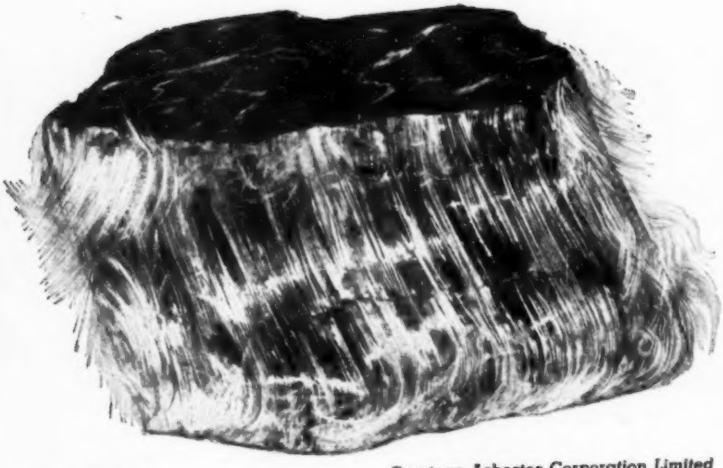
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Entered As Second Class Matter November 23, 1923, at the Post Office at Philadelphia, Pennsylvania, Under Act of March 3, 1879

Volume 43 NOVEMBER 1961 Number 5

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ASBESTOS is indexed regularly by Engineering Index, Inc.

SUBSCRIPTION PRICE

United States - - - $3.00 Per Year
Canada - $4.00 Per Year Foreign Countries - $4.00 Per Year
Back Copies - .35 Each Single Copies - (Current) .25 Each

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Thanksgiving

The story of the New England Pilgrims who gathered together for a day of thanksgiving, after what they called an abundant harvest, has always been one of our favorites.

This story is the basis for our national holiday, generally celebrated on the last Thursday in November, and known throughout the nation as Thanksgiving Day.

The early settlers in Massachusetts had suffered hardship, they had worked unceasingly, they had been visited by sickness, by death, but they gathered in their roughly built places of worship, to give thanks for the harvest.

We in the United States have so much for which to give thanks. Let nothing persuade us that anything but a free country can attain the standard of living, of comfort, of luxury held by this great nation of ours. Let those others who try to undermine our freedoms, and destroy our faith in democracy, beware. The true American will not allow the old faiths, the old customs, to be destroyed by the new much vaunted beliefs, which we are urged to adopt at the price of our freedom. The true American knows that the United States will continue to be the greatest country in the world so long as she continues in free enterprize — the American way of life.

Let Us Be Thankful

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ASBESTOS-CEMENT PIPING IN INDUSTRY AND MINES

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

Asbestos products play an ever increasing part in industry today, but no others are so widely used, on a large scale, as those made of asbestos and cement in the constructional field. The use of asbestos-cement piping, however, is finding an even wider sphere in practically every branch of industry, and many other enterprises in which piping is required. Its appearance, in fact, has become a somewhat commonplace occurrence. An exception is probably the introduction of asbestos-cement piping underground in mines, explained by the fact that this is a relatively new field of utilization following the fabrication of high pressure pipes which, as the term implies, are able to stand high pressures both internally and externally.

The manufacture of high pressure pipes may be considered a moderately recent innovation, indeed, this may be said of all asbestos-cement products since it is only in the past thirty years that these products have been made outside Italy and Europe. In Italy, the "home" of the industry, the manufacture and usage of asbestos pipes have been practiced for over fifty years.

In recent years both the fabrication and use of asbestos-cement pipes have grown tremendously. Lately, the introduction of plants for the manufacture of pipes has become world-wide. Even in Europe, and particularly in East Germany and Greece, new and modern pipe-making plants have been installed. Australia and Japan are amongst other countries abroad where new plants have been introduced.

This wide-spread expansion in the manufacture of these pipes is indicative of the extended use throughout the world and there is little doubt that many new industrial, mining and other engineering undertakings will install asbestos pipes; while in many cases these are now being used to replace steel pipes when these become worn and unserviceable. As the demand increases, as it surely will, further expansion of production facilities will undoubtedly take place as a matter of course.

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In every factory or engineering plant, water is an essential agent and in most cases clean water is necessary in different processes, as it is when delivered from reservoirs for households and human consumption. When asbestos-cement pipes are used these requirements are fully satisfied since there is a definite absence of discoloration of water conveyed in asbestos pipes simply because these do not rust or corrode in any way.

These pipes are not only unaffected by corrosion but are highly resistant to every form of disintegration. This condition, however, is determined and assured, to a great extent, by the components used in the fabrication of the product, more especially in the variety and quality of the asbestos utilized. This factor is generally recognized by all the important manufacturers today who have unanimously agreed that the amphiboles, crocidolite and amosite, and particularly crocidolite (Blue asbestos), are superior in every respect to other varieties.

It has been admitted in America that the remoteness of the source of supply of these varieties for use in making high pressure asbestos-cement pipes is a fundamental and important problem, simply because the product made from these fibres is outstanding in strength and durability. Also, an important manufacturing concern in England considers that the use of crocidolite guarantees absolute freedom from incrustation due to corrosion, no matter to what use such pipes are put.

Even in Europe, one of the largest and most important manufacturing plants state that the use of Blue asbestos, instead of other varieties, is becoming more and more popular. Indeed, it has been shown in local tests that the fractions that go to make a commercial fibre are, in many cases, unsuitable and, in fact, deleterious to the manufacture of some products. This definitely applies in asbestos-cement manufacture. For instance, dust and talc, which are fairly common foreign matter in some asbestos varieties, may be usable in some processes but are objectionable in asbestos-cement fabrication. These impurities and other natural weaknesses in the fibres are quite unsuitable where reinforcement to promote strength is a factor of vital moment. Clean graded crocidolite, by con-

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trast, imparts great strength to the product and, incidentally, provides definite resistance to any corrosive liquid that might come in contact with the fibres in the cement.

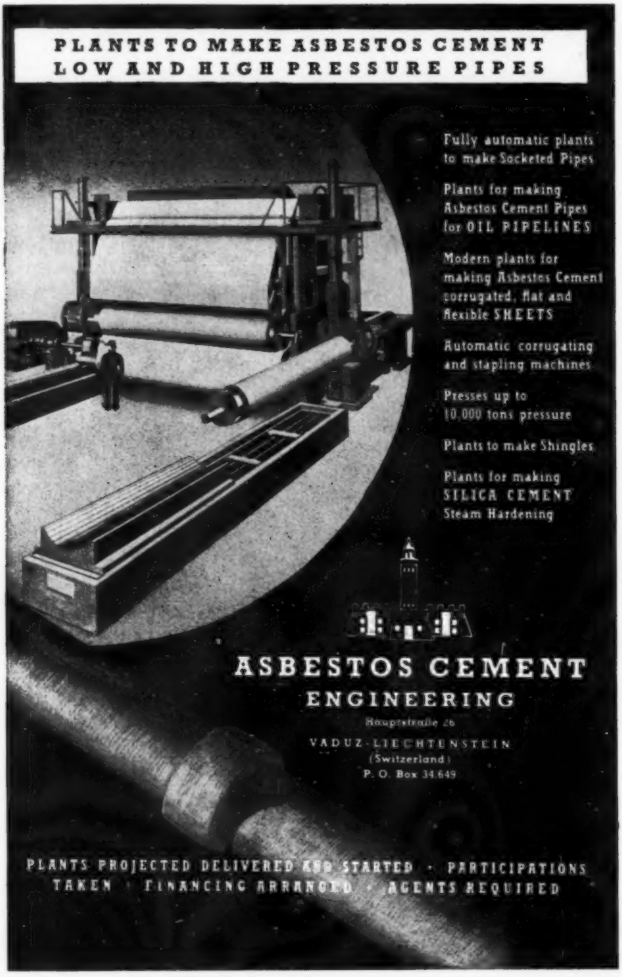
The valuable attribute of resistance of well-made pipes to all forms of corrosion have obviously opened up wide fields of service. This is because they can be safely used without danger of impairing liquid solutions in various processes, besides which the pipes themselves are extremely durable and can therefore be assured of a long life. This, of course, eliminates the need for frequent and continual replacement, which is such a serious and costly item in most factories, manufacturing plants and mines.

