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"ASBESTOS"

FOUNDED IN JULY 1919 AND PUBLISHED
MONTHLY SINCE THAT DATE
BY SECRETARIAL SERVICE
808 WESTERN SAVING FUND BLDG.
S. E. COR. BROAD & CHESTNUT STS.
PHILADELPHIA, 7, PENNSYLVANIA

Estate of C. J. STOVER, *Proprietor*

A. S. ROSSITER, *Editor* E. E. COX, *Circulation Manager*

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

Volume 31 SEPTEMBER 1949 Number 3

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ASBESTOS is indexed regularly by Engineering Index, Inc.

SUBSCRIPTION PRICE

United States - - - - - - $2.00 Per Year
Canada - $3.00 Per Year Foreign Countries - $3.00 Per Year
Back Copies - .35 Each Single Copies - (Current) .25 Each
(Payable in U. S. Funds)

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CHILDREN OF THIS ERA

We have a little neighbor—he will be two years old in December.

His parents are young people; the father served several years in the war (World War II).

At present, of course this little boy has no knowledge of economic conditions in this country, or of the dependence of foreign countries on our welfare. He doesn't know of the high cost of his food, of the high taxes his father has to pay. Social security at the moment means nothing to him. He doesn't know that one reason his mother pays such a high price for the eggs he enjoys at breakfast time is the result of government planning, by purchase of the surplus eggs produced. Nor does he realize the many other factors which affect his welfare.

BUT—he will grow up in that sort of atmosphere. He will accept without question all the advantages of the age—the convenience of the automobile, radio, air travel, the pleasures of television—none of them will be miracles to him because he has never known anything else. He has no background of depression, low prices, low wages, with which to compare present or future conditions. Very likely he will be able to drive an automobile at the age of 10 (already he loves to ride on his grandfather's lap with his hands on the steering wheel); possibly he will be able to drive an airplane at the age of 15.

That applies to all children under teen age at this time. It *must* affect their thinking and their reasoning in the future. The exorbitant costs of government will be looked upon as necessary and will therefore be accepted almost without question.

In planning, in looking toward the future, we must remember that our children and grandchildren will have an entirely different viewpoint from that of us and our contemporaries, and nothing in our experience will serve as a warning to the newer generation. They will have to learn the hard way, just as we did.

Some of us shake our heads and pity the coming gene-

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ration for the burden of debt which they, as a nation, will inherit. But we must remember that they will also inherit a higher standard of living, a new way of thinking, a newer viewpoint; and we believe that somehow they will conquer, and live to see a bigger, better America.

FIRE PREVENTION WEEK

Push Your Sales of Fireproof Materials

National Fire Prevention Week will be celebrated this year October 9th to 15th inclusive.

The importance of building with fire-safe roofing and siding materials is vividly demonstrated when fire strikes, and those interested in the manufacturing, selling or application of asbestos-cement building materials have a good opportunity to stress the importance of fire-protection and prevention by the use of such products, especially of roofing and siding.

About 50% of residential fires are caused by unsafe heating equipment, faulty chimneys, defective electrical appliances and *flying sparks and embers.*

There is a story (a true one) told of the destruction of three buildings on a farm by fire, but the house which was only 25 feet from the blaze, was saved because it was sided with asbestos-cement. The owner had applied the siding about twelve years before; his investment certainly paid big dividends when fire came along.

This is only one instance of the protection from fire by the use of asbestos products.

Fire Prevention Week is a real opportunity for the whole Asbestos Industry to stress its fireproof and fire resistant products.

Editor's Note: The kit of Fire Prevention Week material issued by the National Fire Protection Association, 60 Batterymarch St., Boston, 10, Mass., would be very useful in urging your townspeople to prevent fires. The various folders, posters, etc., can be obtained in quantity at nominal prices. Orders must be received by the N. F. P. A. before September 28th so it is necessary to act quickly.

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NOT MONOPOLY-MINDED

The above is the title of an editorial which appeared in the Wall Street Journal of issue August 23, 1949. It was such an excellent coverage of the subject of monopoly that we felt it would interest every business man, every executive, whether their firms were large or small. We therefore present it without further comment:

In these columns we have expressed from time to time our dislike for monopolies. But little as we like them we have still refused to believe that they are a pressing danger in this country; nor are they likely to be unless the government encourages them as it has encouraged John L. Lewis and as it has encouraged price fixing.

One reason for our attitude is that when Americans see a monopoly and finally recognize it for what it is they take effective steps, as they eventually will in the case of Mr. Lewis.

Another reason is that when Americans are placed in a position where by all precedents they are supposed to act like monopolists, they still refuse the role.

In yesterday's issue Mr. Bridge wrote of the research being carried on by the Bell Telephone System and the improvements which have grown out of that.

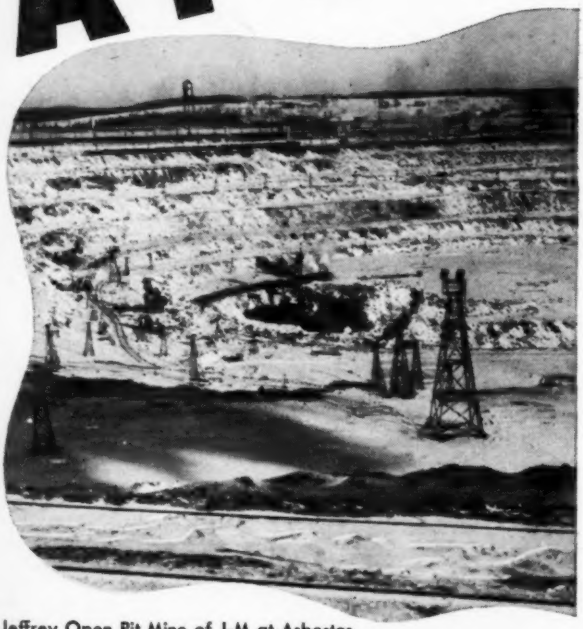
The Bell System is not supposed to act that way. It is a monopoly. By all the rules monopolies should be sitting in their chairs getting fat. A monopoly has control of the supply of a good or service and those who want it must come to the monopoly and pay the monopoly's price. Why strive?

But what does the Bell System do? Constantly it is trying to see how things could be made better and cheaper, how the telephone can be made more efficient and better looking and how one wire can be made to carry more messages.

Some ten years ago we hired a telephone. In those ten years everything has gone up in price, sometimes double and triple the figure of ten years ago. But until

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A★F★D



The Jeffrey Open Pit Mine of J-M at Asbestos, Quebec. Measures ½ mile in width, and 358 feet at deepest point.

ASBESTOS FIBRE DIVISION
Canadian Johns-Manville Limited
814 Sun Life Bldg. (Telephone: Marquette 2421) Montreal, P. Q., Canada

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recently that telephone cost us just the same as in 1939. Then a few cents were added to the monthly bill. If we wish to call long distance the toll is actually less than in 1939.

That is a queer way for a monopoly to act.

That is not the end of this unorthodox conduct by the Bell System. By all rules it should be around gobbling up all independent telephone companies. But there are some thousands of them in the country. The Bell System should be, according to our best monopoly chasers, sitting up nights plotting ways for the undoing of these independent companies.

Well, it happens that we also rent a phone from one of these small companies. In the dozen years since we had that phone, the charge has not been raised at all. The old hand-cranked instrument has been replaced by a handset. The manager of the company says he will soon have automatic dial operation. Of course he could not have done any of those things if it had not been for research by the Bell System.

We think that there ought to be anti-monopoly laws and we think that they are a restraining influence in the right place. If the need for their strengthening can be shown we would be for that too. But we think that the best safeguard against monopoly is that Americans are not monopoly-minded. They still compete when there is nothing to compete with.

