ASBESTOS



A travel drill preparing large chunks of ore at mine of Lake Asbestos of Quebec, Ltd., Black Lake, P. Q. Canada

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R/M Silvabestos gives you

LONGER WEAR • AMPLE HEAT PROTECTION • LESS WEIGHT

Your proof is here! Impartial tests on the famous Wyzenbeck wear-test machine show that 1.6 lb. R/M Silvabestos provides abrasion resistance up to 249% greater than that of ordinary 2.5 lb. asbestos cloth of similar weave. And after 1 hour in a 450°F furnace, Silvabestos retained 56.2% more tensile strength than ordinary asbestos cloth of the same weight.

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"ASBESTOS"

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Trust of C. J. STOVER, *Proprietor*
E. E. COX, *Editor*

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THANKSGIVING

Thankfulness is easy to feel for what we have: the material things, the liberties and health we enjoy, and the spiritual freedoms we have.

What is more difficult to be thankful for is opportunity, for opportunity is an open door into the unknown. It is not a quantity we can appraise, nor a substance we can touch but, rather, a quality we perceive fleetingly, as an idea flashes through our minds.

When we take advantage of opportunity and achieve a new goal, another door opens into another unknown area. Here, too, lies opportunity. We query ourselves: Shall we go on, or shall we sit this side of the threshold and wonder what our lives might be like on the other side?

In America, our economy permits leisure enough to continue learning all through our careers. Opportunity for education is always with us, and the means of getting it can be found, if we have desire strong enough to cross the threshold, into the new unknowns.

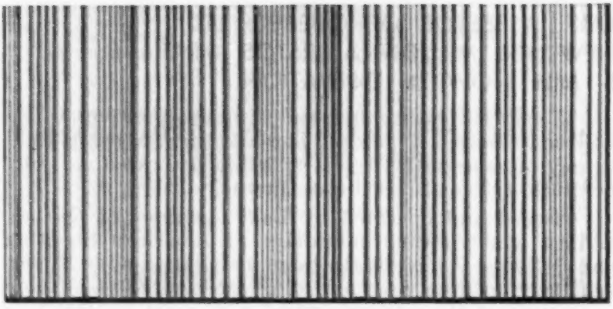
With each crossing of a threshold, new opportunities arise for us. For the ability to study and advance our knowledge — and ourselves — we can be filled with thanksgiving.

THE COVER

The photograph on our cover shows a travel drill preparing large chunks of ore, remaining after primary blasting, for further blasting at the mine of Lake Asbestos of Quebec, Ltd., Black Lake, P.Q., Canada.

Lake Asbestos of Quebec, Ltd. is a wholly-owned subsidiary of American Smelting and Refining Company of New York.

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K·M SHAKE SHINGLE

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LOOKS LIKE WOOD... LASTS LIKE STONE!

the most exciting new asbestos-cement siding on the market!

Modern decorator-selected colors: White, Yellow, Green, Gray, and Coral.

Fire- and weather-resistant because it's made of asbestos fibers and portland cement.

Won't rot, corrode, or curl: has a rock-like durability and freedom from maintenance. Never needs protective painting.

Vermin-proof: it's immune to attacks by rodents, termites, fungus, and other pests.

Backed by aggressive and dramatic advertising and promotion which pre-sells consumers through magazines like Good Housekeeping, through direct mail, point-of-sale displays, literature, and a wide variety of other sales helps.

Meets ASTM and Federal specifications.

Write today for more information on the most remarkable new development in asbestos-cement siding—"K&M" SHAKE SHINGLE!

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COMPANY • AMBLER • PENNSYLVANIA

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LAKE ASBESTOS OF QUEBEC, LTD. NEW $36 MILLION ASBESTOS MINE & MILL NOW IN OPERATION

A $36 million mining and milling operation which will contribute a 7 percent increase to the free world's supply of asbestos fiber was formally dedicated on October 16th, 1958 at Black Lake, Quebec.

Owned and operated by Lake Asbestos of Quebec, Ltd., a wholly-owned subsidiary of American Smelting and Refining Company, the huge installation adds 10 percent to Canadian production of asbestos fiber. Mining operations at the site are expected to yield 100,000 tons of asbestos a year for at least twenty years, from open pit mining; after that underground mining will probably be necessary.

Industrial leaders from Canada and the United States, and Canadian government officials, attended the formal opening. Government speakers at the ceremonies pointed out the importance of asbestos to Canada's economy. Asbestos mining is one of the major industries of Quebec, and asbestos is one of Canada's principal exports. Executives of Lake Asbestos of Quebec, Ltd., outlined the importance of asbestos to modern technology. The mineral fiber is used in such varied products as refrigerators, building materials, brake linings, conveyor belts, fire-protection clothing, gaskets, and steam pipes. A significant application is the fabrication of missile nose cones, where asbestos fiber plays an essential role.

The new installation centers around an open pit mine, about the size of New York's LaGuardia airport. A few years ago this was a 500-acre lake, Black Lake, which acted as the key factor in the drainage system of a populated area. Black Lake was shifted into new, man-created basins, and the river which drains this heavy rainfall area was routed into a new channel. Four dams were constructed and a new highway was built to replace the road around the lake. Throughout this construction, Black Lake was kept at the proper level for flood control and for dredging. Over 55 billion gallons of water were pumped, and 27 million cubic yards of mud and silt had to

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JOHNSON'S COMPANY LTD.
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GREAT BRITAIN ... A. A. BRAZIER & CO. (Asbestos) Ltd.,
"Avenue Lodge," Bounds Green Road,
LONDON, N 22

JAPAN ..... Iwai & Company, Ltd. C. P. O. Box 226
TOKYO

BELGIUM ..... JOS IDE & FILS, 60 Avenue d'Auderghem
BRUSSELS 4,

GERMANY ..... ERNST WERNER, Import von Rohasbest,
Katharinenstrasse 30, "Edmundhaus,"
HAMBURG 11,

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be removed from what had been the lake bottom before the asbestos deposit was uncovered.

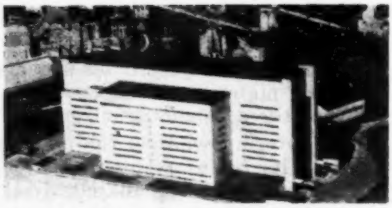
The Black Lake installation features a new mill which cost more than $9 million. As tall as a 14-story building, the mill houses ultra-modern equipment to free asbestos fiber from the ore and to grade, dry, and prepare fiber for shipment to processors of asbestos materials throughout the world. There are also special buildings for the crushing of the ore as mined and for the storage of ore during the various phases of processing. A network of conveyors links the buildings and many operations are guided by electronic remote control systems. Built to serve the mine and mill are an electric substation, repair shops, garages, offices and railway spur.

Shakedown operations at the mine and mill started in late summer. The mill is now operating on a full commercial scale. The first steps in this huge project were taken in 1948 when mining rights were granted by the Crown to a Canadian syndicate. Explorations by United Asbestos Corporation, Ltd. confirmed the existence of a rich vein of asbestos ore under Black Lake. The development of such submarine mineral deposits — once considered impossible — seemed feasible in view of the success of Steep Rock, an iron ore mine underlying a lake bed in Southern Ontario. However, to bring such underwater deposits into full production requires the mobilization of both engineering know-how and capital. With mines, smelters, and refineries throughout the world, Asarco had the unique combination of engineering experience and investment capital to undertake and complete the Black Lake project. An option to develop Black Lake and operate the property on a profit-sharing basis gave Asarco an opportunity to put its extensive resources to work in a new field, asbestos mining.

Asarco exercised the option in 1954 and work began immediately to drain, dredge, and replace the lake with a new river drainage system, to construct dams, and to build a new highway. Construction of the mill started in July 1956.

Lake Asbestos will probably maintain a distribution pattern similar to that of other Canadian producers, sell-

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Processing in the world's largest asbestos mill



checked by modern control laboratories

. . . makes J-M Asbestos Fibre the dependable ingredient in the batch

Johns-Manville's new asbestos mill at Asbestos, Quebec, is the largest in the world. Yet every batch is scientifically sampled and then analyzed in modern control laboratories to assure the thoroughly accurate grading.

Production, development and control facilities are all centralized under one roof, permitting the unified control of quality and uniformity.

The mill is operated by 600 skilled workers with the latest and most efficient equipment available. Write for information telling why Johns-Manville is best equipped to serve your asbestos fibre needs. Address Asbestos Fibre Division, Canadian Johns-Manville Co., Ltd., P. O. Box 1500, Asbestos, P. Q., Quebec.

JOHNS-MANVILLE

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ing 50% to the U. S., and exporting the rest, principally to Europe, Latin America, Japan and Australia. Especially good customers are countries which are short of steel, but have raw materials to make concrete. Asbestos-concrete is a versatile construction element.

In entering what is for it a new field, Asarco will continue its basic company policy, being a supplier of quality raw materials to industrial consumers and will not itself make asbestos end-products. This will give it a sales advantage over many other basic asbestos producers who are large factors in the asbestos products industry as well. In contrast to such captive production, all the Lake Asbestos output will be available to industrial users.

Moreover, as with its non-ferrous metals production, the company recognizes the desirability of knowing all about the raw materials it sells. Asarco is pursuing the same course with asbestos as it has with its other products in terms of investing in research and technical service. For example, at its Central Research Laboratories at South Plainfield, N. J., the company has a special research staff already working to help customers solve asbestos applications problems; and to develop more efficient methods of using asbestos; moreover, several fundamental research projects are also underway.