Besides the use of asbestos pipes for the conveyance of sewage, sea water and other corrosive liquids, these are frequently used as electrical conduits in power lines. The advantages in this sphere are that the electric cables are free of any danger from external damage because the pipes are strong, incombustible and durable. The asbestos make-up is a valuable insulant and, as a result, conductor heat is dissipated and the cables are kept cool, resulting in greater power efficiency.

Asbestos-cement pipes are not only unaffected by normal corrosion, but are generally resistant to all forms of disintegration especially when acid resistant varieties of asbestos are used and special processing is employed in the mixing of the cement and in fabrication. For this, and other reasons, crocidolite and amosite varieties are recognized as being most desirable for the manufacture of these high pressure products. An example is indicated when used for gases, the gas does not diffuse through the walls of the pipe nor adversely affect the fibres in the cement, indeed, the pipes are unaffected by corrosion or any other defects.

It has been suggested that certain acid conditions have a deleterious effect on asbestos-cement pipes. Weaknesses of this sort will depend mainly on the quality of the cement and other components used, and also the operative effectiveness in fabrication, as already suggested. It is obvious that if pipes are made for special applications, stringent fabrication and processing must be adapted and the highest quality constituents used.

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This is the responsibility of the manufacturers. Postulations by geologists and laboratory tests by research men are not blindly accepted as adaptable for the fabrication of different products and more particularly in the making of special high pressure pipes.

In large scale operations, usual in this field, the practical processing procedure must override small laboratory tests, especially in the quality and the proportional quantities of components that comprise the final product. Each of these parts must be carefully studied by the manufacturer as to their physical condition and their purity, in terms of chemical composition, and the possible presence of associated or extraneous materials or cognate impurities.

Even the proportional division and distribution of weights, including the mixing, are operations of vital import. The cement, in such circumstances, in its absolute inorganic condition, will not deteriorate nor will it have any deleterious effect on the asbestos fibres in its make up.

For certain purposes, additives are mixed with the asbestos and cement to achieve desired results in the final product. Silica is one of these most commonly used today and, for the fabrication of chemically resistant pipes, an admixture of sulphur is used, because sulphur is highly resistant to chemical action. If the components used in this case are of the highest degree of quality, including acid resistant fibre (crocidolite), the resultant pipes will withstand the most searching effects of extreme corrosion. These results have been found so effective in asbestos-cement pipes that the same mixture has been used beneficially in lining iron pipes, either as a preventative measure against corrosion or to avoid replacement of badly corroded pipes, by lining these with asbestos-cement. The substantial saving in maintenance and the frequent replacement of piping is a factor of the greatest economy today. In some mines, where water both inside and outside the pipes, and that dripping from the rock strata, plus the moisture in the air, are all conditions conducive to metal corrosion, especially where high temperatures prevail. Asbestos pipes are replacing metal pipes in many mines to avoid the cost and loss of time in replacement work, since modern pressure pipes neither rust nor corrode and are

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therefore virtually everlasting. In this respect, it is a surprising thing that asbestos-cement pipes are lighter and more easily handled (even in confined spaces) than standard metal pipes. Improved monolithic socket joints and other types, are more easily applied and allow flexibility in the pipe line. Another great advantage is that these pipes are not susceptible to electrical influences which are an unavoidable danger in metal pipe lines.

In the original discovery and manufacture of asbestos-cement pipes there was always a chance of fracture or crushing if the pipes were subjected to rough handling. However, as a result of intensive research and improved manufacturing techniques, the modern pipe is practically indestructible. This is clearly shown in the safe application of these pipes in all conditions under exceptional pressures and stresses. For ordinary working conditions, pipes varying in diameter from 2″ to 24″ are usually constructed for working pressures up to 200 pounds per square inch. In the States, however, pipes are made to stand about 1,400 feet of hydraulic head (600 p.s.i.), to test out about 1,200 feet head or 525 p.s.i. for pipes to stand a working pressure of 150 p.s.i. In Britain and in Europe, pipes up to 16″ diameter are made for special purposes to withstand test pressures of 1,000 pounds per square inch (about 60 atmospheres). For special work, high pressure pipes able to stand up to 800 pounds per square inch are commonly accepted and are frequently used in certain circumstances.

Generally, the external resiliency of these pipes is particularly effective in withstanding breaking strain or stress when subjected to movement, such as ground subsidence or the effects of blasting. The imperceptible flexibility allows a pipeline to conform to reasonable settlement without cracking or leaking, and the smooth interior surface provides these pipes with a useful high-flow capacity.

The quality and variety of asbestos used in the making of asbestos-cement piping, and especially high pressure pipes, are naturally important factors, as has already been shown. The principle properties necessary for perfect results is a fibre having a natural harsh texture and maximum strength and length. Harshness of the fibre is an advantage in the wet mix process of fabrication, assisting.

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as it does, in the imbrication of the fibre strands to procure maximum reinforcement. The amphiboles, crocidolite and amosite, and especially the former, possess all the valuable attributes in this respect. The property of rapid filtration possessed by crocidolite fibres greatly speeds up the drying process. Its high moduli and heat resistance plus its porosity are all factors of great value, besides which the natural qualities of acid resistance and exceptional tensile strength are all properties superior to most other varieties of asbestos in its application in asbestos-cement manufacture.

The harshness of the fibres is retained even after extreme fiberization necessary to remove dust and grit. By contrast, in other fibres, the degree of harshness, whether natural or induced by pyrolysis, is usually materially and adversely affected as a result of fiberization, in addition to which the fibres are often fractured and thereby lose their strength and other useful qualities.

In the fabrication of asbestos-cement pipes, the first consideration of importance is that fibres are fully opened up to remove as much dust as is practically possible. These operations aim to ensure that each individual fibre is thoroughly coated in the homogenous pulp made up of the mixture of water and cement. This mixture must consist of a uniformly thin liquid carrying the asbestos and cement components. Large quantities of water are used in the wet process to form a liquid having a light viscosity, thin enough to allow the mixture to flow easily and evenly.

Although processing equipment may vary, the mixture in most methods, is required to flow smoothly through special channels in the machines until pressure is applied to remove the water and so achieve complete cohesion in the layers of asbestos in the cement. Once the water is removed, the cement in no way loses its capacity of setting although steam curing is also employed in the setting process.

Besides the choice of the most suitable asbestos variety and quality, Portland cement, tested to ensure standards of the highest quality, is an essential condition in the fabrication of high pressure asbestos-cement pipes. As already mentioned, other additives such as silica and

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sulphur may be mixed in certain quantities with the main constituents (15 to 20% asbestos and 80 to 85% cement) each of which must be weighed proportionately, accurately and positively to make high quality pipes.

Following the addition of water, the liquid mixture is thoroughly agitated to ensure an even dispersion of the fibres throughout the mixture. This is then caused to flow through certain channels and phosphor bronze sieves on to an endless travelling felt that conveys the mixture to the machine.

The mechanical processing operation has, in recent years, witnessed marked advances in manufacturing techniques and in plant design. However, the principle involved in every case follows along basic lines in which a polished mandrel of desired diameter constitutes the main forming part. This part when placed in a pipe machine allows pressing to be applied to give complete cohesion to the successive layers of asbestos-cement until the full thickness has been built up. The final operations consist simply of allowing time for setting and then the withdrawal and the immersion of the pipe in water for curing. After two weeks the pipes are raised up for maturation in the air.

When ready for marketing, asbestos-cement pipes are subjected to stringent tests including normal hydraulic tests carried out at twice the recommended working pressure.

Efficient fabrication methods, using the correct asbestos, ensures the production of high quality pressure pipes of special strength because the fibres are analogous in their action in the cement mixture to steel reinforcement in concrete. These factors illustrate the importance of producing clean graded fibres for asbestos-cement work, more especially in the crocidolite field since clean "Blue" asbestos fibres are recognized as the best available for this purpose.

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ASBESTOS TEXTILE INSTITUTE

Annual Meeting

The annual meeting of the Asbestos Textile Institute was held on September 8th, 1961, in New York City. At this meeting the annual election of officers was held and the following men were elected to serve the Institute for the ensuing year.