AUTOMOBILE SALES

	July 1949
Passenger Cars	483,261
Motor Trucks	95,348
Motor Coaches	439
	579,048

June sales totaled 593,640 while July 1948 sales were 474,556

Total sales for the seven months (January to July inclusive of 1949 were 3,573,332. compared with 2,962,929 during the same period in 1948.

These figures cover only cars made in the United States. This data is supplied by the Automobile Manufacturers' Association of Detroit, Mich.

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BRAKE LININGS OF VARIOUS TYPES

And Their Manufacture

By R. T. Halstead, Manager, Friction Materials and Packings, Johns-Manville Research Center.

This second part of Dr. Halstead's article describes the Sheeter type, Dry Mix type and Millboard type, of Molded Brake Linings, while linings of other construction (not molded) will be the theme of the third article in the series.

3. Sheeter Type. Molded linings of this type are distinctive in that they are of a laminated construction which contributes noticeably to the physical strength of the product.

Sheeter type linings are invariably made with an elastomeric type of binder, e. g., rubber. If the elastomeric binder is eliminated and substitution of other binders is made, it proves impossible to fabricate the resultant stock into brake lining by the sheeter method. This fabricating operation involves the introduction of the soft solvated stock into the bite between two adjacent, rotating rolls, one of which is maintained hot and the other cold. A thin film of stock, ranging in thickness from 0.001″ to 0.002″, is formed and adheres to the hot roll. Subsequent rotations result in additional layers or laminations being deposited on the hot roll; as the thickness of the brake lining stock is built up, a ratchet mechanism acts to increase the distance between the adjacent rolls. In this way a sheet is gradually built up to the thickness required for its use as brake lining stock.

The fabricated sheet is normally cut into strips for use either as coil stock or as cut pieces of proper arc length for a given brake application. After drying, the sheeter stock is cured under the combined effects of heat and pressure to provide lining which is then finish-ground and otherwise machined to bring it into conformance with existing dimensional specifications.

There are linings in this category, available on the market today, which offer an outstanding combination of extremely low rate of wear and exceptional frictional stability.

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Carey
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Molded linings of the sheeter type are, as a class, relatively expensive to manufacture due to the method of fabrication.

4. Dry Mix Type. Friction materials of this type are manufactured from dry ingredients; this necessitates the use of a dry powdered binder which is interspersed by thoro-mechanical mixing thruout the mass of asbestos fibre and other dry ingredients comprising the formulation. Powdered thermal-setting resins, ground to pass a 200 mesh screen, are generally employed as a binder.

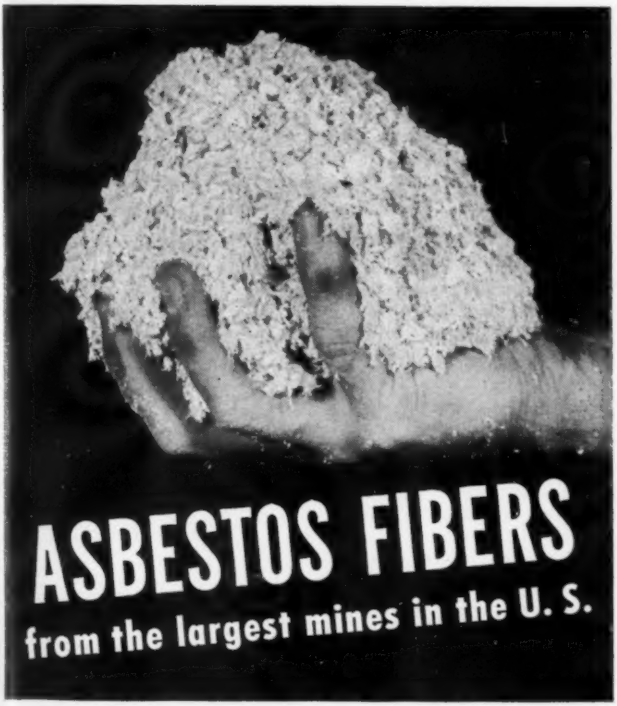
The elements of the dry mix process are basically so simple that this method of manufacture has many adherents in the industry. The procedure of weighing out a charge of the dry mix stock, introducing it into a suitable hot mold and curing under pressure loads ranging from 1000 to 3000 psi, constitutes a simple operation; however, the bulkiness of the charge is so great that relatively deep cavity curing molds must be employed, and this makes necessary the use of heavy, expensive molds. The bulk factor of such loose, uncured stock is frequently 5 or 6 times that of the cured product. Therefore, to minimize mold costs and provide lighter and smaller molds which can be more expeditiously handled, the practice of pre-forming the loose stock is widely followed, particularly in manufacturing friction materials of ½" thickness or less.

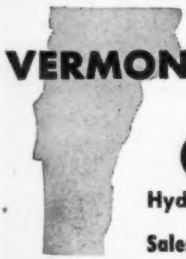
Dry mix type linings are among the most heat-stable friction materials in general use today. This type of stock is in particularly wide use in the manufacture of brake blocks for use in heavy duty service.

5. Millboard Type. Manufacture of this type of friction material involves the use of one of the oldest methods of making so-called molded linings. Millboard, consisting primarily of asbestos fibre, is made into sheet form in wet-process operations of a type suggestive in many ways of those practiced in the paper industry.

In the simplest type of operation, the millboard sheet of proper thickness is cut to provide over-size blanks of the desired cross-section. When completely dried, the blanks are immersed in a suitable impregnant and, when

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saturated, are then subjected to a series of baking operations which serve to indurate the material. The fully baked product is subsequently ground to reduce it to the required dimensions.

The impregnants employed in the manufacture of this type of product include the use of solutions of gilsonite or similar bitumens, of thermal-setting resins and drying oils either employed singly or in combination. The objective is to have an impregnant which (1) will readily penetrate the millboard structure, and (2) will provide the maximum amount of deposited impregnant in the millboard member after evaporation of all solvent. On this basis, inclusion of solvent in the impregnant is strictly limited since its presence, while helpful in regard to (1) is harmful with respect to maintaining the provisions of (2) above. Considerable ingenuity has been shown in the industry in devising suitable impregnants which have low viscosity, hence excellent penetrating qualities, yet which contain no volatile solvents added as extenders to the impregnating bath. As an example, the mobility and penetrating qualities of phenol or cresol have been used to extend more viscous additives in the impregnating bath; resinification of the phenol or cresol is then employed to set the phenolic constituent, thereby utilizing, without appreciable volatile loss, practically all of the impregnant initially absorbed.

Today millboard type friction materials are also prepared from millboard which also contains small particles of hard rubber-like compounds or other friction-modifying particles. These particles, provided they do not have too high a specific gravity, can be easily supported along with the fibre in the aqueous furnish normally employed in manufacturing the millboard sheet. If the particles are of high specific gravity, they may be incorporated as dry particles into the sheet by being fed by gravity, onto the forming roll of the millboard machine during the build-up of the sheet.

Basic Formulation of Molded Friction Materials.

In all of the previously mentioned types of molded

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materials asbestos fibre is generally the preponderant ingredient, bonded or held together by a suitable organic matrix. Frequently particles of either organic or metallic type are included as secondary additions to the fibre-binder complex; these particles are added for the purpose of enhancing the wear resistance and the frictional characteristics of the base formulation. These added particles or friction modifiers, as they are often called, cover a wide range of compositions; the metallic types frequently include such materials as brass, zinc and lead, whereas the organic types embody the use of specially processed resinous materials, also hard-cured rubber compounds complexly blended with various curative and compounding ingredients in such a manner as to provide a friction modifier which is relatively heat-stable at elevated temperatures. The friction modifier is generally added as a fully cured, granulated material to the basic brake lining stock. Also powdered coke, powdered coal and heat-treated bitumens have been successfully employed as modifiers.

