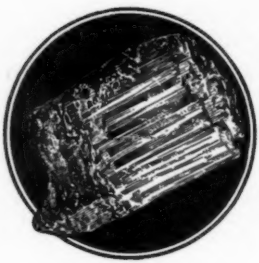
ASBESTOS

Vol. 4 NOVEMBER, 1922 No. 5



FURNISHING A COMMON VANTAGE GROUND WHERE THOSE INTERESTED IN ASBESTOS AND MAGNESIA MAY MEET FOR DISCUSSION

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A MONTHLY MARKET JOURNAL

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ASBESTOS AND MAGNESIA INDUSTRIES

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PHILADELPHIA, - PENNSYLVANIA

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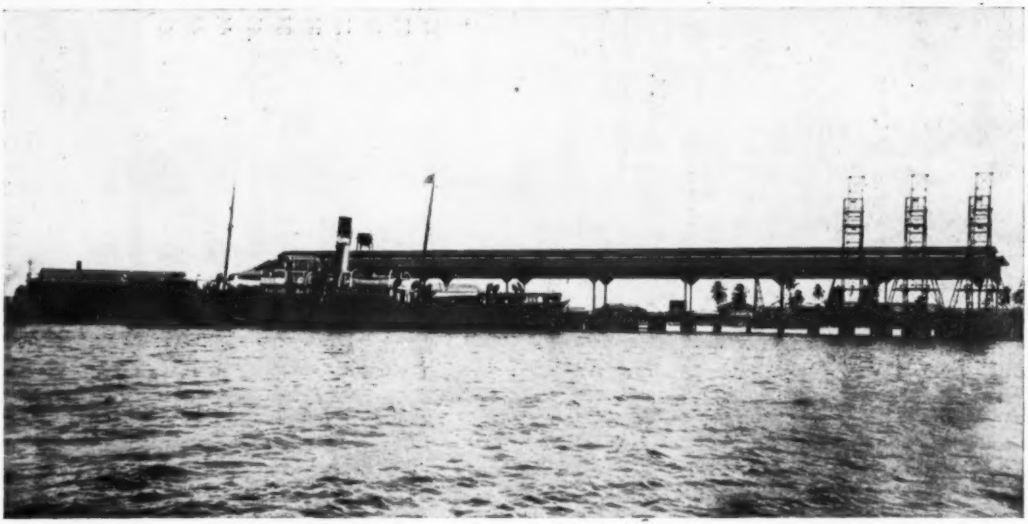
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Pier of the Truxillo Railroad, Puerto Castilla, Honduras. Many of their buildings in the tropics are covered with Asbestos Protected Metal because of its resistance to tropical heat and moisture which quickly destroy wood and steel buildings. The roofing here also has to withstand salt spray carried by the high winds. **(*See Page* 10.)**

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EDITORIALS

Research.

Our contemporary, the Canadian Mining Journal, in its September 29th issue, makes an appeal for more research work in connection with Canadian mining activities.

In the last issue of "ASBESTOS" a distributor, writing for the Contractors and Distributors Page, urges research work by the asbestos manufacturers, to the end that the contractors and distributors would have information which would enable them to sell more intelligently.

Take, for instance, a supposititious case, but easily duplicated many times a year. J. Jones is going to build a new factory. He wants to know which kind of covering will suit his particular requirements, his steam line being subject to certain peculiar conditions. He wants facts—not the enthusiasms of a salesman. The contractor may have a few figures on one particular kind of insulation, but on only one, and therefore he cannot compare them. He wades thru sixteen catalogs and several government reports, and when he is thru he has a mass of figures which mean very little, are not properly comparable and cannot be intelligently classified.

Research work, with the data compiled in such shape and form that it can be referred to readily and easily understood by the contractor, the prospect, or anyone else who happens to want the figures, is needed all along the line.

Again, this office receives very often letters from men who think they have the germ of an idea, possibly the invention of a material in which asbestos is used, such as flooring, roofing, walboard, or whatnot. Often the idea appears to be a good one, but perhaps the owner of it does not have the proper facilities, or the materials, or even the money, necessary to work the idea out. It is therefore forgotten and dies, or struggles along for years and possibly never succeeds in the way it might if given proper attention.

A research laboratory working on asbestos problems could take such ideas as these, investigate them thoroly,

carried by the high winds. (See Page 10.)

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and if they appeared to be of value, work them to a conclusion. In this way an outlet for thousands of tons of asbestos might be found, a manufacturer with sufficient capital could build up a successful line and make money, and the inventor could be compensated by the payment of a royalty.

Yes, we agree with the Canadian Mining Journal and The Distributor aforementioned, that research work is very desirable and much needed. Undoubtedly it would pay big dividends.



A Hint to the Insulation Contractor.

Malcolm C. W. Tomlinson, Consulting Engineer, writing in the October issue of Management Engineering, on "The Economic Heating of Industrial Plants," makes the following rather significant statement:

"Supervision of the installation by the designer is well worth while. Pipes may be graded in the wrong direction, inferior equipment may be substituted, connections may be improperly made and *pipe covering is almost sure to be improperly applied when inspection is lacking.*"

Mr. Tomlinson is an engineer of some standing and long and varied experience. He should know.

If the Pipe Covering trade is deserving of this rather sweeping indictment, it would seem to us that it is time for the insulation contractors to wake up.

We have always argued for the need of inspection all along the line, from the finished product up to its installation. Inspection, that is adequate inspection, at the factory, often saves a vast lot of trouble, represented not only by returned goods, but by dissatisfied and disgruntled—we had almost said disgusted—customers, and many times, especially in the asbestos business, by accidents only attributable to inferior or imperfect goods.

Adequate inspection pays.



Snapshots of the New Tariff.

Hardly had the ink dried on the President's signature to the new Tariff bill, when requests for changes in rates began to come in both at the White House and the office

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B. MARCUSE
NEW YORK

November 15, 1922.

To all my Friends and Customers

I wish to draw attention to my many friends and customers and to all buyers of Asbestos Fibre that the only address I have is 542 Madison Avenue, New York City.

I am only connected with the Asbestos Fibre Company, Inc., and the Asbestos Crude & Fibre Corporation, being President of both Companies, and I am also connected with the Maple Leaf Asbestos Corporation, Limited, in the capacity of General Sales Manager.

I would therefore appreciate it if those friends of mine or any buyers who have in the past favored me with inquiries and business, will bear in mind that my only address is as above and send their correspondence to me there either in person, or in care of any one of the three above-mentioned firms.

I take this means of thanking those to whom this letter is addressed for having helped me become known as the leader in the Raw Asbestos business. I solicit your further inquiries and shall be pleased to submit samples of Crudes and Fibres produced at those properties with which I am connected.

I respectfully draw your attention to the fact that I do not act as a middleman or jobber, but offer material direct as a producer.

Very truly yours,

B Marcuse

BM/W

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of the Tariff Commission. Manufacturers who failed to receive what, in their judgment, was the correct, and probably most favorable, duty, are asking for changes; importers are demanding reductions, claiming that present rates are prohibitive. It is reasonably sure, however, that such changes will not be granted immediately, simply because the Tariff Commission lacks the necessary funds with which to carry on the investigations necessary in order to change the rates. The simple fact is that Congress provided for an elastic tariff, but did not provide the funds by which such elasticity could be brought about.

