ASBESTOS



CHRISTMAS NUMBER

MCMXXXV



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of

RAYBESTOS-MANHATTAN, Inc.
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..ASBESTOS..

A MONTHLY MARKET JOURNAL DEVOTED TO THE INTERESTS OF THE ASBESTOS AND MAGNESIA INDUSTRIES

A. S. ROSSITER, *EDITOR*

PUBLISHED BY SECRETARIAL SERVICE

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Let This Christmas Be Joyful!



Many in this fair land of ours are in want—are hungry and cold and in need.

Their Christmas day will mean no more than any other day—unless those of us who are more fortunate will share with some of the unfortunate.

Let us make this a joyful Christmas for someone by such sharing.

We can give of kindliness and cheer; a hearty handclasp of encouragement perhaps, but—let us make this Christmas especially one of material things, giving not as we have received but more; not with expectation of return but to those from whom we know return is impossible.

Some of us perhaps have been especially blessed in various ways—there is no way to make return, but we can *pass it on* in a different form, to those who are less fortunate.

Let us give then, this Christmas, of real, material help and so make this Christmas a joyful one for those with whom we share , and for ourselves.



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Progress in 1935

In his Greeting to the Industry last January, G. D. Crabbs, President of the Philip Carey Manufacturing Company, said, as our readers may recall:

> "With, as we hope, the worst of the struggle for recovery behind us, I extend to the Asbestos Industry, best wishes for a more prosperous year in 1935.
>
> "Without forecasting, it is possible for us to feel optimistic and to believe that our industry will progress, step by step, to better things."

What progress has the Industry made during the year? Have we, as an Industry, made the most of our opportunities?

In reviewing the record as set forth by "ASBESTOS" month by month, we find no very startling or outstanding development. It does seem that the Industry was beset by a number of outside factors, chief among which was the abrupt ending of the N. R. A., and the consequent endeavor, still in process, of working out a Voluntary Agreement acceptable to the U. S. Government, and of value to the Industry.

Despite this and other somewhat disturbing elements, we find that production of asbestos in the various fields—Canada, South Africa, Rhodesia—has increased materially over last year; more activity is being noted in Arizona; sales in several divisions of the Industry, notably brake lining and asbestos-cement products, have increased; and, judging from the few quarterly reports received, earnings have also improved. It will be interesting to receive the balance sheets covering the year, but of course none of these are as yet available.

A number of new plants or buildings were erected or acquired during the year:—The Thermoid Company put into operation[1] its new power unit; Turner-Newall made large extensions to their Widnes asbestos-cement works to cope with the demand for asbestos-cement pressure pipes; and purchased the asbestos-cement factory at Rhoose, near Cardiff, Wales; Philip Carey Company started production

[1]Probably actually operating the latter part of 1934 but reported in our January 1935 issue.

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in its newly acquired plant in Portsmouth, N. H., equipped for the manufacture of asbestos-cement products; the same company purchased a plant in Lennoxville, P. Q., Canada, for the manufacture of its line of Asbestos and Asphalt products; Raybestos-Manhattan completed at its Bridgeport plant its new testing laboratory; Johns-Manville increased the capacity of the transite pipe section of its Waukegan, Ill., factory.

There have been a few other important changes in ownership or name; such as the purchase by Raybestos-Manhattan, Inc., of the Multibestos Company; the absorption by the U. S. Asbestos Division of the U. S. Asbestos Company of Illinois; the merging of the Western Asbestos Magnesia Company and the Wayland Company, Limited, both of San Francisco, under the name of the Western Asbestos Company; the change of name of the Durwyllan Company (manufacturer of Brake Linings) to the Triplewear Brake Linings Corporation; the founding of Asbestcementindustrie Asbestona N. V. at Harderwijk, Netherlands and the purchase by the U. S. Gypsum Company of Chicago, of the National Asbestos Mfg. Company of Jersey City.

It may surprise our readers to know that over eighty patents have been granted in the United States alone during 1935 on asbestos products, or on machines, methods or apparatus having to do directly with the manufacture of asbestos products. Some of the brake lining companies have placed on the market machines for the testing of brakes, relining equipment and so on; extensive tests have been carried on by Bells Asbestos & Engineering Supplies Limited of Slough, England, in connection with asbestos suits.

Among new materials which have been placed on the market or improvements in old materials we recall several new wall tiles and new types of siding shingles made by asbestos-cement manufacturers; a new brake block by the Thermoid Company; a new method of packing asbestos cement (insulation) which takes less storage space, by the Norristown Magnesia and Asbestos Company; a new bearing material which works well under water by Johns-Man-

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Asbestos Fibre

for the manufacture of

Roofing Cements · Fibrous Paints
Filtration Packings
Asbestos Shingles and Lumber
Insulating Cements
Asbestos Paper · Pipe Coverings
Asbestos Millboard
High Temperature Cements

THE QUEBEC ASBESTOS CORPORATION

Office and Mines
EAST BROUGHTON, PROVINCE of QUEBEC
CANADA

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ville; and one or two new types of brake lining especially for heavy duty purposes.

The Asbestos Industry has lost by death during the present year five of its executives.—These are the Honorable Walter G. Mitchell, Director of the Asbestos Corporation Limited, on April 3rd; E. Schaaf-Regelman, owner of the Regal Mine in Arizona, on February 20th; Sir Harold S. Downer, Director of Turner-Newall, Limited; Thomas M. Russell, chairman of the Board of Russell Manufacturing Company, Middletown, Conn., on July 30th, and Colonel Robert F. Massie, D. S. O., President Asbestos Corporation Limited, on December 5th.

One of the veterans in the Asbestos Mining Industry, J. Frank Pharo, has also passed to the Great Beyond, on December 2nd.

Besides various very well printed, attractive pieces of advertising literature published by some of the manufacturers, there were two general publications worthy of mention: The first—Information Circular No. 6817 published by the U. S. Bureau of Mines under the title Asbestos—General Information; and second, the recent book on Brake Linings written by T. R. Stenberg.

Discoveries of deposits of asbestos not previously known were reported from Mexico, New Zealand, Bavaria, France and Germany. Probably none of these are at present of very great value commercially, but the mere fact that they are given attention is an indication of more interest in the asbestos industry—a sign of improvement in the general asbestos market.

On the whole the progress made during 1935 while perhaps not startling, is fairly satisfactory, especially when the many unfavorable general business factors are considered, and lays the ground work for improvement and development during 1936. We hope, and believe, that 1936 will show a great deal more activity, improvement and progress.

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Colonel Robert F. Massie, D. S. O.

The Asbestos Industry was shocked to learn of the death in Toronto on December 5th, following an operation, of Colonel Robert F. Massie, D. S. O., President and Managing Director of the Asbestos Corporation Limited.