The Board of Governors elected to serve were: J. A. Bettes, Jr., Raybestos-Manhattan, Inc.; W. M. Deckman, Keasbey & Mattison Company; W. S. Hough, Johns-Manville Corporation; J. T. Griffis, H. K. Porter Company, Inc.; T. C. McCluskey, Tallman-McCluskey Fabrics Company; S. J. Peele, Jr., United States Rubber Company; and, J. W. Weber, American Asbestos Textile Corporation.

The officers elected to serve were: President—W. S. Hough; Vice President—T. C. McCluskey; Treasurer—A. E. Whitfield; and, Secretary & Assistant Treasurer—M. C. Shaw.

The Chairmen of the several active committees appointed to serve for the next two years are as follows: Sales Promotion Committee—S. J. Peele, United States Rubber Company; Technical Committee—J. L. Tucker, Johns-Manville Corporation; Air Hygiene & Manufacturing Committee—J. L. Mitchell, H. K. Porter Company, Inc.; and Fiber Testing Committee—C. R. Hutcheroft, Keasbey & Mattison Company.

At this meeting, comprehensive reports covering the activities of the several committees during the year just concluded were reviewed and many accomplishments were noted. In addition, a guest speaker, Mr. D. F. Houlihan, of Price, Waterhouse & Company, addressed the meeting on "The Profit Pinch Problem" and his remarks were well received by everyone.

In addition to the regular membership in attendance at this meeting there were also many executive officers of the member companies of the Institute who were welcomed guests at this meeting, including: R. A. All, United States Rubber Company; P. A. Benke, H. K. Porter Company, Inc.; W. E. Clark, United States Rubber Company; R. R. Porter, Keasbey & Mattison Company; J. F. D. Rohrbach,

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NOTICE

The R.C.M. Company (Revisione Costruzione Macchine) - 10, Via Santa Teresa - Turin - Italy, wishes to inform that anybody interested is invited to visit a very modern Factory in Italy where an R.C.M. automatic installation is in working activity for the manufacture and finishing of Asbestos-Cement pressure and non-pressure Pipes, also of small diametre.

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Raybestos-Manhattan, Inc.; C. C. Simoni, Johns-Manville Corporation, R. S. Tallman, Tallman-McCluskey Fabrics Company; and, S. R. Zimmerman, Jr., Raybestos-Manhattan, Inc.

A highway paving research project just laid in Contra Costa County, California, represents the combined effort of the Asphalt Institute, the University of California, the City of Martinez, California State Division of Highways and Johns-Manville Corporation.

The project consisted of placing approximately 1500 tons of asphalt concrete surfacing. Some of the surfacing is a conventional asphalt concrete and the remainder contains 2.5% asbestos fiber for reinforcement. The purpose of this project is to test the strength and durability of the various mixtures under heavy truck traffic.

The complex system of instrumentation of the many measurements which must be made to evaluate the performance of the experimental pavements was installed by the University of California with the assistance of the State Division of Highways. Basic research and preliminary investigation leading to the development of the new paving mixture was done by the J-M Research Laboratories and the Asphalt Institute Laboratory at College Park, Maryland.

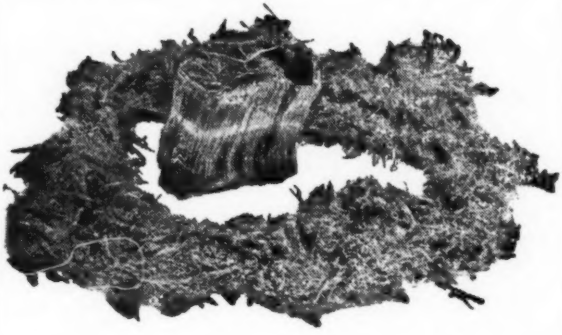
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THE RUBEROID CO.

75th Anniversary

The Ruberoid Co. joined the small group of companies that has crossed the three-quarter-century mark. Like nearly every successful American enterprise, Ruberoid's story reads like an epic of adventure, depicting a pioneering spirit winning its way from a small beginning to large accomplishments. For what started on October 20th, 1886, in a remodeled sawmill at South Bound Brook, New Jersey, with the far from glamorous item as a can of asphalt paint has mushroomed into a multi-million dollar business producing a broad line of building materials and industrial specialty products at 25 plants in 15 states.

After 75 years, Ruberoid's dossier of major contributions to better living reads thus:

1892—Introduced ready-to-lay asphalt roll roofing. Together with asphalt roofing shingles, this material annually protects more residential, public, industrial and commercial buildings than any other. "Ru-ber-oid" roofing became so popular, the company's original name, The Standard Paint Company, was changed in 1921 to The Ruberoid Co.

1932—Introduced asbestos-cement siding for residential construction, followed, at the close of World War II, by colored sidewalls of this now-popular material.

1957—Introduced a Self-Sealing asphalt roofing shingle which uses the sun's heat to seal the roof against hurricane winds.

1960—Introduced a new type of resilient flooring—Polymerite floor tile—based on eight years of research for a low-cost, long-lasting, high-styled flooring.

Although building materials comprise the bulk of Ruberoid's output, other products go into many industries. Thermal insulations help chemical, petroleum and utility plants operate more efficiently; pipeline coverings protect thousands of miles of oil and gas pipelines; asbestos fibre in brake linings contribute to automotive safety, waterproofing papers guard overseas shipments.

In figures readily understandable to the layman, Ruberoid's growth can be measured in annual sales rising

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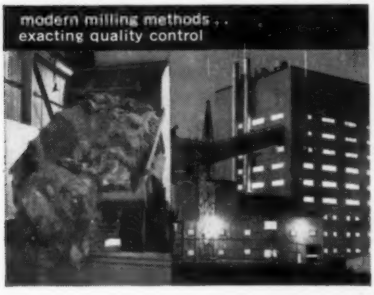
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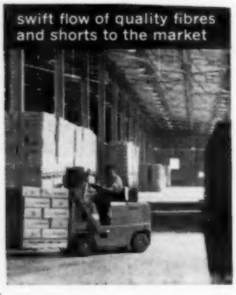
from mine, to mill, to market

Here is your dependable source for the highest quality asbestos, consistently uniform from shipment to shipment.

Complete information on Carey-Canadian Asbestos can be obtained by writing:

Carey-Canadian Mines Ltd., P. O. Box 15095, Cincinnati, Ohio or Carey-Canadian Mines Ltd., East Broughton Station, P. Q., Canada





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from a few thousand dollars to over 120 million; in tonnage of products shipped each year from a few hundred to nearly 2,000,000 tons; from 18 original employees to over 5,000; in yearly wages and salaries from $20,000 to over $30,000,000; in annual dividends to stockholders from $30,000 to $3.8 million.

Unlike many younger companies whose growth has resulted from spectacular products, Ruberoid's progress has been steady and stable, providing new and improved materials which have contributed consistently to a standard of shelter unmatched in the world.

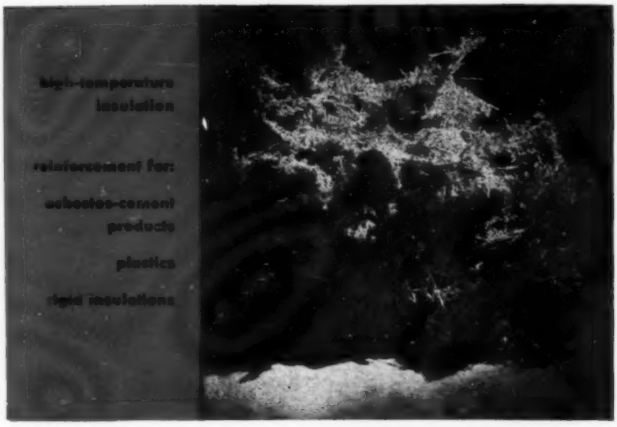
LAKE ASBESTOS OF QUEBEC LIMITED, wholly-owned subsidary of American Smelting and Refining Company, has announced the appointment of *Harry A. Baumstark & Company* as agent for the sale of Lake Asbestos chrysotile fibre in the St. Louis and Kansas City, Missouri, areas.