A rather amusing comment on the tariff, made by one no less than the Philadelphia Public Ledger, runs thus: "We trust you will not grow excited over the new tariff measure. The probabilities are if you hadn't been reading the newspapers you never would have known that they passed one. We speak with the voice of experience. We used to become highly emotional over the tariff every two years. But nothing ever happened." Other papers, however, do not readily accept this rather optimistic view, but predict that something will happen, whether bad or good cannot yet be determined, perhaps a mixture of both.

Indeed, customs receipts already show a decided increase, amounting to $30,800,000 in the first nineteen days in which the law was in effect, against receipts for the same period last year of $17,483,000.

The foreign viewpoint also comes in for discussion, many predicting that restriction of trade between the United States and Great Britain is bound to follow the passage of the tariff bill, and will "make it much more difficult for Europe and Britain to pay their debts to Uncle Sam." And the Industrial Digest for this reason holds that the tariff "is not a favorable factor—for any length of time."

A copy of the entire tariff bill is on file at this office, and we will be glad to give any information from it which our readers request.

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Asbestos as a Building Material Protection

By Andrew W. Crawford
Of the H. H. Robertson Co., Pittsburgh, Pa.

In the making of building materials, permanence, strength, lightness and adaptability combined with a reasonable price, are essential in order to gain permanent public favor.

The important part played by asbestos in building up materials of this character, accounts for its increasing use in the manufacture of industrial roofings and sidings as well as in the form of shingles and tiles for residential purposes.

Manufacturers of building materials have found that when asbestos is worked up with other materials, it has no equal from the standpoints of

Lightness
Fire resistance
Freedom from decay
Immunity to rust
Insulating qualities
Ability to retain oils which means waterproofing, long life and durability in roofings.

The most of these qualities are now so universally recognized that the mention of asbestos as one of the component parts of a building material is accepted as a strong selling point in favor of the product.

Asbestos roofing was first used, impregnated with other materials of a bituminous nature, in roll form. Shingles and tile, in which asbestos played an important part, were later developed. In many of these products—in fact, in most of them—it was first necessary to lay a wooden deck, or to space other supporting members of the roof so closely together that it tended to restrict the use of asbestos base materials where quick and inexpensive construction was desired.

This weakness of asbestos building products, as applied to the industrial field, led to the development of a combination of steel sheets, asphalt and asbestos sheets known as Asbestos Protected Metal. This product retains all the

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advantages of asbestos, plus those of steel and those of asphalt, so that it is, in effect, a steel roofing on which a built-up roofing has been applied at the factory to BOTH sides of the sheet.

Details of Manufacture.

In roofing of this type ordinary black steel sheets in gauges from eighteen to twenty-eight are used as core sheets, being supplied in even foot lengths from five to twelve feet, and in thirty inch widths. After being



Showing successive layers of asphalt, asbestos and waterproofing applied to steel sheets and then corrugated. The finished sheet is practically the same in appearance as a black painted steel sheet except for the alligatored effect showing on the water-proofing.

cleansed of grease or any rust that may be on them, they are placed in automatic machines that pass them thru a bath of asphalt which is applied at about 450 degrees temperature. From this bath the steel sheets then pass between other rolls where sheets of asbestos that have been previously impregnated with asphalt are pressed into the asphaltic coating, folded over the sides and sealed at the ends under heat and heavy pressure.

The sheets are then allowed to cool, after which they

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are passed thru an asphaltic base waterproofing bath. This bath is applied under about the same temperature as the first, but the waterproofing material is of a thick, heavy, rubberlike nature and, as it contains no driers, hardens and toughens with exposure to the weather.

From this bath the sheets pass to machines that form them into corrugated or beaded designs, or to other machines that form them into louvers and building trims of various shapes and sizes.

After leaving the forming machines the sheets are placed in driers and are then covered with anti-stick solutions to prevent the asphalt surfaces from adhering in shipment.

In the finished sheet the steel retains all of its original strength and in placing it on roofs no extra weight need be allowed to resist the attacks of corrosion.

The Functions of Asbestos.

The asphalt and waterproof coatings are bonded together by the asbestos, and as they and the asbestos completely encase the steel sheets, weather, acid fumes, salt spray, smoke and other steel destroying agents are completely guarded against.

The asbestos acts as a permanent and indestructible shield, as well as a bond for the asphalts. Its insulating value plays an important part. It is largely responsible for the use of the finished product around steel plants and foundries, where it is important to guard against condensation dropping from the roof upon superheated materials, and on plants where electrical machinery must be protected. Repeated tests show that finished sheets of this character 0.11″ thick, have an insulating value of .9 BTU per square foot of material per degree Fahrenheit, per hour, while for ordinary black or galvanized sheets it is only 2.13 per hour. This makes buildings covered with these sheets easier to heat in winter and cooler in summer.

History.

The present asbestos protected metal sheets on the market are the result of seventeen years of experience and research carried on in some of the leading laboratories of the country. The first sheets were covered with one layer of asbestos attached to both sides of the steel by asphalt.

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This left the edges and ends exposed and corrosion set in. Later the asbestos sheets were folded over the edges and sealed at the ends. About five years ago the waterproofing coating was added, which in turn sealed both the asbestos coatings and the first asphaltic coating, as well as the steel core.

For a number of years various types of metal protected with asphalt and asbestos were on the market, but have been withdrawn, as the type described in this article (which has the steel core triply protected on both sides,



Grain Elevator of the Chicago, Burlington & Quincy Railroad at North Kansas City, Mo. Over 45,000 *square feet of Asbestos Protected Metal is in use on this structure.*

edges and ends with coatings of first, asphalt; second, asbestos, and third, waterproofing) has become the recognized standard.

The first asbestos protected metal sheets were made by the H. H. Robertson Company in a small plant at Canton, Mass., in 1905. Despite certain drawbacks that existed in the earlier forms of the material, the advantages of combining steel, asbestos and asphalt in an industrial building material were soon apparent, and in 1911 a plant fifty per cent. larger than the first one, was acquired at Beaver

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Falls, Pa. In 1915 the erection of a still larger plant was commenced at Ambridge, Pa., near Pittsburg, the factory being completed in 1916. It occupies over six acres of space and includes a complete asphalt refinery as well as machines for processing and forming sheets and for making ventilators and skylights, the metal parts of the latter being formed of asbestos protected metal. The plant has a capacity capable of producing half a million squares of asbestos protected metal per year and almost 1000 persons are now connected with its manufacture and sale.

Application.

On steel frame buildings three different types of fasteners may be used. Sherardized clips, nuts and bolts with mushroom-shaped heads designed to fit the corrugations are used on some buildings. Heavily galvanized straps with the same type of bolts as those used with clips are used on others. Still others prefer galvanized iron hangers, made of eight gauge steel and having special mushroom heads. These hangers are drawn tight and are bent around the purlins, a lead washer being used between the head of the hanger and the sheet.

Where and Why Used.

