ASBESTOS



MARCH 1951

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Asbestos Textile Division · Manheim, Pa

Factories: Manheim, Pa.; No. Charleston, S.C.

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"ASBESTOS"

FOUNDED IN JULY 1919 AND PUBLISHED
MONTHLY SINCE THAT DATE

BY SECRETARIAL SERVICE
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A. S. ROSSITER, *Editor* E. E. COX, *Circulation Manager*

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MODULAR COORDINATION

Some of you may have read of this new method or system of measuring being used to a limited extent in the building industry.

That is it is used to a limited extent at present but undoubtedly its use will be vastly extended as time goes on, as it prevents waste of materials, of time and makes construction work vastly easier.

While we do not have the space to cover it fully in our pages, like many things of interest to our readers, we mention it and if interested they are at liberty to write the American Standards Association, 70 E. 45th St., New York 17, N. Y., for detailed information.

The illustration given by the ASA of how the system works makes it very clear. We quote:

When an automobile is assembled, there are no broken off or sawed-in-half pieces left over afterward, but wherever you see a building going up, you also see a small mountain of waste material piling up beside it. This trash-heap of brand-new materials waiting to be thrown away is a part of the cost of a building, altho it represents nothing but inefficiency and waste. These scraps cost just as much to buy as the material which remained in the building and many man-hours of labor went into delivering them to the site as part of the materials for the building, then cutting them off and throwing them away.

Altho the different parts that went into that automobile may have been manufactured in a dozen different states, each was made the right size so that they would fit together, exactly, on the assembly line. But building materials have from time immemorial been made in any old size, generally following custom or the convenience of the manufacturer but paying little or no attention to how they would fit together in a building.

Today there is in use a system designed to do away with such extravagance. The name for it is Modular Coordination. It is a system of dimensioning—a logical method for fitting standard-size building materials together without the need for "custom-tailoring" them on the site.

It sounds reasonable, doesn't it? And it seems to us is the most forward movement in the construction industry for years. If you have not read of it take time to find out more about it. It should be of interest to all those engaged in the manufacture or use of building materials.

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SOMETHING NEW

We are constantly amazed at the discoveries being made of various kinds, but especially, as is natural, in our own field—Asbestos.

This issue contains an article on the Aerofall Mill, which promises to change the entire asbestos milling process. And almost every issue of "ASBESTOS" contains mention of some new development,—in material, methods or processes.

However you who read "ASBESTOS" regularly, know that.

What really brought the subject to mind at the moment was the discovery (according to an item in the "We Hear" Section of "Rock Products") of a new material for protective packaging, claimed to have the attributes of economy, cleanliness, ease of handling, and the material is of all things—POPCORN. We suppose of course it refers to popcorn which has been *popped*.

COIN SHORTAGE

Congress was recently asked to appropriate several thousands of dollars for the making of small coins—pennies, especially, as there appeared to be a shortage, and people who for one reason and another have collected them, are asked to put them back into circulation.

In British West Africa they have a similar shortage but for a different reason. The natives there found the 1/10 penny coins were ideal, and cheaper than tin circles, for nailing down roofing paper, and used them for that purpose, causing the coins to almost disappear from circulation.

. . . —

Some of our readers may be interested in the brochure recently issued by the Trade Association Department of the Chamber of Commerce of the United States, Washington, D. C., under the title "Association Activities".

It is a classification and statistical survey of the activities and services of 509 trade associations.

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THE AEROFALL MILL

By D. Weston[1]*, M. C. I. M. M.*

(From a paper presented at the Annual Meeting of the Canadian Institute of Mining and Metallurgy, April 1950. Paper published in the December 1950 issue of the Canadian Mining and Metallurgical Bulletin).

The Aerofall Mill is of particular interest to the readers of "ASBESTOS" as it is the first development in a long period of years of a revolutionary nature in the primary treatment of asbestos bearing ores.

Advantages claimed for unit include lower power costs, lower labor costs, and better metallurgical results than obtainable with what has been hitherto regarded as standard equipment. Because the operation is completely automatic, virtually no skilled labor is required. The only major maintenance factor on the unit is the liner replacement, which normally is required not more than once a year and can be accomplished quickly by two unskilled laborers.

However, the most important fact about the Aerofall Mill is the manner in which it meets the problems which face the processor of industrial minerals. Basically, these are as follows:—

Dry crushing and grinding, requiring a comparatively dry material to begin with, and a final dry product.

With the use of dry crushing and grinding, the labor-health factor with relationship to the necessity for dust control.

A comparatively low recovery of the valuable ore constituents.

The obtaining of a product with a consistent chemical analysis; a product free from contaminants such as from steel balls used as a grinding medium. A consistent sized product. A product in a specified size range, with a minimum percentage of fines. A product in an extremely fine state of comminution.

The majority of these requirements has now been met by the Aerofall Mill.

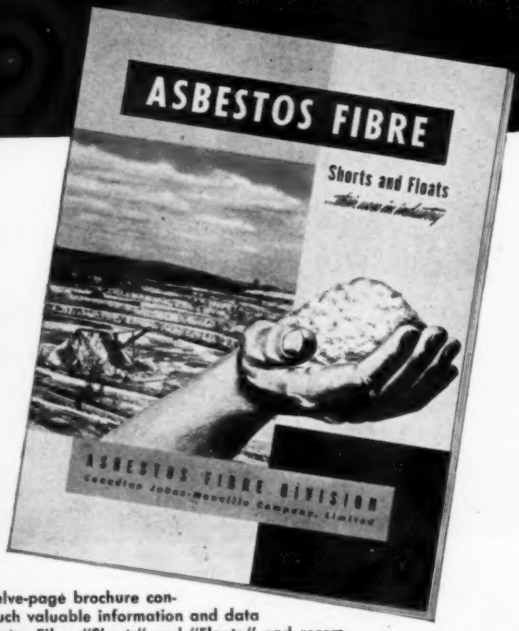
General Description:

The mill is a dry, combined crushing-grinding unit,

[1]President and General Manager of Aerofall Mills Limited.

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Free... the why, what and how of ASBESTOS "Shorts" and "Floats"



This twelve-page brochure contains much valuable information and data on Asbestos Fibre "Shorts" and "Floats," and recommendations for their use in product manufacture. It is available to you at no cost or obligation.

Direct your request to the address shown below.

ASBESTOS FIBRE DIVISION
Canadian Johns-Manville Limited
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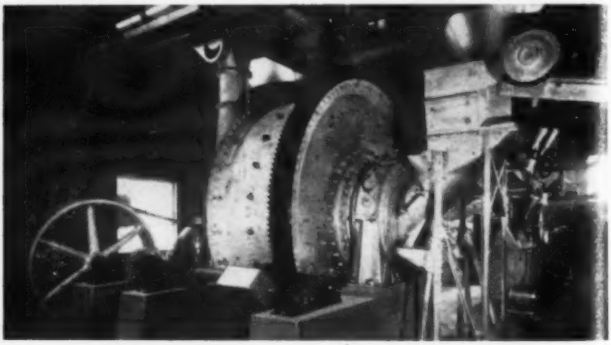
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capable of taking run-of-mine-or-quarry minus 18" sized material, and reducing it in a single operation to as fine as 99.8% minus 325 mesh. Where a coarse grind is required it is capable of producing a product in the 10 mesh range.

Air classification is employed, and due to the complete system being held constantly under a partial vacuum, dust concentration is low, requiring no dust control system for the plant.