Well known in the region as a supplier of raw materials and paint supplies, Baumstark maintains a warehouse with 22,000 square feet of space, a railroad siding accommodating six cars and two trucks which are used for local deliveries. The company is located at 6801 Hoffman Avenue, St. Louis 39, Missouri.

The AMERICAN SOCIETY FOR TESTING AND MATERIALS has announced that its *1960 ASTM Proceedings, Volume 60*, is now available. This 1242-page volume is the official record of the proceedings of the Society for the entire year. It records the technical accomplishments, including reports and papers, together with discussions, which were offered to the Society during 1960 and accepted for publication in the Proceedings. The Summary of Proceedings of the ASTM 63rd Annual Meeting, June 1960, and the Annual Report of the Board of Directors are also published in this volume.

Copies of the Proceedings may be obtained from the American Society for Testing and Materials, 1916 Race Street, Philadelphia 3, Pennsylvania—Price $12.00 each. To ASTM members—Price $8.00 each.

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many industries find many uses for

AMOSITE asbestos fiber

Longest-fibered of all asbestiform minerals, Amosite, when fiberized, increases many times in volume. The rod-like nature of the long, minute fibers keeps the mass open, bulky, resilient. Learn how you can benefit by the unique characteristics of this form of asbestos from the world's largest producers of Amosite.

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CAPE

Subsidiaries of The Cape Asbestos Company Ltd. • London

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AUTOMOBILE SALES

	August 1961
Passenger Cars	172,754
Motor Trucks	70,422
Motor Coaches	288
	243,464

In August 1960, a total of 390,326 motor vehicles were sold. In the eight months of 1961 the total was 4,072,790.

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

Three very interesting papers were presented at the Joint Meeting of the Industrial Minerals Divisions of the Canadian Mining Institute and A.I.M.E. in Ottawa, Canada, on October 1-3, 1961: "Geology of the Asbestos Belt—Southeastern Quebec", by P. H. Riordon, Exploration Manager, Asbestos Corporation Limited, Thetford Mines, Quebec, Canada; "The Quebec Asbestos Industry—Mining and Milling", by J. L. Gartshore, Mill Superintendent, Canadian Johns-Manville Company Limited, Asbestos, Quebec Canada; and, "The Quebec Asbestos Industry—Testing & Quality Control", by J. Phillip Wiser, Milling Consultant, Lake Asbestos of Quebec Limited, Black Lake, Quebec, Canada.

"ASBESTOS" will be glad to lend its copies to interested readers.

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A new journal bringing in each issue abstracts of over 100 patents and articles on the mining and processing, and uses of asbestos. Special chapters on mining, asbestos cement, asbestos textiles and friction materials, reinforced plastics, plastic building and insulating materials and refractory fibres. Yearly subscription £9. 15. Od., from:

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High grade asbestos fibers produced to your needs



Shingle and siding stock, floor tiles, brake linings, insulating coatings, pipe or plastics – name your product—Flintkote's research laboratories are completely equipped to determine and recommend the grade and characteristics of asbestos fiber your product needs. Flintkote Mines extensive facilities mill fibers to meet every requirement!

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ASBESTOS IN SOUTHERN RHODESIA

Asbestos is now Southern Rhodesia's leading mineral in value of output. Production is solely confined to chrysotile. The largest deposits occur in the Shabani area, where they are lenticular in their workable sections and have been proved to persist of considerable depth. Only rock containing more than one per cent of fibre is considered payable, the working sections at Shabani usually containing from three per cent upwards of recoverable fibre. The workable zones are large, that at the 170 section, Shabani mine, having a strike length of some 2,000 feet and a width of 200-300 feet.

During 1959, production of asbestos in Southern Rhodesia was 119,699 tons (last year it rose to 133,963 tons), the principal producing mines being those under the control of Turner and Newall Limited, which accounted for 67% of the total production and 78% of the total value of all asbestos produced. The remainder of the output was accounted for by the operations of 19 smaller mines. As much ore as possible is recovered by opencast methods.

The grades produced conform generally to the Canadian chrysotile asbestos classification or to special gradings used by the producers. The geographical situation of Southern Rhodesia, however, has retarded the development of shorts. In view of the increasing demands for well-prepared short fibres to meet the needs of expanding plastics industries, one company, Vanguard Asbestos Mines (Pvt.) Limited, has been exploring the possibilities of this market for some years and has succeeded in placing such fibres on the world market in competition with the standard Canadian products.

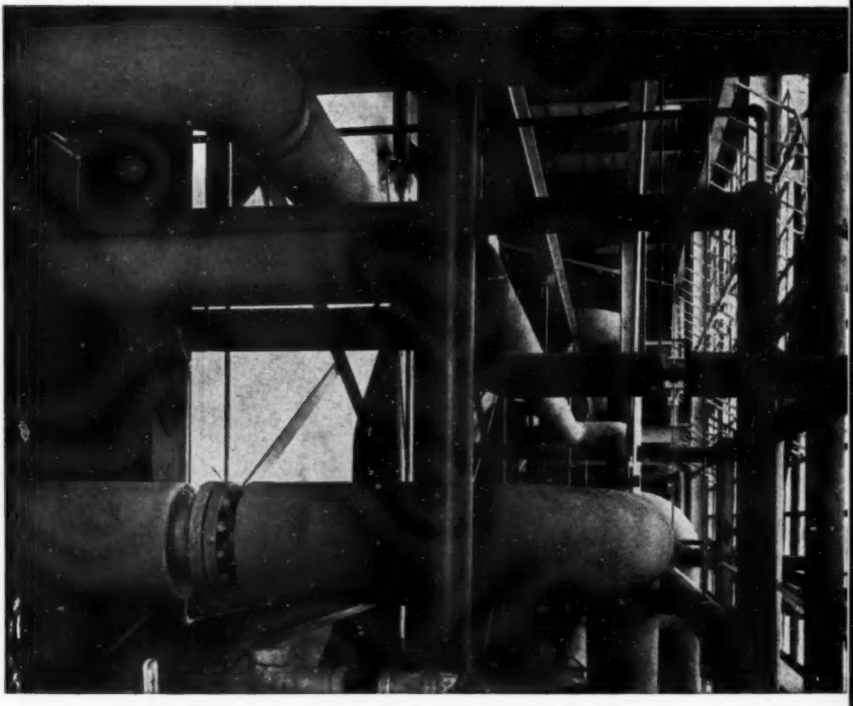
UNITED STATES RUBBER COMPANY's Textile Division will get immediately underway, at the company's Stark Mills in Hogansville, Georgia, the eighth expansion and modernization project to be undertaken by U. S. Rubber this year. This latest expansion and modernization project will cost approximately $1 million and will be completed within a year.

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ONLY APPROVED CONTRACTORS INSTALL B-E-H INSULATIONS

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

Standard inventories of THERMALITE are maintained by distributors in all principal cities. For the full story of this money-saving insulating material, see your B-E-H Distributor or write direct for new Catalog to the address below.



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

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MARKET CONDITIONS

GENERAL BUSINESS.

General business shows further signs of improvement. Employment keeps rising, particularly in durable goods manufacturing. Steel production is off slightly due to a cautious purchasing policy on the part of strike-threatened automakers. However it appears the auto workers will come to terms with comparatively little interruption of production and steel orders should pick up substantially in the coming months. While the recovery up to now has not assumed the boom proportions predicted earlier this year by many economists it does appear to be solidly based and may be longer sustained than was widely anticipated.

ASBESTOS—RAW MATERIAL.

September 1961 asbestos fibre shipments for the Industry at 96,122 tons fell below the same period 1960 by 4,180 tons or approximately 4%.

Year to date shipments are now running 18,910 tons or 2.5% ahead of the same period last year.

The export market continues at a strong pace with the domestic market showing some improvement over the past nine months.

The estimate of a 5% increase for the Industry during 1961 over 1960 still stands.

ASBESTOS—MANUFACTURED GOODS.

Asbestos Textiles. Since the first quarter of this year there has been a strengthening in demand for asbestos textiles. Both civilian usage as well as Government purchases have contributed to this improvement. There is considerable optimism in the trade that this upward trend will continue for the rest of the year. The stepped-up defense program is expected to play an important part in contributing to general business improvement as well as improvement in the asbestos textile industry.