When asbestos protected metal was first developed it was sold largely to chemical and fertilizer companies, because of its ability to withstand severe fume conditions that exist at practically all such plants. In the Curtis Bay section of Baltimore, the center of the heavy chemical and fertilizer industry, well over a million square feet of this material is in use. In addition to fumes, these installations are exposed to the ravages of salt sea air. Among the large users in this field are Armour & Company, the Davison Chemical Company, Scottish Fertilizers, Limited, Baugh & Sons Company, F. S. Royster Guano Company, the Hubbard Fertilizer Company, G. Ober & Sons, General Chemical Company, Hooker Electro-Chemical Company.

In the iron and steel field asbestos protected metal is extensively used by such concerns as the American Steel & Wire Company, the American Sheet & Tin Plate Company, the Carnegie Steel Company, Bethlehem Steel Company, Canadian Steel Company, Youngstown Sheet and Tube Company and others nationally known.

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The mining field was quick to realize the advantages of asbestos protected metal. Among the large users in this field are the Aluminum Company of America, American Smelting & Refining Company, Lehigh Coal & Navigation Company, Michigan Alkali Company, National Zinc Company, Utah Copper Company. The Yukon Gold Company, located about 400 miles north of Singapore in the



U. S. Government Nitrate Plant No. 1 at Muscle Shoals, Ala. Its ability to withstand all kinds of acid fumes makes Asbestos Protected Metal an admirable protective covering for plants of this kind.

heart of tropical Malaysia, utilizes asbestos protected metal on huge dredges, which are engaged in dredging tin in a section where 100 degrees is considered cool and where moisture and heat prevail the year round. Asbestos protected metal is used here because it is the only material found that will withstand these conditions. The Greene-Cananea Copper Company, Cananea, Sonora, Mexico, is one of the largest American enterprises in operation outside of the United States, over 16,000 persons depending upon this plant for their living. The company operates

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Asbestos Fibre Spinning Company

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over thirty-five miles of its own railroad and brings water seven miles in order to supply its plant and the town. Because of its light weight, asbestos protected metal is used by the Greene-Cananea Copper Company since it can be easily transported and erected without breakage.

In the railroad field asbestos protected metal is used extensively for coaling stations, freight houses, canopies, shop buildings, pumping stations, pier sheds and elevators and all kinds of terminal buildings because of its abilty to withstand the destructive influence of sulphurous gases, steam, smoke and cinders. The Pennsylvania system, Erie Railroad, Grand Trunk, Canadian Pacific, Chicago, Burlington & Quincy, New York, New Haven & Hartford, Illinois Central and the Truxillo and Tela Railroads in the tropics are among the large users.

Because of its resistance to acids and alkalies, asbestos protected metal is used largely in laboratory and duct work. The Massachusetts Institute of Technology was one of the first to use it for this purpose. It has since been used in laboratories by Dartmouth College, McGill University, University of Minnesota, Parker Rust Proof Company, Armour & Company, B. F. Goodrich and many others.

In other fields among the prominent users we might mention the Armstrong Cork Company, Henry Disston & Sons, Dodge Brothers, Cadillac Motor Car Company, Packard Motor Car Company, E. I. duPont de Nemours Powder Company, Eastman Kodak Company, International Harvester Company, Link Belt Company, Montreal Harbor Commissioners, Standard Oil Company, Timken-Detroit Axle Company, Westinghouse Electric & Manufacturing Company, and various departments of the United States Government.

One rather interesting installation is that of the H. C. Fry Glass Company, at Rochester, Pa. Over half of the cut glass used in the United States originates at this company's plant. They use asbestos protected metal because of its ability to withstand fumes and weather, and the saving effected in erection and maintenance.



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Maj.-Gen. Sir John W. Carson

On October 13th the asbestos industry lost by death one of its most valued leaders, Major General Sir John W. Carson.

Altho Sir John was not identified in any way whatever with the asbestos industry until January 15, 1922, when he was elected president and managing director of Consolidated Asbestos, Limited, Montreal, organized on that date, his forceful personality and aggressive leadership soon attained for him a respect in asbestos circles hardly equalled by that accorded those who had been in the game for years.

Sir John had wide business interests, being a director of the Union Bank of Canada, vice president of the Crown Trust Company, director of Lake of the Woods Milling Company, director Keewatin Flour Mills Company, director Cassidy's, Limited, president and managing director Crown Reserve Mining Company, Limited, president and managing director Porcupine-Crown Mines, Limited, vice-president and managing director Bluestone Mining and Smelting Company and associated with many other financial and commercial organizations.

His record of thirty-one years military service is an enviable one. His old regiment was the Royal Highlanders, of Montreal, from which he retired as a lieutenant-colonel in 1900. He soon re-entered the service, becoming lieutenant-colonel of the 1st Regiment of Canadian Grenadier Guards of Montreal, and on June 1, 1914, was made colonel.

During the war he was sent to London as special representative of the Minister of Militia in the United Kingdom, and soon after his arrival in London was raised to the rank of major-general.

In recognition of his splendid services he received the decoration of Commander of the Bath on January 1, 1916, and received the honor of knighthood in 1917. He also received the Russian decoration of the order of St. Stanislaus, First Class, 1917, held the Canadian Long Service Medal and the Long Service Officers' Decoration.

He was a member of the Montreal Board of Trade, a Justice of the Peace of the District of Montreal, a governor of the Montreal General Hospital, a governor of the West-

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MAJOR-GENERAL SIR JOHN W. CARSON

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ern Hospital and a governor of the Montreal Diocesan Theological College.

Sir John was active in the asbestos industry for only one year, having been stricken with paralysis in February, 1921, but during that short period he made his influence keenly felt. He was a man of broad vision, and was interested in the betterment of the industry as a whole, believing that as conditions in the industry improved, so would his company benefit. To this end he was instrumental in the organization of the Asbestos Mine Operators' Association of the Province of Quebec, and was keenly interested in a movement (which finally fell thru) proposed by the miners and manufacturers of asbestos for a publicity campaign.

Truly Canada has reason to mourn the loss of a man possessing the outstanding qualities of Sir John W. Carson.

Comments on the Wire Market

The Standard Underground Cable Company report that not much change has taken place in the price of copper during the past month. A slight weakening tendency developed a week ago, which, however, resulted in a recession of only ⅛c per pound. The price freely quoted now is 13⅞c, delivered in the east, for the last quarter of the year. Zinc has stiffened up considerably in price, 7.45c being the New York price at this time; domestic demand is somewhat slow, but the supply is not excessive.

A FIRM IN AUSTRIA manufacturing Compressed Sheet Packing, and having had many years experience in this line, is desirous of appointing an agent in the United States. Have on hand at present small quantity of about 150 pounds, which they will dispose of at 35c per pound. Wish to communicate with jobbers of compressed sheet packing. Full information may be obtained by writing to "ASBESTOS."

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MARKET CONDITIONS

We notice an optimistic vein running thru comments made on general business conditions. The Department of Commerce in its Survey of Current Business says "No clearer demonstration could be asked to indicate the soundness of the fundamental conditions underlying the present business revival than the persistence with which commerce and industry have progressed in the face of recent serious obstacles."

That comment was made in September. A month later the same organ tells us that "The encouraging feature of the present industrial situation is the breadth of the increased activity. It is not confined to a few industries, but seems to be generally felt thruout the industrial community."

Roger W. Babson, the most conservative of prophets, asserts that we have passed the halfway mark in the period called a depression, and goes farther to say that it may be a year before we have real prosperity, but it is on the way and it is time to prepare for it.