The mill product may be collected in either a wet or dry type cyclone. With the wet system, the air classification fan is followed by a cylindrical air-wash chamber; in the dry system the air classification fan is followed by one of the standard methods of fine dust collection such as a bag-type filter.

Dependent upon the nature of the material to be



The Aerofall Mill 9 ft. x 4 ft. treating various industrial minerals as a customs plant.

treated and the capacity required, the unit may be operated using the material itself as the total charge, or with an additional charge of steel or tungsten carbide balls.

Mill Action:

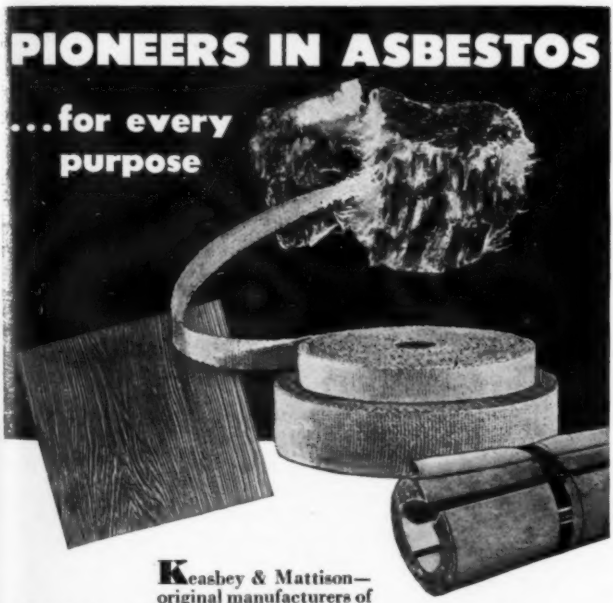
The work performed by the mill may be divided into the following categories:

Comminution by abrasion.

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PIONEERS IN ASBESTOS

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K&M best in asbestos

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Crushing through blow impact.
Crushing through free-fall impact.
Crushing and attrition through drag.

The various comminution factors are brought about by the overall design of the unit from the feed hopper to the classifier, and the return flow control of the classifier over-size.

The feed is fed to the mill by gravity. The fines flow over a false trunnion, tend to be carried above the vertical central line of the mill, flow over the intake end guide plates, and are led to the central vertical plane of the mill on and above the toe of the charge.

The coarse feed, due to the momentum of the larger particles, tends to leave the false trunnion or the feed hopper on the vertical central line of the mill, strikes the discharge end guide plates, and is deflected to the centre of the mill in front of the toe of the charge.

The classifier over-size returns to the mill by gravity, flows over the false trunnion on the discharge end, is picked up by a reverse helix that carries the product well above the central vertical line of the mill, depositing it on the upper faces of the discharge guide plates where it flows by gravity into the horizontal central zone of the mill on and above the toe of the charge.

This combination of feeding and flow control of classifier oversize eliminates longitudinal segregation in the charge, giving a complete distribution of the various sized particles over the length of the mill.

The true toe of the charge starts in front of the vertical central plane of the mill. The main body of the charge is at a repose angle of 77° to 82°. This factor is made possible by:

(a) Dry grinding, which, due to the internal friction of the dry material, will give a greater angle of repose than a wet mill operating under the same conditions.
(b) High operating speed of the mill, together with a minimum of slippage between the shell and the charge.
(c) The "keying" effect at and in front of the toe. This is due to the use of comparatively large particles of feed, the crush-up effect of the crushing bars, the use of dry grinding, and the prevention of longitudinal segregation.
(d) The small charge used, that is 22 to 28% of the mill volume.

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The theory of abrasion comminution by tumbling bodies needs no further enlarging upon. The salient factors in the Aerofall Mill are:—

(a) The material is basically comminuted by the same material, with useful work being done on what would be normally termed the "tumbling body."

(b) The tumbling bodies cover a size range of what may be considered the finest particle produced to the maximum feed size.

(c) The concentration of the coarse feed is in the bottom central zone of the mill. The major crushing action is obtained in this zone and the adjoining toe. The coarse particles remaining will tend to be concentrated near the shell, and as they are carried through into the body of the charge will tend to migrate towards the centre of the mill.

In the cataracting zone the material is segregated, the ¼" to the outer parabola, and the gradual increasing to 1½" in the innermost parabola. The ¼" to 1½" is the only material size to fall through the full cataracting zone. Finer material that leaves the main charge is picked up by the air current, carried into the classifier where classification is obtained by a sudden change in angle of the air flow, and at an enlarged cross-sectional area of the mill discharge line, allowing the over-size to drop out of the air stream and return to the mill. By this means the cushioning effect which is so common in dry grinding is substantially overcome.

The ¼" material strikes the bare shell, and the coarser, a shallow bed of material remaining from the particles previously dropped. Particles broken in this zone are removed as soon as they are fine enough to be picked up by the air system, again overcoming cushioning effect and also over-grinding.

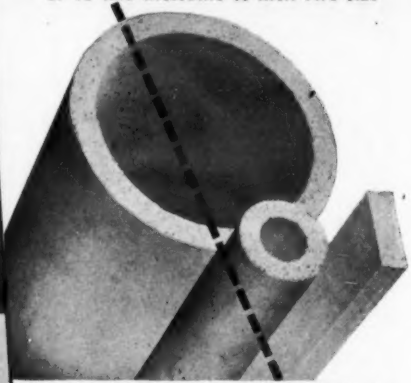
The particles remaining are normally the tougher constituents of the feed. These particles now pass through the full abrasion zone, and are forced through the maximum abrasion forces. Thus, differential grinding on the tougher constituents is affected. Similarly, the classifier over-size will undergo a less stringent and shorter time of abrasion contact.

Crushing, or let us say, for the want of a definition in this case, reduction of the feed to minus 1½" size

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PABCO

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particles is carried out mainly in the bottom central zone of the mill. Two other possible minor crushing zones in which but little data is known, will be mentioned later.

The coarse feed is primarily fed into the central bottom zone of the mill. The only force initially acting upon it is gravity. The initial action of the crushing bars is that of blow impact, with the particles backed by the coarser particles ahead (which have not as yet been acted upon by the centrifugal force of the mill) and also the comparative inertia of the toe due to the directional change of the charge at this section.

If the particle is not broken by the time it is carried past the toe, it will probably be dragged for a short distance, finally take up the tumbling couple, leave the shell and migrate to the inner layer of the charge, leaving the charge after a comparatively short movement, and roll or slide to the toe. Under these conditions, it will not only be under the compression force of the crushing bars, but also act as a tumbling body under the enlarged forces of the toe.

The "Cascade Zone" is formed by the differential movement of the innermost layer moving upwards, and primarily coarse particles rolling and sliding in the downstream. The work performed would be attrition, abrasion, and impact. This Zone will tend to be a balancing factor in the mill, the work performed being dependent upon the rate of breakdown of the coarse particles, percentage of coarse particles in the feed, and the specific gravity of the material.

A detailed description of the results obtained by the Aerofall Mill in the milling of asbestos ores will be presented in a second article to be published in April.

• • •

The National Production Authority has established 55 new offices bringing to 97 the number to provide field service to businessmen on problems arising out of NPA activities.

Activities of all new offices established in various cities will be confined to NPA matters while the 42 previously established Commerce Department field offices will continue to serve as NPA information points as well as handling other department programs.

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LEWIS H. BROWN DIES SUDDENLY

The whole Asbestos Industry was profoundly shocke when it learned of the death, on February 26th of Lewi H. Brown, Chairman of Johns-Manville Corporation, an probably the most outstanding character in the Industry

Mr. Brown had gone to Delray Beach, Florida for a few days rest apparently in the best of health; he wa stricken at 8:45 A. M., and died immediately.