In all cases of particle addition, the size of the friction particles is quite important. There appears in many cases to be an optimum size to the particles added, at which point the maximum benefit from the presence of the modifier particles is experienced relative to the wear and frictional qualities of the molded product.

The asbestos fibre normally employed in molded lining is chrysotile, ranging in length from those fibre classifications just short of the spinning grades to the very short fibres as typified by the 7-F-19 grade. It is noteworthy that the better fibres of shorter grade are in relatively great demand, due in part to a price advantage which accrues thru their use.

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A. S. T. M. COMMITTEE NOTES

The following reports were made at the annual meeting of the American Society for Testing Materials by the Committees in which asbestos materials have an interest:

Committee C-17 on Asbestos Cement Products. Initial specifications covering asbestos-cement products, four in number, were submitted to the Administrative Committee on Standards just previous to the Annual Meeting. These four specifications cover asbestos cement roofing shingles, siding shingles, flat sheets and corrugated sheets, respectively. Methods of test are included in the specifications. At its meeting the Committee approved the addition of significance of tests statements for the above specifications. A method of test on asbestos-cement pressure pipe was approved for incorporation into a specification on this material. It is the decision of the Committee that it will not take fasteners and accessories under consideration, such items not being considered as part of the material itself.

Committee D-13 on Textile Materials. New tentatives included specifications and tests for asbestos lap.

Committee C-20 on Acoustical Materials. This Committee was organized on May 3rd, 1949 at A. S. T. M. Headquarters with a very representative group of producers, consumers and general interest members present. The scope for the Committee reads as follows:

Study of the properties of those materials used to absorb air-borne sound, including the stimulation of research and the development of methods of tests, specifications and definitions of terms.

In setting up a working organization the committee voted to form initially the following subcommittees: Sound absorption, Fire resistance, Maintenance, Application, Other physical properties. Following are the permanent officers of the Committee. H. A. Leedy of the Armour Research Foundation is Chairman. C. M. Harris, Bell Telephone Laboratories, Vice Chairman. H. J. Sabine, The Celotex Corporation, Secretary.

Further reports will be made from time to time on the work of these Committees.

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ASBESTOS AND THE ASPHALT TILE INDUSTRY

Our June issue remarked that only after we had ordered a Kentile Asphalt Tile Floor for our new offices did we learn that Kentile contained a large percentage of asbestos. Since then we have done some research and have uncovered some interesting facts about Kentile and about the Asphalt Tile Industry in general.

In fact one of the fastest growing markets for asbestos is the asphalt tile industry. Most companies in the Industry use very little asphalt (and that only in the dark color tile) Kentile asphalt tile really contains no asphalt whatsoever. It would be technically more nearly correct to refer to Kentile as "resinated asbestos tile." However, the Federal Trade Commission prefers that the Industry call its product "asphalt" tile so that the public will not confuse it with other types of tile, such as ceramic.

Kentile is made with thermoplastic resins, inorganic pigments—and asbestos. Asbestos accounts for about 50% of its volume. The resins are synthetic, blended with a plasticizer to make them tough and flexible, and are technically known as "coumaron-indene" resins, or "cumars".

The inorganic pigments which give Kentile its wide variety of gay colors are derived from minerals, and are resistant to acids, alkalis and grease, as well as being lightfast.

The asbestos grades used are the shorter ones, 7R and 7M. The manufacturers of Kentile, The David E. Kennedy Company, in their sales promotion say "With material as tough as asbestos to give it body, little wonder that Kentile lasts indefinitely."

To emphasize this durability Kentile is now sold with a lifetime Home Owners' Guarantee. This Guarantee states that if Kentile wears out, or the colors wear off during the home owner's occupancy of his house he will receive a new floor free.

Asphalt Tile was born during World War I. At that

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ASBESTOS

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time factory floors and ship decks were being covered with a material known as "Mastic". Mastic consisted of asbestos fibre, bound together with asphalt which was diluted with enough solvent to make it sticky, but workable. Six or seven layers of mastic had to be laid, with time out for each layer to harden, to produce a durable thickness.

From that humble and not too promising beginning the asphalt tile industry has produced many startling changes. The first big improvement was the discovery of how to mix asbestos and asphalt, without a solvent, so that the material could be rolled out in sheets thick enough to lay a whole floor at one time. Later on these sheets were cut up into squares, from 4" x 4" to 24" x 24", to make installation easier and quicker.

Then followed years of costly research and experimentation to discover synthetic resins which could replace the black asphalt. This was necessary because, regardless of the increasing quantities of light pigments, used, the asphalt content of asphalt tile restricted the final colors to dark tans and browns.

The new synthetic resins which have been developed and used by the asphalt tile industry in recent years have produced two revolutionary changes:

1. Asphalt tile is now bright, gay, colorful. It can be made in light blues, light greens, light reds and even white.[1]

2. Asphalt tile is now about the toughest, most durable, longest wearing floor covering you can get.

The sale of asphalt tile has increased about 900% in the past ten years. It is now made by 12 major companies in 20 plants thruout the country. This amazing growth is two-dimensional in that the increased demand comes from both large industrial users and from the individual home owner.

For example: The Pentagon Building in Washing-

[1]The Kentile in the offices of "ASBESTOS" is the Greek Skyros pattern—light tan with brown and white streaks thru it, most attractive with the walnut furniture and pale green walls.

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ton, D. C., has 4,000,000 square feet of Kentile on its floors. The new General Electric's Electronic building in Syracuse has about 1,000,000 square feet of Kentile floors. Nine thousand homes in Levittown, Long Island, the largest single-unit building project in the country, have Kentile in every room.

In the other extreme, individual home owners from Maine to California are visiting their local retail stores to buy just 100, or 150, square feet. They will use these small purchases of Kentile to install a new floor, themselves, in their kitchen or bedroom, living room or basement.

In the beginning most residential installations were in the basement. The reason for this was that asphalt tile is the only flooring material which can be laid on concrete in direct contact with the earth. The inorganic materials in Kentile make it highly resistant to alkali found in concrete.

Home owners were looking for such material so they could dress up their basements into recreation rooms and put to use that heretofore unusable "third" of their homes.

From the basement Kentile spread to other rooms, kitchens and baths at first, and then bedrooms and living rooms. Housewives were discovering how easy it was to keep clean, how long it lasted, how it brightened up their homes.

The increased use of Kentile for commercial installations has probably been brought about mostly by the architects. They were quick to appreciate the possibilities of asphalt tile.

The Architectural Forum, in a national survey of architects made in 1947, asked this question; "Which of these floorings is the nearest approach to a universal all purpose flooring?" The list included all materials now commonly used for floors. The architects put asphalt tile at the top of the list with over 50% more votes than the flooring material which came in second, received.

Businessmen, particularly those responsible for

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QUALITY
QUANTITY
QUICK-SHIPMENTS
GUARANTEED

HAIR FELT

FOR

Low Temperature Insulation

Newark Hair Felt Co.

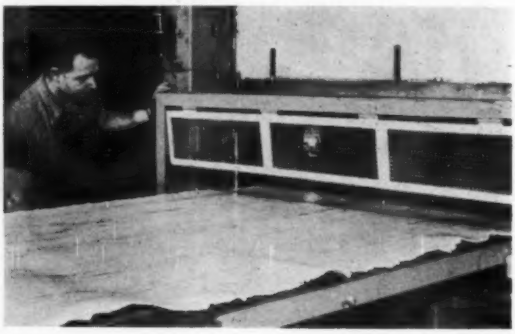
1000 Maple Avenue

Lansdale, Penna.

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large scale building, have been influenced by architects in selecting Kentile asphalt tile, but they have also been influenced by other factors. They have considered and found attractive, its original low cost, its low cost of maintenance, and its tough durability. They are also influenced by asphalt tile's safety factor. The U. S. Bureau of Standards states, "Under most conditions asphalt tile is safer to walk on than any other smooth surface material, provided it has no high gloss (waxed) finish."