Particularly interesting to the asbestos trade is the statement of E. G. Grace, President of the Bethlehem Steel Company, in commenting on the steel situation: "Conditions have improved rapidly for six months. There is sufficient business now to warrant 100 per cent operation in all the company's plants." It has long been a tradition of the Asbestos Industry that its valleys of depression and peaks of prosperity follow the trend of the steel market, therefore the improvement in steel should go far toward lightening the hearts of the Asbestos trade.

Raw Material.

So much for general business conditions. Let us now focus our attention on the Asbestos Industry alone.

There has just been published by the Canadian Bureau of Statistics, a report showing mineral production in Canada for the first six months of 1922. This report (see page 40 for detailed figures) shows that the quantity of Asbestos sold by Canada during the first half of 1922 totalled 54,846 tons while the same period in 1921 shows a figure of only 42,680 tons. When we look at the value, however, we find that for the first half of 1922 the figure is $1,894,232

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Incorporated

ASBESTOS CRUDE and FIBRE CORPORATION

MAPLE LEAF ASBESTOS CORPORATION, LIMITED

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MINERS OF CANADIAN ASBESTOS
CRUDES AND FIBRES

Correspondence in All Languages

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THETFORD AND BLACK LAKE

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KEASBEY & MATT

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Ambler Asbestos textiles, papers, millboard,
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Magnesia Pipe Covering known—produced by
method of using carded asbestos of selected
ty.

MATTISON COMPANY

Penna. - - U. S. A.

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OUR FUNCTIONS

PRODUCING from Mother Earth, honest, reliable grades of Asbestos Crudes and Fibres. : : : :

SELLING these materials at right prices, consistent with quality. : : : : : : : :

GIVING to our host of friends, whatever we have of knowledge, energy and usefulness. : : : : : :

Zealous to serve you, we invite comparison along such lines as are of most importance to you. : : : : : : : :

Consolidated Asbestos Limited

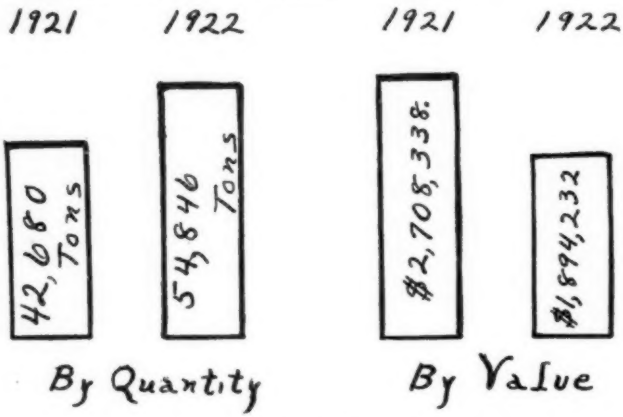
Miners of Canadian Asbestos

CANADA CEMENT BUILDING

Montreal, - Canada

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against $2,708,338, or an increase in tonnage of 12,000 with a decrease in value of approximately $800,000.



Since June, however, there has been some improvement, demand has quickened a trifle, and during the last month or two prices have had a firmer tendency. Of cource there is some price cutting—there always will be. Some of the miners complain bitterly, saying that the tendency is evidently to see who will give away the asbestos properly bagged, with the longest terms possible. In general, however, the Canadian miners realize the folly and refrain from the practice of price cutting.

Even reports from Africa are more optimistic than has been the case in the recent past, and indicate an increasing interest in the Asbestos Mines in that section. One of our African correspondents tells us that the Rhodesian Mines are speeding up on No. 3 grade, there being little demand for the longer grades. It is even rumored that one of the Mines is having returned from Selukwe a considerable quantity of asbestos, for the purpose of regrading it.

Conditions in the English Asbestos market have not materially changed in the last month, buyers not being convinced as yet that prices have reached bottom, altho in certain directions there is a tendency to buy for a rise. Even at that this month, says our English correspondent. shows

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considerable improvement over the experience of previous months of the year.

Textiles.

In the Textile field very slight improvement is noted outside of the Brake Lining branch. New England reports a slight improvement, due to the increase in output of the large mills, which in turn makes an increase in the mill supply trade. On the Pacific Coast the Textile line is reported as slower than any other in the Industry, altho some improvement has been noted as a result of better general business conditions.

Along the Atlantic Seaboard the textile line, particularly packing, is reported as dead, there being very little demand, and what little there may be, is lost sight of because of the large amount of packing thrown on the market by the U. S. Government and being sold at a price far below the cost of manufacture.

Insulation.

Very gratifying indeed are reports from all parts of the country on the insulation business. One large manufacturer reports that his factory is at present working fourteen hours a day and has enough orders on books to keep going at that rate for the next six months; in fact it is falling behind in the filling of orders.

New England reports indicate that higher prices may be looked for on all insulation materials, due to the fact that manufacturers had little material in stock and when orders began to accumulate were unprepared to take care of the demand. The coal situation, also increases demand for insulation.

Low pressure materials are most in demand altho some high pressure business is showing. One contractor who has been in the insulation business for many years, and is therefore a rather able judge of conditions, believes that the amount of business in sight at present, considering the season of the year, is not as large as it should be, and since a large part of the building operations is residential building, it follows that the insulation jobs are small even tho numerous.

Paper.

To a large extent the Paper market follows the trend of building activity and the insulation market; therefore

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at present demand for Paper is very gratifying. Prices are holding firm, with every prospect of an advance; in fact one manufacturer has already advanced prices.

To summarize the Asbestos situation, we can not do better than borrow a statement recently made by Forbes, "I regard present conditions and the general outlook as being reasonably satisfactory."

Foreign Asbestos Field Notes

Russia.

For several years Russia has been a closed book insofar as any record of asbestos production is concerned. It is interesting therefore to note in the Mining Journal (London) that considerable production is reported for 1920 and 1921. The report, which originated in Germany, gives Russian asbestos production in 1920 as about 1628 short tons; in 1921 of 2,870 short tons. The general statement is made that shipment of minerals from Russia is greater than production with consequent reduction in stocks, but as no definite statement is made as to asbestos shipments, the amount exported is uncertain, and no information whatever is supplied concerning the destination of shipments.

As Russia was the second largest producer of asbestos in the world prior to the war, this report is interesting if true, but verification from some additional source seems desirable.

Mozambique.

The latest region to report new deposits of asbestos is Mozambique. According to the South African Mining and Engineering Journal, Captain Male and Mr. Botha, of Vonduzi, have discovered asbestos about thirty-five miles from Vila Pery. No information is supplied as to the nature of the fibre except that a favorable report was received concerning samples submitted to the National Bank Assayer at Bulawayo. The deposit is said to consist of five reefs, or veins, appearing on an area approximately ten miles long and a mile wide.

No reliable estimate of the extent of the deposit can be obtained until the long grass is burned off. A river running by the deposit is expected to give sufficient power to operate an asbestos mill.

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West Coast Asbestos Co.

Downey, - California

The most up-to-date Asbestos Textile Factory in the United States. The plant was built and equipped by Asbestos people who have been in the Asbestos Textile business in the East for the last twenty years.

The West Coast Asbestos Company has been in operation over a year and are manufacturing yarns, cloth, wick and rope, woven and folded and stitched brake linings, clutch facings, valve stem packing, high pressure spiral packings and asbestos gaskets.