In addition to the incentive of a project that held a profit potential for a company with enough confidence and capital to tackle it, Black Lake offers Asarco a product that is less cyclical than non-ferrous metals, and which should lend greater stability to its sales pattern. The consumption curve of asbestos, tied as it is to products related to the expanding needs of an ever-increasing world population, has been going steadily upward and is expected to so continue. Another advantage is the relatively steady price of asbestos.

"Throughout the development of Black Lake we had the pleasure of taking part in a challenging venture which would bring Canada's natural resources into use for the benefit of Canada", said Robert D. Bradford, President of Lake Asbestos of Quebec, Ltd. Mr. Bradford is also a Vice-President and Director of Asarco. "We are proud that Black Lake is considered an outstanding ex-

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HAIR FELT

FOR

Low Temperature Insulation

Newark Hair Felt Co.

1000 Maple Avenue

Lansdale, Penna.

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ample of international cooperation. It demonstrates what can be accomplished by pooling Canada's natural resources with the resources of American business, and as an unusual engineering achievement, it shows clearly the advantages of combining the engineering skills of both nations. It is also gratifying to us to contribute to Canada's growth and prosperity."

THE STORY OF TRANSITE PIPE
ITS ORIGIN, ITS MANY USES, HOW IT IS MADE

Johns-Manville began manufacturing a flat, asbestos-cement board in 1904 for use as fireproof protection beneath cars of the Brooklyn Rapid Transit Company. It was so successful in eliminating fires caused by sparks and short-circuits on newly-electrified trains that Johns-Manville named the new product "Transite" after the transit company it first served.

Transite was soon being widely used as a structural building board. As the cost of steel buildings increased, a new demand developed for a roofing material capable of supporting itself on wide spans. Johns-Manville, by natural evolution, developed Transite in corrugated form to fill these needs. Around 1921 the company began manufacturing Transite in 2-⅝-inch corrugated sheets. These corrugated Transite sheets were effective on roof spans up to 45 inches long.

As steel building construction costs kept rising, contractors found it economical to increase steel spans still further. Johns-Manville kept pace with these new industrial requirements by developing stronger Transite sheet in 1929, with a 4.2-inch corrugation, that was effective on spans as great as 4-feet, 6-inches. This corrugated Transite product is still in wide demand today, having withstood rigorous tests in all the intervening years.

The performance and excellent service record of Transite in both flat and corrugated form, with its established corrosion-resistant qualities inherent in the raw

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3 new export-sales offices

National Asbestos Mines Ltd. has appointed three export sales agents to give world-wide service to asbestos users. Gold Bond Asbestos is a light-colored fibre, ideal for use in floor tile and asbestos-cement products. It's made under strict grade control, with a minimum of fines content. Available for overseas shipment in jute or multi-wall paper bags. Inquiries may be addressed to:

British Metal Corp. (Canada) Ltd.
121 Richmond St. West
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Serving: Australia, New Zealand, Central and South America, Egypt, Near, Middle and Far East; Austria, Switzerland, Yugoslavia.

Gordon Felber (Asbestos) Ltd.
Spirella House, Oxford Circus
London, W-1, England

Serving: United Kingdom, Spain, Portugal, Italy, West Germany, Israel, Indonesia.

International Ore Trading Co.
"Wambersie", Ltd.
Rotterdam, The Netherlands

Serving: Holland, Belgium, Luxembourg, France, Scandinavia, Finland, Africa, (except Egypt).

In The United States: **National Gypsum Company, Buffalo 2, New York**

In Canada: **National Asbestos Mines Ltd., Thetford Mines, P. Q.**

Gold Bond
INDUSTRIAL PRODUCTS

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materials from which it is manufactured, made it a natural material for the rugged service required of underground piping or industrial lines. Johns-Manville began producing Transite in cylindrical or tubular form in 1929 to service this type of industrial need.

As in flat or corrugated Transite, three basic ingredients are used in the manufacture of Transite Pipe. These are asbestos fibres stronger than many types of steel wire, cement and silica. They are consolidated under pressure to form a pipe wall of dense, uniform and homogeneous structure. After the pipe is formed it is subjected to air and steam curing process.

The steam curing contributes much to the stability and structural integrity of the pipe. Under action of high-pressure steam in sealed autoclaves, Transite assumes a new chemical identity. The silica in its composition unites chemically with the free lime ordinarily associated with cement products and converts it into highly stable calcium silicates. As a result, the cured Transite pipe is unusually resistant to corrosive attack by acids, chemicals or fumes throughout its entire structure. A curious chemical fact is that the finished pipe weighs more than its original ingredients and thus gains added strength.

Since Transite was first produced in tubular form in 1929, many thousands of miles of Transite pipe have been installed in the United States and Canada for use as water and sewer mains, irrigation and industrial pipe lines, building sewer pipe, telephone and electrical conduit, air conditioning and other ducts, vents, flues and stacks.

In keeping pace with ever-increasing demands by industry, homes, farms and thousands of municipalities, Johns-Manville has expanded its Transite pipe manufacturing facilities to seven locations in the United States and Canada, strategically placed to speed deliveries and keep shipping costs down.

In addition to the newest Johns-Manville Transite Plant at Denison, Texas, other factories are in production at Marrero, Louisiana; Manville, New Jersey; Stockton, California; Watson, California; Waukegan, Illinois, and Toronto, Canada.

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CANADIAN ASBESTOS



THE NICOLET ASBESTOS MINE
Norbestos (via Warwick)
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Address Inquiries to:

NICOLET INDUSTRIES, INC.

ASBESTOS FIBRE DIVISION

Nicolet Avenue

Florham Park*, New Jersey

***Suburb of New York City.**

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The Johns-Manville Pipe Division, which operates the American plants, is represented at the company's Research and Engineering Centers at Manville, New Jersey. These are the largest facilities of their kind in the world devoted to building materials, insulations, asbestos-cement pipe, and allied industrial products. A permanent group of industrial research scientists and technicians are constantly occupied there in seeking new ways to improve and use Transite Pipe. They have at their disposal a completely equipped Transite Pipe pilot plant where the latest improvements are developed and factory-tested before being put into production at the seven operating locations.

In manufacture of Transite pipe, asbestos fibres of various grades are selected and blended. Then, in predetermined proportions, the asbestos fibres are mixed with cement and silica. Enough water is added to disperse the fibres uniformly throughout the mixture.

This mixture or slurry, as it is called, flows into a tank where a revolving drum of fine wire mesh deposits it in a thin coating on a broad, endless felt band. The moving felt carries it in a wide ribbon over vacuum chambers which remove excess moisture. The mixture is transferred to a revolving steel mandrel. Here the coating builds up continuously under pressure of heavy, hydraulically loaded rollers which compress it into a dense, homogeneous structure.

In this way, a section of pipe the length of the mandrel is built-up until the desired wall thickness is reached. After the pipe is removed from the mandrel it is subjected to high pressure steam curing.

Modern equipment forms various types of Transite asbestos-cement pipe into 10-foot and 13-foot lengths, with some types ranging in diameter from 3 to 36 inches. Various types have different strengths, depending upon the purpose for which manufactured. Some pipe sections are available in half, quarter and one-third lengths, depending on the particular kind of pipe. This gives users great flexibility of choice.

Most water and sewer pipes and many industrial

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DRYCOR FELT CO.

STAFFORDVILLE
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U. S. A.

Pioneers
and
World's Largest
Manufacturer
of
NEEDLED FELTS
for
ASBESTOS CEMENT PRODUCTS

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ESTABLISHED STANDARD
for
ECONOMY
DRAINAGE
LONGER LIFE

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Synthetic Fibre Content Available to Meet Your Individual Requirement

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lines and electrical conduits for distribution of power are buried underground where they are immediately subjected to two types of corrosive attack — chemical and electrolytic. Chemical corrosion is caused by acids and salts encountered in the soil. Electro-chemical corrosion, an extremely complex process similar to action that takes place in a dry cell battery, occurs in metallic pipe when installed underground. Transite pipe, being non-metallic, does not conduct electricity and is immune to electro-chemical corrosion and is highly resistant to other types of corrosion.

In addition to its high resistance to ordinary corrosion, Transite pipe has an added advantage of high flow capacity because of its permanently smooth interior surface. Liquids and gases flow easily with a minimum of friction, permitting high carrying capacity and low pumping costs.

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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ASBESTOS

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ASBESTOS CORPORATION LIMITED

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NEW YORK — WHITTAKER, CLARK & DANIELS, INC.
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MONTREAL — ALBION ASBESTOS PACKINGS LTD.
130 BATES ROAD

TORONTO — CANADIAN ASBESTOS ONTARIO LTD.
27 FRONT ST. EAST

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CROCIDOLITE DEVELOPMENT

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

NEWS ITEM: Fifty Years Ago — "Prieska (N. W. Cape) sent its first load of minerals to the coast last week. It consisted of some copper and 1,000 bags of asbestos, which came from the Cape Asbestos Company." (South African Mining Journal — August 1908)

In the August 1, 1958 copy of the South African Mining Journal, the above news item was probably read with interest by very few asbestos men. Indeed, it would be only those interested in the Cape crocidolite field, to whom this simple flash back, half a century ago, would recall old historical facts that contrast strangely with the position in that field today.