Colonel Massie first became associated with the Asbestos Industry in 1912, when he took over the management of the old Black Lake Consolidated Asbestos Company at Black Lake, Quebec, which was then in difficulties. He reorganized the Black Lake Consolidated under the name of the Black Lake Asbestos & Chrome Co., Ltd., and continued as its President and Managing Director for ten years, until it was sold to other interests in 1921.



Colonel Robert F. Massie, D. S. O.

In May 1929, he became President of the Asbestos Corporation Limited, and during the six years in which he devoted his great abilities to that position, he formed many relationships and made for himself a place in the Industry which it will be impossible to fill.

Colonel Massie was born at Guelph, Ontario, in 1879, and was educated in Toronto. His business career commenced as a Junior in the Confederation Life Association, of which he was a Director at the time of his death.

For several years he was connected with the Canada Foundry Company, then a subsidiary of the Canadian General Electric Company, but returned to the Insurance

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field in 1906 as President of the Dominion Fire Insurance Company.

Following the outbreak of the Great War, he went overseas as a Captain in the Canadian Artillery, and later took command of the 33rd Battery. He was awarded the D. S. O. in recognition of his work in command of the Battery at Hill 70. Being severely wounded at Paschendale in November 1917, he was invalided home.

Besides being President of the Asbestos Corporation Limited, Colonel Massie was also President of Massie & Renwick, Ltd., Dominion Fire Insurance Company, Director & Canadian Manager for the North Western National Insurance Company, the Firemen's Insurance Company of Newark, National-Ben Franklin Fire Insurance Co., Ensign Insurance Company, Girard Fire & Marine Insurance Company, Director of the Confederation Life Association of Canada. Colonel Massie was also actively interested in the Pulp and Paper Industry, being a Director of Fraser Companies, Restigouche Company, and the Lake St. John Power & Paper Company.

Colonel Massie was one of the outstanding figures in the Canadian industrial and financial life, and his loss is a very serious blow to the Asbestos Corporation in particular, and to the Asbestos Mining Industry as a whole.

Raw Asbestos Kept On Free List

The Reciprocal Trade Agreement between Canada and the United States signed in Washington on November 15th, and published on November 18th, contains an agreement on the part of the United States to "bind" or continue on the free list, unmanufactured asbestos provided for in Paragraph 1616 of the Tariff Act of 1930 and described as "Asbestos, unmanufactured, asbestos crudes, fibres, stucco and sand and refuse containing no more than 15 per centum of foreign matter—free."

Under manufactured articles: "Asbestos, except crude and all manufactures N. O. P. (not otherwise provided for)" the present duty is 25% ad valorem; new duty will be 22½% ad valorem.

The agreement is effective January 1, 1936.

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ASBESTOS

Arizona Crude
Canadian Crude
Canadian Spinning Fibre
Canadian Shingle Fibre
Cyprus Asbestos
Italian Crude
Russian Crude
Rhodesian Crude
South African Blue Crude
South African Yellow Crude

ASBESTOS LIMITED INC.

8 West 40th Street : New York City

Works: MILLINGTON, N. J.

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Two Letters Which Correct A Wrong Impression

To the Editor of "ASBESTOS".

We have read with the greatest pleasure the most interesting article concerning European conditions by Mr. H. Abraham, President of The Ruberoid Company, published in the October edition of "ASBESTOS."

There is, however, one point with which we do not agree. After having stated that France and Holland are still on the gold standard, Mr. Abraham says: "As a result the exports of France and Holland have about dried up, whereas imports showed a startling increase."

According to official statistical record, the imports and exports in Holland were as follows:

	IMPORTS	EXPORTS
	January to September Inclusive (In 1000 guilders, gold and silver coins excluded)	
1932	969,740	624,665
1933	883,018	547,508
1934	788,131	534,339
1935	683,073	493,087

From above records you will see that since 1932 the imports diminished 29%, the exports only 21% and further that in 1932 the exports were 64.4% of the imports and in 1935, 72.2% of the imports.

The international trade has severely decreased, but not only in France and Holland and this is not due to our being still on the gold standard, but to the deplorable internation conditions, of which the whole world is suffering. The sooner the countries which dropped the gold standard will reconsider their decision, the better it will be.

Yours truly,
Eerste Nederlandsche Fabriek Van
Asbest-Cementplaten "Martinit" N. V.
(Signed) J. M. deBruyn.

Mr. de Bruyn sent a copy of this letter to Mr. Abraham,

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who replied as follows:

Dear Mr. de Bruyn:

I was sincerely pleased to receive your letter of November 9, with enclosure, and regret very much that it was impossible for me to see you during my visit to Holland the past summer.

I was interested in your comments regarding the question of imports and exports, as relating to Holland, which clearly indicate that the situation was not nearly as disturbing as the impression which I received during my visit. My own conclusions were based on several conversations I had with men of affairs in your country, as well as certain articles appearing in the local newspapers which I read in The Hague. However, from the official figures you submitted I conclude that the situation is not nearly as distressing as I had reason to believe.

I agree with you that the world situation is influenced largely by the fact that so many countries have fallen away from the gold standard and in place of this are operating on a shifting basis of currency. In spite of your own expressed opinion to the contrary, the writer would not be at all surprised if within the near future economical pressure was such that the European "gold block," including your own country, Switzerland and France, would eventually be prepared to either modify or perhaps abandon the gold standard for the very reasons which prompted the United States and England to have taken this step in the recent past.

With kindest personal regards I am,

Sincerely yours,

(Signed) Herbert Abraham.

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Industrial Engineer, experienced in manufacture Asbestos Textiles, Paper, Millboard, Shingles, Wall and Floor Tile, Magnesia Pipe Covering. Plant layout, special machinery for manufacture Asbestos and Magnesia Products. Address Box 12F-L, "ASBESTOS," 16th Fl., Inquirer Bldg., Philadelphia, Pa.

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Dolomite As a Plastic

By Frank F. Palmison[1]

While pure asbestos fibre is an excellent material for boiler and pipe covering, many substitutes are found in the market either because they are cheaper, or because claims are made, not altogether unfounded, that such substitutes are better than plain asbestos fibre.

Read, on Industrial Chemistry, states that basic Magnesium Carbonate finds extensive use as the main ingredient in molded steam-pipe covering. Asbestos fibre serves to give the material mechanical strength. It is a known fact that Magnesite is one of the best "refractories." It is both heat and fire resisting. Due to this property the claim is made that steam pipe and boiler covering cements having Magnesium Carbonate as a main ingredient are better than others. Then again Infusorial Earth and Fuller's Earth are used to a great extent for the same purpose because they are poor conductors of heat. They also are mixed with asbestos for mechanical strength.