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Asbestos Brake Lining. Sales in the Replacement Market are continuing to increase and should top last year by a comfortable margin. O.E.M. Sales continue to lag behind 1960 due to the increased use of the compact cars.

Asbestos Paper. Orders for this material have slowed down somewhat for seasonal change-overs in equipment plants. The volume of orders for the remainder of 1961 should be at least as good as last year and might possibly show a slight improvement. Orders for *Asbestos Millboard* have increased slightly and although prices still remain keenly competitive for any business that is available, it is anticipated that the volume of orders for the remainder of 1961 will be good and represent an increase over last year.

Asbestos-Cement Products. The present market situation is good and should continue to be good for the balance of the year.

High Pressure Insulation. Orders for this material continue to be received in spotty fashion and prices are still competitive for all types of insulation materials. It is anticipated that with the volume of work that is coming up over the country, sales should be at least equal to, or slightly better than, last year.

Shingles—Roofing & Siding. Competition is very severe for that business which is available and supply greatly exceeds market demand. A slight improvement over this situation is expected by the end of the year.

Asbestos Pipes. The present volume of sales for sanitary construction and home building is showing a modest improvement over last month and prices continue firm. This situation should remain for the rest of 1961.

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

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BUILDING

Although continued gains in the housing sector were registered in September 1961, contracts for future construction slipped below their year-earlier level, F. W. Dodge Corporation reported. As contracts for both non-residential building and heavy engineering projects declined, total construction contracts for September amounted to $3,004,033,000, a decrease of 4% from the same month last year.

Dodge reported that residential building awards in September amounted to $1,380,537,000, up 8% from September 1960. Both single-family housing and apartment construction contributed to the gain, but apartments continued to register the sharpest increase. Total dwelling units represented by the September contracts numbered 97,730, up 4% from last year.

In the non-residential building sector, the major categories were below the September 1960 level, but contracts for hospitals, public buildings, and religious buildings showed increases. Total non-residential contracts were valued at $986,887,000, down 12% from a year ago.

According to the Dodge figures, contracts for heavy engineering construction in September totalled $636,609,000, a decrease of 11% from last September. A steep decline in electric light and power systems and a milder setback in highway contracts were principally responsible for the overall decrease in this category.

On a seasonally-adjusted basis, contracts also declined from the relatively high rate of last month. The Dodge Index of Construction Contracts (1947-1949=100) was at 261 in September compared to 293 in August and 277 in July.

Cumulative totals of construction contracts for the first nine months of 1961, with percentage changes from the corresponding period last year, are: non-residential building, $9,167,344,000, down 1%; residential building, $12,218,439,000, up 5%; and heavy engineering, $6,831,828,000, up 3%—total construction, $28,217,611,000, up 3%.

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All machinery for the equipment of plants producing asbestos-cement pipes and sheets

covering the entire production process from the stock preparation to the testing of the finished product.

All machinery for wet or dry preparation of asbestos-cement / Asbestos silos.
Sheet producing machines with one to three cylinder moulds, automatic or semi-automatic combined production lines for flat and corrugated sheets.
Piling equipment combined with cleaning and lubricating machinery for flat and corrugated steel sheets, suitable also for automatic operation / punching and trimming machines / hydraulic presses.
Pipe winding machines for the production of pressure pipes of up to 5 metres (16 ft. 5 in.) length and 1000 millimetres (3 ft. 3 in.) dia / lathes for pipes and joints / cut-off grinders / testing presses for pipes and joints / calenders for the forming of plain and joint-fitted pipes / mandrel pull off machines / autoclaves for hardening of asbestos-cement sheets and pipes as well as many other units, pumps and accessories.



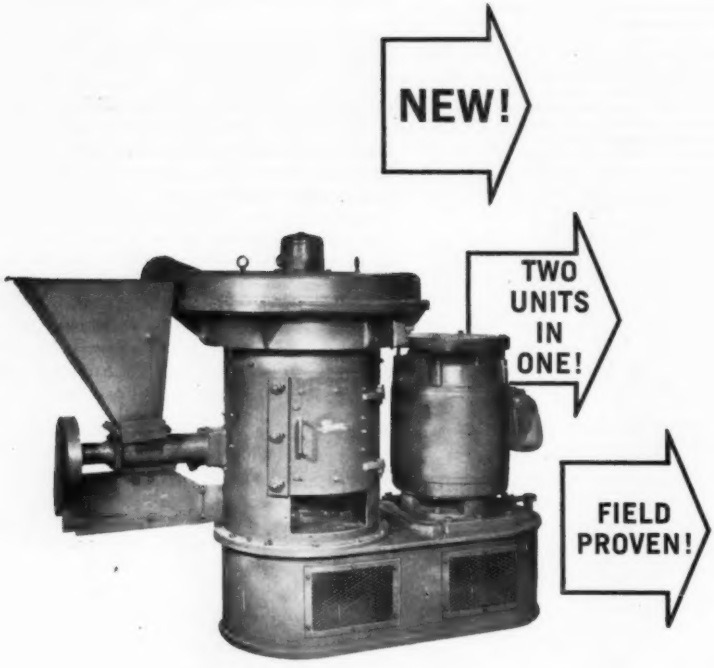
Leaflets describing individual machines will be readily sent on request.

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Bauer

Hurricane Pulverizer-Classifier

UPGRADES PRODUCTION, QUALITY AND PROFITS

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RECOVERY RATE INCREASED FROM 10% TO 30% WITH BAUER HURRICANE PULVERIZER-CLASSIFIER

In addition to higher fiber recovery from rock, this asbestos mill obtains:

- Cleaner fiber in group 7 – plus 200 mesh grit eliminated
- Finer floats and improved bulk density
- Higher wet settling test, higher absorbency

The high capacity Hurricane offers superior grinding and separation . . . automatic controls . . . dependable, low maintenance performance. Aren't these the production benefits you want?

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The Bauer Bros. Co.
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AFRICA (Rhodesia)

(Published by Rhodesian Mining and Engineering)

Tons 2,000 lbs.

Production for August 1961	14,106.51
Valued at	£742,847.00*
Production for August 1960	10,895.89
Valued at	£607,346.00*

*Corrected to the nearest £.

CANADA

(Dept. of Mines, Province of Quebec)

Tons 2,000 lbs.

Production for August 1961 (Quebec)	113,365
Other Provinces	6,027
	119,392

Total production for August 1960 was 103,286 tons.

Turner and Newall Limited announced that a new company, Hardie-Ferodo (Pty.) Limited, will shortly be formed in Australia to manufacture and market brake linings, clutch facings and other friction materials for the automotive and general industrial field. The new company is being created by a merger of the Australian Ferodo interests of Turner and Newall and the brake lining division of James Hardie and Company (Pty) Limited, Sydney. Turner and Newall will have a substantial minority holding in the new company which will be operated by James Hardie Asbestos Limited as a subsidiary.

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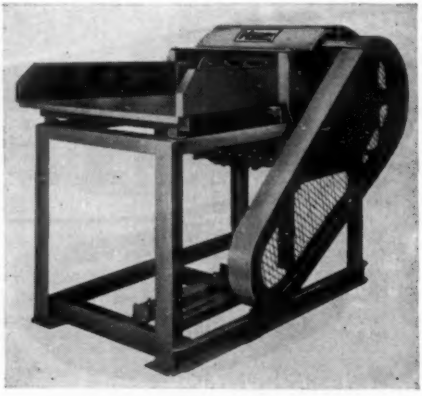
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Flintkote Co.
Grizzly Mfg. Div.
Henry, W. W. Co.
Hooker Chemical Co.
Inland Mfg. Div
Johns-Manville
Linde Air Products
Marshall-Eclipse Div. of Bendix
National Brick Co.
National Gypsum
Nicolet Industries, Hamilton, Ohio
Nicolet Industries, Norristown, Pa.
Philip Carey Co.
Supradur Mfg. Corp.
Thermoid Co.
Union Asbestos
U. S. Gypsum
Worldbestos

Canada
Asbestos Corp.
Asbestonos Corp.
Atlas Asbestos
Canadian Johns-Manville
Cassiar Asbestos
Husky Oil
Lake Asbestos

Elsewhere
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Everitube, France
Hellenic Building Materials, Greece
Industria de Asbestos Dominican Republic
Israel Brake Lining, Israel
J. D. Jones, India
Pacmac Machinery, Philippines
Turner Bros., England

MOODY Fibre Fluffer re-opens Pressure Packed Asbestos Fibre

...all grades of pressure packed asbestos from shorts 7-R to spinning fibre 3-R restored to pre-packaged fluffy condition — free from lumps and mats. Compact, simple to operate — fits into any production line. Up to 15 ton capacity per hour.