In the Kennedy main plant in Brooklyn you see mass production at its best. In about the time it takes to make a short tour of the plant raw materials have been unloaded, processed into Kentile, packed into cartons, and loaded into trucks for shipment.



A hot sheet of Kentile being calendered to exact thickness of either 1/8" or 3/16" just before it is cooled and die-cut into squares.

However, even with this fast mass production no raw material is used nor is any Kentile shipped, which has not been laboratory tested and approved. The laboratory in effect, controls the Production Department.

The making of Kentile seems like a simple operation. Raw materials are blended together under heat and pressure in a big Banbury mixer. The blended material is

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then conveyed to the first rolling mill which forms it into a thick "blanket". Subsequent rolling mills calender the blanket to the final thickness of either 1/8" or 3/16", after which the material is cooled and cut into squares by precision dies. These squares are then packed in cartons and shipped.

That's the whole operation—and yet it isn't. It does not reveal the constant and minute inspection, the use of electric micrometers to check gauge, the weighing of ingredients—not by the pound but by the ounce, the constant invention and improvement of machines, the synchronization of innumerable moving operations which must all work together or not at all. It looks simple because it is done so efficiently—just as a Joe DiMaggio makes a difficult catch look easy.

We expect to enjoy our new Kentile floor, especially now that we know it contains asbestos, for a long time to come.

— . . .

The Association of Consulting Chemists and Chemical Engineers, has adopted a new policy of "open door meetings". Representatives of industry and non-member professional men will be welcome at the 22nd annual dinner meeting, October 25, 1949, 5.00 P. M., at the Shelburne Hotel, New York City. The guest speaker will be Robert A. Whitney, President of the National Federation of Sales Executives, New York on "Better Selling—The Catalyst of Our Economy.

Check for $6.50 to the order of Association of Consulting Chemists and Chemical Engineers, Inc., must be remitted with reservation and full name and address, including company affiliation, given. Reservations must be received before October 21st.

RUBBER-CEMENT
For Asbestos Packings
RUBBER & ASBESTOS CORP.
25 CORNELISON AVENUE
JERSEY CITY 4, N. J.

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AUTOMOBILE FACTS AND FIGURES 29th EDITION

This 80 page book of statistics on the Automobile Industry has just been published by the Automobile Manufacturers Association and may be obtained by writing them at New Center Building, Detroit 2, Michigan. Here are a few (a very few) of the highlights:

¶102,157,033 Motor Vehicles have been produced by the United States in 49 years beginning with 4,192 in 1900 and ending with 5,285,425 in 1948. The highest production was in 1929 when 5,358,420 were produced, the year 1948 being the second high. The *value* in 1929 was $3,413,148,206, while in 1948 it was $6,711,612,000, tops for the 49 year period.

¶A trend of the times—4,411 school buses were produced in 1931 (the first recorded figure); in 1948 the total was 20,513 school buses. Total revenue buses produced in 1931 was 2,706; in 1948 the figure is 11,203 but the high year in that category was 1947 when 20,085 revenue buses were made.

¶World production in 1948 was 6,436,058 motor vehicles; 5,285,425 in the United States and 1,150,633 in the rest of the world.

¶Motor Vehicle registrations in the United States in 1948 totaled 41,151,326, of which only 529,062 were tax-exempt publicly-owned vehicles.

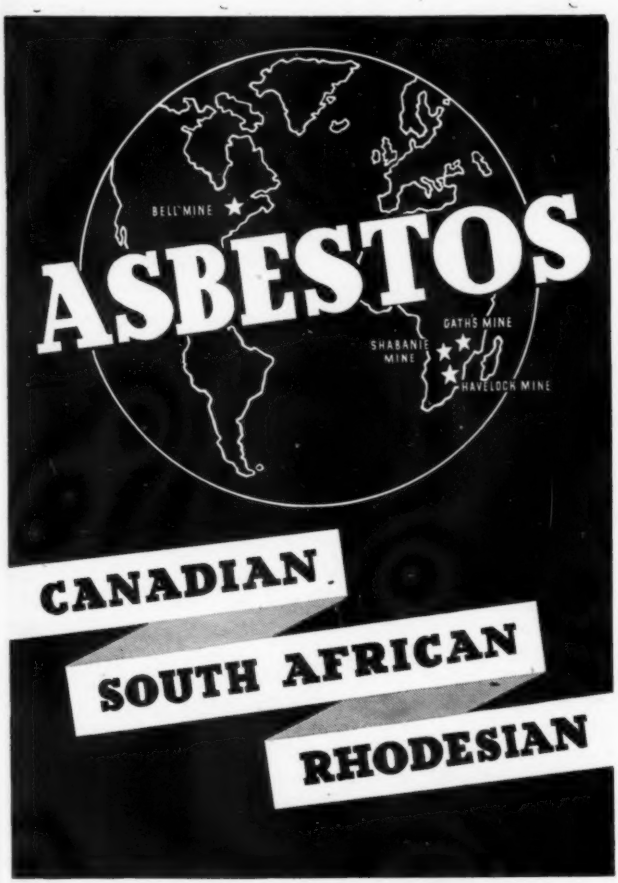
¶Seventy-eight per cent of the world's cars and 52% of the trucks are in the United States.

¶Special Motor Vehicle taxes (that is for highway purposes) in the United States in 1948 amounted to $3,442,211,000. In 1938 they were $1,550,159,000 and in 1928, $717,771,000.

¶In 1948 there were 32,000 "traffic" deaths, or 697 less than in 1947. Many years the total was much higher —39,643 in 1939 seems to be the highest on record.

A great many other tables (and graphs) are given in this rather fascinating compilation of automobile statistics.

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RAW ASBESTOS DEPARTMENT

Turner & Newall Limited

ROCHDALE • ENGLAND

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MARKET CONDITIONS

GENERAL BUSINESS

It is the general opinion that from here on general business will improve—in fact many lines already show improvement. Unemployment also shows improvement; new claims for unemployment compensation are decreasing; generally speaking demand for most commodities is on the upward trend. Prices on many things are lower than a year ago which will probably improve demand.

ASBESTOS—RAW MATERIAL

In spite of a return to nearly normal production in the Asbestos mining industry, the demand for certain grades of Asbestos Fibre remains at a high level.

Requirements for Shorts, Waste and Paper Fibre exceeds supply. Manufacturers in some cases are attempting to build up inventory in addition to meeting their production requirements and it is obvious that a pickup in production in some building material products has occurred. A tight position in the medium and shorter grades of fibre will obviously continue for some months.

ASBESTOS—MANUFACTURED GOODS

Asbestos Textiles. There has been definite indication of improvement in the last month on Asbestos Textiles. Cloth continues at a low ebb, but tape, roving and lap show a slight increase. Yarn remains somewhat uncertain altho there seems to be a definite increase of *inquiries* on yarn.

Brake Lining. The market in replacement friction material is leveling out. Replacement parts (all parts) are now about 15% off from 1948, but it is expected that the friction material market will be at the same level at the close of his year as it was at the close of 1948.

Equipment business is running considerably ahead and should maintain the pace for the balance of this year.

Asbestos Paper. Rehandlers' and equipment manufacturers' stocks are low and there will be very little improvement in this market until those buyers discontinue buying on a hand-to-mouth basis. When convinced that

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prices are not going down, they should, and probably will, begin to make larger purchases.

In the *Saturated Asbestos Paper* Market a good volume of business is expected in the next three months. Demand is definitely less than production at the present time.

Asbestos Millboard. The conditions in the Millboard market are about the same as in Asbestos Paper. As stocks are low, buyers will soon find that they must stock up and no doubt will do so when they no longer fear decreases in price. More activity is noted in the equipment field.