Mr. Brown became President and Chief Executiv Officer and a Director of Johns-Manville in 1929, at th age of 35. He held this position until September 194 when he was elected Chairman of the Board, continuing as Chief Executive Officer.

Like many industrial leaders, Mr. Brown began lif in a small town. He was born on February 13, 1894 i Creston, Ia. When he was ten years old he was workin on a farm; it was only 25 years later that he became presi dent of Johns-Manville, one of the youngest men in th country to hold such a responsible position.

He was a graduate of the State University of Iowa having worked his way thru and graduated in 1915 wit a bachelor of arts degree, having also studied law.

Mr. Brown started his business career in the sale department of the Fort Wayne (Indiana) Corrugated Paper Co. as soon as he left college, at a salary of $15.0 a week. Two years later he was assistant to the sale manager. After serving in the First World War he wa employed by Montgomery Ward & Co. in the personne department. At the end of eight years he had risen to the post of assistant general operating manager of all plants. T. F. Merseles was President for Montgomery Ward a the time and when Mr. Merseles was chosen President o Johns-Manville in 1927 he took Mr. Brown with him t New York as his assistant. Upon the death of Mr. Merseles a little less than two years later Mr. Brown was electe President and a Director of Johns-Manville in March 1929

Mr. Brown had many interests outside Johns-Manville; he was awarded the first Vermilye Medal by the Franklin Institute of the State of Pennsylvania; he

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NEW ORLEANS 15, LA.

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went to Europe in May 1947 to study at first hand the problem of bringing about economic recovery for Germany and Western Europe, his book "Report on Germany" outlines his plan; he spent several weeks in Latin America in 1948, studying business and economic conditions in many of the South American countries; he was a director of the American Telephone and Telegraph Company, and a director of the Federal Reserve Bank of New York. He organized and was Chairman of the Executive Committee of Tax Foundation, Inc., and Chairman of the American Interprise Association.

Truly, Lewis H. Brown has left many vacant places which it will be exceedingly hard to fill.

A. S. T. M. ITEMS

1. A new A.S.T.M. Manual on Quality Control of Materials, sponsored by Committee E-11 on Quality Control of Materials, has been issued and takes the place of the widely used A.S.T.M. Manual on Presentation of Data.

It can be obtained from the American Society for Testing Materials, 1916 Race St., Philadelphia 3, Pa., at $1.75 per copy, within a short time, being expected from the printer shortly.

2. A new technical committee which is to concentrate its work on the formulation of methods of atmospheric sampling and analysis, the selection of acceptable nomenclature and definitions and the stimulation of research to accomplish the foregoing purposes, held its organization meeting at the Headquarters of the A.S.T.M. in January. Dr. L. C. McCabe, Chief, Air and Stream Pollution, U. S. Bureau of Mines, has been designated Temporary Chairman of the new committee which has the designation D-22.

• • • —

Lauren E. Seeley, dean of the College of Technology and director of the Engineering Experiment Station, University of New Hampshire, Durham, N. H., has been elected 1951 president of The American Society of Heating & Ventilating Engineers. Mr. Seeley succeeds Lester T. Avery of Cleveland.

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ASBESTOS TEXTILE INSTITUTE

Report on Activities

The Asbestos Textile Institute is the industrial trade organization devoted to the advancement of the interests of the manufacturers of asbestos textiles. The Institute was founded in 1944 and has continued to grow and expand its interests with each passing year.

The officers of the Institute for the year 1951 are: President, R. E. Cryor, Union Asbestos & Rubber Co.; Vice-President, G. S. Fabel, Southern Asbestos Co.; Treasurer, D. W. Widmayer, Keasbey & Mattison Company; and Secretary, M. C. Shaw, Rutgers University.

Four general Committees serve in the promotion of the activities of the Institute and of the industry, as it is represented within the organization.

The Air Hygiene Committee, under the Chairmanship of B. W. Luttenberger, serves the industry thru its study of the industrial health hazards which may be encountered in the manufacturing operations involving asbestos materials. A comprehensive survey of the health and hygienic problems within the asbestos textile industry has been conducted by the Committee in recent years, and the results of this investigation serve as the basis for the activities of the Committee. Asbestos dust problems, as they occur in industry, are for the most part well controlled by the individual manufacturers. However, the Air Hygiene Committee provides for the members of the Institute a clearing point for new developments in dust control, and also serves as a forum for discussion of these problems.

The Sales Promotion Committee is now under the Chairmanship of J. A. Bettes who recently assumed this office following the resignation of H. T. Bain, who had served as Chairman since the organization of the Institute. The activities of this Committee are directed, in great measure, to general publicity on asbestos textiles and their usages. In 1946, a 28-page "Primer on Asbestos Textiles" was published, and since that date nearly 20,000 copies have been distributed to industry, to the general public, and to numerous schools, colleges and universities. In 1948, the first Visual Aid Display on Asbestos Textiles (see

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photograph) was introduced by the Institute, and wa offered for general exhibition purposes. This initial ef fort met with such favorable response that six more dis plays were prepared, and all are now being exhibited on traveling schedule thruout the United States in th leading colleges, universities and textile schools. The In stitute believes this is a valuable means of giving publicit to asbestos textiles and their uses, and also a means o creating public interest in asbestos generally. The Sale



Asbestos Textile Visual Aid Display Case.

Promotion Committee is now preparing a four-page folder for general distribution which will further serve as an edu cational medium thru the presentation of a non-techni cal discussion covering the asbestos minerals and the pro ducts produced therefrom.

The Technical Committee, under the Chairmanship of J. M. Weaver, serves the Institute and the industry in many important ways. One of the functions of the Com mittee is to direct the work of the Asbestos Textile Institute

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QUALITY
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FOR

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Fellowship at Rutgers University. The Fellowship was established in 1946 and a comprehensive research program was at that time initiated. During the ensuing years many technical problems have been investigated and industry-wide evaluation of some of the products of the industry have served to provide the members with important basic information. One of the more important contributions of the Fellowship has been the development of the Abradoflex, a testing machine wherein the wearability of asbestos textiles may be evaluated on the basis of resistance to abrasion and flexing actions. Other projects of interest have covered such problems as flame spread resistance, the determination of fundamental structural characteristics of the asbestiform materials, determination of thermal degradation characteristics of asbestos textiles and many other problems of interest to both the producer and consumer of asbestos textiles. In addition to the Fellowship activities, the Technical Committee meets periodically to discuss the various technological problems which arise within the industry. Federal and industrial specifications are often referred to this Committee for review and recommendations.

The Fiber Committee, under the Chairmanship of R. E. Cryor, is concerned with the procurement of asbestos fiber and also the question of grading of fiber. This Committee is intended to function as a laison group to aid in informing the miners of asbestos of the general problems of the members of the Asbestos Textile Institute, with view toward maintaining gradings of fiber at the highest possible level consistent with the problems of the miners. In periods of shortage of asbestos fibers, as at present, it is also the purpose of this Committee to provide members of the Institute with pertinent information regarding the ever-changing fiber supply problem.