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Imports Into U.S.A.

(Figures by Bureau of Census)

Unmanufactured Asbestos:

	June 1961 Tons (2,240 lbs.)
From: Canada	44,928
Union of South Africa	2,498
Rhodesia (Nyasaland)	603
Australia	90
Other Countries	56
	48,175
Valued at:	$5,128,829

By Grades:

Crude,	No. 2,	Chrysotile	4
Crude,	Other,	Chrysotile, U. of S. Africa	410
Crude,	Other,	Chrysotile, Rhodesia (Ny)	166
Crude,	Other,	Chrysotile, Other Countries	52
Crude,	Blue,	Australia	90
Crude,	Blue,	Union of South Africa	1,128
Crude,	Blue,	Rhodesia (Nyasaland)	317
Crude,	Amosite,	Union of South Africa	902
Textile	Fiber,	Chrysotile, Canada	1,349
Shingle	Fiber,	Chrysotile, Canada	5,787
Paper	Fiber,	Chrysotile, Canada	4,168
Other	Fibers,	Chrysotile, Canada	33,624
Other	Fibers,	Chrysotile, U. of S. Africa	58
Other	Fibers,	Chrysotile, Rhodesia (Ny)	120
			48,175

Manufactured Asbestos Goods:

	June 1961 Quantity (lbs.)	Value
Asbestos Yarn		
Canada	22,798	$ 16,401
United Kingdom	16,079	10,414
Other Countries	4,617	4,535
Asbestos Packing	10,289	6,920
Asbestos Shingles (Impregnated)		
Belgium	257,126	41,117
Other Countries	117,568	9,839

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A-C Pipe & Fittings (Not Impregnated)		
Mexico	488,879	42,402
Belgium	2,643,362	170,901
W. Germany	1,329,320	63,585
Austria	614,669	28,960
Italy	1,852,621	64,486
A-C Mfgs. Other (Not Impregnated)	142,268	7,514
Asbestos Manufactures — Others	..	3,723
	7,499,596	$470,797

IMPORTS OF ASBESTOS BY UNITED KINGDOM

Raw Materials
Tons 2,240 lbs.

	August 1961
From: Union of South Africa	3,286
Basutoland, Bechuanaland & Swaziland	648
Rhodesia & Nyasaland	2,551
Canada	6,972
Other Commonwealth Countries & Irish Republic	179
Foreign Countries	40
	13,676



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RAW ASBESTOS

ALL GRADES—ALL TYPES

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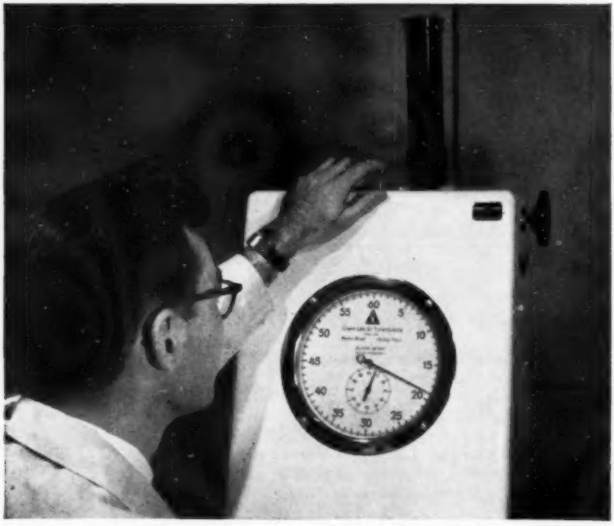
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In 5 minutes...An Automatic Test of Fiber Openness

Press the starter button, and in 5 minutes the Blaine-Dyckerhoff air permeability tester will *automatically* determine the surface area of asbestos fiber. This apparatus as used at the J-M Research Center and by J-M Mill Quality Control at Asbestos, Quebec, is accurate within a 5% margin of error.

In a continuing effort to improve fiber quality and uniformity, and after thoroughly evaluating and testing, J-M recommends this equipment to the Asbestos Industry as an approved and improved method in Quality Control.

For full details, write Johns-Manville, Box 325, New York 16, N. Y. In Canada: P.O. Box 1500, Asbestos, Quebec. Cable: Johnmanvil.

JOHNS-MANVILLE JM

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Exports From U.S.A.

(Figures by Bureau of Census)

Unmanufactured Asbestos:

	July 1961 Tons (2,240 lbs.)	Value
To: Europe	80	$ 13,803
Canada	38	7,053
United Kingdom	25	2,442
South America	22	6,553
Other Countries	11	4,019
	176	$ 33,870

Manufactured Asbestos Goods:

	July 1961 Quantity	Value
Asbestos Cement & Pipe Covering . Lbs.	239,708	$ 64,872
Asbestos Textiles & Yarn ..... Lbs.	61,413	63,509
Asbestos Packing ..... Lbs.	91,147	134,173
Asbestos Clutch Facing ..... No.	86,752	74,305
Asbestos Bk Lng (Mld & S.Mld) Lin. Ft.	127,126	57,189
Asbestos Brake Lining, Other ..... Lbs.	398,484	291,196
Asbestos Construction Material ... Lbs.	2,202,256	321,403
Asbestos Manufactures—Other	..	69,015
		$1,075,662

JOHNS-MANVILLE CORPORATION

Third Quarter Report—1961

Consolidated earnings of Johns-Manville Corporation and subsidiary companies for the third quarter of 1961 were $7,603,000, compared with $7,582,000 for the corresponding period last year. Sales in the third quarter of 1961 were $106,701,000, compared with $99,647,000 in the third quarter of 1960.

For the year to date, sales were $279,777,000 and earnings were $17,987,000, or $2.12 per share, compared with sales of $273,973,000 and earnings of $21,092,000, or $2.49 per share, for the first nine months of last year.

PHILLIPS ASBESTOS MINES

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

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Manufacturers of the finest and most modern plants for the production of asbestos-cement products, such as

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Exports From Canada

(Published by Dominion Bureau of Statistics)

Unmanufactured Asbestos:

	May 1961 Tons (2,000 lb.)	Value
Crude		
United States	3	$ 2,280
United Kingdom	..	..
South America	..	..
Central America & Mexico	..	..
European Countries	5	6,253
Other Countries	3	2,920
	11	$ 11,453
Milled		
United States	12,071	$ 2,289,515
United Kingdom	5,563	1,090,303
South America	3,354	605,051
Central America & Mexico	630	104,699
European Countries	17,163	3,316,238
Other Countries	10,265	1,544,480
	49,046	$ 8,950,286
Shorts		
United States	36,186	$ 1,889,829
United Kingdom	5,220	306,979
South America	1,068	65,293
Central America & Mexico	237	10,354
European Countries	5,899	382,027
Other Countries	3,914	316,194
	52,524	$ 2,970,676
Grand Total—		
Unmanufactured Asbestos:	101,581	$11,932,415
Manufactured Asbestos Goods:		
Brake Linings Facings		$ 33,643
Asbestos-Cement Building Materials		4,507
Asbestos-Cement Products, Other		27,479
		$ 65,629

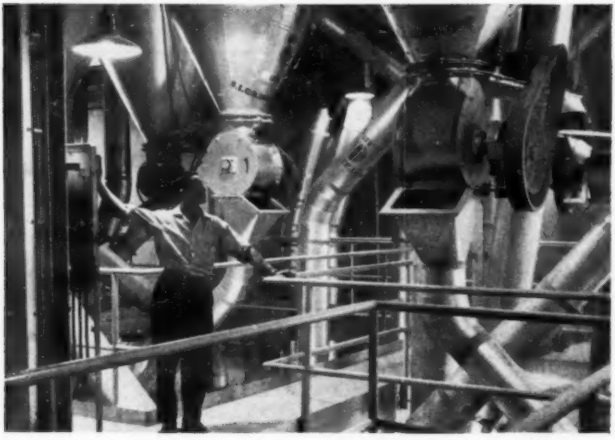
WILHELM BURGDORF

Importer of **Raw Asbestos**

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Established source, volume source, independent source of proven-quality chrysotile asbestos fibre

With an annual productive capacity of 100,000 tons of high grade asbestos, Lake Asbestos of Quebec is an established supplier of high grade asbestos for world wide use. Write for information to Asarco International Corporation, 120 Broadway, New York 5, N.Y., distributor for LAQ.