A considerable amount of short asbestos fibre and tailings find employment in the manufacture of asbestos cements, and to secure a better plastic binding the trade mixes the material with Calcites such as Magnesium Carbonate (Magnesian Limestone), Calcium and Magnesium Carbonate (Dolomite), or Calcium Carbonate (Calcium Limestone) or with heat resisting clays of the type above mentioned. The percentage of the short fibre asbestos used varies with the type of Calcite or clay used, and the quality of the fibre.

The chief deposits of Magnesium Carbonate Infusorial Earth are found in California; Fuller's Earth is imported from England; therefore, because of the high freight rates, these materials are rather expensive in the East. Their high cost and the need of some kind of plastic has forced more than one manufacturer of Compounded Asbestos Cements to use Pulverized Limestone as an ingredient.

Dolomite is a mixture of Calcium and Magnesium Carbonates. When pure it has an equal number of molecules

[1]Of the Universal Marble Products Corporation.

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of both, altho different ratios occur in nature. In 1917 when the supply of Magnesite was cut off from Europe by the war, and before the California deposits were opened, 340,000 tons of dead-burnt Dolomite were used as a substitute for dead-burnt Magnesium Carbonate or Magnesite in refractories for repairing furnace linings. Dolomite is therefore a fairly good substitute for Magnesium Carbonate, Infusorial Earth, or Fuller's Earth as an ingredient in Asbestos Cement. It is composed of about 50% Magnesium Carbonate and where plastic ingredients in asbestos compounds are necessary, Pulverized Dolomite is considered a better plastic than Calcium Carbonate (limestone).

The Universal Marble Products Corporation of Thornwood, N. Y., offer to the trade a material of this kind (see page 22, November "ASBESTOS") which is said to be a highly desirable ingredient for asbestos cement.

Correction

On page 13 of November "ASBESTOS" statement was made in the introductory paragraph that one of the things planned by Committee D-13 on Textile Materials of the American Society for Testing Materials was the development of a test method for *magnetic* iron in asbestos textiles.

It is quite true that the development of such a method is planned by Committee D-13, but the method given on page 13 of our November number was not the proposed test method for magnetic iron but for the determination of *total* iron as stated in the description at the head of the proposed method.

As a matter of fact the Potassium Dichromate Oxidation method does not enable a chemist to make percentage determinations of *magnetic* iron in asbestos.

The real measure of a man's resources, the true test of one's genuine worth, is not in the fact that he can be fair and square with those who trust him, but that he can be big enough to rise above those who are unfair to him.

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Veteran of the Industry Dies

J. Frank Pharo, a Veteran in the Canadian Asbestos Mining Industry, passed away at Thetford Mines on December 2nd, in his seventy-eighth year, after an illness of several months.

Born on March 14th, 1856, at Hoosick Falls, N. Y., Frank Pharo came to Canada at the early age of four years. He commenced his career as an apprentice-mechanic with the firm of A. S. Walbridge Co. After several years at Pike River and at St. Hyacinthe, he went to Danville shortly after 1890, where he joined the late Feodor Boas at what was then known as the Jeffery Mine at Danville. He was in charge of the milling operations. This marked his first connection with the asbestos industry, a connection which continued without interruption thru the ensuing forty-five years to the time of his death.

The Jeffery Mine became the property of the Asbestos and Asbestic Company, organized about 1897, and Mr. Pharo continued there as assistant to the late B. Marcuse, who was the resident Superintendent.

About 1900, Mr. Pharo went to Brooklyn, N. Y., where he spent about two years with the firm then known as the H. W. Johns Manufacturing Co. (now the Johns-Manville Corporation) at their asbestos manufacturing plant. He returned to the Eastern Townships in 1901, and became associated with the late William Slater, who was operating the mine of the Glasgow and Montreal Asbestos Co., at Black Lake, Quebec. He spent four years at Black Lake with the Glasgow and Montreal Co., and at the neighbouring mine, the Manhattan Asbestos Co.

After severing his connections with the Manhattan Asbestos Co., he became associated with the late R. H. Martin, and carried out development work on asbestos prospects at St. Remi de Tingwick (now Nicolet Asbestos Mines), and in the year 1905, came to Thetford Mines, as Superintendent of the Beaver Asbestos Co. His association with the Beaver Mine (now one of the units of Asbestos Corporation Limited), continued without interruption until the day of his death.

Mr. Pharo was an authority on asbestos milling and

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JOHNSON'S COMPANY

ESTABLISHED IN 1875

Head Office

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Mines

Thetford Mines, Quebec

Black Lake, Quebec

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designed several machines for the more efficient recovery of asbestos fibre, chief among his inventions being the Pharo Cyclone, now well known thruout the industry.

Lewis H. Brown Addresses Bankers

Lewis H. Brown, President of Johns-Manville Corporation, on November 13th, addressed the American Bankers Association, assembled in national convention at New Orleans.

The complete address, in printed form, is available and may be obtained upon request. As an example of its logic and its forcefulness, we cite one or two paragraphs:

> "Twenty-five years ago a business man defined his competitor as someone else in the same line of business. If he was a manufacturer of shoes, his competitors were other manufacturers of shoes. Fifteen years ago business men began to realize that their real competition lay in another direction. They began to realize that shoe manufacturers as a whole were competing with automobile manufacturers for a share of the consumer's dollar. That manufacturers of refrigerators were competing with the vacation industry. That the clothing industry was competing with the movie industry for a share of the family budget.
>
> "Today, industry is beginning to realize that its greatest competition for the citizen's dollar is government . . . . . But in this competition there is no equality. For whereas business must appeal to the citizen for its share of his dollar and the citizen is at liberty to bestow it freely or to withhold it, in the case of the government, taxes must be paid first and are a compulsory levy upon every pay envelope or upon every purchase."

There is no man or woman, young or old, in this great country who can read this address without profit, and above all, there is no one who could possibly quarrel with its content or its conclusions.

Mr. Brown's courageous, logical and convincing setting forth of facts in the interest of all the people of the United States may well be compared with the service rendered by Paul Revere or by Harriet Beecher Stowe.

Every subscriber to "ASBESTOS" should get a copy of this address, read it and then act.

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MARKET CONDITIONS

General Business.

Business continues to improve. Interesting is the comment which appears in the National City Bank letter for December: "The improvement in business this fall, after only a nominal summer recession, naturally is influencing sentiment very favorably. It is plain that 1935 will close with more genuine confidence in the outlook for the coming year than there has been at any time since the depression."