The Asbestos Textile Institute holds general meetings four times each year. Normally, two of these meetings are held each year in Philadelphia, Pa., one meeting in Charlotte, N. C., and one meeting in Chicago, Ill. The general meetings provide an opportunity for thorough discussion of the activities of the Institute, and the high level of interest and active participation by each member company

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that has been evidenced since the founding of the organization has contributed substantially to the growth and influence of the Institute in the affairs of the industry.—*By Dr. Myril C. Shaw, Secretary.*

. . . —

The 20th Annual National Packaging Exposition, will be held April 17th to 20th, at the Auditorium in Atlantic City, N. J. This promises to be a bigger Show than last year which was held in Chicago.

. . . —

Many problems of materials handling in the mining industry will be considered at the Materials Handling Conference which will be held concurrently with the National Materials Handling Exposition at the International Amphitheatre, Chicago, April 30 to May 4 inclusive.

Mining executives are promised "scores of machines specially suited to the industry" among the thousands which will cover ten acres of exhibit area, both indoors and out.

. . . —

Altho production of asbestos crudes and fibres is constantly being increased, it still cannot keep up with the demand.

. . . —

Say less and people will pay more attention to what you do say.

. . . —

Avoid him who flatters you and bear with him who contradicts you.



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FOR

ASBESTOS CEMENT PRODUCTS

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MARKET CONDITIONS

GENERAL BUSINESS

Generally speaking all business is good, even tho it is faced with uncertainties as to taxes, price controls, wage controls, shortage as a result of government stockpiling and whatnot.

Just what will happen is anybody's guess at present.

Demand is good in practically all lines from building down thru the hard goods—refrigerators, automobiles, etc. to small consumer items. People are buying now with the idea that they won't be able to get many things later, or if they are, a tax will have been placed on them in the meantime.

At the same time government economy is being stressed by economists and financial editorials. Will the warnings be headed?

ASBESTOS—RAW MATERIAL

In general production is running at a high level and demand exceeds supply in practically all grades, but particularly in what are commonly known as the textile, shingle and paper fibre groups. During February an extreme car shortage occurred at some mines as a result of the railroad strike in the United States, thereby curtailing fibre schedules.

ASBESTOS—MANUFACTURED GOODS

Asbestos Textiles. Market demand is quite heavy, in excess of production. This is particularly true of asbestos cloth; and, say some correspondents, of packings. Manufacturers tell us the present backlog of orders will require months of consistently high production.

Asbestos Paper. This market shows strong demand which will undoubtedly continue for some time. *Saturated Paper* demand has been curtailed by restrictions on residential construction and the severe winter weather. It is likely that all production will be absorbed when the weather

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improves altho at present production is in excess of demand.

Asbestos Millboard. Demand continues fairly high altho it is believed will not exceed manufacturers' ability to supply.

Insulation. High Pressure. There is an extremely heavy demand for pipe covering especially in standard thick and sizes from ½ to 9". Block requirements are not as much in demand altho defense orders are beginning to appear. Prices for materials are firm and those for contract work seem to be stiffening slightly.

Insulation. Low Pressure. Backlog in this market is increasing—contrary to normal trend.

Asbestos-Cement Products. The extreme weather conditions, especially in the Midwest, for the past two months, have slowed down the siding and roofing market considerably, but production is keeping up at a normal rate and from all indications this market will open up strongly shortly in view of expected Government buying. The siding market is gradually strengthening.

The corrugated asbestos-cement market is exceptionally strong and shipments are running anywhere from three to four months behind.

From an overall view, the Asbestos-Cement Industry is in a very strong position.

There have been an increasing number of defense orders for Pressure and Sewer Pipe within the past month and the trend is increasing, with no letup in demand from normal municipal and industrial sources. Expected reduction in housing construction has not lessened the demand for flue pipe and house connection sewer pipe. Demand for electrical conduit also remains high with larger requirements for military construction.

The above comments have been received from executives closely in touch with the various markets. All comments are welcome.

• • • —

The past cannot be changed, the future is still in your Power.

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Africa (S. Rhodesia)

(Published by Rhodesia Chamber of Mines)

Tons—2000 lbs.

Production for November 1950	5,506.50 tons
Valued at	£336,836

Africa (Swaziland)

Production December 1950	2,735 tons (2000 lbs.)
Making total production reported in 1950	30,000 tons (2000 lbs.)

Cyprus

(From W. Perry James, A. C. S. M. Inspector of Mines)

	4th Quarter 1950		
	October	November	December
	Tons—2000 lbs.		
Rock Mined	101,416	74,997	....
Rock Treated	43,708	36,105	11,202
Fibre Produced	1,429	1,114	472
Fibre Exported	3,125	35	1,511

	Year 1950
	Tons—2000 lbs
Rock Mined	1,552,376
Rock Treated	471,291
Fibre Produced	16,520
Fibre Exported	17,661

United States

Preliminary estimate of Production of Asbestos in the United States in 1950 is given by Oliver Bowles, Commodity Specialist, Construction and Chemical Materials Branch, U. S. Bureau of Mines, as 42,000 short tons. This compares with actual production in 1949 of 42,918 short tons.

Specialists on Asbestos Problems

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IMPORTS AND EXPORTS

Imports into U. S. A.
(Figures by Bureau of Census)

	November 1950 Tons (2240 lbs.)
From Canada	64,899
S. Rhodesia	1,051
Union of S. Africa	1,089
Mozambique	207
Bolivia	35
United Kingdom	1
Italy	6
	67,288
Valued at	*$5,333,277*
By Grades:	
Crude No. 1 Chrysotile, Canada	2
Crude No. 1 Chrysotile, S. Rhodesia	94
Crude No. 2 Chrysotile, Canada	55
Crude No. 2 Chrysotile, S. Rhodesia	112
Crude Other, Chrysotile, Canada	304
Crude Other, Chrysotile, Union of S. Africa	134
Crude Other, Chrysotile, S. Rhodesia	349
Crude, Amosite, Union of S. Africa	558
Crude, Amosite, Mozambique	207
Crude, Blue, Union of S. Africa	397
Crude, Blue, Bolivia	35
Textile Fibres, Chrysotile, Canada	2,059
Textile Fibres, Chrysotile, United Kingdom	1
Textile Fibres, Chrysotile, Italy	6
Textile Fibres, Chrysotile, S. Rhodesia	496
Shingle Fibres, Chrysotile, Canada	6,710
Paper Fibres, Chrysotile, Canada	5,713
Other Fibres, Chrysotile, Canada	50,056
	67,288

Manufactured Asbestos Goods:

	November 1950 Quantity (Lbs.)	Value
Asbestos Yarn		
United Kingdom	27,930	$19,339
Asbestos Packing—Fabric		
United Kingdom	2,211	1,781

(Continued on page 32)

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LOS ANGELES (Maywood): 6116 Walker Ave.