Overseas Sales Agents:

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

AUSTRALIA
Mount Isa Mines, Ltd., Sydney

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

CHILE
Agencias Kapel Ltda., Santiago

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

FRANCE
Dieppedalle & Seailles, Paris

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

ITALY
Amianto Del Lago, Torino

JAPAN
C. Itoh Co., Ltd., Tokyo & Osaka

NORWAY
Astrup & Son, Oslo

SOUTHEAST ASIA
Jardine Waugh (Singapore) Ltd
Singapore

SWEDEN
Aktiebolaget Ingeniorsfirman Titan
Stockholm

WEST GERMANY
(for W. Germany, Austria)
Atlanta Bauer & Co., Bremen

ASARCO

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

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NEWS OF THE INDUSTRY

HAPPY BIRTHDAY

Stanislaw Stachelski, Chairman, Valley Asbestos (Pty) Limited, Johannesburg, South Africa, November 19.

A. J. Scanlan, President, American Asbestos Textile Corporation, Norristown, Pennsylvania, November 21.

J. A. Marcotte, Director, Asbestos Corporation Limited, Thetford Mines, Canada, November 22.

Alvin C. McCord, President, McCord Radiator & Manufacturing Company, Detroit, Michigan, November 24.

E. J. O'Leary, President & Chairman of the Board, The Ruberoid Co., New York City, November 24.

A. C. Bywater, Director, Beldam Asbestos Company Limited, Hounslow, Middlesex, England, November 28.

M. M. Wilson, Vice President—Sales, Baldwin-Ehret-Hill, Inc., Trenton, New Jersey, November 28.

R. E. Kramig, Senior Partner, R. E. Kramig & Company, Cincinnati, Ohio, November 29.

John G. Ordway, Jr., President, MacArthur Company, St. Paul, Minnesota, November 29.

Frank G. Ruggles, President, Frank G. Ruggles & Company, New York City, December 2.

Harvey D. Burgstresser, President, Philadelphia Asbestos Company, Philadelphia, Pennsylvania, December 3.

P. M. Berry, President, Standard Asbestos Manufacturing Company of Cleveland, Cleveland, Ohio, December 8.

E. J. Fasold, Secretary & Assistant Treasurer, The Philip Carey Manufacturing Company, Cincinnati, Ohio, December 8.

James MacDonald, President, H. W. Porter & Company, Inc., Newark, New Jersey, December 10.

J. C. McKendry, President, Niagara Asbestos Company, Buffalo, New York, December 10.

Joseph J. Calao, Sales Manager, Asbestos Corporation of America, Garwood, New Jersey, December 11.

John O. Camp, Vice President, Southern Friction Materials Company, Charlotte, North Carolina, December 13.

George P. Grossman, President, Asbestos Products Company, Inc., Cleveland, Ohio, December 13.

Algerd F. Jerome, Vice President, North American Asbestos Corporation, Chicago, Illinois, December 13.

Fred Lee Johnston, Superintendent, Southern Friction Materials Company, Charlotte, North Carolina, December 13.

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

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BELL ASBESTOS MINES LTD.

THETFORD MINES, QUE.

CANADA



Producers of

Raw Asbestos Crudes

& Fibres



Sales Representatives

for

Cassiar Asbestos Corporation Limited

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Turner & Newall Limited, whose interests include asbestos, chemicals, insulation, rubber, plastics and glass fibre, have appointed as Public Relations Officer to the Group, W. P. HOWARD, who, in order to take up the appointment, has resigned his position as Publicity Manager of Ferodo Limited, one of the constituent companies of the Turner & Newall Group. He is succeeded at Ferodo by P. R. W. JUPE.

Mr. Howard will act for the parent company, Turner & Newall Limited, and each of the constituent companies will continue to be responsible for its own publicity and public relations.

Mr. Howard and his department will be based at the company's headquarters at Asbestos House, Fountain Street, Manchester 2, England and early in 1962 he will also have an office at 34 Dover Street, London, W. 1.

Western Asbestos Co.'s San Francisco, California, offices and warehousing facilities, formerly in four separate locations, have been consolidated and expanded in a new building comprising over 100,000 square feet of floor area in Crocker Industrial Park, Brisbane, California.

The new building provides increased warehouse capacity, and utilizing modern warehousing and product handling equipment, is in a position to provide faster and more efficient service.

Founded in 1908, the company is engaged in industrial heat insulation, acoustical ceilings, and as contractors in several other specialized fields. They are also distributors for a wide variety of building materials and industrial products, and represent such nationally-known firms as Johns-Manville, Celotex and Formica.

Other Western Asbestos offices and warehouses are located in Oakland, San Carlos, North Sacramento, Stockton and Fresno, California, with sales offices in San Jose and Santa Rosa, California.

POLYREZ

PHENOLIC RESINS IN
Liquid, Lump and Powder
For All Friction Materials.

POLYREZ COMPANY, INC.

RAILROAD & SO. COLUMBIA WOODBURY, N. J.

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Greater coverage . . . less shrinkage!

Prove to yourself that Gold Bond® Asbestos 7M-2 is demonstrably better for Thermal Insulating Cement. Greater coverage with less shrinkage means lower manufacturing and application costs. Any questions? Write National Gypsum Company, Buffalo 2, New York. In Canada, National Asbestos Mines, Thetford Mines, P. Q.

MAKE THIS COMPARISON	Gold Bond Asbestos 7M-2	Put **any** competitive asbestos figures here
Shrinkage (volumetric)	27%	
Net Coverage (equal ratio)	28 bd. ft.	
Dry Coverage	20 bd. ft.	

NATIONAL GYPSUM COMPANY
BUFFALO 2, NEW YORK

Gold Bond
INDUSTRIAL PRODUCTS

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A. E. Fleming Company has been appointed as CAREY-CANADIAN MINES LIMITED's asbestos fibre distributor in Michigan and northwestern Ohio. A. E. Fleming Company, located at 1900 East Jefferson Avenue, Detroit 7, Michigan, is an experienced and well-established manufacturer's representative for chemicals and raw materials for industry.

L. C. Dawson has been appointed Chairman of KISMET LIMITED and **L. W. West,** Managing Director. Mr. Dawson, as a Director of The Cape Asbestos Company Limited, to which he was recently appointed, will in the future be based at the Head Office of the Company, 114 & 116 Park Street, London, W. 1, England. He has also been appointed Chairman of Capasco Limited and a Director of Small & Parkes Limited.

A. T. Mendelle has been appointed Plant Manager of CAPE INSULATION AND ASBESTOS PRODUCTS LIMITED'S factory at Hart's Lane, Barking, of which **A. A. Cross** has relinquished his responsibilities as General Manager.

A. G. Grant, Managing Director of CIAP, has been elected Chairman of ANDERSONS INSULATION COMPANY LIMITED, the insulation contractors.