Insulation. High Pressure. "Orders are being placed at the lowest rate in years" says one manufacturer, "with rehandlers ordering only what they need to fill current jobs." Prices, however, are firm, and when purchasers are convinced that there will be no price break, it is believed that demand will increase.

Competition is quite keen in the contract end of the insulation business. A substantial improvement is looked for later on in the fall, which will probably carry on to the end of the current year.

Insulation. Low Pressure. There should be some pick-up in business this fall. Inventories are depleted and jobbers will probably place larger orders when they recognize that high cost of manufacture precludes price reduction. Prices remain firm.

Asbestos-Cement Products. Demand for all kinds of asbestos-cement products continues high and this should remain the case until seasonal decreases occur. Manufacturers report that they have large backlogs of orders for Shingles, Siding and Corrugated Sheets.

As to pipes, the demand for all types of water and sewer pipe, including asbestos-cement, has dropped off and backlogs are rapidly disappearing. Prices have softened, particularly during the past three months.

These comments have been made by men in close touch with the various asbestos products markets. All comments are welcome.

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ASBESTOS BOARD AS SIDING

There is a new technique in residential siding—large asbestos cement boards used as a siding material.

The large asbestos boards are mostly used for interior walls or utility purposes. They were applied as exterior siding for reasons of economy and design.

The house depicted was privately built by a member of the faculty at the University of Illinois in Urbana. Full 4x8 boards were applied vertically; the vertical joints were concealed under wood battens and additional battens were



Asbestos Board as Siding, applied vertically—unique.

Photo courtesy Asbestos Cement Products Assn.

placed on 16 inch centers to complete the decorative effect. Asbestos board, cut to fit was also used in an 87 unit economy housing project in Columbia, S. C.

Another method of using asbestos board for siding was employed by the Small Homes Council for the University, on a house of the industry-engineered type built for various experimental purposes. In this case the larger boards were cut in half lengthwise to make panels two feet wide and eight feet long. The panels then were applied in clapboard style with an exposure of 19½ inches to the weather, a strip of lath being placed under the bottom of each course to deepen the shadow line.

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PHILLIPS ASBESTOS MINES

Producers of

CRUDES

and

Fiberized Asbestos

The World's Finest Fibre



DRAWER 71 **GLOBE, ARIZONA**

Mines and Mills in Gila Co., Arizona

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Canada

(Department of Mines, Province of Quebec)

Production for June 1949 ..... 29,118 tons (2000 lbs.)
Compared with June 1948 ..... 53,110 tons (2000 lbs.)

By Grades—All tons 2000 lbs.

	1st Half 1949	1st Half 1948
Crudes	205 tons	378 tons
Fibres	49,075 tons	111,010 tons
Shorts	105,344 tons	222,845 tons
	154,624 tons	334,233 tons

Africa (Swaziland)

Production for May 1949 ..... 2,850 tons (2000) lbs.)
Production for June 1949 ..... 2.850 tons (2000 lbs.)

Africa (Rhodesia)

(Published by Rhodesia Chamber of Mines)

Tons—2000 lbs.

Production for April 1949 ..... 6,497.62 tons
Valued at £323,473
Production for May 1949 ..... 6,880.60 tons
Valued at £342,277

. . . —

Builders' supplies long a staple branch of Yugoslav exports in the European market, will be offered in increased variety at the nation's annual Zagreb International Fair, to be held from September 17th thru October 2nd. Wood products, cement, asbestos-cement tiles and pipes, decoration stone and processed marble will be offered to American buying representatives as well as to established European clients. Further information about the fair is available at the office of the Commercial Attache of the Yugoslav Embassy, 1025 Vermont Ave., N. W., Washington 5, D. C.

— . . .

Americans have more timesaving devices and less time than any other group of people in the world.—Duncan Caldwell.

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LIGHT DENSITY TYPE
PABCO
PRECISION MOLDED
85% MAGNESIA INSULATION
"THE DEPENDABLE STANDARD — MODERNIZED"
REG. U. S. PAT. OFF.
U. S. Patent Nos. 2,131,374 — 2,209,752 — 2,209,753 — 2,209,754
PIPE COVERING MADE IN SECTIONAL FORM
UP TO AND INCLUDING 18-INCH PIPE SIZE
COMPLETE RANGE OF SIZES AND THICKNESSES
IN BLOCKS AND PIPE COVERING
THE PARAFFINE COMPANIES, INC., Insulation Division
(Formerly Plant Rubber & Asbestos Works)
475 Brannan Street, San Francisco 19, California • Engineering Service Units In Principal Cities
PABCO

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Imports into U. S. A.

(Figures by Bureau of Census)

Unmanufactured Asbestos—By Countries

	May 1949 Tons (2240 lbs.)
From Canada	17,214
S. Rhodesia	759
U. of S. Africa	1,094
Mozambique	1,144
	20,211
Valued at	*$1,545,459*

By Grades:

Crude No. 1 Chrysotile	
S. Rhodesia	89
Crude No 2. Chrysotile	
S. Rhodesia	173
Crude—Other—Chrysotile	
S. Rhodesia	497
U. of S. Africa	293
Crude—Blue	
U. of S. Africa	136
Crude—Amosite	
U. of S. Africa	665
Mozambique	1,144
Textile Fibres—Chrysotile, Canada	319
Shingle Fibres—Chrysotile, Canada	3,863
Paper Fibres—Chrysotile, Canada	901
Fibres—Short Grades—Chrysotile, Canada	12,131
	20,211

Manufactured Asbestos Goods:

	May 1949 Quantity (Lbs.)	Value
Asbestos Packing—Fabric		
United Kingdom	1,173	$ 1,096
Asbestos Packing—Not Fabric		
United Kingdom	2,145	1,439
Asbestos Woven Fabrics—Other		
United Kingdom	1,402	1,262
Asbestos Brake Lining—Molded		
Canada	324	232

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JOHNSON'S COMPANY LTD.

ESTABLISHED IN 1875

Head Office

Thetford Mines, P. Q. Canada

Mines

Thetford Mines, Quebec
Black Lake, Quebec

Producers of All Grades of

RAW ASBESTOS

REPRESENTATIVES

GREAT BRITAIN ..... A. A. BRAZIER & CO.
"Avenue Lodge"
65a Bounds Green Road,
LONDON, N. 22, England.

CHICAGO 4, ILL. ..... GRANT WILSON, INC.
141 West Jackson Boulevard

NEW YORK, N. Y. ..... CONNELL ASBESTOS MFG. CO.
117 Martense Street,
Brooklyn, 26, New York

SAN FRANCISCO, CALIF. ..... LIPPINCOTT CO., INC.
461 Market Street

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Imports Continued
Manufactured Asbestos Goods:

	May 1949 Quantity (Lbs.)	Value
Asbestos Cement Products—Not Impreg.		
Canada	112,753	4,702
Japan	6,184	258
Mexico	366,624	22,488
Asbestos Manufactures—Other		
Canada	....	34
United Kingdom	....	133
	490,605	$31,644

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

Unmanufactured Asbestos

	May 1949 Tons (2240 lbs.)	Value
To Canada	26	$ 6,656
Mexico	139	39,640
Austria	5	3,061
Belgium	10	569
France	271	18,171
Germany	446	41,127
Portugal	31	5,695
Sweden	36	1,800
United Kingdom	91	13,157
India	14	5,002
Japan	5	5,225
Belgium Congo	23	6,506
Siam	5	720
Other Countries	..	336
	1,102	$147,665

Manufactured Asbestos Goods:

	May 1949 Quantity	Value
Asbestos Pipe Covg. & Cement ..... Lbs.	980,111	$116,638
Asbestos Textiles and Yarn ..... Lbs.	48,595	35,190
Asbestos Packing ..... Lbs	164,226	138,161
Asbestos Brake Lng. (Mld.&S.Mld.) Lbs.	252,057	229,177
Asbestos Brake Lng. (Woven) ..... L. Ft.	63,207	47,641
Asbestos Clutch Facings ..... No.	85,826	48,677
Asbestos Brake Blocks ..... Lbs.	37,084	26,831
Asbestos Construction Materials ..... Lbs.	2,601,272	130,404
Asbestos Manufactures—Other	....	35,837
		$808,556

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SMITH & KANZLER CORPORATION

MANUFACTURERS OF

ASBESTOS PAPER

AND

LOW PRESSURE INSULATIONS

ESTABLISHED 1920

LINDEN, NEW JERSEY

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Exports from Canada
(Published by Dominion Bureau of Statistics)

Unmanufactured Asbestos

	Year 1948 Tons	Value
Crude		
United States	644	$363,924
United Kingdom	70	66,425
Australia	....	....
S. America	....	....
European Countries	158	126,778
Other Countries	....	....
	872	$557,127
Milled Fibres		
United States	168,211	$17,089,931
United Kingdom	24,365	2,716,452
Australia	6,726	711,091
S. America	10,129	1,415,576
European Countries	20,109	2,748,749
Other Countries	7,537	870,455
	237,077	$25,552,254
Waste, Refuse, Shorts		
United States	430.894	$14,529,902
United Kingdom	13,799	478,540
Australia	730	19,861
S. America	190	8,565
European Countries	6,510	239,071
Other Countries	370	13,736
	452,493	$15,289,675
Grand Total		
All Unmanufactured Asbestos	690,442	$41,399,056

Manufactured Asbestos

	Year 1948—Value
Brake Lining and Facings	$261,477
Packings	18,234
Other Manufactures	300.488
	$580,199

COMPLETE PLANTS
for making PRESSURE PIPES and CORRUGATED SHEETS
Plants designed, equipped and started. Short deliveries.
Our Engineers have had thirty years' experience in making Pipes and Asbestos-Cement sheets.
DURITE TECNICA - Via Cavana 24, TRIESTE, ITALY
Cable address: Durite - Trieste

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ASBESTOS FIBRE SHINGLE GRADES

A NEW MODERN ASBESTOS PLANT WITH REVOLUTIONARY EQUIPMENT

Your inquiries are invited.

•

ASBESTOS FIBRES, INC.

Preparation Plant:

33 AVENUE P, NEWARK, N. J.

Main Office:

56 CRITTENDEN ST., NEWARK, N. J.

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NEWS OF THE INDUSTRY

BIRTHDAYS

W. N. Bolster, President and Treasurer, General Insulation Co., Cambridge, Mass., September 20.

J. W. Ledeboer, Second Vice President, Keasbey & Mattison Co., Ambler, Pa., September 20.

W. C. Dodge, Jr., Advertising Manager, Keasbey & Mattison Co., Ambler, Pa., September 21.

C. Stanley Morgan, Detroit, Mich., September 25.

R. H. Temple, Secretary, Thermoid Co., Trenton, N. J., September 25.

E. R. Teubner, Jr., President and Treasurer, Philadelphia Asbestos Co., Philadelphia, Pa., September 26.

O. H. Cilley, Vice President, U. S. Asbestos Division, Manheim, Pa., September 27.

Harold R. Berlin, Vice President, Johns-Manville Sales Corporation, New York City, September 28.

W. H. Fehrs, Vice President, Union Asbestos & Rubber Co., Cicero, Ill., September 28.

J. M. High, The Ruberoid Co., New York City, September 28.

William B. Brown, Partner, The Insulation Co., Hartford, Conn., September 29.

Frank L. Sowka, Treasurer, Standard Asbestos Mfg. Co., Chicago, Ill., October 1.

W. W. Dunkin, Treasurer, Southern Friction Materials Co., Charlotte, N. C., October 5.

C. L. Moorman, Vice President, Union Asbestos & Rubber Co., Chicago, Ill., October 6.

Harry E. Smith, Vice President, Raybestos-Manhattan, Inc., Passaic, N. J., October 8.

Russell E. Crawford, Secretary, Ehret Magnesia Mfg. Co., Valley Forge, Pa., October 9.

P. C. Rowe, Executive Vice President and Director, The Flintkote Co., New York City, October 9.

John H. Victor, President, Victor Mfg. & Gasket Co., Chicago, Ill., October 9.

A. L. Penhale, President and Managing Director, Asbestos Corporation Ltd., Thetford Mines, P. Q., Canada, October 11.

R. Tomlinson, President, Pacific Asbestos Supply Co., Portland, Ore., October 12.

H. R. Barrett, Vice President and Controller, Philip Carey Mfg. Co., Lockland, Cincinnati, Ohio, October 13.

W. W. F. Shepherd, Chairman of the Board of Keasbey & Mattison Co., of Ambler, Pa.—residing in England, October 13.

W. M. Paxton, Sales Manager Packing Department, Raybestos Division, Bridgeport, Conn., October 14.

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• BLUE ASBESTOS

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

MILLBOARD **YARNS**
ROVINGS **POWDER** **CLOTHS**
PROCESSED FIBRES

Unexcelled for use in
ASBESTOS CEMENT PIPES

• AMOSITE ASBESTOS

This fibre owing to its great length and bulk is unrivalled for use as an insulating medium in:

Asbestos mattress filler
85% Magnesia insulation

The CAPE ASBESTOS CO. Limited

Morley House, 28-30 Holborn Viaduct, London, E.C.1.
FACTORY, BARKING, ESSEX

United States Sales Agent:
ARNOLD W. KOEHLER
415 LEXINGTON AVE. **NEW YORK CITY**
TELEPHONE—VANDERBILT 6-1477

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Thomas D. Stone, President, Stone Industrial Equipment Co., Springfield, Mass., October 14.

R. H. Shainwald, Executive Vice President, The Paraffine Companies, Inc., San Francisco, Calif., October 15.

David E. Kelley, President, Kelley Asbestos Products Co., Kansas City, Mo., October 16.

Wm. F. Reed, President and Treasurer, Asbestos Distributors, Inc., Port Chester, N. Y., October 17.

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

FRICTION MATERIALS STANDARDS INSTITUTE, INC. Organized

The Friction Materials Standards Institute, Inc., has been organized under the Membership Corporations Law of the State of New York, for the purpose of continuing the publication of the Data Book, formerly published by the Brake Lining Manufacturers Association, now dissolved.

The charter members of the new corporation are: Fibre and Metal Products, Inc., Gatke Corporation, Grizzly Manufacturing Company, Lasco Brake Products Corporation, Ltd., Marshall-Eclipse Division of Bendix Aviation Corporation, Molded Materials Division of Carlisle Corporation, Raybestos-Manhattan, Inc., Russell Manufacturing Company, Scandinavia Belting Company, Southern Friction Materials Co., The S. K. Wellman Co., World Bestos Corporation.

The Officers of the new organization are: President, Amor P. Smith of Russell Manufacturing Co.; Vice-President, Thomas L. Gatke of Gatke Corporation; Treasurer, William H. Dunn of Raybestos-Manhattan, Inc.; Secretary, Harriet G. Duschek.

The Directors are Joseph G. Brown of Grizzly Manufacturing Co., Amor P. Smith, Vincent A. Spina of Scandinavia Belting Co., Frank Miller of Raybestos-Manhattan, Inc., Frederic Weyburne of Marshall-Eclipse Division, George E. Ritter of Carlisle Corp., and Thomas L. Gatke.

The Institute will render technical assistance thru the publication of data relating to detailed specifications of brakes and clutches, and by supplying engineering information as to sizes, types and drilling patterns where required by brake linings and clutch facings as furnished by car, implement, brake and clutch manufacturers, the information to be supplied in the form of blue print specifications and thru the publication of the data book and special bulletins.

