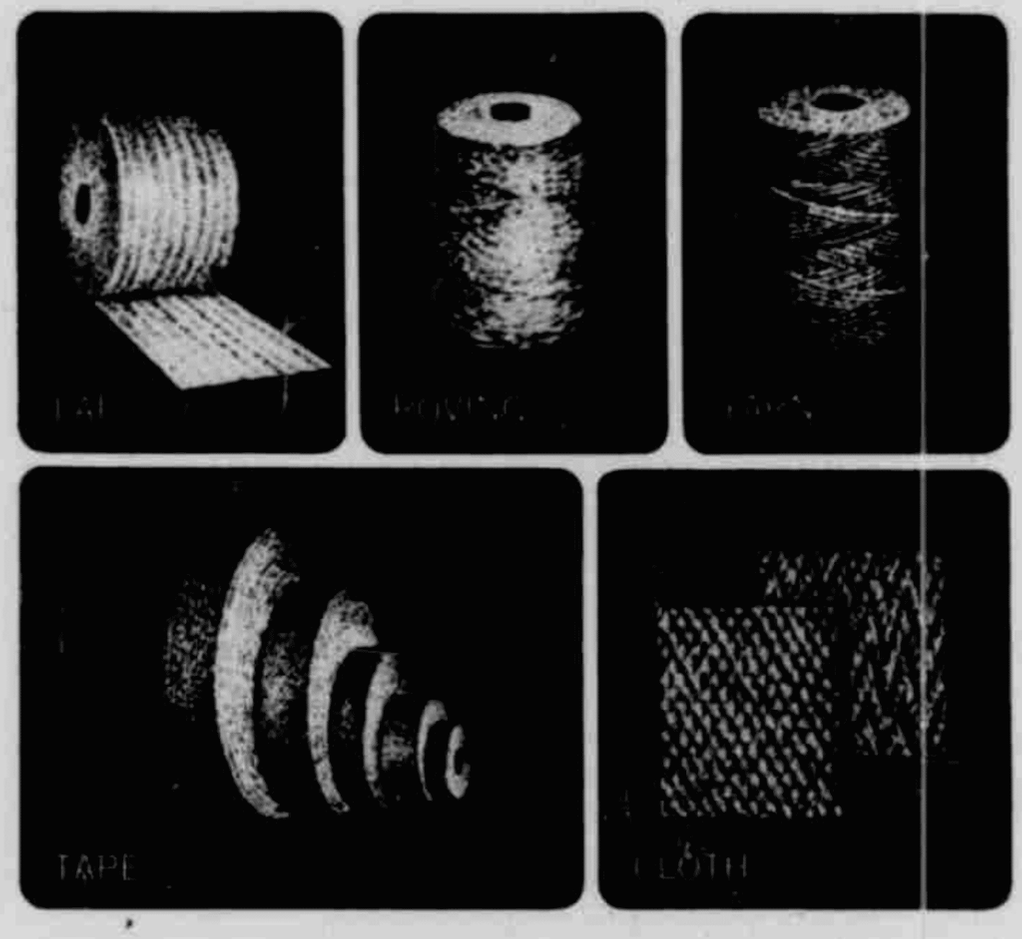
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R/M Lagging Cloths reduce both the weight and cost of shipboard and steamplant insulation; offer high tensile strength and excellent ravel resistance. Cloths coated with our SRC finish require only one paint application for a good appearance. R/M weaves all of the asbestos cloths described by Federal Specifications SS-C-00466d (Navy-Ships). Write for samples and complete information.

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RAYBESTOS-MANHATTAN, INC.
Manheim, Pa.
SPECIALISTS IN ASBESTOS, RUBBER, ENGINEERED PLASTICS, SINTERED METAL



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whether it is plain or metallic cloth in herringbone or other weaves, or any of the more basic asbestos forms illustrated above. Porter Asbestos Textile products are available in all types, grades and forms.

For detailed information on any kind of asbestos textile product to meet the most exacting demands for heat, friction and acoustical problems, call or write Thermoid Division, H. K. Porter Company, Inc., 1000 Seaboard Street, Charlotte, North Carolina 28206, or Porter Building, Pittsburgh, Pa. 15219.

PORTER **THERMOID DIVISION**
H. K. PORTER COMPANY, INC.