The remarkable change is centered mainly in the development that has taken place and as a result the progress in mining methods following the switch over from the old simple surface tribute and contract workings to systematic mining methods, in 1939, that steadily opened up the deposits at depth.

This productive work was laid out essentially to meet the growing demand for the crocidolite fibres which, in the early stages, was looked upon by manufacturers as of doubtful commercial value. It is somewhat surprising today that there should have been any question about the usefulness of the fibre, since one of the earliest geologists (Hausmann) who examined specimens in 1831, wrote the following: "Should the asbestiform Krokydolith from South Africa be available in greater quantity then, on account of its property of ready separation into the finest threads of relatively remarkable strength, useful application . . . might perhaps be found for it."

How true this early report has proved to be is clearly evident from the development of crocidolite asbestos since it was made so many years ago.

Hausmann suggested the name, Krokydolith, meaning flaky or woolly stone, by which the asbestos is known today. This was suggested by him in collaboration with Stromeyer and Klaproth, (the latter, by the way, was the discoverer of uranium) both of whom also examined and reported on this discovery of this new type of asbestos.

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. . . is a round-the-clock operation at Hyde Park, Vermont. Quality-controlled through each processing step, you can depend on Ruberoid Asbestos for clean, easy-to-identify fibre with minimum moisture absorption. You can depend on Ruberoid Research for the finest in Asbestos Fibre. For samples write:

The RUBEROID Co.

ASBESTOS FIBRE DEPT.

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The name was retained instead of the earlier nomenclature, "Blau-Eisenstein" so called by the first discoverer, Lichtenstein, in 1803-1806.

It strikes us as surprising today that this wonderful discovery failed to raise any interest commercially for nearly one hundred years. For, even though the first recorded output from the Cape field was reported in 1893, this was merely the early productive effort of the first mining company, The Cape Asbestos Co., which had just been formed. It was not until the early part of the century that the fibre was recognized as a useful commodity, and this only after the Cape Company had built their own factories to prove the value of the fibre in certain applications. It was after this that crocidolite acquired its trade name "Cape Blue".

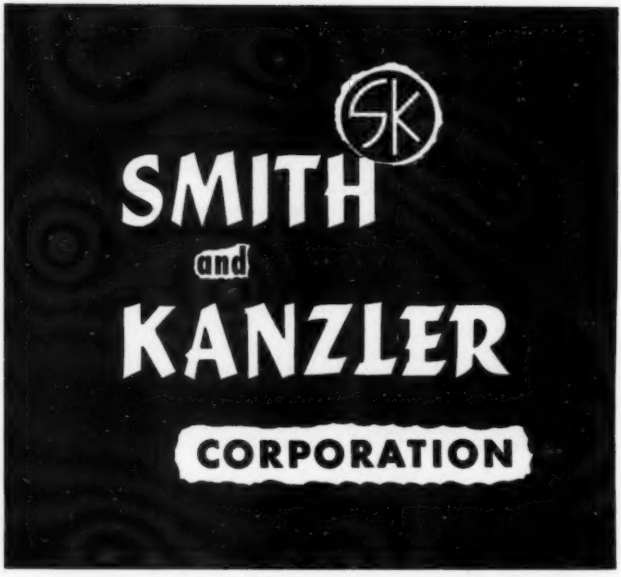
Despite the early struggles of the Company in attaining general recognition of the new asbestos in the asbestos industrial sphere, success at last rewarded their efforts due mainly to a number of optimistic pioneers, among whom will be remembered, Francis Oats, Breitmeyer and the Warner Beit Company. This splendid achievement is manifest indirectly in the item mentioned above, namely: that in 1908, one thousand bags of "Cape Blue" asbestos were produced and shipped by the Company.

In the following years the annual output gradually grew to 1,000 tons and more, but only after manufacturers, and particularly chrysotile manufacturers, were convinced that the harshier blue fibres could be successfully utilized in place of the softer white fibres in certain applications. Indeed, the time was to come when "Cape Blue" asbestos was found to be superior to chrysotile in certain specialized products, especially in various insulating forms and the making of acid resisting products. Later crocidolite was accepted as the best fibre for making asbestos-cement products.

All this was to come later, and for some years the output from the Cape field remained in the region of from 1,000 tons to 2,000 tons, made up of the production from the Cape Asbestos Co. and another company (Dominion Blue) and numerous other small private enterprises.

The world development of crocidolite asbestos indus-

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Asbestos Cements
Asbestos Millboard
Asbestos Rollboard
Corebestos Panel Fill
Commercial Asbestos Paper
Pipe and Block Insulation for Heat and Cold
Asbestos Felts and Paper for Saturating
Spraycraft Fireproof Acoustic Plaster

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trially was entered into in earnest just before, during and following the second world war. An increasing demand, even for short fibre grades (previously discarded) found most mining concerns unprepared and unable to produce and supply the requirements of industry. This position, however, was gradually eased by opening up the Transvaal crocidolite field and the development of crocidolite deposits in Bolivia and West Australia. With production from all these fields in full swing world output has now reached a grand total of about 78,000 tons.

Today, the "Cape Blue" production, no longer the world output, nevertheless constitutes over two thirds of the grand total, and continues to grow steadily. This mounting annual production is clearly indicated in the output recorded during the past six years:

CAPE CROCIDOLITE PRODUCTION

YEAR	TONS
1952	24,441
1953	20,883
1954	28,136
1955	34,878
1956	47,688
1957	59,549

Besides doubling the output during this period, Cape producers have increased the value recovered from 1-¾ million pounds to nearly 4-¾ million pounds.

The only possible factors that may retard this growing productive effort is the question of available payable reserves, because deeper exploitation and more intensive development of the Cape deposits, in recent years, discloses some uncertainty in latent resources. It would seem almost that Hausmann had some inkling of this uncertainty, when he said: ". . . . should the asbestiform Krokydolith be available in **greater quantity** then . . . ." only then will we be in a position to supply industry with the crocidolite asbestos necessary to keep pace with demands.

This is an important question that will remain unproved unless more extensive exploratory development work is carried out to investigate the possible future available resources.

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A FIBRE COLOR PROBLEM?

If the color of asbestos fibre is a problem in your product it is possible that Carey-Canadian Fibre will help you solve it. The lighter color of this fibre, balanced with the other characteristics you look for in formulation, might effect considerable cost saving.

One of the advantages of Carey Fibre has always been its color—particularly noticeable in the 6 and 7 grades. Color comparisons on fibre from the *new* Carey-Canadian mill reveal a clearly perceptible increase in whiteness over that obtained from the older mill.

Send for full information and samples of Carey-Canadian Fibre. Carey technicians are always available to help with grade selection, blends, and other factors which affect your manufacturing operations. The *new* Carey-Canadian mine offers a really reliable source for asbestos fibre, a source you'll find it worthwhile investigating.

Carey®

ASBESTOS FIBRE

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

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MARKET CONDITIONS

GENERAL BUSINESS

Business in general continues to improve. The extent and pace of the recovery have exceeded the most optimistic predictions of a few months ago. Steel production is rising at a lively rate and auto production is rising despite delays caused by sporadic labor troubles of one of the major producers. Construction activity is good particularly in the housing field. The stock market is strong and active indicating the underlying confidence in future prospects for business. Prospects for the remainder of 1958 are excellent.

ASBESTOS—RAW MATERIAL

Little change has occurred in the level of asbestos fibre shipments over the past few months. The trend of export shipments in anticipation of closed navigation is noticeably upward.

Additional production is available due to the opening of new properties and inventories on hand are at a relatively high level.

The demand for asbestos from domestic sources is encouraging and the trend appears to be upward.

ASBESTOS—MANUFACTURED GOODS

Asbestos Textiles. The textile market has been slightly active in comparison with previous months.

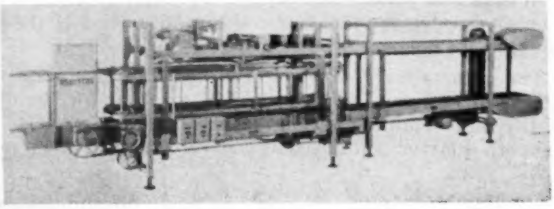
Asbestos Brake Lining. Sales are still running approximately 10% ahead of last year in replacement. Industry is about 3.5% ahead. The outlook for the balance of the year is good both in replacement and equipment sales. It looks as though the public will go for '59 models in a big way. The worst problem in replacement is in evils of re-distribution practices and tendency of large fleets to buy direct.

Asbestos Paper. Orders for this material seem to be coming in about the same as last month. If orders main-

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- **NEW**—engineered with the most advanced electrical and mechanical features available.
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The Ruberoid Company
Flintkote Mines, Ltd.

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Your direct inquiry will receive prompt attention.

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J. I. FERGUSON CO. JOLIET ILL.

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tain the same pace the overall volume will be somewhat less than last year. Orders for *Millboard* are still very slow. There seems to be a slight improvement in the *Saturated Paper* market.

Insulation. High Pressure. Orders for this material have improved during the month. Furthermore, there is a lot of work being figured at the present time which may result in future volume. Orders should continue at an accellerated pace during the rest of this year, which will improve the overall situation for the year as compared with the outlook during the first three or four months of 1958.

Insulation. Low Pressure. This market is very slow and competitive. Volume for the remainder of the year should be less than last year.