Other extracts from the same letter will be of interest:

"The increase in automobile sales and production has been the feature of the business news during November. The public response to the policy of introducing new models in the fall has been all that the industry hoped for, and sales made at the shows held during the month are reported 30 to 60 per cent greater than at the shows last January.

"All business has been helped by this automobile activity. Industrial production is still rising, as it has been since early summer.

"Automobile operations are by no means the only factor in the upward trend, tho clearly they are the dominant one. Steel mill operations have advanced strongly, and in the last week of the month reached a new high for the year, at 55.4 per cent of capacity.

"Electric power consumption has broken all records during the month. Railway traffic has declined, but the drop is seasonal in character. Cotton mill operations have expanded, and textile production as a whole is maintained at its previous high level, save for seasonal recession in certain branches.

"With the major industries taking this course, the indexes indicate that the actual volume of industrial production is the greatest since the spring of 1930."

Asbestos. Raw Material.

There has been no change in price on raw asbestos.

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Some very substantial shipments of fibre have gone forward to Japan from the Canadian Mines and importations into the United States are running well ahead of last year.

Textiles. This section of the asbestos industry is doing a very satisfactory volume of trade but prices for the most part are unsatisfactorily low. Excess capacity and a tangle of cross purposes is responsible. Orderly development of this trade will become imperative as time marches on.

Brake Lining. Most of the more prominent brake lining manufacturers exhibited at the annual exhibit and Show of the Automotive Service Industries at Atlantic City during the week of December 9th, when merchandising programs for the year 1936 were announced.

Strengthening of prices was seen in practically all of the new schedules announced due to increases in costs of raw materials which have taken place during the past few months.

Insulation. High Pressure. Slight improvement in demand is noted. Nothing startling but just a trifle better than at the same period in 1934. Prices are firm.

Insulation. Low Pressure. Volume in this market is reducing—seasonally. Prices are strong.

Paper and Millboard. The outlook in this market appears to be fairly good, with prices firm.

Asbestos Cement Products. The market situation on asbestos-cement products, including shingles, flat sheets and corrugated, remains practically unchanged since our last report. Demand for the attractive siding shingles now being offered by all manufacturers continues unabated, altho the Industry expects some seasonal falling off in the demand between now and the first of the year. Prospects for increased volume next year are very good in the opinion of all manufacturers.

Demand for the industrial products such as corrugated and flat sheets, continues to improve steadily if somewhat slowly and monthly sales for the last months of this year are appreciably better than for the early months.

These are the opinions of men in close touch with the various markets. Opinions, comments and news of all asbestos markets are always welcome and greatly appreciated. Will our readers send them in?

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CONTRACTORS AND DISTRIBUTORS PAGE

THE RIGHT TIME TO MAKE A PROFIT

Profits, as we all know, are somewhat elusive. Often despite our best efforts they seem to slip away, dissolve into thin air.

A few cents higher cost for this, a small cut in selling price, a meeting of our competitor's price to keep some desirable business away from said competitor, or to favor some desirable customer, and the profit on the contract has vanished.

Often the contractor is so occupied with small details that he doesn't give as much attention as he should to the most important item in the contract—the PROFIT. And profits are most temperamental—if not given the courteous attention they should be accorded, they haughtily refuse to stay with us.

This present moment, when contracts are not very large in the first place, and exceedingly scarce at that, is the time, above all others, to make a profit. Perhaps only a small profit, but at least a small one, and your customer, if he is worth cultivating, if he is fair, if he is satisfied with your goods and service, won't *want* to see you doing business at a loss.

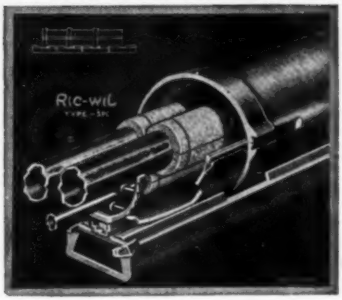
Now is the time to make a profit; not next month or next year.

BUILDING

Partly because of private activity, partly because of the momentum of the WPA program, the construction industry has begun to zoom. For October the volume of construction undertaken in the 37 eastern states totaled $200,863,700 according to F. W. Dodge Corporation. This was the highest monthly volume reported since that shown for December, 1933, which, incidentally, was the month of peak undertakings of the original PWA program. Excluding December, 1933, one must go back to the records of the Autumn of 1931 to find construction totals larger than the one turned in during October. Last month's record compared with $167,376,200 for September and was almost 50 per cent greater than the total of $135,224,800 reported during October, 1934.

For October the residential total, as apart from other classifications, amounted to $55,100,300 in the 37 eastern states. This was more than twice the total of $26,299,800 for October of last year and represented a gain of more than 30 per cent over the September 1935 total. For the ten-month period ended October residential building amounted to $394,007,800 as against $214,379,900 for the first ten months of 1934. Practically all of this 84 per cent gain was due to private building as distinguished

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Besides various designs of standard Tile Conduit — Ric-wiL makes two Heavy Duty Types — Super-Strength Tile and also Cast Iron, providing great physical strength for supporting traffic loads.

These Points Make Ric-wiL the Leading Underground Conduit

- Adequate external under-drain to keep steam lines and insulation dry.
- Minimum number of pieces to handle and joints to cement.
- Easy, fool-proof assembly—reduced labor time.
- Adaptable to any pipe covering of your own choice.
- Various materials and types to meet any conditions.
- A complete service including installation instructions and, if desired, engineering supervision.

Write for complete Bulletin 32.

Ric-wiL Dry-paC Waterproof Asbestos Insulation is suggested for economy and efficiency.

THE RIC-WIL COMPANY

1562 Union Trust Building - - - Cleveland, Ohio

New York San Francisco Chicago

Agents in principal cities

REG. U. S. PAT. OFF.

RIC-WIL

CONDUIT SYSTEMS FOR UNDERGROUND STEAM PIPES

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from housing construction of public agencies.

Non-residential building awards during October in the 37 eastern states amounted to $59,448,400 as against $49,420,100 for September and only $43,685,600 for October of last year.

Heavy engineering jobs, embracing both public works and public utilities, amounted to $86,315,000 in October for the same area. This contrasts with $76,145,300 for September and $65,239,400 for October 1934.

For the elapsed 10 months of 1935, the Dodge bulletin states that "total construction of all descriptions undertaken in the area east of the Rocky Mountains amounted to $1,392,561,400 as against $1,338,732,000 for the corresponding ten months of 1934."

THE HOME OWNER'S HANDBOOK

"The Home Owner's Hand Book," which has recently appeared on newstands, in simple language and with many illustrations seeks to aid the Home Owner in locating materials and instructing him in applying those materials to the daily needs of an average house.

Roofs, walls, heating, plumbing, painting, floors, doors, weather-stripping, repairs and construction, all are covered with indices of sources from which almost any need may be supplied.