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Manufactured Asbestos Goods—Continued

	November 1950 Quantity (lbs.)	Value
Asbestos Packing—Not Fabric		
Canada	4	5
United Kingdom	965	618
Asbestos Woven Fabric, Other		
United Kingdom	2,000	400
Asbestos Brake Lining (Molded)		
Canada	1,768	1,023
Asbestos-Cement Products—Impregnated		
Canada	41,538	5,143
Asbestos-Cement Products—Not Impreg.		
Canada	890,830	37,544
Italy	217,798	10,442
Asbestos Manufactures—Other		
Canada	....	3
United Kingdom	....	310
	1,185,044	$76,608

Exports from U. S. A.
(Figures by Bureau of Census)

Unmanufactured Asbestos:

	November 1950 Tons (2240 lbs.)	Value
To United Kingdom	....	$ ....
S. America	373	69,400
Central America & Mexico	45	4,840
Europe	480	88,785
Other Countries	146	35,341
	1,044	$198,366

Manufactured Asbestos Goods:

		November 1950 Quantity	Value
Asbestos Pipe Covg. & Cement	Lbs.	394,318	$ 33,369
Asbestos Textiles and Yarn	Lbs.	61,199	52,785
Asbestos Packing	Lbs.	162,305	155,101
Asbestos Brake Lng. (Mld.&S.Mld.)	Lbs.	389,962	295,823
Asbestos Brake Lng. (Woven)	L. Ft.	76,675	56,019
Asbestos Clutch Facings	No.	49,758	43,306
Asbestos Brake Blocks	Lbs.	50,360	43,347
Asbestos Construction Materials	Lbs.	2,313,386	172,716
Asbestos Manufactures—Other		....	33,307
			$885,773

ASBESTOS FIBRES
FRANK G. RUGGLES & CO.
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Mines and Mills in Gila Co., Arizona

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Exports From Canada

(Published by Dominion Bureau of Statistics)

Unmanufactured Asbestos

	November 1950 Tons (2000 lbs.)	Value
Crude		
United States	83	$ 50,959
United Kingdom	..	..
South America	..	..
Central America & Mexico	..	..
European Countries	2	2,018
Other Countries	..	..
	85	$ 52,977
Milled		
United States	18,494	$2,453,693
United Kingdom	2,911	372,488
South America	1,899	314,095
Central America & Mexico	365	47,927
European Countries	4,277	650,390
Other Countries	2,309	293,212
	30,255	$4,131,805
Shorts		
United States	49,135	$2,138,373
United Kingdom	2,603	98,436
South America	240	16,020
Central America & Mexico	..	..
European Countries	3,413	183,540
Other Countries	704	46,578
	56,095	$2,482,947
Grand Total—Unmanufactured Asbestos	*86,435*	*$6,667,729*
Manufactured Asbestos Goods:		
Brake Lining		$ 57,105
Packing		5,617
Other Materials		41,419
		$ 104,141

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ASBESTOS FIBRE

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Australia - Statistics

(Published by Bureau of Mineral Resources, Geology and Geophysics, Ministr of National Development)

Tons—2240 lbs.

Production

	6 mos. ending 6/30/5
Chrysotile	256 ton
Crocidolite	409 ton
Amphibole	105 ton
	770 ton

Imports

Chrysotile	4,086 ton
Crocidolite	325 ton
Amosite	5,062 ton
Unspecified	1,436 ton
	10,909 ton

Exports

U. S. A.	95 ton
Other Countries	37 ton
	132 ton

Imports of Asbestos by United Kingdom

Raw Material

	January 1951 Tons (2240 lbs.)
From Union of S. Africa	1,747
Southern Rhodesia	1,469
Bechuanaland, Basutoland and Swaziland	946
Canada	2,010
Other Commonwealth Countries and the Irish Republic	294
Foreign Countries	30
	6,496

Of this 6,496 tons, 3,625 were Chrysotile and 2,871 other varieties.

These figures were supplied by the Mining Journal Limited of London.

Figures for December 1950, thus completing the year, through some mischance, have not been received. See our January 195 number for October and November. We shall publish the December figures and a summary for the year as soon as received.

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NEWS OF THE INDUSTRY

BIRTHDAYS

John H. Balch, Vice President, Treasurer and Director, Union Asbestos & Rubber Co., Chicago, Ill., March 22.

Paul G. Charbonnet, Vice President, Asbestone Corporation, New Orleans, La., March 23.

Grady B. Gulledge, President and Director, Apache Asbestos Mines, Inc., and Globe Asbestos Co., Vice President and Director, Arizona Chrysotile Co., Globe, Ariz., March 23.

George Barge, Treasurer, Keasbey & Mattison Co., Ambler, Pa., March 27.

A. R. Fisher, President, Johns-Manville Corporation, New York City, March 27.

J. A. O'Brien, Vice President, Johns-Manville Corporation, New York City, March 28.

Lord Elton, Director, The Cape Asbestos Co., London, England, March 29.

F. V. S. Smith, Director and Secretary, Hodgson & Hodgson, Ltd., Carrington, Nottingham, England, March 29.

W. C. Bowman, District Manager, Philip Carey Mfg. Co., Philadelphia, March 30.

George E. Grimshaw, Adviser on Industrial Insulation, M. W. Kellogg, New York City, March 31.

H. F. McFarland, Jr., President, Smith Asbestos Products, Inc., Millington, N. J., April 2.

G. M. Williams, President, Russell Mfg. Co., Middletown, Conn., April 6.

Herbert D. Harris, Asbestos Corporation of America, New York City, April 12.

J. M. Weaver, Textile Research and Development Engineer, Raybestos-Manhattan, Inc., Manheim, Pa., April 14.

Philip A. Meyer, Treasurer, Sall Mountain Co., New York City, April 16.

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

WILLIAM A. SINGLETERRY MADE
General Control Manager U. S. Rubber

William A. Singleterry has been appointed general control manager of United States Rubber Company's textile division, with headquarters at the company's general offices in Rockefeller Center, New York City.

Mr. Singleterry joined the company in 1933 as paymaster at Winnsboro Mills, S. C.

ASBESTOS DISTRIBUTORS, INC., MOVES

Asbestos Distributors, Inc., moved on March 12 to their new and larger office and warehouse building at 153-157 Highland St., Port Chester, N. Y. They were formerly located at 150 Pear Street.

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• BLUE ASBESTOS

The Cape Asbestos Company, Ltd., is the world's largest supplier of acid-resistant blue crocidolite asbestos, and the only manufacturer operating its own mines. Inquiries solicited on:

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RUBEROID HONORS MISS FICHTEL
In their Employ 50 Years

A record of 50 years of continuous service with The Ruberoid Co. was observed on February 23rd when Miss Maude R. Fichtel, who has been in the company's employ in New York since February 23rd, 1901, was guest of honor at a luncheon given by Herbert Abraham, Ruberoid president. On behalf of the company Mr. Abraham presented Miss Fichtel with a U. S. Government savings bond and a testimonial scroll.



Maude R. Fichtel

Miss Fichtel's present position with Ruberoid is that of chief secretary in the treasurer's office. Her first job was as a stenographer, which she obtained immediately after completing a course at the Packard Commercial School in New York.

UNARCO ISSUES BROCHURE
Company's Diversified Products, Facilities and Services

"Unarco Mobilized to Serve you" is the title of a six page folder describing, both by pictures and text, their widely diversified products, facilities and services. A request to the company's office at 1821 S. 54th Ave., Cicero 50, Ill., will bring a copy promptly.

U. S. TARIFF COMMISSION
Issues pamphlet "Grading of Asbestos"

The United States Tariff Commission, Washington 25, D. C., recently issued a 16 page mimeographed pamphlet "Grading of Asbestos", which lists the various grades of asbestos fibres in Canada, S. Rhodesia and Union of South Africa, Swaziland, U. S. S. R., India and the United States, with details as to fibre length.

It was prepared by R. M. Santmyers.

JOHN N. BYRNE MADE SUPERINTENDENT
Redwood City Asbestos-Cement Plant

Pabco Products Inc., announce the appointment of John N. Byrne as Superintendent of their Asbestos-Cement plant at Redwood City, California.



Byrne is a graduate of the University of California in chemistry, and has been associated with Pabco since 1941. Starting as a chemist in manufacturing control, he later became assistant superintendent of the felt mill in Emeryville, California. He was promoted to superintendent of the Redwood City plant on February 1st.