Asbestos Cement Products. Seasonally good is the report for this market.

The volume for *Roofing & Siding* continues ahead of last year. Weather conditions will be a factor for the outlook for the remainder of the year — if open weather in the fourth quarter, volume will remain ahead of same period last year.

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

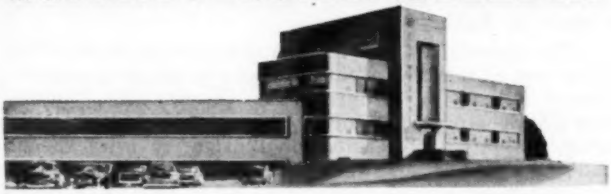
The next two decades should bring great changes in the physical appearance of the United States. In fact it should see the creation of another "great period in design", such as was handed down by the Renaissance, Roman and Greek periods in architecture.

This prophesy is made in the new film, "The New Age of Architecture," prepared by the editors of Architectural Forum magazine and Transfilm, which this month is being distributed throughout the country by the American Institute of Architects. Dialog in the film includes remarks by leading architects, builders and planners.

Of special interest to city planners, city lovers, business groups, as well as to architects, "New Age of Architecture" is available on free loan from the American Institute of Architects, 1735 New York Ave., N.W., Washington 6, D. C.

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

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

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

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

FLINTKOTE MINES, LIMITED

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



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The Modern Textiles Magazine recently issued a new handbook under the title, "Mill Test Procedures", by Norbert L. Enrick.

The procedures presented in this Manual provide for detail test of quality, production and waste in a comprehensive mill testing program. The Manual also contains over fifty complete test methods, including purpose, sampling, evaluation of results and illustrative work sheets.

Copies can be obtained from Modern Textiles Magazine, 303 Fifth Avenue, New York 16, N. Y.

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A subscription to this journal for your friends is a gift that would be appreciated for 12 months. Mail your instructions TODAY to: "ASBESTOS", 807 Western Savings Fund Bldg., Phila. 7, Pa.

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OF EVERY SHAPE AND DIMENSION



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PLANTS ALREADY IN OPERATION IN OUTSTANDING FACTORIES

Inquiries for Details, Quotations and References are welcome.

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Cable: MINITA—MILANO **Phone: 26 67 27**

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BUILDING

Contracts for future construction in the United States in September totalled $3,215,919,000, an increase of 26 per cent above the like month of 1957, F. W. Dodge Corporation, construction news and marketing specialists, reported.

Dodge vice president and economist George Cline Smith said that the September increase of 26 per cent was the greatest increase over the corresponding month of 1957 that has been reported so far this year. "However," he added, "September marks the third month in a row with an increase of more than 20 per cent over last year, and the fifth consecutive month in which the dollar volume of contracts amounted to more than $3 billion."

"Publicly owned projects," Dr. Smith reported, "continue to provide the major part of the stimulus, but in September privately owned projects also increased sharply. Public-ownership contracts rose 29 per cent over September, 1957 and private projects were up nearly 25 per cent."

According to Dodge figures, residential building contracts in September totalled $1,460,270,000, up 27 per cent from the similar month of a year ago. September contracts covered 114,642 dwelling units, an increase of 33 per cent over the corresponding month of 1957; the largest percentage gain in this category this year. The spread between the percentage gain in dollar volume and in the number of units reflects the trend toward smaller average size units, particularly apartments.

Heavy engineering contracts in September amounted to $863,415,000, an increase of 62 per cent above the like 1957 month. As mentioned above both public works and utilities contracts registered impressive gains.

In the non-residential category in September contracts for future construction totalled $892,234,000, a gain of 3 per cent over the similar month of a year ago. Commercial building contracts registered a gain of 31 per cent; manufacturing building contracts however were down 17 per cent.

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AUTOMOBILE SALES	August 1958
Passenger Cars	194,974
Motor Trucks	55,227
Motor Coaches	265
	250,466

In August 1957, a total of 611,749 motor vehicles were sold. In the eight months of 1958 the total was 3,329,167.

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

ASBESTOS-CEMENT MACHINERY

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

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

Your inquiries are most welcome

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THE COLONIAL SUGAR REFINING CO. LTD.

SYDNEY, AUSTRALIA

Sole Distributors for

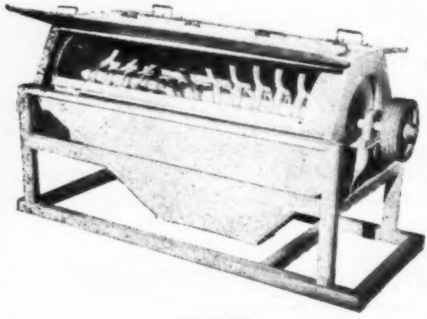
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  Argentine, Belgium, Brazil, Chile, Colombia, Denmark, France and French Morocco, Egypt, Eire, Great Britain, Holland, India, Israel, Italy, Mexico, Norway, Pakistan, Peru, Portugal and Portuguese Africa, Spain, Sweden, Switzerland, Turkey, Uganda, Uruguay, Venezuela.
- **Carters (Merchants) Ltd., Winchester House Old Broad St., London**
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Australian Blue is an ideal fibre for asbestos cement and for purposes requiring good heat insulation and acid resistance. It has excellent spinning properties. Samples are available on request.

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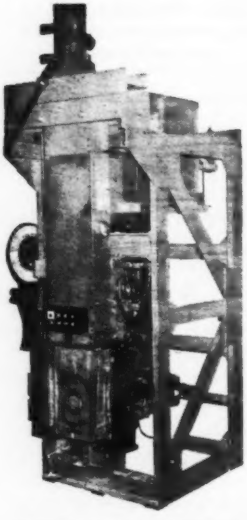
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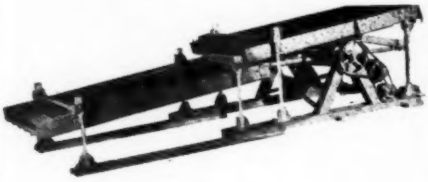
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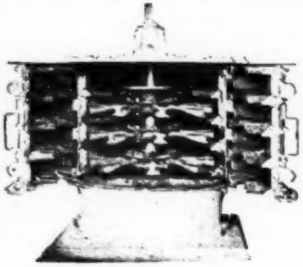


SHAKING SCREENS—ALL TYPES

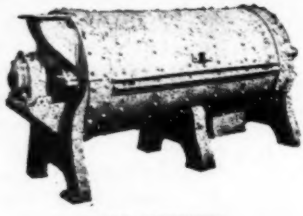
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LEADING ECONOMISTS ALMOST UNANIMOUSLY OPTIMISTIC ABOUT 1959

The nation's leading economists are far more optimistic about the business outlook than they were this time last year, according to the 12th annual economists' opinion survey conducted by F. W. Dodge Corporation.

They are also much more nearly unanimous in their opinions on major economic indicators than they have been in the past, Dodge vice president and economist George Cline Smith reported in an analysis released recently.

Of the 212 participants, all but two economists expect gross national product to rise next year above its mid-1958 level, and all but four think industrial production will show a similar trend. On the average, they expect G.N.P. to reach an annual rate of $460 billion by the fourth quarter of 1959, a rise of about 4½ per cent during the year. Similarly, they expect the Federal Reserve index of industrial production to reach 147 by December, 1959, going up about 5 per cent during the year, Dr. Smith reported.

In general, the economists feel that inflationary tendencies will continue, with some speed-up in price rises toward the end of 1959. The median (average) forecast is that the government's consumer price index will reach 125.5 by the end of 1959, as compared with the most recently reported figure of 123.7.

While the economists clearly think 1959 will be a good year, Dr. Smith said, they recognize that "there are soft spots to be bolstered and pitfalls to be avoided." Among those most frequently mentioned are:

Inflation and runaway boom, with a counteraction sometime after 1959.

Possible cutting off of the recovery by excessive credit restrictions.

Prospects for a relatively slow decline in the number of unemployed.

A continuing profit squeeze facing many businesses.

Constantly rising wage rates.

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A natural fire barrier as workable as wood

A unique insulation board, workable as wood, Asbestolux combines more inherent advantages than any similar material. Long-fibered Amosite asbestos and a selected grade of silica with special properties are bonded under heat and pressure. Light and strong, Asbestolux is incombustible, and stable.

Write for Bulletin J-850.



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CAPE

Subsidiaries of The Cape Asbestos Company, Ltd., London

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Canada
(Department of Mines, Province of Quebec)

Tons 2,000 lbs.

Production for August 1958 (Quebec)	80,840	tons
Other Provinces	4,945	
	85,785	

Total production for August 1957 was 95,949 tons.

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

Tons 2,000 lbs.

Production for June 1958	11,758.00	tons
Valued at	£814,962	
Production for June 1957	11,312.97	tons
Valued at	£772,337	

THE RUBEROID CO.
Third Quarter Report

The Ruberoid Co. reported that the tonnage of products sold in the first nine months of 1958 was greater than in the same period of 1957, but that dollar sales were down slightly and net income was substantially lower. In the third quarter dollar sales and net income showed considerable improvement over either of the first two quarters of 1958.