Sales of the book (at 50c per copy) have exceeded expectations, indicating a need which has been supplied by the publishers. The book is commended to our readers for personal and corporate use, especially from an advertising angle.

AUTOMOBILE PRODUCTION

Total number of motor vehicles produced in October 1935, in the United States and Canada, was 283,334, compared with 135,771 in October 1934.

Total number produced during the first ten months of 1935 was 3,349,790; compared with 2,628,466 in the same period in 1934.

The September totals show 95,128 in 1935 and 175,586 in 1934.



WANTED

Articles on various asbestos subjects. Regular rates paid. Research men and others with a flair for writing are urged to write us for further information. Correspondence kept strictly confidential. Address, "The Editor," "ASBESTOS," 16th Fl., Inquirer Building, Philadelphia.

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Duo-Tone Waltile

Duo-Tone Waltile is one of the newer types of asbestos-cement wallboard. It was announced by the Keasbey & Mattison Company on October 28th.

As its name implies it is two tone in color, has the appearance of dull finish tile, and altogether is one of the most pleasing substitutes for real tile which we have so far seen.

Colors are Sea Foam which is pale green shading to white; Delft Blue, blue shading to white; Heather, brown shading to orange; and Burgundy, red shading to black. But this description does not give a really good idea of the beauty of the material; it must be seen to be appreciated.

All the characteristics of asbestos-cement wallboard —fire resistance, ease of cleaning, economical installation and so on, apply to this Duo-Tone material.

A Gadget of Use With Asbestos Waltile

A novel combination expansion and toggle bolt, is recommended to us as an ideal gadget for use in the erection of asbestos waltile, especially for attaching plumbing or other fixtures to the waltile. This gadget is called the Molly Expansion Bolt and with its use fixtures may be readily removed for decorating or other purpose and then replaced.

Or it can be used in partition work, in erecting wood furring to support asbestos sheets, and so on.

Very possibly other uses in connection with waltile would suggest themselves and those interested are urged to send for samples and descriptive printed matter. It is made by the Molly Tool Works at Reading, Pa.

Speak the good word now, and don't delay. The realm of silence is large enough beyond the grave.—*Eliot.*

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Africa (Rhodesia).

(Statistics published by Rhodesia Chamber of Mines)

	September 1935 Tons (2000 lbs.)	Value		
Bulawayo District				
Nil Desperandum (Afr. Asb. Mng. Co., Ltd.)	267.10	£4,220	5	..
Shabanie (Rho. & Gen. Asb. Corp. Ltd.)	2,932.90	42,099	6	8
Honeybird (Mashaba Rho. Asb. Co. Ltd.)	20.00	400	..	..
Victoria District				
King & Gath's (Rho. & Gen. Asb. Corp., Ltd.)	602.10	5,988	7	8
	3,822.10	£52,707	19	4
September 1934	*3,098.88*	*£38,710*	*14*	*9*

Africa (Union of South)

(Statistics published by Dept. of Mines & Industries of U. of S. A.)

	September 1934 Tons (2000 lbs.)	Value	September 1935 Tons (2000 lbs.)	Value
Transvaal				
Amosite	220.85	£2,202	302.50	£3,025
Chrysotile	559.00	8,124	1,808.27	13,699
Cape				
Blue	194.62	3,367	175.88	3,027
	974.47	£13,693	2,286.65	£19,751

Canada.

(Statistics Published by Bureau of Mines, Province of Quebec).

	October 1934 Ton (2000 lbs.)	October 1935 Tons (2000 lbs.)
Fibre	18,391	27,105

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IMPORTS AND EXPORTS

Imports into U. S. A.

(Figures published by U. S. Dept. of Commerce)

Unmanufactured Asbestos

	Sept. 1934 Tons (2240 lbs.)	Sept. 1935 Tons (2240 lbs.)
Africa (Br. S.)	1	32
Canada	8,999	15,381
Cyprus, Malta & Gozo	205	489
Italy	1	68
Soviet Russia	726	211
	9,932	16,181
Tabulation of Crudes and Fibres:		
Crude (Br. S. Africa)	1	32
Crude (Canada)	40	147
Crude (Italy)	1	2
Mill Fibre (Canada)	2,836	4,971
Mill Fibre (Soviet Russia)	.....	211
Lower Grades (Canada)	6,123	10,263
Lower Grades (Cyprus, Malta & Gozo)	.....	489
Lower Grades (Italy)	205	66
Lower Grades (Soviet Russia)	726	....
	9,932	16,181
Value of Unmanufactured Asbestos, Imported	*$279,855*	*$510,391*

Manufactured Asbestos Goods:

	Sept. 1934 Value	Sept. 1935 Value
Austria	$ 110	$ 419
Belgium	450	298
Canada	11	.....
Germany	111	197
Hungary	136	.....
United Kingdom	4,005	596
	$4,823	$1,510

Exports from U. S. A.

Exports of Unmanufactured Asbestos, during September 1935 amounted to 76 tons, valued at $9,609; compared with September 1934 when 81 tons, valued at $5,301, were exported.

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Exports of Manufactured Asbestos Goods:

	September 1934		September 1935	
	Pounds	Value	Pounds	Value
Paper, Mlbd. and Rlbd.	147,503	$13,635	118,222	$7,175
Pipe Covering and Cement	182,761	14,135	136,721	8,790
Textiles, Yarn & Packing	86,754	45,689	122,731	54,796
Brake Lining—				
Molded and Semi-molded	.....	65,207	.....	43,482
Not molded	110,116[1]	16,963	75,739[1]	12,220
Magnesia and Mfrs. of	127,221	8,876	229,436	14,973
Asbestos Roofing	1,557[2]	3,756	1,847[2]	8,573
Other Manufactures	117,255	11,693	194,997	19,599

[1]Lin. Ft. [2]Sqs.

Exports of Raw Asbestos From Canada

(Figures by Dominion Bureau of Statistics)

	October 1934		October 1935	
	Tons (2000 lbs.)	Value	Tons (2000 lbs.)	Value
United Kingdom	617	$52,598	510	$41,574
United States	3,416	156,382	7,310	366,939
Australia	101	5,059	260	12,940
British India	30	1,500	.....	.....
Belgium	326	13,485	300	16,090
France	118	7,805	20	2,215
Germany	213	21,157	374	39,670
Japan	3,075	110,655	305	15,144
Netherlands	50	5,000	204	17,684
Poland	....	.....	44	3,146
Spain	74	3,858	42	1,570
	8,020	$377,499	9,369	$516,972
Sand and Waste—				
United Kingdom	275	$6,170	580	$12,710
United States	7,705	105,303	12,584	192,726
Australia	....	7	.....	.....
Argentina	15	165	....	.....
Belgium	60	1,320	40	622
Brazil	....	.....	5	110
Cuba	30	360	..	.....
Germany	60	1,320	237	4,740
Italy	30	405	.....	.....
Netherlands	....	.....	132	2,566
Poland	30	660	....	.....
Sweden	....	.....	60	721
	8,205	$115,710	13,638	$214,195
	16,225	*$493,209*	*23,007*	*$731,167*

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ASBESTOS

Imports and Exports by England.