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PORTUGUESE ASBESTOS

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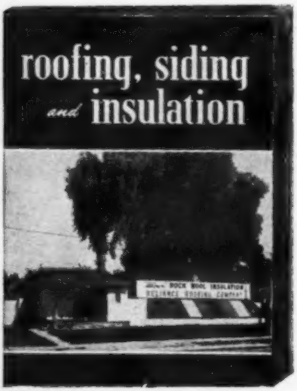
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CHANGES IN J-M TOP MANAGEMENT
Necessary by death of Lewis H. Brown

Leslie M. Cassidy was elected Chairman of the Board an Chief Executive Officer of Johns-Manville Corporation, an *Adrain R. Fisher* was appointed President of the Corporation a a special meeting of the Board of directors held March 2nd.

Mr. Cassidy succeeds to the post left vacant by the death o February 26, of Lewis H. Brown. Mr. Fisher succeeds Mr. Cassid who became President of Johns-Manville Corporation on the r tirement of R. W. Lea on January 31.

Clifford F. Rassweiler, Vice President for Research and D velopment, who was elected Vice Chairman of the Board and Director on January 31, continues in those duties and in additio will continue to have full responsibility for organization an direction of the company's new Planning Board, and will serv as assistant and alternate to the Chairman.

The Board also adopted a resolution memorializing th services of Lewis H. Brown to the Corporation.

GUY GEORGE GABRIELSON HEADS
International Metal Industries, Ltd.

Election of Guy George Gabrielson as president of Inte national Metal Industries, Ltd., was announced recently. Chai man of the Republican National Committee, Mr. Gabrielson suc ceeds H. W. Knight, who will continue as a director of th Company. Victor Mauck was elected chairman of the Board t succeed the late A. L. Ellsworth.

International Metal Industries is the holding company fo John Wood Company. Mr. Gabrielson also is president o Carthage Hydrocol, Inc., of New York and Brownsville, Texas and Board Chairman of Nicolet Asbestos Mines, Ltd., and Nicolet Industries, Inc. (formerly Gama Industries, Inc.) o which Victor Mauck is President.

ASBESTOS SUPPLY CO. OF SEATTLE
ESTABLISHES ACOUSTICAL DIVISION

The Asbestos Supply Company of Seattle has established an independently operated Acoustical Division.

Charles L. Badley has joined the firm as General Manager of this Division. He was formerly identified with Acousti-Celotex and Thermax on the Pacific Coast.

J-M TO BUILD NEW MILL
AT ASBESTOS, QUE.

Johns-Manville's Board of Directors has approved an author zation to proceed with engineering designs for a new mill at Asbestos, Que., Canada. The Directors also approved in principle the construction of a new mill at such a time when general cond tions would permit.

The new mill would replace present milling facilities at the company's Jeffrey Mine at Asbestos. It is estimated that it would take seven years to complete the project after it is possible to start construction.

The new mill would be designed to incorporate the most modern working conditions and the latest design of fireproof construction and milling equipment. Preparation of the site is expected to begin at an early date.

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ACE ASBESTOS MANUFACTURING CO.

Importers, Exporters, Processors of Asbestos Fibres of All Varieties

of

RAW ASBESTOS

for

Every Use

●

CHRYSOTILE
AMOSITE
AMPHIBOLE FIBRES

originating in
U. S. A. (ARIZONA)
CANADA
RUSSIA
CHINA
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SOUTH AFRICA

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Large Capacity Fiberizing and Grading Plant

451 Communipaw Ave. **Jersey City, N. J.**

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NICOLET INDUSTRIES, INC.
New Name for Gama Industries

Manufacturers of Gama Asbestos Pipe Line Felt announce a change of corporate name from Gama Industries, Inc., to Nicolet Industries, Inc. The Asbestos Felt will be known as NICOLET Asbestos Pipe Line Felt. This change in corporate and brand names has been made out of courtesy to the Gas Appliance Manufacturers Association to avoid possible confusion in the minds of the public between the company name and the Gama name of the association.

The Nicolet Asbestos Fibre Mine in the Province of Quebec, Canada, always carried the name of Nicolet and it was decided to carry this name into the product so that the consumer could identify the asbestos pipe line felt with the basic raw material source.

In addition to manufacturing Nicolet Asbestos Felt, Nicolet Industries, Inc., manufactures other asbestos products and metal products thru their associated companies as follows: Norristown Magnesia and Asbestos Company, Norristown, Pa.,—asbestos paper, asbestos millboard, asbestos and wool felt insulating materials and other asbestos specialties; Sall Mountain Company, Hamilton, Ohio,—similar asbestos products and asbestos gasket paper for the automobile trade; Valley Forge Metals Company, Lansdale, Pa.,—steel furnace jackets and steel jackets for hot water heaters and water coolers.

Also, officially associated with Nicolet Industries, Inc., are International Metal Industries, Limited, and the well known John Wood Company, Manufacturers of hot water heaters, range boilers, other types of steel tanks, gasoline service station equipment, ice cream and milk cans, and other metal products.

ASBESTOS CORPORATION LIMITED
ANNUAL REPORT

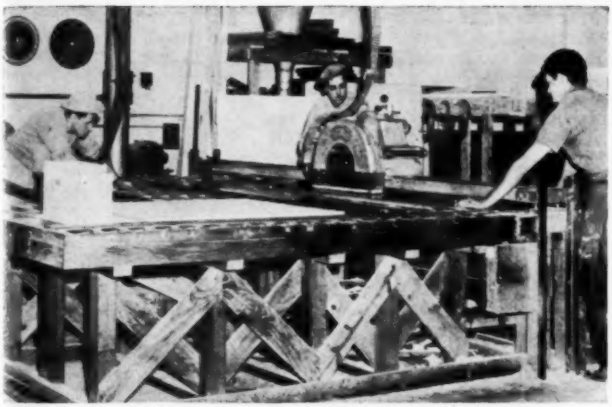
The 25th annual report of Asbestos Corporation Limited for the year ending December 31, 1950 shows a profit after charging all expenses including taxes, and after transferring $75,000 to the Pension Trust Fund, but before depreciation of $4,488,235. From this amount a sum of $1,000,000 was set aside for depreciation, leaving $3,488,235, out of which dividends of $1,320,000 were paid.

The following figures from the report may prove interesting:

	1950	1949
Net Income before Taxes	$5,045,235	$1,592,233
All Taxes	1,687,268	615,076
Paid to Employees	5,201,123	3,624,131
Dividends	1,320,000	960,000
Retained in business for Expansion	2,407,143	299,854
Earnings per share	5.81	1.89

The report is in book form, is beautifully printed and illustrated and is bound in asbestos paper.

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FAST, LOW-COST WAY for Cutting ASBESTOS PRODUCTS

Pictured is one of the two Stone Saws cutting ebony asbestos dry in the plant of the Ladden Asbestos Co., Brooklyn, N. Y. A typical operation is fast, clean cutting of 1½" ebony asbestos at the rate of 20 feet a minute or better.

You can reduce YOUR asbestos products cutting costs with a Stone Saw. Write today for further information.

STONE MACHINERY CO.

111 Fayette Street **Manlius, N. Y.**

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CHARLES S. FOWLER,
U. S. Rubber Textile Division

Charles S. Fowler has been appointed merchandise coordinator of the textile division of United States Rubber Co. Mr. Fowler will have his headquarters at the Company's general offices in Rockefeller Center, New York City.