Net sales for the first nine months totaled $60,095,321 compared with $62,016,207, for the first nine months of 1957. Net income was $2,492,230, or $1.68 a share, compared with $3,697,960, or $2.50 a share. For the third quarter, net sales were $23,694,903 in 1958 and $24,783,136 a year earlier. Net income was $1,267,583, or $.85 a share, compared with $1,794,360, or $1.21 a share.

THE RUBEROID CO.

E. J. O'Leary, president, of The Ruberoid Co., declared that "Ruberoid appears to be on the threshold of its greatest progress."

He made the statement in connection with the 72nd anniversary of the company's founding which was celebrated at the firm's 16 plants throughout the country.

To mark the occasion, 406 employees with 25 years or more of service were honored at plant ceremonies. Among them were 69 new members who were welcomed into the 25ers, an honorary long-service group. Ruberoid employees number about 4,000.

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

DON'T CRUSH POTENTIAL PROFITS:



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- Reduces rock, releasing fiber intact
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- Boosts both value and volume of output
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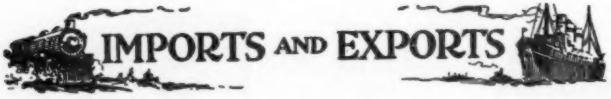
The rugged Entoleter® Centrifugal Impact Mill is specially engineered to break open rock along natural cleavage lines liberating crudy asbestos with minimum degradation of fiber. Its superiority over conventional methods has been production proven.

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

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Imports Into U. S. A.

(Figures by Bureau of Census)

Unmanufactured Asbestos:	May 1958 Tons (2240 lbs.)
From: Canada	39,757
Union of S. Africa	4,021
Rhodesia (Ny)	944
United Kingdom	56
Other Countries	66
	44,844
Valued at	$4,370,915
By Grades:	
Crude No. 1, Chrysotile, Canada	6
Crude No. 2, Chrysotile, Canada	37
Crude No. 2, Chrysotile, Rhodesia (Ny)	17
Crude, Other, Chrysotile, Canada	71
Crude, Other, Chrysotile, U. of S. Africa	130
Crude, Other, Chrysotile, Rhodesia (Ny)	927
Crude, Blue, U. of S. Africa	2,397
Crude, Amosite, U. of S. Africa	1,494
Crude, Amosite, Other Countries	13
Textile Fibres, Chrysotile, Canada	1,267
Textile Fibres, Chrysotile, United Kingdom	56
Textile Fibres, Chrysotile, Other Countries	31
Shingle Fibres, Chrysotile, Canada	3,382
Paper Fibres, Chrysotile, Canada	2,457
Other Fibres, Chrysotile, Canada	32,537
Other Fibres, Chrysotile, Other Ctys.	22
	44,844

Manufactured Asbestos Goods:	May 1958 Quantity (lbs.)	Value
Asbestos Yarn, United Kingdom	18,411	$ 12,400
Other Countries	13,729	10,965
Asbestos Packing, United Kingdom	56,065	20,811
Other Countries	8,374	7,008
Asbestos Shingles (Impreg.)	19,134	2,794
Asbestos Shingles (Not Impreg.) United Kingdom	244,019	25,617

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Belgium	357,796	25,651
Italy	388,016	27,767
Other Countries	141,170	9,756
Asbestos Manufactures — Others	.....	11523
	1,246,714	$144,292

(Figures by Bureau of Census)

Unmanufactured Asbestos:

	June 1958 Tons (2240 lbs.)
From: Canada	43,605
Union of S. Africa	3,942
Australia	881
Rhodesia (Ny)	415
Other Countries	87
	48,930
Valued at	$4,907,428

By Grades:	
Crude No. 1, Chrysotile, Rhodesia (Ny)	36
Crude No. 1, Chrysotile, Other Ctys.	2
Crude No. 2, Chrysotile	17
Crude, Other, Chrysotile, U. of S. Africa	243
Crude, Other, Chrysotile, Rhodesia (Ny)	291
Crude, Blue, Australia	881
Crude, Blue, U. of S. Africa	2,092
Crude, Blue, Rhodesia (Ny)	88
Crude, Amosite, U. of S. Africa	1,427
Textile Fibres, Chrysotile, Canada	917
Textile Fibres, Chrysotile, Other Ctys.	32
Shingle Fibres, Chrysotile, Canada	4,697
Paper Fibres, Chrysotile, Canada	3,597
Other Fibres, Chrysotile, Canada	34,394
Other Fibres, Chrysotile, U. of S. Africa	180
Other Fibres, Chrysotile, Other Ctys.	36
	48,930

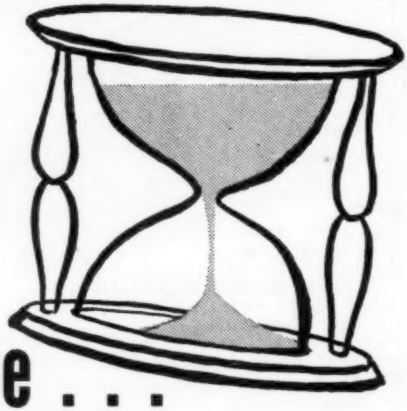
Manufactured Asbestos Goods:

	June 1958 Quantity (lbs.)	Value
Asbestos Yarn	14,645	$ 10,345
Asbestos Packing	2,827	687
Asbestos Shingles (Impreg.)	85,770	8,330
Asbestos Shingles (Not Impreg.)		
Belgium	195,740	19,617
Italy	1,037,578	41,405
Lebanon	853,858	48,923
Other Ctys.	262,764	18,146
Asbestos Manufactures — Others	.....	6,109
	2,453,182	$153,562

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give longer life because . . .



Their special needled construction is combined with the finest wool and synthetic blends available. This combination gives Durasorb Felts extra strength and durability to make them last longer on your machines.

This is just one of the many reasons why Durasorb Felts are ideal for asbestos-cement shingles, siding and sheets. Other Durasorb features include increased drainage, finish, stability and uniformity. Ask your Albany Felt Sales Engineer for more information.

AF

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FELT COMPANY

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

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Exports from Canada

(Published by Dominion Bureau of Statistics)

Unmanufactured Asbestos:

	July 1958 Tons (2000 lbs.)	Value
Crude		
United States	8	$ 6,636
United Kingdom	30	34,650
South America	....	.....
Central America & Mexico	....	.....
European Countries	26	21,248
Other Countries	3	2,364
	67	$ 64,898
Milled		
United States	10,109	$1,890,025
United Kingdom	2,099	445,785
South America	1,064	199,682
Central America & Mexico	300	56,850
European Countries	11,545	2,452,907
Other Countries	5,864	975,628
	30,942	$6,020,877
Shorts		
United States	37,022	$1,876,925
United Kingdom	3,330	170,459
South America	694	43,143
Central America & Mexico	100	8,385
European Countries	2,809	159,402
Other Countries	1,131	81,325
	45,086	$2,339,639
Grand Total—Unmanufactured Asbestos:	76,095	$8,425,414

Manufactured Asbestos Goods:

Brake Lining	$ 35,772
Packing	.....
Other Materials	24,608
	$ 60,380

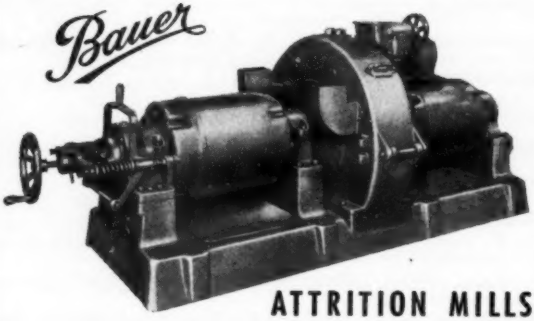
WILHELM BURGDORF

Importer of **Raw Asbestos**

P. O. Box 1131, BREMEN, GERMANY

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ATTRITION MILLS

We have the men and machines to serve the asbestos industry. Our double-revolving-disc attrition mills, for instance, are proving their superiority in grinding and upgrading asbestos fiber.

These mills reduce screenings and floats to minus 80 mesh.

They upgrade minus 65 mesh fiber.

They fluff fiber.

You are invited to ask for literature and complete information. Our engineering and research facilities are at your service.

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Export Agents: — M. Neumunz & Son, Inc., 90 West St., New York 6, N.Y.

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NEWS OF THE INDUSTRY

HAPPY BIRTHDAY

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

J. A. Marcotte, General Sales Manager, Asbestos Corporation Limited, Thetford Mines, Canada, November 22.

Daniel S. McGuire, President, Asbestos, Asphalt Insulation Inc., Chicago, Ill., November 23.

Alvin C. McCord, President, McCord Radiator & Mfg. Co., Detroit, Michigan, November 24.

E. J. O'Leary, President & Chief Executive Officer, The Ruberoid Co., New York City, November 24.

L. W. Dennis, President, Cape Asbestos (Canada) Ltd., Toronto, Canada, November 27.

Thomas C. Young, President, Pacific Roofing Co., Portland, Oregon, November 28.

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

Jack Ordway, Jr., Vice President, MacArthur Company, St. Paul, Minn., November 29.

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

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

Irving Kevelson, Ace Asbestos Mfg. Company, Jersey City, N. J., December 4.

D. A. McMillan, Vice President, Gulf States Insulation Company, Mobile, Ala., December 4.

P. M. Berry, Secretary & Treasurer, Standard Asbestos Mfg. Company, Cleveland, Ohio, December 8.

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

Kenneth MacLellan, Managing Director, George MacLellan & Co., Ltd., Glasgow, Scotland, December 8.