To The Trade:

The West Coast Asbestos Company is owned by the E. M. Smith Company, of Los Angeles. There is no other Asbestos company or individual owning stock in the West Coast Asbestos Company. This means that you can use West Coast goods in your territory and feel that you are not in competition with the factory for the same business. Why not have an independent source of supply?

West Coast Asbestos Co.

Downey, - California

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Carey

ASBESTOS AND ASPHALT PRODUCTS

85% MAGNESIA

ASBESTOS FIBRE
Eight Standard Grades

MAGNESIA
Carbonate of Magnesia Powder
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Light Calcined Magnesia
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In Technical and U. S. P. Grades

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PIPE AND BOILER COVERINGS
A correct heat insulation for each condition.

ASBESTOS ROOFINGS
ASBESTOS PAPER AND MILLBOARD
INSULATING AND HIGH TEMPERATURE CEMENTS
BOILER SETTING CEMENT
ASBESTOS ROPE AND WICK PACKING
ASBESTOS GASKETS

PREPARED ASPHALT ROLL ROOFINGS
BUILT-UP ASPHALT ROOFINGS
SLATE SURFACE SHINGLES

WATERPROOFING
Asphalt and Tarred Felts
Waterproof Insulating Paper
Roof Paints
Asbestos Roof Cements
Asphalt Pitch

THE PHILIP CAREY COMPANY
Lockland, Cincinnati, Ohio

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Australia.

We are informed that the price offered in Western Australia for quantities of short fibre of certain standard grades, on contract, is such that most of the asbestos mine operators can pay their working expenses and transportation charges and still show a profit, thus enabling them to offer the longer fibres at reasonable prices abroad. Since the local market is capable of caring for a considerable weekly tonnage of short asbestos, with assistance in the matter of oversea shipments, those entering the industry at this time should have little difficulty in making their way. It is expected that Government assistance in the matter of capital will be forthcoming.

In the October 16th issue of the Daily Telegraph, London, appears a most comprehensive and interesting article under the title "Asbestos in Industry—Its Unique Properties."

The article gives a little of the history of the mineral, geological formation, uses as protection against heat, for electrical insulation and resistance of acids and alkalies, and other less important uses.

The last paragraph of the article, which treats of Asbestos as used for the manufacture of refractory materials will, we think be of interest to our readers, and it is therefore quoted:

"Asbestos bricks and blocks, containing a large proportion of asbestos, are usually light and porous. They exhibit refractoriness which suits them for furnace partitions, but must not come into contact with slags. Many patents have been taken out for the preparation of mixtures of asbestos and clays for use as the refractories of gas fires. For this purpose fine asbestos is mixed with grog, a burnt clay which reduces the shrinkage ordinarily observed in the baking of raw clays. Bricks and blocks contain as much as 85 per cent of the clay tho smaller proportions are preferable. Mixed with alumina, asbestos was proposed as a suitable material in the production of saggers, which are usually thin boxes or trays of fireclay, which contain tiles and the like in the process of baking, in order to protect them from the action of smoke, flame, or ashes."

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Imports and Exports of Asbestos

Imports.

Imports of raw asbestos for the month of August amounted to 14,080 tons, valued at $592,034, of which 13,828 tons, valued at $534,260 came from Canada, 206 tons valued at $51,205 from England, and 46 tons, valued at $6,569, from British South Africa. It will be noticed by reference to October "ASBESTOS" that imports from Canada increased by about eleven hundred tons during August to what they were in July.

It is still more interesting to note that during August, 1921, imports from Canada totalled only 4918 tons, value $163,361.00.

Imports of manufactured asbestos goods for the month of August amounted to $35,872.

Exports.

Exports of raw asbestos during August are reported to be one ton, valued at $10.00.

Exports of manufactured asbestos products were as follows:

Paper, Millboard and Rollboard	281,059 lbs.	$11,308.00
Pipe Covering and Cement	213,399 lbs.	14,446.00
Textiles, Yarn and Packing	78,591 lbs.	44,931.00
Asbestos Roofing	292,482 sq. ft.	12,200.00
Other Manufactures	279,059 lbs.	54,386.00
Magnesia Pipe and Boiler Covering	774,383 lbs.	24,629.00
		$161,900.00

as compared with exports of manufactured products for August, 1921, of $120,899.00.

Exports of Raw Asbestos from Canada.

Some interesting figures have recently come into our hands showing exports of raw asbestos from Canada by months. We give the figures for June and July below:

	June 1922		July 1922	
	Tons	Value	Tons	Value
To United Kingdom	35	$ 11,050.00	382	$ 35,870.00
United States	6397	308,462.00	12016	367,061.00
Belgium	330	16,740.00	535	43,975.00
France	385	34,305.00	356	26,033.00
Germany	700	75,488.00	595	52,100.00
Italy			44	3,300.00
Japan	739	45,313.00	271	12,272.00

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Asbestos Corporation
of Canada, Limited

The Largest Producers of Raw Asbestos in the World

CRUDES
SPINNING FIBRES
SHINGLE STOCKS
PAPER STOCKS

Mines

Kings Mines, Thetford Mines, Quebec
Beaver Mines, " " "
B. C. Mines, Black Lake, "
Fraser Mines, E. Broughton, "

Head Office

Canada Cement Building
Phillips Square - Montreal

General Office

THETFORD MINES
Quebec, Canada

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	June 1922 Tons	June 1922 Value	July 1922 Tons	July 1922 Value
Netherlands	257	24,240.00	106	4,784.00
Other Countries	20	280.00		
Total	8863	$515,878.00	14305	$545,395.00

We believe these figures will be of very great interest to our readers, and will endeavor to give them each month.

It should be noted that these figures do not include sand and waste. If anyone is particularly interested in the figures for sand and waste we will be glad to supply them.

Production Statistics

Canada.

A preliminary report of the mineral production of Canada just issued by the Canada Dominion Bureau of Statistics, gives figures for production and sales of Asbestos during the first six months of 1922, comparing them with the figures for the first half of 1921. We know our readers will be interested in having these figures.

For Six months ending June 30, 1922	Production Tons	Sales Tons	Value
Crude No. 1	129	87	$ 73,300.00
Crude No. 2	507	189	81,462.00
Fiberized Crude	106	242	48,990.00
Spinning Stocks	3,635	2,158	487,620.00
Shingle Stocks	4,903	4,091	367,134.00
Millboard Stocks	6,185	6,696	235,819.00
Paper Stocks	14,520	12,814	355,565.00
Paper Fillers	4,976	10,518	142,525.00
By-Products (Sand, finish, floats)	18,062	18,051	101,817.00
Total	53,023	54,846	$1,894,232.00

For Six months ending June 30, 1921	Production Tons	Sales Tons	Value
Crude No. 1	474	123	$ 160,200.00
Crude No. 2	1,065	414	252,537.00
Fiberized Crude	414	49	24,525.00
Spinning Stocks	5,887	3,319	880,736.00
Shingle Stocks	9,582	4,912	439,520.00
Millboard Stocks	3,076	1,887	123,900.00
Paper Stocks	20,948	13,384	637,015.00
Paper Fillers	13,979	7,522	133,969.00
By Products (sand, finish, floats)	12,358	11,070	55,927.00
Total	67,783	42,680	$2,708,338.00

Rhodesia.