AUTOMOBILE SALES

	January 1951
Passenger Cars	478,589
Motor Trucks	127,583
Motor Coaches	661
	606,833

In January 1950 a total of 581,362 cars were sold.

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

BUILDING

Estimates of construction volume for 1951, by F. W. Dodge Corp. as published in Architectural Record last November have been revised slightly *upward* as a result of recent developments in the defense mobilization program.

It is the direction of their revision, an outlook for more construction rather than less, that is regarded as significant rather than the size of the change.

They expect a total decline of 18 per cent rather than the 19 per cent previously expected, as compared with the record breaking construction volume of 1950. They anticipate that the recently ordered restrictions on commercial building will be more than compensated by increases in manufacturing plant, power plant, direct military building and civil defense construction.

Construction contract awards for *January* 1951 in the 37 states east of the Rockies were down 11 per cent from December but were still high enough to be 43 per cent ahead of January 1950 reports F. W. Dodge Corporation. The January figure was $1,043,248,000.

Residential awards totaling $420,918,000 were down 12 per cent from the December figure of $478,583,000, but were 23 per cent ahead of January 1950. Non-residential contracts of $461,016,000 were 6 per cent below December, but 96 per cent above January last year.

Newly formed concern in India for the manufacture of Asbestos Cement Sheets and accessories, invites offers for suitable combination with American Firms in this line. For details write Box No. 3SD-I, "ASBESTOS", 808 Western Saving Fund Bldg., Philadelphia 7, Pa.

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ROVINGS	WEBBINGS
YARNS	TUBING
CLOTHS	JOINTINGS
TAPES	PACKINGS





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London Office: 59, Southwark Street, S.E.1

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DOUBLE LAYER INSULATION GIVES SAFER, MORE EFFICIENT SERVICE

Application of molded insulation in two layers instead of a single layer of equivalent thickness results in a more efficient and, where a fire hazard is present, a safer installation, according to The Magnesia Insulation Manufacturers Association.

Expansion and contraction of high temperature equipment often causes joints between insulation blocks or sections to open. Enough heat can escape thru these cracks to materially reduce the effectiveness of the installation. Furthermore, the canvas or cement finish around the joint area may become sufficiently scorched to require repair or replacement.

Open joints are particularly dangerous in a fire hazard area, such as a refinery where a leak or break in an adjacent pipeline or vessel would allow escape of a flammable liquid. In a southwestern refinery enough heat escaped from the open joints of the insulation on a pipeline to ignite some oil-soaked materials left temporarily on the line. Canvas jacket of a high pressure steam line in a large central station power plant on the east coast was ignited by the heat escaping from the open insulation joints.

Double layer insulation permits the use of staggered joints and prevents these troubles. After the first layer is wired on, the sections or blocks in the second layer are applied so that each joint is centered over a block or section underneath. If the joints in the inner layer should open, the outer layer acts as an effective heat seal. In this way, there is no path of heat escape from the equipment surface to the outside.

THE McCORMICK ASBESTOS CO.,
3620 WOODLAND AVENUE, BALTIMORE 15, MD.
Has available large quantity of Standard Amosite Blanket 1" thick, 5' wide, 250 sq. ft. rolls. Greatly reduced price.

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CENTRAL ASBESTOS CO LTD

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JOHANNESBURG.

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· PATENTS

This information obtained from the Official Patent Gazette, published weekly by the U. S. Patent Office, Washington, D. C.

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

Insulating Material. No. 2,538,236. Granted on January 16, 1951 to Paul S. Denning, Joliet, Ill. Assignor to F. E. Schundler & Co., Inc., Joliet, Ill. Application April 24, 1944. Serial No. 532,530. (Vermiculite)

Sealing Device Having Inter-Bonded Rigid and Flexible Molded Portions. No. 2,538,198. Granted on January 16, 1951 to Otto E. Hosford, Palmyra, N. Y., Assignor to Garlock Packing Co., Palmyra, N. Y. Application April 18, 1947. Serial No. 742, 336.

BOOK LIST

The Asbestos Factbook, 16 pages. Information in compact form on origin, facts, locations, uses, analyses, qualities, 10c per copy.

Asbestos Mining Methods. By C. V. Smith. (Reprint) 16 pages. 25c per copy.

Milling Asbestos. By J. C. Kelleher. (Reprint) 16 pages. Companion article to Asbestos Mining Methods. Both should be in every Asbestos Library, 25c per copy.

Recovery of Raw Asbestos. By Roland Starkey. (Reprint) 6 pages. Supplement to Milling Asbestos. 25 per copy.

Canadian Chrysotile Asbestos Classification. Including latest Quebec Testing Method. January 1, 1949 Edition. 4 pages. 25c per copy.

Processing Asbestos Fibres. 8 pages. (Reprint) 25c per copy

Tests for Cotton Content. 4 pages (Reprint) Describing several methods of testing asbestos textile for cotton content. 10c per copy.

Chart—Dollars Cost of Uninsulated Pipe. (Reprint) 20c each

Brake Linings of Various Types, By R. T. Halstead. Reprint (12 pages) from August, September and October 1949 "ASBESTOS". Price 25c per copy.

Asbestos—The Silk of the Mineral Kingdom, by Oliver Bowles. 40 pages about asbestos, from mine to finished products, in plain language, illustrated, 25c a copy.

Twelve Estimating Tables, with Chart. Convenient in figuring flange fittings and other areas. $1.00 per set.

Manual of Unit Prices. For figuring pipe covering and blocks. 75c per single copy postpaid. Discount in quantities of 6 or more, postage billed.

Order any of the above from "ASBESTOS", 808 Western Saving Fund Bldg., Philadelphia 7, Pa. Postage stamps acceptable for amounts less than $1.00.

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AFTERTHOUGHTS

¶ The city fire detail on duty at the International Airport, Philadelphia, on January 14th when an airliner skidded into a ditch with a loss of seven lives, had one asbestos suit but didn't use it, according to the Philadelphia Bulletin. The investigators were told by one of those testifying that the fire detail had been led to believe that asbestos suits "are not much good". Director of Public Safety Samuel H. Rosenburg said later at City Hall that asbestos suits are not a part of the regular city fire equipment. It seems to us that it's up to somebody (in Philadelphia) to find out why.

¶ The report of activities of the Asbestos Institute on page 18, did not make the February number as we had hoped, but we are sure you will find it interesting.

¶ We have the figures for exports of asbestos from Canada for December 1950 and the summary for the year but it was impossible to get them in this number. They will be published in April.

¶ An unusual item in this issue is that on page 40 with picture of Miss Fichtel. We seldom get an opportunity to publish pictures of ladies.

¶ According to the United States Savings and Loan League there is little possibility of a serious housing shortage anywhere in the country in 1951.

¶ February had only 28 days and that makes us two days short on the preparation of this number. But it looks like a pretty good number after all.

¶The 39th Annual Meeting of the Chamber of Commerce of the United States will be held in Washington, D. C. from April 30th to May 2nd, inclusive.