J. C. McKendry, President, Niagara Asbestos Co., Buffalo, N. Y., December 10.

D. W. Widmayer, President & Director in Charge of Sales, Keasbey & Mattison Co., Ambler, Pa., December 12.

John O. Camp, Vice President, Southern Friction Materials Co., Charlotte, N. C., December 13.

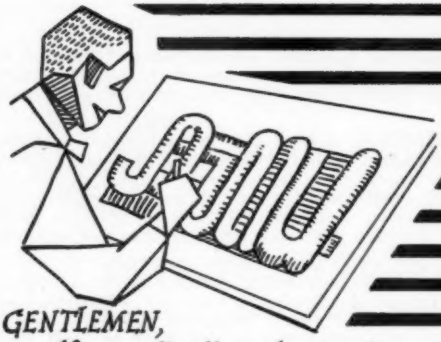
George P. Grossman, President, Asbestos Products Company, Inc., Cleveland, Ohio, December 13.

Fred Lee Johnston, Superintendent, Southern Friction Materials Co., Charlotte, N. C., December 13.

Joseph Poulin, President & General Manager, Asbestonos Corporation Ltd., Montreal, Canada, December 15.

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

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GENTLEMEN,

If we could tell you how to make a machine in which you could put 50c and pull out a dollar every time and all the time that would interest you. Sorry! We can't do that, but you can save as much money easily, quickly and all the time By changing to —



Thomas Hardman & Sons Ltd.
Fernhill Mills
Bury, England

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JOHNS-MANVILLE CORPORATION

New Appointments

In a realignment of executive responsibilities designed to provide more efficient service for customers of the Johns-Manville Friction Materials Department, five appointments have been announced.

The appointments are: *Reynolds M. Garrett*, Staff Manager for Automotive Equipment Friction Materials; *Stanley V. Lucas*, Staff Manager for Automotive Replacement Friction Materials; *Eugene F. Cramer*, Staff Manager for Equipment and Replacement Industrial Friction Materials; *William I. Graham*, Staff Engineer for the Friction Materials Department, and *John B. Painter*, Assistant Staff Engineer.

Mr. Garrett joined Johns-Manville in 1935 on the headquarters staff of the Automotive Department in New York and later named Staff Manager for Friction Materials in the Cleveland District. In 1953 he was transferred to New York as Staff Manager for Replacement Friction Materials.

Mr. Lukas joined J-M at the company's Waukegan, Illinois plant. There he served in accounting and engineering capacities until 1945 when he was transferred to New York headquarters of the Friction Materials Department.

Mr. Cramer served in the U. S. Air Force prior to joining J-M as a member of the Friction Materials Department in 1947. He was named Assistant Engineer for the Department in 1951 and appointed Staff Engineer in 1953.

Mr. Graham joined the Friction Materials Department of J-M in 1953 as Assistant Staff Engineer. He was previously associated with North American Aviation and the Atlantic Coast Line Railroad in industrial engineering capacities.

Mr. Painter joined J-M in 1954 as a Research Engineer for the Friction Materials section of the J-M Research and Engineering Center at Manville, N. J. He is a member of the American Chemical Society and the American Institute of Chemical Engineering.

JOHNS-MANVILLE CORPORATION

Third Quarter Report

Consolidated earnings of Johns-Manville Corporation and subsidiary companies for the third quarter of 1958 were $7,032,000, compared with $5,733,000 for the corresponding period last year. Sales for the third quarter of 1958 were $84,738,000 compared with $83,235,000 for the third quarter of 1957.

Earnings per share of common stock for the third quarter were 98 cents, compared with 81 cents for the same period last year.

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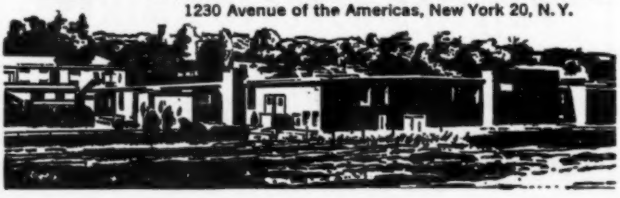
are manufactured in our own modern plant at Stark Mills, Hogansville, Ga. Spinning and weaving operations are closely controlled for maximum uniformity in asbestos yarns, fabrics and tapes. Specialties developed to meet customers' requirements.

US RUBBER

Write: Asbeston® Dept., Textile Division

UNITED STATES RUBBER COMPANY

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



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THE RUBEROID CO. TO ACQUIRE
The Funkhouser Company

The Ruberoid Co. plans to exchange shares of its capital stock for the assets and business of The Funkhouser Company, Hagerstown, Maryland, on or about December 1, 1958, E. J. O'Leary, president announced.

He declared that final terms of the acquisition, which have not yet been fully determined, are subject to approval of the board of directors of each company.

Funkhouser, founded in 1914, is one of the largest manufacturers of roofing granules, the mineral used to surface asphalt shingles. The company operates quarries and mines at Charmain, Pa., Delta, Pa.; Fairmount, Ga. and Hartwell, Ga. Throughout the United States and Canada sales are handled through R. J. Funkhouser & Co., Inc., a selling agent, the business and assets of which will also be acquired.

THE FLINTKOTE COMPANY
Third Quarter Report

The Flintkote Company reported third quarter sales of $35,273,650, a new record for the period, compared with $33,243,251 in the three months ended September 30, 1957. Net income rose 16 per cent to $2,184,582, equal after preferred dividend requirements to $1.13 per share on 1,803,529 average common shares outstanding, compared to $1,884,372, or $1.03 per share on 1,689,149 average common shares outstanding a year ago.

For the nine months ended Sept. 30, 1958, net sales aggregated $89,143,545 against $89,306,462 in the corresponding period a year ago. Net income was $3,673,885, or $1.82 per common share, compared with $4,717,091, or $2.54 per common share a year ago.

PROMOTION AT NATIONAL GYPSUM CO.

Leonard L. Hank has been promoted to Vice President of Operations for National Gypsum Company.

Mr. Hank will be in charge of National Gypsum's 38 plants, the Company's mines and quarries and its purchasing, transportation, engineering and plant industrial relations divisions.

Until his promotion, which is effective immediately, the 54-year-old executive has been vice president in charge of manufacturing.

Mr. Hank succeeds Wells F. Anderson who died September 21st.

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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THE TWELVE ESTIMATING TABLES

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

These tables have been found very useful by estimators in figuring areas, but since we have not for some time published the detailed list, it occurred to us that many would like to know exactly what the tables cover, and order them before the fall work begins. Following is the list.

Sq. Ft. Areas of Pipe Covering.

Mean Sq. Ft. Areas Standard Screwed Fittings.

Mean Area Standard Weight Flanged Fittings.

Standard Weight Flange Areas, Permanent Type.

Standard Weight Flange Areas, Removable Type.

Figuring Hair Felt, 1", 1½", 2".

Anti-Frost Insulation.

Cork Pipe Covering, Outside Area in Sq. Ft.

Ice Water Thick Cork Moulded Fittings Screwed, Outside Area in Sq. Ft.

Brine Thickness Cork Moulded Fittings, Screwed, Outside Area in Sq. Ft.

Special Thickness Cork Moulded Fittings, Screwed, Outside Area in Sq. Ft.

Dusts and Flue Perimeters.

The chart gives an easy way to figure Curved Cylindrical Surfaces.

The tables are printed on paper which will wear well under handling. Orders can be filled immediately upon receipt, write Asbestos 807 Western Savings Fund Bldg., Philadelphia 7, Pa.

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RUBEROID DIRECTOR PASSES AWAY

John J. Flood, Sr., a director of The Ruberoid Co., died October 25, 1958 at Fort Worth, Texas, where he had made his home in recent years.

Mr. Flood was a vice president of Ruberoid from 1952 to 1955 when he resigned because of ill health. He was elected to the board of Ruberoid in 1952 and continued to serve the company as a director and consultant until the time of his death.

He entered the asphalt roofing business in 1911 when he joined Vulcanite Roofing Corporation of Kansas City, Missouri, as assistant to the sales manager. In 1920 he helped to found the American Asphalt Roof Corporation and was vice president and director of that organization until it was acquired by Ruberoid in 1952.

ROCKBESTOS PRODUCTS CORPORATION
Appoints Chief Chemist

George Beuttner has been appointed chief chemist for Rockbestos Corporation, manufacturers of insulated electrical wires and cables.

Mr. Beuttner has been chief chemist of the United States Rubber Company's plant in Fort Wayne, Indiana, for the past ten years.

Before his assignment to Fort Wayne, he was a member of the research staff at U. S. Rubber Company's general laboratories in Passaic, N. J., and has also been associated with the Government's Munitions Plant at Des Moines, Iowa.

NATIONAL GYPSUM CO.
Third Quarter Report

National Gypsum Company announced that net sales and earnings were at all-time record levels during the past three months.

Consolidated third quarter net sales for National Gypsum and its subsidiary were $45,677,778 and net earnings were $5,305,990 equal to $1.24 a share.

National Gypsum set its previous quarterly highs in sales and earnings in 1956. In the first three months of that year net earnings totaled $4,577,694 and net sales the following quarter hit a high of $41,885,645.