In the October issue we gave figures for June production, but May figures had not at that time reached us. This month,

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Manufacturers of

Sal-Mo Asbestos Paper
for Commercial and Special Uses

Sal-Mo Asbestos Millboard
Standard and Special Size Sheets

Aircell and Multicell Covering, Paper and Blocks

Sal-Mo Conduit Covering

Sal-Mo Wool Felt Covering

Sal-Mo Alaska Covering

Sal-Mo Asbestos Tubes, Cements, Gaskets

Sal-Mo
High Temperature Cement
for all uses in steel mills, power houses, foundries

Basic, Acid or Neutral CHARACTERISTICS

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Write for Samples and Prices

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CHICAGO, ILL.

NEW YORK CITY
141 W. 20th. St.

Scranton, Pa.

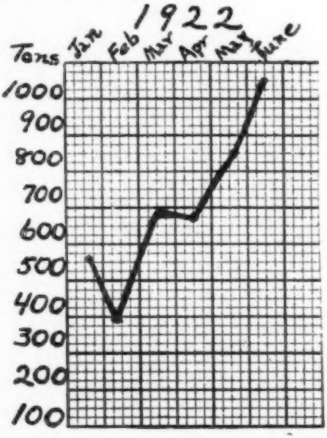
BOSTON, MASS.
268 State St.

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therefore we give production for the months of May and July.

	May		July	
	Tons	Value	Tons	Value
BULAWAYO DISTRICT				
Birthday (Willoughby's)	136	£2,712	207	£4,143
Nil Desperandum (Afr. Asb. Mng.)	153	3,066	113	2,267
Pangani (J. S. Hancock)	13	261	28	569
Shabani (R. & G. Asb. Corp.)	180	509	617	15,429
LOMAGUNDI DISTRICT				
Asbestos (U. & R. Tr.)	..	...	45	1,125
Ethel (U. & R. Tr.)	7	175	...	.....
VICTORIA DISTRICT				
Gath's (R. & G. Asb. Corp.)	327	8,167	315	7,867
Sapientia (V. S. Welsford)	12	120	...	.....
Balmain (Afr. Asb. Mng.)	..	...	34	680
King (R. & G. Asb. Corp.)	..	...	82	1,653
Total	828	£19,011	1,442	£33,735

The following graph gives an idea of Rhodesian production, month by month during the current year.



Union of South Africa.

The Department of Mines & Industries for the Union of South Africa return the following figures covering Sales and Shipments of Asbestos for the months of June, July and August.

	June		July		August	
	Tons	Value	Tons	Value	Tons	Value
Transvaal	173	£3,418	105	£2,112	26	£ 760
Cape	149	3,172	244	5,867	335	6,011
Total	322	£6,590	349	£7,979	361	£6,771

The value of sales and shipments for June 1921 was £8,516. for July, 1921, £7,694, and for August, 1921, £7,869.

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Canadian Crude and Fibres Asbestos	South African and Rhodesian Blue and White Asbestos	Russian Asbestos All Grades Now Available From Stock Hamburg

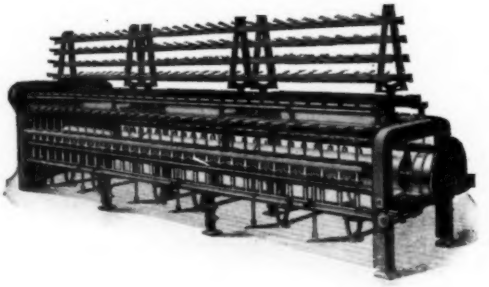
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-- ROTTERDAM --

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ASBESTOS YARN MACHINERY

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Smith & Furbush Machine Co.

Philadelphia Penna.

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Contractors and Distributors Page

BY A CONTRACTOR

The object of articles appearing on this page of "ASBESTOS" is to suggest to distributors of asbestos products and contractors who sell and apply these products, methods of marketing their goods and services that will be mutually beneficial to the consumer and the seller. Splendid suggestions along this line have been made in previous articles but we doubt whether any could be more timely and practical than that made in the September issue regarding the present unfavorable conditions under which contractors are bidding on work.

Of all parties concerned in the selling of asbestos products, the pipe covering contractor probably risks more and at a closer margin than any of the others. This may also be true of contractors in other lines, but we believe that in a great many cases co-operation among members of the trade has remedied this condition to some extent, and that if the pipe covering contract business is to make progress beyond its present state, a more sensible basis of competition must be established.

We have a product and a service that has a real investment value to the consumer. We have data and figures to prove that the proper insulation of steam piping and steam generating equipment will pay for itself in a very short time and return to the purchaser the cost of installing the covering many times during its life. Surely such a product and service should never have to be sold at a loss. Yet, how many times in the pipe covering contract game does this actually happen? Too many, we fear, and all because of what may well be termed "unsound competition."

The work of the Magnesia Association of America in educating steam users to the value of insulation has undoubtedly been of great value to the industry as a whole and specifications today are far more scientific than ever before, but there still remains a lot of work to be done along this line. Certainly this can be done by pipe covering contractors if they can get in direct contact with the consumer who is interested. This is being accomplished where owners of plants are dealing direct with the pipe covering man. Such cases, however, are few when compared with the work to be done on new plants where the pipe covering is sub-let by a sub-contractor. We refer to the many instances where pipe covering is included in the contract of the steam-fitter or plumber.

This makes the pipe covering work simply an item of cost to that contractor and a gain to him if it can be cheapened in any way. It practically eliminates the possibility of advancing real selling arguments in favor of the product and puts it on a purely price basis.

These sub-contractors demand that we submit preliminary estimates on work to be included in their estimated cost, and a large overhead expense is saddled on the pipe covering con-

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tractor because of such estimating. This would not be objectionable, however, if the low bidder were awarded the work on the basis of his estimate. What really happens in the majority of cases is that after the contract is awarded, the pipe covering is huckstered about and a price-cutting contest results, the work being awarded to the gambler who will even go below estimated costs in the hope of being able to save on an item such as the labor figure. The contractor who knows absolutely that his estimate is right and will not take foolish chances is eliminated. What happens to the "successful" bidder is a matter of conjecture, but the result is certainly not beneficial to anyone connected with the asbestos business.

It would certainly be much more satisfactory to submit estimates to those interested in the saving of fuel by the use of insulation, rather than to parties interested only in making an unearned profit on it. Pipe covering contractors with real knowledge of the product, experts in insulation, would then have an opportunity to really sell the job on its merit and at the same time have a fair chance of securing the order at a figure showing an estimated profit to which they are entitled.

Again referring to the article appearing in the September issue of this magazine, we heartily approve of the plan suggested for submitting all estimates to a common source where they would be tabulated, the low bidder on that particular job announced and all other bidders agreeing to stand pat and let the contract be awarded on the basis of the original estimates. This is not what is termed "price fixing," but would encourage the keenest and healthiest competition, and, if all contractors played fair, would do away with the price cutting evil now undermining the pipe covering contract business.

The success of such a plan, of course, would depend upon all or nearly all of the contractors co-operating in it, but we have little doubt that such a scheme would be welcomed by all reputable concerns now competing not only with each other, but with the conditions which put a premium on "taking a chance."