Imports of Raw Material.

	October 1934 Tons (2240 lbs.)	October 1934 Value	October 1935 Tons (2240 lbs.)	October 1935 Value
From Africa (Rhodesia)	1,099	£27,080	1,335	£28,829
From Africa (Union of S.)	243	4,771	683	10,512
From Africa (Port. E.)	.....	.....	.....	1
From Austria	.....	.....	20	137
From Australia	16	235	....	..
From Belgium	....	.....	2	37
From British India	....	.....	2	78
From Canada	839	15,355	1,309	14,294
From Finland	12	74	....	.....
From Germany	....	....	18	603
From Italy	17	237	3	282
From Netherlands	....	.....	..	71
From Soviet Russia	82	1,578	84	1,618
From U. S. of America	54	778	....	.....
	2,362	£50,108	3,456	£56,462

Exports of Asbestos Manufactures:

	October 1934 Cwts.	October 1934 Value	October 1935 Cwts.	October 1935 Value
To Irish Free State	4,445	£3,337	3,009	£3,688
To British India	2,740	7,438	5,131	8,729
To Australia	885	6,083	1,356	5,670
To Other British Countries	13,693	17,811	16,784	26,697
To Netherlands	1,369	3,948	1,547	5,051
To Belgium	949	3,423	862	4,487
To France	673	2,614	976	3,285
To Italy	189	2,009	338	2,838
To Other Foreign Countries	8,241	34,897	10,713	33,271
	33,184	£81,560	40,716	£93,716

ASBESTOS STOCK QUOTATIONS

	Par	Div.	Low	High	Last
Asbestos Corpn. (Com.) New V. T.	np		14	16½	15
Certainteed (Com.)	np	–	6¾	8½	7¾
Certainteed (Pfd.)	100	7	62	68	65¼
Johns-Manville (Com.)	np	–	85	99½	92¾
Johns-Manville (Pfd.)	100	7	120	126¼	126¼
Raybestos-Manhattan (Com.)	np	1.00	24⅞	29½	29¼
Ruberoid (Com.)	np	1	76¼	83¾	82¼
Thermoid (Com.)	np	–	6½	10¼	9⅝
Thermoid (Pfd.)	100	–	44	69¾	69¼

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NEWS OF THE INDUSTRY

Birthdays: The following gentlemen are to be congratulated during the next month on the occasion of their birthdays:

Chas. S. Donnelly, President, Mohawk Asbestos Shingles, Inc., Oneida, N. Y., Dec. 16th.

John P. DuBois, Vice President and General Sales Manager, Ehret Magnesia Mfg., Co., Valley Forge, Pa., Dec. 20th.

W. H. Huber, M. D., President Asbestos Fibre Spinning Co., North Wales, Pa., Dec. 22nd.

George N. Clark, President, Clark Asbestos Co., Cleveland, O., Dec. 22nd.

R. L. Clark, Manager, Clark Asbestos Co., Cleveland, O., Dec. 22nd.

W. H. Truesdell, Chairman, Carolina Asbestos Co., Davidson, N. C., Dec. 26th.

M. J. Fitzgerald, Treasurer, Standard Asbestos Mfg. Co., Chicago, Ill., Dec. 27th.

Fred A. Mett, President, Powhatan Mining Corp., Woodlawn, Baltimore, Md., Dec. 29th.

John J. Liner, President, Philadelphia Asbestos Co., Philadelphia, Pa., Jan. 13th.

E. M. Smith, President, Emsco Asbestos Co., Downey, Calif., Jan. 15th.

To all these gentlemen we extend congratulations and best wishes.

Allbestos Corporation. E. E. Van Horn, for thirteen years an employee of Allbestos Corporation, has been made assistant sales manager. (Correction of item in our November issue).

Asbestos Cement Limited, Bombay, India. Among the new industries started in the Central Provinces, India, during the past year is the manufacture of asbestos-cement at Kymore in the Jubulpore District with modern plant by Asbestos Cement Ltd., of Bombay, who are probably the sole manufacturers of the product in India.

Under normal conditions the success of the undertaking is assured as in many respects the Central Provinces form an ideal operating base, being well supplied with cement and conveniently placed with regard to railway communications.—*The Times, India.*

Articles. Asbestos in Electrical Insulation by H. Warren, M. I. E. E., M. I. A. E., appears in the International Issue of the India Rubber Journal. Mr. Warren's article is most comprehensive.

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The Cape Asbestos Co Limited
Morley House 26-30 Holborn Viaduct London E.C.1
Factory, Barking, Essex

BLUE ASBESTOS

The World's largest producers of Blue Crocidolite invite your inquiries on their "Cape" quality. Unexcelled for:-

TEXTILES & PACKINGS

Yarns, Cloths and Packings made from Blue Asbestos are Acid-Resisting, of great strength and stand high temperatures.

ASBESTOS-CEMENT

Blue Asbestos, with its natural affinity for cement, is the ideal material in all wet processes of Asbestos Cement Manufacture. It speeds production through quicker drying and its natural "roughness".

ELECTRIC WELDING

In the form of Yarn, fibre or powder Blue Asbestos is the ideal flux for electric arc Welding.

We are suppliers of blue yarns, cloths, millboard, rope and processed fibres.

AMOSITE

Amosite Fibre owing to its great length, bulkiness and cheapness is unexcelled alone or in combination with other fibres for:-

85% MAGNESIA INSULATION

AGENTS:

United States and Possessions
ARNOLD W. KOEHLER, Jr.
369 Lexington Ave., NEW YORK CITY
Telephone: Caledonia 5-4044

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Raybestos-Manhattan, Inc., earned Net Income of $1,108,902.15 during the nine months ended September 30, 1935, equivalent to $1.75 per share, comparing with Net Income of $892,838.55, or $1.39 per share, during the same period in the year prior.

The Balance Sheet at September 30, 1935, revealed total Assets, amounting to $17,447,594.52, including $8,523,846.90 of Current Assets. The Company had no banking or funded debt, or other capital obligations. The book value of its 635,200 shares of stock outstanding, after deducting the 40,812 shares held in the treasury, was $23.95 per share. The Net Current Assets represented $11.54 per share, of which Cash and Marketable Securities amounted to $4.16 per share.