CABLE ADDRESS: METABEST
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and
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GLOBE, ARIZONA

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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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UPDATED MINE, UPGRADED FIBRES ZOOM VENEZUELAN ASBESTOS OUTPUT

A just-completed modernization program at a South American asbestos mine has increased production ten-fold. The mine (the only asbestos producing site in South America of commercial importance) is Amveco C. A.'s property at Tinaquillo, Venezuela.

The deposit was discovered nearly 25 years ago and has been mined commercially for over 5 years, but this is the first large-scale effort to introduce modern, high-speed milling methods into the operation. The results have been impressive. The mine yielded about 1,500 tons of asbestos fibre before the changes in the mill were started; now it is producing at the rate of 15,000 tons a year.

Amveco credits some of this increase in output to a new method of liberating asbestos fibres from the rock matrix. Most customers prefer to buy asbestos in the crudy state (not opened) and separating fibres from rock without opening them is a delicate operation. First the long fibres (which bring the highest market price) are removed manually. These are a minor constituent, however, and the bulk of the asbestos fibres is short. The price of these short fibres is comparatively low but they are so abundant that mining them can be profitable — if an economical way to liberate them from the rock without destroying their crudy state can be found.

Ordinarily the rock that remains after the long fibres have been removed is reduced successively to lumps ranging in diameter from about 3 inches to about ⅜ inches. This loosens the short fibres from the rock, and then a screening process separates them out. Unfortunately, however, conventional crushing machinery destroys the desirable crudy quality of many of the shortest fibres and reduces their marketability.

To overcome this problem Amveco uses an Entoleter Impact Mill to extract asbestos from rocks smaller than ⅜ inches. This mill, designed by Safety Industries, Inc. (New Haven, Conn.), pulverizes the rock by means of centrifugal force and releases the asbestos fibre.

Paradoxically, the Entoleter Impact Mill has been

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Antony Gibbs & Co., Inc.

61 Broadway

New York 6, New York

Tel. Digby 4-6580



View of Kuruman Main Mill

ASBESTOS FIBRES

Chrysotiles, Blues, Amosites

Agent in the United States for

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

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used in the asbestos processing industry to open up crudy fibres—just what Amveco seeks to avoid. The difference is in the rotor speed of the mill; crudy is opened at 3,000 r.p.m., but left intact—although the rock is still crushed —if the mill is operated at about 1,000 r.p.m.

Safety Industries developed a special model Entoleter Impact Mill to meet Amveco's requirements. One of the major maintenance problems in asbestos milling stems from the abrasive action of the rock dust, which can put equipment out of service in a short time. Using special alloys and engineering features, Entoleter engineers designed a mill on which maintenance costs have been **negligible** during the first full year of operation. The Entoleter Mill can handle 30 tons of rock per hour, and liberates almost all the available fibre, with the exception of Group 7 which is extremely short fibre. The fibres come out of the mill relatively clean and the remaining dust can be easily screened, which was not the case with conventional impact mills.

An affiliate of World Commerce Corporation S. A., Amveco C. A. is the only industry in the Venezuelan coastal state of Cojedes. Two hundred local workers are employed in the asbestos mill.

CORRECTION: On page 54 of the October 1958 issue, a correction should be made in the news item, Keasbey & Mattison Company Announces Executive Changes. The second paragraph reading: Edward J. Buczkowski, formerly Director of Manufacturing, has been elected Vice President — Promotion, should be changed to read: Vice President — Production.

" Tropag "

Hamburg —:— Ballindamm 6

Importers since 1909 of

ASBESTOS-ORES-MINERALS

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

Overseas Sales Agents:

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

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

Metal Traders, Inc.
Tokyo, Japan

Atlanta of Bremen
(for W. Germany, Austria)

Ladislao Kohn,
Buenos Aires (for Argentina, Uruguay)

Agencies Kapel Ltda.
Santiago, Chile

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Torino, Italy

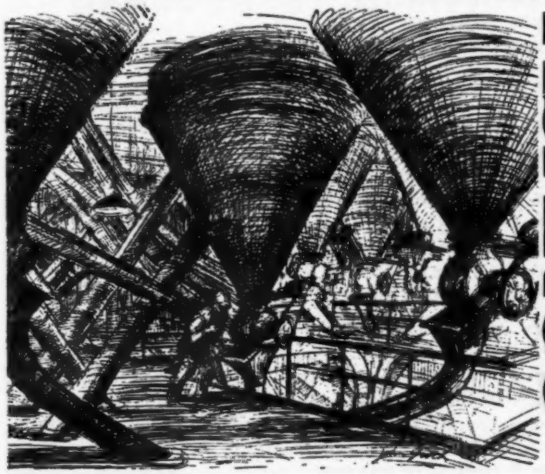
Mount Isa Mines Ltd.
Sydney, Australia

Holanda Colombia, S.A.
Barranquilla,
Colombia

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Paris, France

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ASARCO

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J-M APPOINTS NEW YORK REGIONAL MANAGER

Henry O. McElyea has been appointed New York Regional Manager of the Johns-Manville Construction Department.

Mr. McElyea succeeds *Edward A. Scherr*, who retires after a career of 46 years with the Company.

He began his career with J-M in 1937 as a Sales Engineer for the company's Construction Department at Indianapolis, Indiana. In 1947 he was transferred to St. Louis as Regional Manager and in 1951 was appointed Assistant Manager of the Construction Department at the company's New York City headquarters.

CURRENT RANGE OF PRICE

As of November 10, 1958

ARIZONA—	Per Ton of 2,000 lbs., f.o.b Globe, Arizona		
No. 1 Crude (soft)	$1,500.00	to	$2,000.00
No. 2 Crude (soft)	1,000.00	to	1,350.00
No. 3 Crude (soft)	400.00	to	675.00
Filter Fibre (soft)	250.00	to	475.00
No. 1 Crude (semi-soft)	1,200.00	to	1,500.00
No. 2 Crude (semi-soft)	900.00		
No. 3 Crude (semi-soft)	400.00		

CANADA—	Per Ton 2,000 lbs. f.o.b. Mine Canadian Currency		
Group No. 1 (Crude No. 1)	$1,475.00	to	$1,850.00
Group No. 2 (Crude No. 2); Crude Run-of-Mine and Sundry	790.00	to	1,200.00
Group No. 3 (Spinning Fibre)	370.00	to	650.00
Group No. 4 (Shingle Fibre)	180.00	to	245.00
Group No. 5 (Paper)	120.00	to	150.00
Group No. 6 (Waste, Stucco or Plaster)	.....		86.00
Group No. 7 (Refuse or Shorts)	40.00	to	80.00

VERMONT—Per ton of 2000 lbs. f.o.b. Hyde Park or Morrisville, Vt.			
Group No. 3 (Spinning & Fitlering	$ 370.00	to	$ 428.00
Group No. 4 (Shingle Fibre)	181.00	to	200.00
Group No. 5 (Paper Fibre)	120.00	to	152.00
Group No. 6 (Waste, Stucco or Plaster)			86.00
Group No. 7 (Refuse or Shorts)	41.00	to	75.00

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ASBESTOS FIBRE

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NEW APPOINTMENT AT K & M

Frederick L. Bickel has been named manager of Keasbey & Mattison Company's Investigation, Estimate and Control Department in the Engineering Division under *R. A. Schneider*, Director of Technical Development.

Working in cooperation with other company offices, the new department will be concerned with various engineering projects initiated at Keasbey & Mattison.

Mr. Bickel joined K & M in 1957 and most recently has been in charge of engineering for the Insulation Division.

ASBESTOS STOCK QUOTATIONS

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

		October 1958		
	Par	Low	High	Last
Amer. Br. Shoe (Com)	np	41½	44⅜	44¼
Armst. Ck. (Com)	1	30	32⅜	32⅛
Armst. Ck. (Pfd)	np	82½	84	83
Asbestos Corp. (Com)	np	31¾	34	33½
Carey (Com)	10	28½	36	34⅝
Cassiar Asb. Corp.	np	$7.85	$8.20	$8.10
Celotex (Com)	1	33½	34¼	33½
Celotex (Pfd)	20	18	18	18
Certainteed (Com)	1	12	13¼	12⅞
Fibreboard Paper Prod. (Com)	np	36⅜	40⅛	40⅛
Fibreboard Paper Prod. (Pfd)	100	135	134	134
Flintkote (Com)	5	48	52¼	51¾
Flintkote (Pfd)	np	88½	90	88½
Johns-Manville (Com)	5	43½	48⅞	48⅞
Natl. Gypsum (Com)	1	52¼	54⅞	54⅜
Natl. Gypsum (Pfd)	np	92½	92½	92½
Ray-Man (Com)	1	52½	60¾	58½
Ruberoid (Com)	1	37¼	39⅝	39⅝
Thermoid (Com)	1	12	13¼	12½
Thermoid (Pfd)	50	54⅞	55⅝	54⅞
Union Asb. & Rub. (Com)	5	8⅝	9¾	9⅜
United Asb. (Com)	1	$5.85	$7.75	$6.95
U.S. Gypsum (Com)	4	85	91	90⅛
U.S. Gypsum (Pfd)	100	155	157	155
U.S. Rubber (Com)	5	40⅛	44¾	44¾
U.S. Rubber (Pfd)	100	140½	144	142¾

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Exports from U. S. A.