COVIL INSULATING CO. MOVES

The Covil Insulating Company of Greenville, South Carolina announces the removal of its office and warehouse to 201 Gates Street. Their new mail address is Box 19, Branwood Station, Greenville. Their telephone number remains as formerly Greenville 2-4901.

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ASBESTONE
CORPORATION

Manufacturers
Asbestos-Cement
Building Products

●

CORRUGATED SHEETS
FLAT SHEETS
ROOFING SHINGLES
SIDING SHINGLES

●

Factory and Sales Office

5300 TCHOUPITOULAS STREET
NEW ORLEANS 15, LA.

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ROBERT W. STEELE DIES SUDDENLY

Robert Wilson Steele, Chairman of the Board of Directors of Asbestos Corporation Limited, died suddenly at his summer home in Georgeville, Que., on August 13th. With his passing the Asbestos Industry has lost a man whose wise counsel and warm friendship were highly valued.



Robert W. Steele

Mr. Steele was born in Orangeville, Ont., in 1888, and received his education there. He joined the staff of the Dominion Securities Corporation in 1904 and rose rapidly becoming manager of the Company's Montreal office in 1915. He was appointed Vice President and in 1936 resigned to become President and Managing Director of Asbestos Corporation Limited, which position he held until last year when he became Chairman of the Board.

In addition to his position with the Asbestos Corporation Limited, Mr. Steele was actively associated with many other companies but ill-health forced his retirement from participation in many of these during the past few years. At the time of his death, he was Vice President of the Crown Trust Company and a Director of the Guardian Insurance Company of Canada and Woods Manufacturing Company Ltd.

Mr. Steele was very active in social and philanthropic work and was governor of several hospitals in Montreal.

THERMOID COMPANY PURCHASES PLANE

Thermoid Co. of Trenton, N. J., has recently purchased a Beechcraft Bonanza plane for expediting the transportation of key company executives, sales and maintenance personnel. The plane is based at the Robbinsville Airport in Trenton, and all who have used it, are enthusiastic because it permits transportation at odd hours and at their convenience.

U. S. GYPSUM CO.

President Keady Resigns

William L. Keady, President of U. S. Gypsum Co., resigned because of differences with Sewell L. Avery, Chairman. Mr. Keady said Mr. Avery had decided to re-enter the active management of the company. Mr. Avery is also chairman of Montgomery Ward & Co.

PARAFFINE COMPANIES INC. DECLARES DIVIDENDS

Regular quarterly dividend of $1.00 per share on the 4% Cumulative Convertible Preferred stock has been declared to stockholders of record October 1, payable October 15th. On the Common stock, dividend of 30c per share has been declared, payable September 27, to stockholders of record September 8th.

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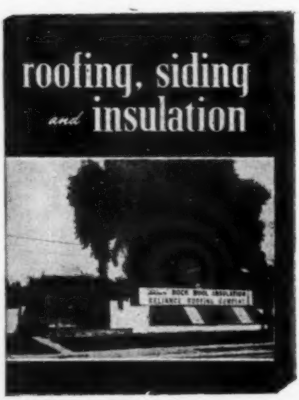
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ACME ASBESTOS CO.
INTERESTED IN NEW ASBESTOS MINE

The Acme Asbestos Co., of Vancouver, B. C., manufacturer of fireproof building materials, has acquired an option on and is proceeding with the development of 16 mineral claims on Sproat Mountain, four miles north of Arrowhead in British Columbia, according to the Canadian Mining Journal.

It is reported that two tunnels have been driven and eight large pits have been dug. Dr. Victor Dolmage, consulting geologist, describes the occurrence as a large body of peridotite extensively altered to serpentine with a lot of cross-fibre and slip-fibre chrysotile.

RUSSELL ACQUIRES
Howard Asbestos Co.

Announcement has been made of the purchase of the Howard Asbestos Co. of Northfield, Vt., by the Russell Manufacturing Co. of Middletown, Conn. This plant was at one time owned by J. Franklin Burke Co. who operated it during the war.

All common stock of the Howard Company has been acquired by the Russell Company, which took over the active management of the plant on September 5th. The plant employs about fifty persons—no changes in factory management are contemplated.

Products of the asbestos mill are high quality asbestos yarns. In the past the Russell Manufacturing Company purchased all of its asbestos yarns from outside sources. The acquisition of the Northfield plant will give the Company an auxiliary supply of asbestos yarn of the best quality for a goodly part of its requirements. The remainder will be procured, as before, from outside sources.

In future the Northfield plant will be known by the name of Russell Asbestos Corporation and will be operated as a wholly-owned subsidiary of the Russell Manufacturing Co. This is one of the developments in the company's plan of expansion.

U. S. RUBBER CO.
Appoints S. H. Sherman

S. H. Sherman has been appointed development manager for the Textile Division of the United States Rubber Company, with headquarters at Hogansville, Ga.

Mr. Sherman is a native of Providence, R. I., and attended New Bedford Textile School, joining the U. S. Rubber Company in 1938 as technical superintendent at Winnsboro Mills. He was transferred to Hogansville in 1940 and placed in charge of processing development, followed by his promotion in 1943 as assistant manager of the textile division's development department. He will continue to be located at Hogansville until the completion of the company's new textile laboratory at Winnsboro, S. C., when he will make his headquarters there.

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CANADIAN JOHNS-MANVILLE ADDS MOLDED BRAKE LINING

The Canadian Johns-Manville Co., Ltd., is expanding its manufacturing plant at Asbestos, Quebec, and has added molded brake lining to its line. Woven brake linings have been made at their plant at Asbestos for a number of years.

TRADE MARKS

The National Trade-Mark Company, Munsey Building, Washington, D. C. has supplied the following information on trade marks pertaining to asbestos goods which have been recently passed for publication by the U. S. Patent Office. The firm mentioned above will conduct advance search without charge on trade-marks our readers contemplate adopting.

Kensert. Serial No. 541,425. David E. Kennedy, Inc., Brooklyn, N. Y. Filed Nov. 17, 1947. For floor tiles composed of Asbestos thermoplastic resins, plasticizers, inert fillers, and pigments. Published July 12, 1949.

Kenbase. Serial No. 541,426. David E. Kennedy, Inc., Brooklyn, N. Y. Filed Nov. 17, 1947. For coved set-on type of wall base composed of asbestos, thermoplastic resins, plasticizers, inert fillers and pigments. Published July 12, 1949.

BUILDING

Expenditures authorized for building and engineering works by government agencies continued upward in July with a contract volume of $410,352,000 in the thirty seven states east of the Rocky Mountains, according to report by F. W. Dodge Corporation. Public-account contracts represented 43 per cent of all awards reported in July. The overall total of private and public account contracts awarded in July was $943,560,000.

Last month's mounting volume of public-account work continued the trend characteristic within the building industry this year. July awards by public agencies reflected a 9 per cent gain over June and a 23 per cent increase over July of last year.

Public-account residential awards in the thirty-seven states in July amounted to $33,404,000. This total was 10 per cent of all residential awards reported during the month. The July public-account residential contract total was off 13 per cent from June but up 174 per cent over July of last year. The cumulative total of public-account residential awards for the first seven months was $211,065,000 against $65,536,000 in the corresponding period of last year.

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THE TWELVE ESTIMATING TABLES

Our book list (see page 50) mentions Twelve Estimating Tables, with Chart, convenient in figuring flange fittings and other areas, $1.00 per set.

These tables have been found very useful by estimators in figuring areas, and very likely 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 Molded Fittings, Screwed, Outside Area in S. Ft.
Special Thickness Cork Moulded Fittings, Screwed, Outside Area in Sq. Ft.
Ducts 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.