Where is the man or company that is going to lead the pipe covering contractors out of the price-cutting wilderness?

AFRICAN CARDED
... FIBRE ...
Heat Resisting Cements, Roofing Cements and Paints
Long Fibres
PENNSYLVANIA ASBESTOS CO.
John A. Hovey, President
NORTH WALES, PA.

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NEWS OF GENERAL INTEREST

The Delaware River Bridge, Philadelphia, is progressing very favorably—the pouring of the concrete having already been begun.

The 1923 convention of the Associated Advertising Clubs of the World will meet in Atlantic City, starting on June 3rd.

The National Exposition of Power and Mechanical Engineering will be held at the Grand Central Palace, New York City, December 7th to 13th, inclusive.

Stewart-Warner Speedometer Corporation August sales were 103 per cent. greater than in August, 1921, while sales for the eight months to September 1st were 20 per cent. greater than for the entire twelve months of 1921.

Total building construction in the United States during the first nine months of this year reached the unprecedented total of $3,000,000,000. High record year of 1920 totalled only $2,000,000,000.

July broke all records for monthly production of gasoline, 560,711,415 gallons being produced, an increase of 44,000,000 over June.

New York retailers are of the opinion that, due to the new tariff, the consumer will pay from $4 to $5 more for his suit, and even more for his light top coat next spring, but until then there will be no noticeable difference from the present prices.

Automotive production for August amounted to 246,941 passenger cars and 24,064 trucks, or a total of 271,005. For September the production was 186,562 passenger cars, 18,843 trucks, or a total of 205,405.

There is contemplated a ship canal to connect Sacramento, California, with the Pacific Ocean by way of San Francisco Bay. If built the canal will be 35 miles long and will be capable of floating all but the very largest of deep sea vessels.

The selling price of gasoline in South Africa is 60 to 70c per gallon.

The Firestone Tire & Rubber Company reports that this summer's business was the largest in its history. Production schedule was maintained at 26,000 tires a day.

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ASBESTOS



Bennett-Martin
Asbestos and
Chrome Mines
LIMITED



Head Office

Thetford Mines, P. Q.
Canada

General Sales Office

220 Broadway, New York

Mines Located at

Thetford Mines and Vimy Ridge

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MIKESELL BROTHERS COMPANY

Asbestos Manufacturers

Asbestos Carded Fibre
Asbestos Yarn
Asbestos Tapes
Asbestos Cloths
Asbestos Millboard
Asbestos Gaskets
Asbestos Packings
Asbestos Wick Packing
Asbestos Rope Packing
Folded and Stitched Brake Linings
Clutch Disc Facings
Pipe Coverings
Cements

Executive Offices, 156 North LaSalle Street
CHICAGO, U. S. A.
Plant and Works at Wabash, Indiana

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NEWS OF THE INDUSTRY

Announcement has just been made of the organization of H. V. Everham Company, asbestos and magnesia specialists, with offices at 116 Broad street, Boston, Mass. The company will handle all kinds of asbestos and magnesia products, including carbonate of magnesia. H. V. Everham, Jr., the president and general manager of the company, was formerly manager of the Boston branch of United States Asbestos Company.

In the October issue of the India Rubber Review appears an article on the investigation of light magnesium carbonate as a compounding ingredient in rubber, the author of this article being H. W. Greider, of the Mellon Institute of Industrial Research. The article is entitled "The Resilient Energy and Abrasion Resistance of Vulcanized Rubber," and has been copied by the Rubber Age and the India Rubber Journal.

We note from a recent issue of the India-Rubber Journal that Hobdell, Way & Company, Limited of London, have removed from St. John's House, Minories, to more commodious quarters at 45, Church Street, Minories, E. I. It is reported that the insulating and asbestos departments will be further extended and facilities will be available to their clients in the laboratory and testing department so that they may have the opportunity of judging the quality of the goods offered. The new warehouse address is Hayden Square, Minories.

Canadian papers announce the contemplated erection of an additional mill by the Asbestos Corporation of Canada, to cost about $500,000. The mill, which will be the most modern of plants, is expected to materially reduce the cost of production. It is stated that no new financing will be necessary, the corporation having cash resources of over $2,500,000.

The United States Asbestos Company has just issued its very attractive Catalog "D" on asbestos textiles, brake linings, packings, gaskets, etc. This catalog is a very complete one, is profusely illustrated, and contains such specific information on each material that buyers should find it a very handy book to have around.

Thru an error our October number stated that the Asbestos Crude and Fibre Corporation acted as selling agents for Maple Leaf Asbestos Corporation.

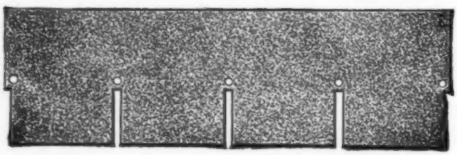
As a matter of fact the Asbestos Crude and Fibre Corporation has no interest in the Maple Leaf Asbestos Corporation, Limited, except that B. Marcuse, president of the Asbestos

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NATIONAL AanA SLATE SURFACED ROOFING

(*Asbestos and Asphalt*)

1. Guaranteed for 20 years (cheapest per square per year Roof).
2. Fire Resisting. Class B Underwriters rating (other Asphalt Roofings rated Class C).
3. Non Curling.



Strip and Individual Shingles for houses

In rolls for factories, barns, warehouses and R. R. Buildings.

By capitalizing its advantages over Rag Felt types of Asphalt Roofings Asbestos Material dealers can, by proper sales effort make the sale of National AanA Roofing a very profitable department of their business.

NATIONAL ASBESTOS MFG. CO.

163-193 Henderson St., JERSEY CITY, N. J.

Also Manufacturers of

Air Cell Pipe and Boiler Coverings

Asbestos Paper both flat and corrugated

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Crude and Fibre Corporation is also general sales manager of the Maple Leaf Asbestos Corporation Limited.

The directors of Bell's United Asbestos Company, Limited, have declared an interim dividend on the ordinary shares of the company, of sixpence per share, less income tax. The dividend was declared on account of the profits of the current year and was paid on October 23rd.

We received a communication a few days ago from Southern Rhodesia concerning a number of asbestos claims which are offered for sale. The property consists of nine blocks, each 600 by 500 yards, located about fourteen miles from Gath's and King's Mines at Mashaba, twenty-eight miles from the Victoria Railway Station and forty-eight miles from Selukwe Station. There are five different mines on the nine blocks, quite a bit of prospecting and developing work has been done; there is plenty of wood fuel in the section, native labor in abundance, and the claims are about one mile from the Ingasi River, all in the hills. Price asked is £800 per block. Further information will be supplied by "ASBESTOS" to anyone interested.

The Asbestos Corporation of America has been gradually increasing its production tonnage since the installation of its new mill on June 1st, 1922, capacity at the present time being 20 tons per day. It finds that percentage of fibre (of first class) to rock, is about 9%.

M. E. Curtis, Manager Norristown Magnesia & Asbestos Company, Boston, Mass., recently visited the Asbestos camp at Thetford.

T. H. Crabtree has returned to Canada from England.

A. S. Johnson, Sr. and Andrew Johnson, Jr., have returned to Canada from an extended trip thru the States.

An announcement dated November 2nd, 1922, and issuing from the H. H. Robertson Company of Pittsburg, advises that effective that date Johns-Manville, Inc., have been appointed joint selling agents in the sale of Asbestos Protected Metal (more recently known as Robertson Process Metal.)