INDUSTRIAL SERVICE COMPANY

Builders of

ASBESTOS CEMENT MACHINERY

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

Your Inquiries Are Invited

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

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RAW ASBESTOS DISTRIBUTORS

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CURRENT RANGE OF PRICE

As of November 10, 1961

ARIZONA—	Per Ton of 2.000 lbs., f.o.b. Globe, Arizona	
No. 1 Crude (soft)	$1,650.00 to	$1,800.00
No. 2 Crude (soft)	800.00 to	1,000.00
Group No. 3 (Filtering & Spinning)	375.00 to	450.00
Group No. 4 (Plastic & Filtering)	225.00 to	250.00
Group No. 5 (Plastic & Filtering)	190.00 to	225.00
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

VERMONT—Per ton of 2,000 lbs. f.o.b. Hyde Park or Morrisville, Vermont		
Group No. 3 (Spinning & Filtering)	$ 345.00 to	$ 402.00
Group No. 4 (Shingle Fibre)	181.00 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

Karl V. Lindell, Chairman of the Board of CANADIAN JOHNS-MANVILLE COMPANY LIMITED, announced that the Directors of Advocate Mines Limited have decided to equip the Newfoundland Advocate Mill with a capacity of 5,000 tons of ore per day, rather than the 3,000 tons per day originally planned.

John McKinlay, Manager of Northeast District, has just been advanced to Assistant Manager Eastern Sales Region covering the sale of Industrial Rubber Products and Mechanical Packings for RAYBESTOS-MANHATTAN, INC., Passaic, New Jersey.

Mr. McKinlay started with R-M in 1952 as Sales Engineer at the Chicago, Illinois, office of the Packing Division.

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PUTTEN'S ASBESTOS

CORPORATION OF SOUTH AFRICA (PTY.) LTD.

ALL TYPES OF

SOUTH AFRICAN & RHODESIAN

RAW ASBESTOS FIBRES

CHRYSOTILE CROCIDOLITE AMOSITE MONTASITE

ENQUIRIES FROM END-USERS INVITED

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Putten's Asbestos Corporation of South Africa (Pty.) Ltd.
12th Floor, Rand Central Building,
165, Jeppe Street, JOHANNESBURG.
P.O. Box 7167. Telephone 22-8225.

ASSOCIATED COMPANIES:

Putten's Asbestos Corporation of Rhodesia (Pvt.) Ltd.,
4th Floor, Throgmorton House,
Cor. Jameson Avenue, Kingsway,
SALISBURY, S. Rhodesia.
P.O. Box 2246. Telephone 29379.

and

Putten's Asbestos Corporation (U.K.) Ltd.
3rd Floor, Gresham House,
27, Old Broad Street,
LONDON E. C. 2. England.
Telephone: London Wall 1244.

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ASBESTOS STOCK QUOTATIONS

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

		October 1961		
	Par	Low	High	Last
Advocate Mines, Ltd.	1	$5.70	$6.85	$5.85
American Brake Shoe	np	43¼	48	43¼
Armstrong Cork (Com)	1	71½	74¼	72⅜
Armstrong Cork (Pfd)	np	81	84⅞	84¾
Asbestos Corporation	np	32¾	34¾	34
Philip Carey	10	28¾	31¼	31¼
Cassiar Asbestos Corp.	np	12½	13	12⅞
Celotex (Com)	1	25¼	27	26⅛
Celotex (Pfd)	20	17½	19	17¾
Certain-Teed	1	62¼	71½	69¾
Fibreboard	np	28	30⅛	28¾
Flintkote (Com)	5	25⅛	27⅞	26¾
Flintkote (Pfd)	np	84	85½	85
Johns-Manville	5	59½	66¾	59⅞
National Gypsum (Com)	1	59¼	62⅜	59¾
National Gypsum (Pfd)	np	92½	94¾	94½
Porter, H. K.	100	95	97½	95¼
Raybestos-Manhattan	np	69¾	74½	70
Ruberoid	1	39	42	42
Unarco	5	6⅞	8	7⅛
United Asbestos	1	$5.65	$6.60	$6.00
U. S. Gypsum (Com)	4	97⅛	103¾	102¾
U. S. Gypsum (Pfd)	100	156	159½	156½
U. S. Rubber (Com)	5	54½	59⅜	55⅛
U. S. Rubber (Pfd)	100	158	160¾	159½

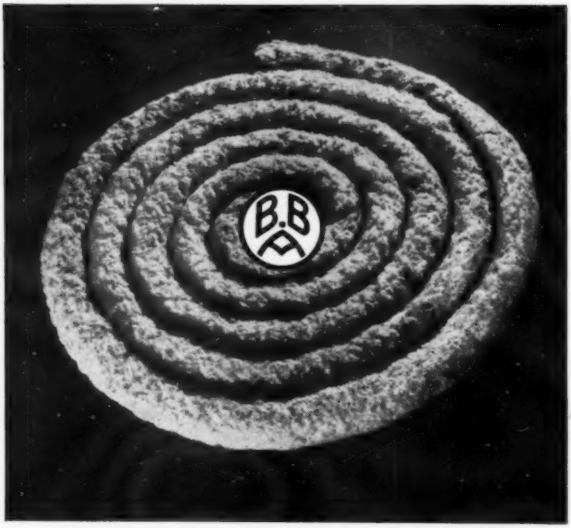
Three changes were announced in Boards of unit companies of the TURNER & NEWALL group.

J. Waddell, Executive Director of Turner Brothers Asbestos Company Limited and of Glass Fabrics Limited, has been appointed Managing Director of each company. He continues to be the Executive Director of J. W. Roberts Limited.

E. R. Pochin, Home Sales Director of Ferodo Limited, has been appointed Managing Director of that company.

M. H. Good, Home Sales Manager of Ferodo Limited, has been appointed Home Sales Director of Ferodo, in place of Mr. Pochin.

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LAGGING IN FRONT

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

BRITISH BELTING & ASBESTOS LTD
CLECKHEATON, YORKSHIRE, ENGLAND

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STATEMENT REQUIRED BY THE ACT OF AUGUST 24, 1912, AS AMENDED BY THE ACTS OF MARCH 3, 1933, JULY 2, 1946 AND JUNE 11, 1960 (74 STAT. 208) SHOWING THE OWNERSHIP, MANAGEMENT, AND CIRCULATION OF

"ASBESTOS" (Insert exact title of publication) published Monthly (State exact frequency of issue)

at Philadelphia, Pennsylvania (Name of post office and State where publication has second-class entry) for October, 1961

1. The names and addresses of the publisher, editor, managing editor, and business managers are:

	Name	Address
Publisher	Secretarial Service	807 Western Svg. Fund Bldg., Phila. 7, Pa.
Editor	E. E. Cox	312 S. 12th St., Phila. 7, Pa.
Managing editor	E. E. Cox	312 S. 12th St., Phila. 7, Pa.
Business manager	E. E. Cox	312 S. 12th St., Phila. 7, Pa.

2. The owner is: (If owned by a corporation, its name and address must be stated and also immediately thereunder the names and addresses of stockholders owning or holding 1 percent or more of total amount of stock. If not owned by a corporation, the names and addresses of the individual owners must be given. If owned by a partnership or other unincorporated firm, its name and address, as well as that of each individual member, must be given.)

Name	Address
Trust of C. J. Stover, Proprietor	702 Benson East Apartments, Jenkintown, Pennsylvania

3. The known bondholders, mortgagees, and other security holders owning or holding 1 percent or more of total amount of bonds, mortgages, or other securities are: (If there are none, so state.)

Name	Address

4. Paragraphs 2 and 3 include, in cases where the stockholder or security holder appears upon the books of the company as trustee or in any other fiduciary relation, the name of the person or corporation for whom such trustee is acting; also the statements in the two paragraphs show the affiant's full knowledge and belief as to the circumstances and conditions under which stockholders and security holders who do not appear upon the books of the company as trustees, hold stock and securities in a capacity other than that of a bona fide owner.

5. The average number of copies of each issue of this publication sold or distributed, through the mails or otherwise, to paid subscribers during the 12 months preceding the date shown above was: (This information is required by the act of June 11, 1960 to be included in all statements regardless of frequency of issue.) 1442

E. E. Cox
(Signature of editor, publisher, business manager, or owner)

Sworn to and subscribed before me this 6th day of Sept., 1961

[SEAL] Virginia L. Murray

POD Form 3526 (July 1960)

(My commission expires Feb. 27, 1963)

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A low, medium, and high-temperature pipe insulation, Zebra is made in *half sections* in all pipe sizes to facilitate handling and reduce the number of joints. It's lightweight, easy to cut and fabricate, reusable, has a smooth surface, is practically dust-free. Write Keasbey & Mattison Company, Ambler, Pa. Dept. I-0000.

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