• • • —

The National Safety Congress and Exposition will be held in Chicago from October 24th to 28th inclusive. An attendance of nearly 12,000 is expected. For further information contact the National Safety Council, 20 N. Wacker Drive, Chicago 6, Ill.

FOR SALE

700 Sheets of ¼" asbestos millboard 42" x 48", packed original mill containers, 8 sheets to carton. Price $1.14 per sheet fob Philadelphia, Write Progress Mfg. Co., Inc., 1401 Germantown Ave., Phila., 22, Pa.

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PATENTS

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

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

Device for Bonding Brake Linings to Brake Shoes. No. 2,478,405. Granted on August 9th to Joseph N. Kuzmick, Passaic, N. J. Assignor to Raybestos-Manhattan, Inc. Application July 22, 1947. Serial No. 762,653. Description upon request.

Production of Dead-Burned Magnesia. No. 2,478,593. Granted on August 9, 1949, to Robert D. Pike, Pittsburgh, Pa., Assignor to Harbison-Walker Refractories Co., Pittsburgh. Application December 5, 1946. Serial No. 714,223. Description upon request.

Friction Plates, Method of Manufacturing. No. 2,480,076. Granted on August 23, 1949 to Frank De Marinis, Cleveland Heights, Ohio. Assignor to S. K. Wellman Co., Cleveland. Application December 28, 1944. Serial No. 570,079. Description upon request. (Probably not asbestos)

Heat and Sound Insulation Material. Granted on August 23, 1949 to Andre Laurent Camille Delloye, Paris, France. Assignor to Compagnies Reunies des Glaces et Verres Speciaux du Nord de la France, Nord, France, a French company. Application March 22, 1945. Serial No. 584,156. In France April 10, 1941. Section 1, Public Law 690 of August 8, 1946. Patent expires April 10, 1961.

A method of manufacturing a heat and sound insulating material which comprises cutting fibres of vitreous material into sections having a reduced and substantially uniform length, drawing along the short threads thus obtained in a stream of gaseous fluid, producing eddies of said stream for centering such short threads and directing in an adjustable manner said thread carrying stream against the inner face of the end wall of a movable mold, the fluid stream escaping from said mold in a reverse direction relatively to the thread carrying stream.

OFFICE POSITION—SALES—ESTIMATING

Asbestos background, Knowledge of Machine Shop Practice —Ability to type Production Orders rapidly. Interesting position in small but expanding company. Willing to locate in New York City. Submit detailed application and starting salary requirements. Address Box No. 9L-B, "ASBESTOS", 808 Western Saving Fund Bldg., Philadelphia 7, Pa.

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ACE ASBESTOS MANUFACTURING CO.

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FIGURING DISCOUNTS

Long strings of discounts look formidable to figure, or to check, but can be simply reduced to one "multiplier". Perhaps some of our readers—estimators for instance—may be glad to know the rule.

Take such a discount as 18-20-5%. Subtract each of the discounts from 100 and set them down in this way: m82-80-95. Multiply them together and you get 0.82 x 0.80 x 0.95 or 0.6232. Then if the list price for a given article is $100. you merely multiply it by 0.6232 and you have the result quickly—$62.32.

BOOK LIST

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

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

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

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

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

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

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

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

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

Manual of Unit Prices (for figuring pipe covering and blocks) 35c per copy postpaid.

Asbestos: A Magic Mineral, by Lilian Holmes Strack. Written for school children but should be in every Asbestos library. $1.00 per copy.

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

Order any of the above from "ASBESTOS", 17th Fl., Inquirer Bldg., Philadelphia 30, Pa. Postage stamps acceptable for amounts less than $1.00.

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AFTERTHOUGHTS

¶An Engineering Manual on Stillwater Steam Conduit which has just reached our desk might be of interest to some of our readers, especially to Insulation Supply Houses or Insulation Contractors who specialize in underground work. The Stillwater Clay Products Company, at 3334 Prospect Avenue, Cleveland 15, Ohio will gladly answer inquiries.

¶An inquiry from India for 300 tons of Shingle Grade fibre a month! If anyone is interested we will gladly supply the name of the inquirer.

¶Note—on page 36—a new section in our Imports and Exports; that is exports of asbestos and asbestos products from Canada during the year 1948. We are planning to add these figures to our other statistical pages regularly, giving the *monthly* figures for asbestos exports from Canada.

¶We feel that Dr. Halstead's article on Brake Linings is of real value and will be helpful not only now but in the future. The third and last part will be published in October.

¶It had been planned to publish another Asbestos Production article this month, covering a number of countries which produce asbestos either in small quantities or only spasmodically. This had to be left out to make room for other, current items but will, it is hoped, be published in October.

¶Patents do not seem to be very plentiful at present perhaps because those being issued were applied for during the war years, and our asbestos firms were so busy working on war orders that very few persons had time to work out new inventions, or improved processes.

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CURRENT RANGE OF PRICE

As of September 10, 1949

Canada—	Per Ton (2000 lbs.) f.o.b. Mine	
Group No. 1 (Crude No. 1)	$960.00 to	$1,050.00
Group No. 2 Crude No. 2; Crude Run-of-Mine and Sundry	400.00 to	550.00
Group No. 3 (Spinning Fibre)	232.00 to	425.00
Group No. 4 (Shingle Fibre)	95.50 to	141.00
Group No. 5 (Paper Fibre)	78.50 to	88.00
Group No. 6 (Waste, Stucco or Plaster)		58.00
Group No. 7 (Refuse or Shorts)	28.00 to	52.00

Vermont—	Per Ton of 2000 lbs. f.o.b. Hyde Park or Morrisville, Vt.	
Group No. 4 (Shingle Fibre)	$111.50 to	$124.00
Group No. 5 (Paper Fibre)	79.00 to	96.50
Group No. 6 (Waste, Stucco or Plaster)		59.00
Group No. 7 (Refuse or Shorts)	28.50 to	52.50

ASBESTOS STOCK QUOTATIONS

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

		August 1949		
	Par	Low	High	Last
Armstrong Cork (Com.)	np	44⅞	48¼	47
Armstrong Cork (Pfd.)	np	98¾	99¾	99
Armstrong Cork (Conv. Pfd.)	np	108½	110½	109
Asbestos Corp. (Com.)	np	23	24	23½
Asbestos Mfg. Co. (Com.)	1	1	1⅞	1⅛
Celotex (Com.)	np	15½	17	16
Celotex (Pfd.)	20	15⅝	17½	16¾
Certainteed (Com.)	1	11¼	12⅜	12⅛
Flintkote (Com.)	np	25½	28⅛	25⅞
Flintkote (Pfd.)	np	99⅛	103½	102½
Johns-Manville (Com.)	np	38¼	40½	39¾
Johns-Manville (Pfd.)	100	106½	110	110
Paraffine (Com.)	np	17⅜	19¼	18½
Paraffine (Pfd.)	100	102	103½	103½
Ray-Man (Com.)	np	25⅜	28¼	26⅞
Ruberoid (Com.)	np	47	51	50
Thermoid (Com.)	1	5	5⅝	5
Thermoid (Pfd.)	50	37¼	39¾	38¾
Union Asbestos & Rubber (Com.)	5	11¾	12½	11⅞
United Asbestos (Com.)	1	42c	47c	45¾c
U. S. Gypsum (Com.)	20	93¼	102	95
U. S. Gypsum (Pfd.)	100	180	185	185
U. S. Rubber (Com.)	10	31¾	35	33¼
U. S. Rubber (Pfd.)	100	115½	120¾	120¼

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Standardization by EHRET packing experts has produced a line of packings that has been held to a minimum number of items consistent with service, economy and good practice. Dealers and Distributors can materially reduce inventories and, at the same time, maintain stocks to cover a broad range of service requirements.

Details of the Ehret line of Valley Forge Packings are contained in a packing service manual. A copy will be sent to you on request.

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