The Directors declared a dividend of 25c per share, payable December 14, 1935 to stockholders of record at the close of business November 29, 1935.

Grant Wilson, Inc. Edward A. Wilson, Jr., for a long time identified with the Asbestos Industry and with Grant Wilson, Inc., is now in charge of the Detroit office of that Company. His headquarters are at 109 Leicester Court, Detroit.

The Pacific Coast Asbestos Association held its eighth annual meeting in San Francisco, November 14th and 15th. This meeting was attended by the following members:

George Baccrich, Columbia Asbestos Co., Portland, Ore.
R. H. Chase, Plant Rubber & Asbestos Works, San Francisco, Calif.
J. W. Clise, Jr., Asbestos Supply Co., Seattle, Wash.
M. A. Clune, Bay Cities Asbestos Co., Oakland, Calif.
S. K. Durfee, Los Angeles Rubber & Asbestos Works, Los Angeles, Calif.
H. A. Dutton, Standard Asbestos Co., 744 Folsom Street, San Francisco, Calif.
W. O. Farrington, Keasbey & Mattison Co., Los Angeles, Calif.
O. Freitag, Gillen Cole Co., Portland, Ore.
L. A. Hanson, Marine Engineering & Supply Co., Los Angeles, Calif.
H. M. Holway, Plant Rubber & Asbestos Works, Los Angeles, Calif.
V. S. Jenkins, V. S. Jenkins Company, Seattle, Wash.
E. F. Jones, Jones Bros. Asbestos Co., San Francisco.
F. E. Jones, Jones Bros. Asbestos Co., San Francisco.
Frank L. Keser, Asbestos Co., of California, San Francisco.
O. E. Keller, The Philip Carey Co., Seattle.
A. W. Knight, Johns-Manville, San Francisco.
W. F. Lane, Western Asbestos Co., San Francisco.
J. W. Odell, St. Louis Firebrick & Clay Co., Los Angeles.
Robert Rossman, Rossman Industrial Supply Co., Seattle.
Fred Miller, Plant Rubber & Asbestos Works, Portland, Ore.
E. E. Saberhagen, Asbestos Supply Co., Portland, Ore.
Roy M. Scott, Asbestos Quantity Bureau, San Francisco.
R. Tomlinson, Pacific Asbestos Co., Portland, Ore.

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J. H. Watrous, Keasbey & Mattison Co., San Francisco.
S. S. Wells, Bay Cities Asbestos Co., Oakland, Calif.

Present also as an invited guest was John P. Du Bois, Vice-President and General Manager of the Ehret Magnesia Manufacturing Co., who happened to be on the Pacific Coast at the time of the annual meeting. This was the second meeting of the Association which Mr. Du Bois attended.

Mr. Du Bois was elected an honorary life member at this meeting. C. A. Wright was also elected an honorary life member. There are two other honorary life members of the Association, namely C. J. Stover of Philadelphia, Pa., and G. A. Barker of New York City.

At the conclusion of the two-day meeting, the following officers and directors were elected for the year 1936: President, S. S. Wells of the Bay Cities Asbestos; Vice President, R. H. Chase of Plant Rubber & Asbestos Works; Secretary-Treasurer, A. W. Knight of Johns-Manville Corporation; Directors, George Baccrich of the Columbia Asbestos Company and S. K. Durfee of Los Angeles Rubber & Asbestos Works.

Vermont Asbestos Corporation, has recently appointed the Asbestos Cement & Fibre Company, of 515 W. 59th St., New York City, Distributors for Vermont asbestos in Metropolitan New York.

National Asbestos Manufacturing Company. Early in December, the U. S. Gypsum Company of Chicago, concluded the purchase of machinery, buildings, goodwill, etc., of the National Asbestos Manufacturing Company of Jersey City. They will take possession on or about February 1st, 1936.

This news reaches us just as we go to press and we hope to publish details in our next issue.

British Belting & Asbestos, Ltd. A very attractive illustrated catalog (J. L. 134) has been recently issued by British Belting & Asbestos, Ltd., of London. Printed in blue and black with numerous illustrations of the various asbestos products made by the Company, this general catalog is quite an addition to our library of advertising matter on asbestos products.

PATENTS

Friction Tester. No. 2,018,689. Granted on October 29th to Sydney G. Tilden, Stewart Manor, L. I. Assignor to Raybestos-Manhattan, Inc., Passaic, N. J. Application August 9, 1933. Serial No. 684,419. Description upon request.

Insulation and Method of Manufacture. No. 2,019,233. Granted on October 29th to George A. Nicol, Jr., New Rochelle, N. Y., Assignor to George A. Nicol Corporation, New York City. Application July 15, 1935. Serial No. 31,341.

Described as an insulating material comprising a comparatively thick layer of flexible, compressible, cellular sound absorbent material, a comparatively thin sheet of metallic foil and a layer of flexible backing material for the foil interposed between and adhesively united to the sound absorbent material

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and to the metallic foil, the layer of sound absorbent material exhibiting substantially its original thickness, porosity and insulating characteristics.

Composite Sheets. No. 2,019, 474. Granted on November 5th to Claude B. Bailey, Wyandotte, Mich., assignor to McCord Radiator & Mfg. Co., Detroit, Mich. Application August 24, 1931. Serial No. 558,856.

Method of producing by a continuous process a composite gasket sheet, composed of outer layers of heat resistant cushion sheet material formed of discrete particles and an insert layer of sheet metal having tangs thereon. Further description upon request.

Production of Asbestos Cement Sheets, Tiles and the Like. No. 2,019,852. Granted on November 5th to Eric Russell Harrap, Chorlton-Cum-Hardy, Manchester, England; assignor to Turner & Newall, Ltd., Spotland, England. Application August 21, 1934. Serial No. 740,850. In Great Britain April 27, 1934.

In a process for imparting to articles of abestos-cement a hard, smooth, glossy surface, which is highly resistant to penetration, the steps which comprise treating the surface with at least one member, chosen from the insoluble in water compounds of elements contained in Group II of the periodic table, namely zinc, calcium and magnesium, and thereafter producing a hard, smooth, glossy non-efflorescent surface, highly resistant to penetration by reacting chemically on its member or members.

Brake Composition. No. 2,020,791. Granted on November 12th to James Norman Longley, Chapel-en-le-Frith, England. Application August 28, 1931. Serial No. 560,051. In Great Britain April 16, 1931.

A process of making brake composition consisting in mixing one part by volume of a synthetic resin binder in finely divided form and 5 to 7 parts by volume of non-metallic, inorganic and inert, finely divided water insoluble filler having an average particle size not less than that of diatomaceous earth and consolidating the moisture by heating to a temperature above 280° F., and by a compression process of about 4 to 5 tons per square inch of surface.