(Figures by Bureau of Census)

Unmanufactured Asbestos:

	July 1958 Tons (2240 lbs.)	Value
To: Europe	251	$32,232
Canada	32	15,000
Other Countries	1	900
	284	$48,132

Manufactured Asbestos Goods:

		July 1958 Quantity	Value
Asbestos Cement & Pipe Covering	Lbs.	561,751	$ 72,087
Asbestos Textiles & Yarn	Lbs.	26,963	39,815
Asbestos Packings	Lbs.	170,459	173,126
Asbestos Clutch Facings	No.	167,454	132,978
Asb. Bk. Lng. (Mld. & S. Mld.)	Lin. Ft.	158,818	55,299
Asbestos Brake Lining, Other	Lbs.	283,910	244,175
Asbestos Construction Materials	Lbs.	3,413,359	291,441
Asbestos Manufactures—Others		.....	52,487
			$1,061,408

Imports of Asbestos by United Kingdom

Raw Materials

Tons 2,240 lbs.

	August 1958
From: Union of South Africa	1,558
Basutoland, Bechuanaland & Swaziland	349
Rhodesia & Nyasaland	1,945
Canada	5,543
Other Commonwealth Countries	308
Foreign Countries	158
	9,861

UNITED STATES RUBBER CO.

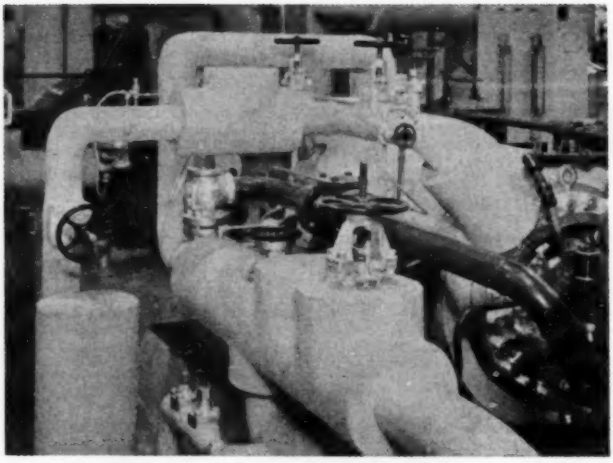
Third Quarter Report

United States Rubber Co. reported a net profit for the third quarter of 1958 of $5,538,903, equivalent to 74 cents a share of common stock. This compares with $4,842,218, equal to 62 cents a share, in the same quarter last year.

Net sales for the third quarter were $204,003,422, compared with $214,062,144 for the 1957 third quarter.

Net sales for the nine months were $607,104,417, compared with $665,360,840 for the same period 1957 period.

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

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

INSULATION GUIDE

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

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

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Publishers: File two copies of this Form with your postmaster.

STATEMENT REQUIRED BY THE ACT OF AUGUST 24, 1912, AS AMENDED BY THE ACTS OF MARCH 3, 1933, AND JULY 2, 1946 (Title 39, United States Code, Section 233) SHOWING THE OWNERSHIP, MANAGEMENT, AND CIRCULATION OF

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

at Philadelphia, Pa. (Name of post office and State where publication has second-class entry) for October 19 58

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	4807 Chester Ave., Phila. 43, Pa.
Managing editor	E. E. Cox	4807 Chester Ave., Phila. 43, Pa.
Business manager	E. E. Cox	4807 Chester Ave., Phila. 43, 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	Jenkintown Garden Apts., Jenkintown, Pa.

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
None	

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 from daily, weekly, semiweekly, and triweekly newspapers only.) _____

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

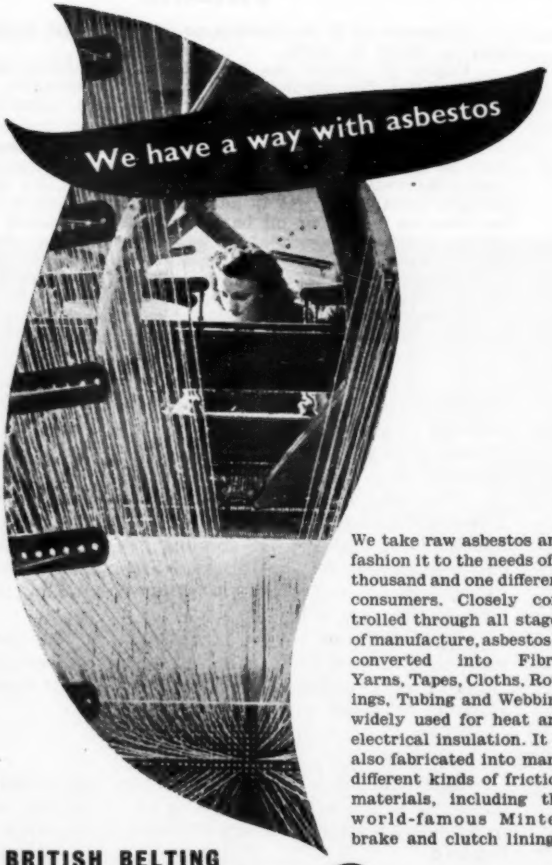
Sworn to and subscribed before me this 11th day of September, 19 58

[SEAL] Betty Demar
Notary Public

POD Form 3526 (Mar. 1955) 16—16720-7

(My commission expires Jan. 15, 19 59)

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We take raw asbestos and fashion it to the needs of a thousand and one different consumers. Closely controlled through all stages of manufacture, asbestos is converted into Fibre, Yarns, Tapes, Cloths, Rovings, Tubing and Webbing widely used for heat and electrical insulation. It is also fabricated into many different kinds of friction materials, including the world-famous Mintex brake and clutch linings.

BRITISH BELTING & ASBESTOS LTD.

Cleckheaton, Yorkshire, England

B B A

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PATENTS

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

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

Friction Material, No. 2,852,368. Granted on September 16, 1958 to R. E. Steck and J. F. Orzechowski (assignors to Raybestos-Manhattan, Inc., Passaic, N. J.). A friction material especially suitable for use in automotive transmission clutches or in other oil sprays or oil baths consists of a dried, wet felted porous resilient mix of 35-85% asbestos fibre blended with 10-50% wood particles, 1-4% reinforcing cellulose fibres, 1-4% of a sizing material, and up to 10% of a friction modifying agent. This composition is pulped and sheeted, and the sheets dried, impregnated with a volatile solvent solution of a heat-setting organic binder, air dried, and heat cured.

Important changes in fire safety standards are incorporated in a new and revised edition of the National Fire Codes just published by the National Fire Protection Association.

The six-volume 1958 edition is a compilation of the 170 standards developed by NFPA in the fields of flammable liquids and gases, combustible solids, dusts, chemicals and explosives, building construction and equipment, extinguishing equipment, electrical transportation and miscellaneous operations.

The National Fire Codes, seven dollars per volume, may be obtained from the Publications Department, National Fire Protection Association, 60 Batterymarch St., Boston 10, Mass.

Easy does it is the byword where industrial materials handling is concerned. And how to do it that way is told in a recent National Safety Council publication — "Easy Does It.'

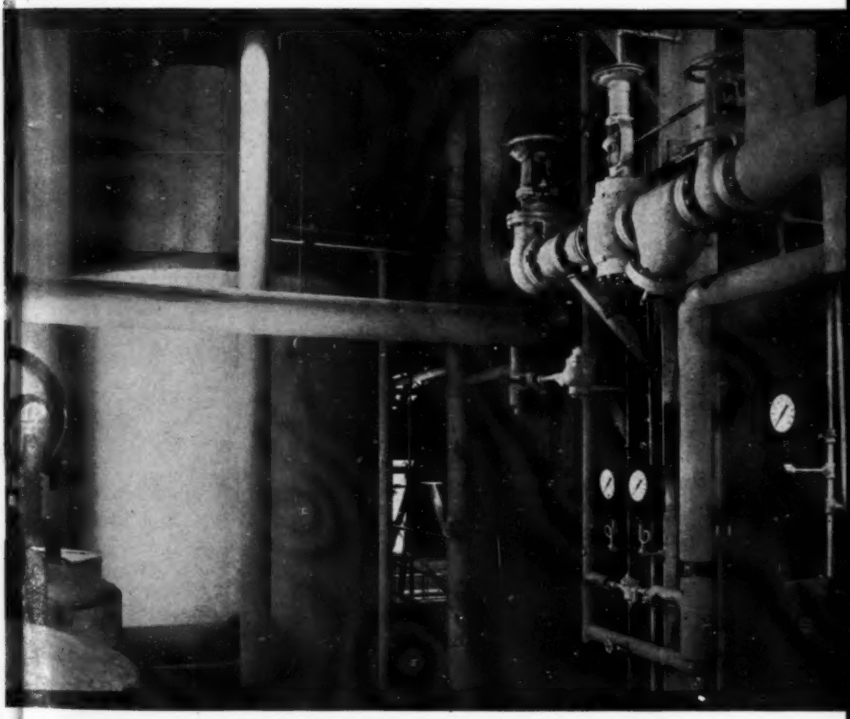
Descriptive literature about the pamphlet and information on quantity prices may be obtained from the National Safety Council, 425 N. Michigan Ave., Chicago 11, Ill.

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ONLY APPROVED CONTRACTORS INSTALL EHRET INSULATIONS

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

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



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

SAVE HEAT WITH EHRET INSULATIONS

EHRET MAGNESIA MANUFACTURING COMPANY

VALLEY FORGE, PENNSYLVANIA

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