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CURRENT RANGE OF PRICE

As of March 10, 1951

	Per Ton (2000 lbs.) f.o.b. Mine
Canada—	
Group No. 1 (Crude No. 1)	$1,100.00 to $1,500.00
Group No. 2 Crude No. 2; Crude Run-of-Mine and Sundry	485.00 to 900.00
Group No. 3 (Spinning Fibre)	275.00 to 450.00
Group No. 4 (Shingle Fibre)	135.00 to 151.00
Group No. 5 (Paper Fibre)	95.00 to 119.00
Group No. 6 (Waste, Stucco or Plaster)	70.00
Group No. 7 (Refuse or Shorts)	32.00 to 63.00
Vermont—	
	Per Ton of 2000 lbs. f.o.b. Hyde Park or Morrisville, Vt.
Group No. 4 (Shingle Fibre)	$122.65 to $148.50
Group No. 5 (Paper Fibre)	86.90 to 106.15
Group No. 6 (Waste, Stucco or Plaster)	64.90
Group No. 7 (Refuse or Shorts)	31.20 to 57.60

ASBESTOS STOCK QUOTATIONS

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

		February 1951		
	Par	Low	High	Last
Amer. Br. Shoe (Com.)	np	40⅛	44⅛	40½
Amer. Br. Shoe (Pfd.)	100	111	112½	111½
Armst. Ck. (Com.)	np	51½	54½	52¾
Armst. Ck. (Pfd)	np	101¾	103	101¾
Armst. Ck. (Conv. Pfd.)	np	115	117¾	116
Asb. Corp. (Com.)	np	47	53½	49½
Asb. Mfg. Co. (Com.)	1	1⅜	1½	1½
Carey (Com.)	10	17⅛	19¼	18¾
Celotex (Com.)	np	16⅝	18¼	18
Celotex (Pfd.)	20	16⅝	17¼	17¼
Certainteed (Com.)	1	16⅜	17¾	17¾
Flintkote (Com.)	np	28⅝	30⅜	30
Flintkote (Pfd.)	np	104½	107	107
Johns-Manville (Com.)	np	50⅞	55⅝	55
Pabco Products (Com.)	np	18⅛	19⅜	19¼
Pabco Products (Pfd.)	100	94½	103½	102½
Ray-Man (Com.)	np	33¼	38¼	37½
Ruberoid (Com.)	np	55¼	58½	58½
Thermoid (Com.)	1	8⅜	9⅜	8⅞
Thermoid (Pfd.)	50	42	45½	43
Union Asb. & Rub. (Com.)	5	13⅜	14¾	14
United Asb. (Com.)	1	$1.01	$1.18	$1.05
U. S. Gypsum (Com.)	20	114½	120½	117½
U. S. Gypsum (Pfd.)	100	182	185½	185
U. S. Rubber (Com.)	10	55¼	59⅜	56¾
U. S. Rubber (Pfd.)	100	139½	142	141½

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REVOLUTIONIZED MAGNESIA



from the new plant at Valley Forge

Now, due to Ehret's new plant and modernized processing equipment, you can get 85% Ehret Thermalite Magnesia insulation—pipe covering or block—that's unsurpassed in reducing heat loss. *Thermalite* is suitable for temperatures up to 600 F. and is available in semi-cylindrical sections for pipe sizes up to 18" diameter. While considerably lower in density and improved in insulating value, Ehret Thermalite 85% Magnesia remains exceptionally durable. It can be cut clean and applied evenly. Molded to final shape, it has a smooth surface. For complete details write for Bulletin 9-0.

SAVE HEAT WITH EHRET INSULATIONS

Ehret Magnesia Manufacturing Company

VALLEY FORGE, PENNSYLVANIA

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SOUTHERN ASBEST

ASBESTOS CLOTH

Southern weaves a complete range of Asbestos Cloth. A large number of Standard and Special Cloths available in all styles, textures, grades, weights and thicknesses are shown here.

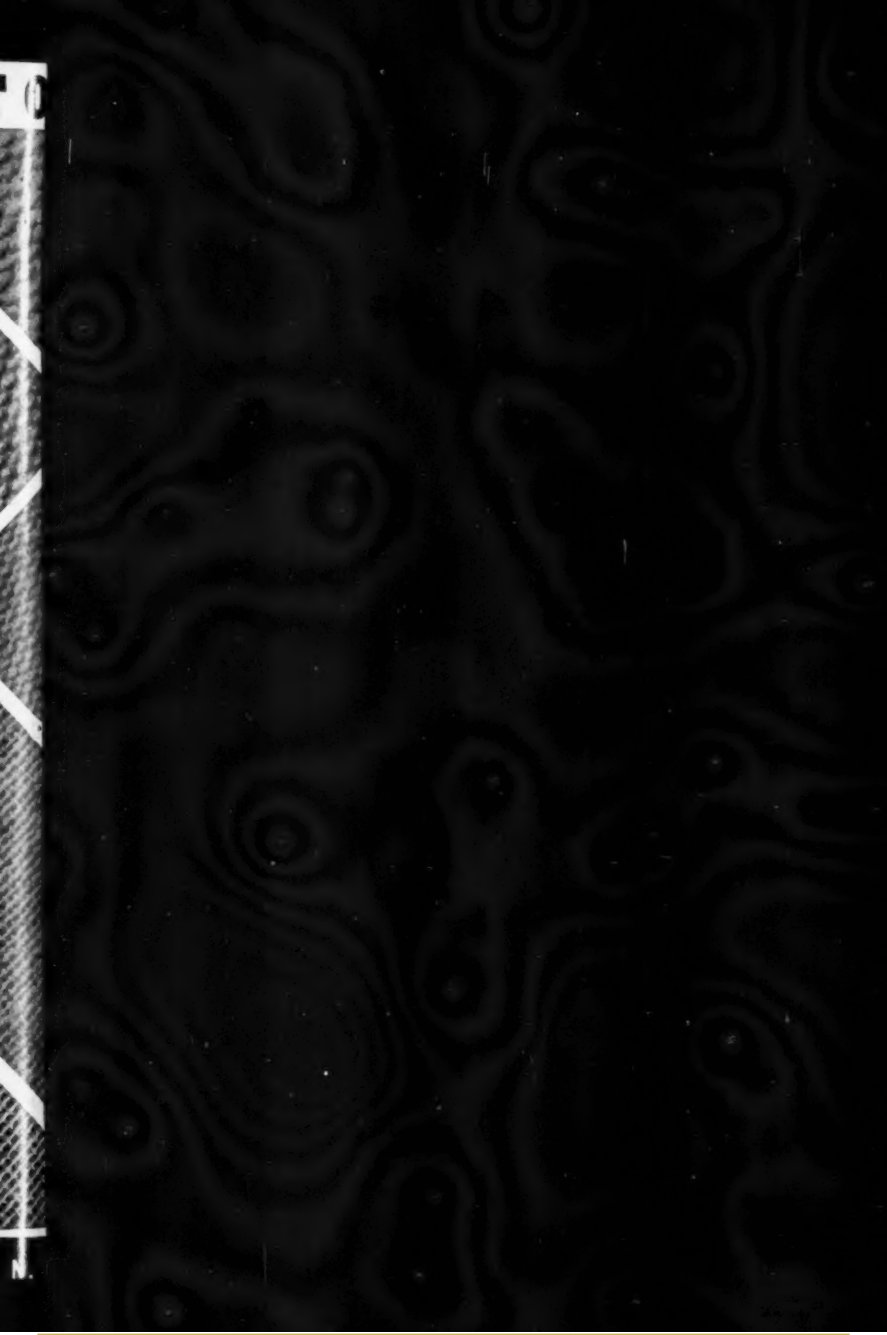
Our Textile Engineers and Research Department are continually developing specialized Asbestos Cloth and exploring new uses for our present cloths. Their service is available to you. Write for Bulletin No. 1004.

A COMPLETE LINE OF ASBESTOS TEXTILE PRODUCTS

THREAD • CORD • ROVING • TUBING
CARDED FIBRE • LISTING TAPE
YARNS • ROPE • OIL BURNER WICK

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