Veneered Stonelike Unit. No. 2,021,348. Granted on November 19th to Charles J. Beckwith, Brooklyn, and Raymond V. Parsons, New York; assignor to Johns-Manville Corporation, New York. Application April 15, 1932. Serial No. 605,368.

An article of manufacture comprising a compressed densified and hardened panel including substantial proportion of Portland Cement and fibres of the type of asbestos distributed as reinforcement therethroughout, a layer of wood veneer and adhesive securing the veneer to a piece of the said panel and a water impermeable and alkali resistant material associated with said panel and preventing migration to the adhesive of alkali present in the Portland Cement.

Load Distributing and Vibration Damping Article. No.

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2,021, 370. Granted on November 19th to Paul D. Mallay, Larchmont, N. Y., assignor to Johns-Manville Corporation, New York. Application November 2nd, 1932. Serial No. 640,738.

In a pipe line assemble comprising a firm support for a pipe, a cushion upon the support and a pipe resting upon the cushion, the improvement including a cushion having a resilient, relatively compressible lower portion in forming contact with the support and providing a high degree of resistance to movement thereover and a lubricated, tough, resilient non-corrodible facing sheet of low co-efficient of friction united on one side of the upper face of said compressible portion and contacting on the other side with the pipe.

Magnesium Products. No. 2, 021,501. Granted on November 19th to William H. Farnsworth, Manistee, Mich., and Montel Montgomery, Los Angeles, Calif., assignors to Marine Chemicals Co., Limited, South San Francisco, Calif. Continuation of application Serial No. 608,202,April 29, 1932. This applicatiion May 21, 1934. Serial No. 726,632.

In a process for manufacturing magnesium products from brine containing convertible magnesium salts, the steps of initially forming a material consisting of calcium hydrate particles which have a film coating of magnesium hydroxide, said material being formed apart from the main body of the brine to be treated and containing substantially no lime in free solution and then utilizing of such material to react with the main body of the brine at a controlled rate.

Laminated Composition Gasket. No. 2, 021, 571. Granted on November 19th to John H. Victor, Wilmette, William A. Heinze, assignor and Joseph B. Victor, Oak Park, Ill., assignors to Victor Mfg. & Gasket Co., Chicago, Ill. Application February 21, 1934. Serial No. 712,379.

A laminated composition gasket comprising layers of preliminarily oil treated and baked packing material and other layers of untreated material of various thicknesses. All built up with an adhesive such as phenol resin to a desired thickness by the application of heat and pressure, the exterior surfaces being a plurality of indentations therein and a lubricant comprising a graphite composition in said indentations.

Flashed Building Structure. No. 2,021,929. Granted on November 26th to Paul A. Voigt, Ozone Park, New York, assignor to Johns-Manville. Application May 20, 1932. Serial No. 612,439.

A pre-formed semi-rigid strip adapted for use in flashing a joint between sheets of building material and being of lesser average thickness at one end of the strip than at the other end.

Brake Lining Testing Machine. No. 2,022,040. Granted on November 26th to William S. James, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend. Application Jan. 26, 1929. Serial No. 335,178.

A brake lining hardness tester. Description upon request.

Brake Testing Machine. No. 2,022,340. Granted on November 26th to Richard Teesdale Deane, Riondel, Br. Columbia, Canada. Application May 28, 1930. Serial No. 456,561.

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THIS AND THAT

An unusually modern and complete ambulance has been put into use in a city in England, especially equipped to cope with unusual industrial accidents. It is equipped with a portable derrick for lifting injured people from manholes, a long handled pair of asbestos covered tongs to drag persons from blazing cars and airplanes, and a full first aid equipment.—*Forward.*

Don't blame a successful man for bragging a bit—no one with a good catch of fish goes home by way of the back alley.

Manufacturers of Asbestos Products desiring representation in Europe should get in touch with A. Ligne, care of the French Consulate, Rockefeller Center, New York City.

Mr. Ligne will be in New York until the latter part of December and particularly desires to contact those manufacturers of textiles, packings, brake lining, paper, millboard, pipe covering, etc., who have no export department in New York City.

Inquiries for salesmen are beginning to come in. If you know of any salesmen in any of the asbestos lines who are looking for positions, please send in their names and addresses.

Amcobond is the descriptive trade name of a new type of brake lining manufactured by Asbestos Manufacturing Company of Huntington, Ind.

Having successfully achieved the Million-PG-Set goal for 1935, Raybestos again used the Proving Ground theme in its exhibit at the A. S. I. Show at Atlantic City.

The latest streamline bus for the Pacific Greyhound lines utilizes asbestos-cement waltile as its lining.

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[1]Supplementing those given in the April, May, June and July 1931 issues, and the December 1931, 1932, 1933 and 1934 issues. Readers, if they desire, may tear out this page and put with these other indices.

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Air Hygiene Foundation of America, Inc., has been formed by a large group representing various industries, with headquarters at Thackeray Avenue and O'Hara St., Pittsburg, Pa., the purpose of the organization being to conduct investigations of and to stimulate research on problems in the field of air hygiene and to gather and disseminate factual information relating thereto. A comprehensive investigation has been begun at Mellon Institute of Industrial Research, Pittsburg, under support of Air Hygiene Foundation of America, in which the hygienic, technologic, and economic aspects of air contamination, especially by dust in the industries, will be studied.

Our despondent moods are for the most part moods of ingratitude. They are really complaints that we have not received the good we think we deserve.

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VALLEY FORGE

• PACKINGS •



HIGH PRESSURE STEAM—AIR—GAS



HEAVY DUTY STEAM—AIR—GAS



HIGH TEMPERATURE CONDITIONS



CENTRIFUGAL PUMP CONDITIONS



TWISTED VALVE STEM



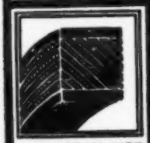
GENERAL UTILITY



ACIDS, CAUSTICS AND CHEMICALS



HOT OILS



L. P. STEAM—HOT & COLD WATER—AMMONIA—OILS



L. P. STEAM—HOT WATER AND LIGHT OILS



L. P. STEAM—HOT WATER AND AMMONIA



L. P. STEAM—HOT OR COLD WATER & AMMONIA



HYDRAULIC COPPER



AMMONIA, BRINE FREON & OILS



INSIDE PACKED PUMPS



HYDRAULIC FLAX

SHEET PACKINGS·GASKETS·PUMP VALVES

EHRET MAGNESIA MFG. CO.
VALLEY FORGE. PA.

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MERRY CHRISTMAS



HAPPY NEW YEAR

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