In future, therefore, all Asbestos Protected Metal roofing, siding, accessories and ventilators will be manufactured and shipped from the plant of H. H. Robertson Company at Ambridge, near Pittsburg. In its manufacture the H. H. Robertson Company will use Johns-Manville asbestos saturated felts, thus affording to the customer both the advantages of the experience of Johns-Manville in the manufacture of saturated asbestos felts and the experience of H. H. Robertson Company in the fabricating of the finished product.

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ASBESTOS

Our birthday list this month covers three prominent Asbestos men: Richard V. Mattison, M. D., President of Keasbey & Mattison Company celebrating his birthday on November 17th; R. W. Potter, President of the H. F. Watson Company on December 5th, and Christopher Huber, President of the Asbestos Fibre Spinning Company, on December 8th. We offer our most hearty congratulations to these gentlemen.

Sir Samuel Turner of Turner Brothers, Rochdale, England, is spending some little time in the United States and Canada, he having landed in New York on October 17th.

On October 30th Mikesell Brothers Company moved its general sales department to its factory in Wabash, Ind., and all inquiries and orders should be sent to that address in future. Their executive offices will be maintained in Chicago.

The Mining Journal (London) in its August 26th, 1922 issue, devotes a whole page to an article entitled "Development of the Asbestos Industry." The article is well written and very comprehensive, altho it contains nothing particularly new. If any of our friends are interested in reading it, we will be glad to lend it to them.

Order-in-Council, passed by the Quebec Provincial Government on October 21st, repeals the 5% Royalty Tax on Asbestos imposed by order dated March 12th, 1920, and substitutes therefor a royalty of 2½% to apply "on all asbestos produced by the mines in the province of Quebec, between the first day of January 1922, and the first day of January 1924." The royalty is payable semi-annually, on or before September 1st for the first half of each year, and on or before March 1st for the second half of the preceding year.

We note in "Paper Industry" that John Roberts & Son Co., of Waltham, Mass., are offering their Asbestos Felt Paper Mill for sale.

PATENTS

On September 26th, Patent was granted to Emil A. Nelson, Detroit, Mich., assignor by mesne assignments to Arthur H. Murray, Detroit, Mich., on Gasket and Method of Making Same. No. 1,430,103, Serial No. 245,738, filed July 19th, 1918. It is described as follows: A gasket comprising a flat stiffening body formed with openings and narrow portions between openings, sheets of Asbestos Packing material applied to the upper and lower faces of the body, with openings corresponding to the openings in the body to provide compressible faces for and coextensive with the faces of the metallic body, and a thin copper sheathing applied to and covering the upper and lower exposed

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ASBESTOS FIBRE

FOR THE MANUFACTURE OF

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



THE QUEBEC ASBESTOS CORPORATION

Office and Mines

East Broughton, Province of Quebec
Canada

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surfaces of the packing with marginal portions of the sheathing turned into the openings in the body and packing and over the marginal edges of the body and packing to cover all exposed edges both within and without the openings of the gasket.

On October 17th, No. 1,431,962, Serial 270,140, filed January 8th, 1919, to Willard H. Kempton, Wilkinsburg, Pa., assignor to the Westinghouse Electric & Manufacturing Company, on insulating material and method of forming same, described as follows: The method of forming bodies of insulating material which comprises adding an oxidizing agent to a moldable composition, forming bodies from such composition and curing them, impregnating them with linseed oil and causing oxidization of the linseed oil by the oxidizing agent. A waterproof body comprising Asbestos, Portland cement and reaction bodies of linseed oil and a drier. A waterproof body comprising a filler, a binder, an oxidizing agent and an oxidizable oil.

BUYERS CLASSIFIED INDEX

Being a listing of those firms whose products are of particular interest to those in the Asbestos Industry.

Rate for listing supplied on application.

We hope to gradually make this listing of great value to our readers.

CARDING AND SPINNING MACHINES FOR ASBESTOS YARNS

Whitin Machine Works, Whitinsville, Mass.

MINE FOREMAN OR ASSISTANT SUPERINTENDENT wants position, Mine, Mill or Construction. Experience, 6 years mechanical; 4 years electrical; 1½ years coal mining; 11 years mining, milling Asbestos.

Practical from pit box up. Speaks French, Russian and has thoro knowledge of first aid and welfare work. Will go anywhere. Best of references.

ADDRESS 11C-5 "ASBESTOS"

Paul Hammerich

Inspector of Asbestos, Crude and Fibre. Reports on Asbestos Mines and Mills.

THETFORD MINES - QUEBEC, CANADA

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ASBESTOS
USACO

UNITED STATES ASBESTOS CO.

General Offices and Mills

Manheim Penna.

MANUFACTURERS OF

ASBESTOS
BRAKE LINING
CLUTCH FACINGS
FABRICS
LISTING
PACKING
TAPE
YARNS

SALES OFFICES and WAREHOUSES

New York	Boston	Chicago
Pittsburg	Lancaster	San Francisco

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TRADE
MARK
IMPERIAL BRAND



IMPERIAL
All Asbestos Pipe Covering with Water-proof Jacket for Outside Lines. Especially adapted for Train Pipe insulation.
INDESTRUCTIBLE

H. F. WATSON CO.

Main Office and Factories
Erie, Pa.

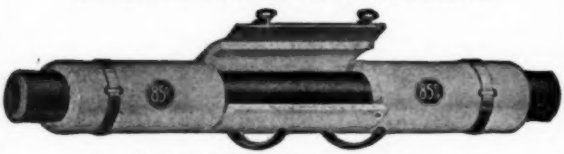
79 MILK ST.
BOSTON

5331-9 SO. WESTERN AVE.
CHICAGO

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85% MAGNESIA

STEAM PIPE AND BOILER COVERINGS



The Lightest Weight Steam Pipe and Boiler Covering Made

THAT IS STRUCTURALLY STRONG and PERMANENTLY EFFECTIVE

IS

"Ehret's 85% Magnesia"

Made at

VALLEY FORGE, PENNSYLVANIA

Since 1897

By

Ehret Magnesia Manufacturing Co.

BRANCH OFFICES

NEW YORK PHILADELPHIA CHICAGO

Distributors:

Nightingale & Childs Co., Boston Mass.
Niagara Asbestos Corp., Buffalo, N. Y.
Chamberlin Rubber Co., Rochester, N. Y.
Valleau-Quinn Corp., New York, N. Y.
Chas. S. Wood & Co., Newark, N. J.
Philadelphia Asbestos Co., Philadelphia, Pa.
Delaware Elec. & Sup. Co., Wilmington, Del.
Mong-Hamilton Co., Pittsburgh, Pa.
Wallace & Gale Co., Baltimore, Md.
Paul J. Krez Co., Chicago, Ill.
Central Asbestos & Magnesia Mfg., Chicago, Ill.
Kentucky Pipe Covg. Co., Louisville, Ky.
General Equipment Co., Charlotte, N. C.
A. M. Lockett & Co., New Orleans, La.
J. H. Stoner, Kansas City, Mo.
Hendrie & Bolthoff Mfg. & Sup. Co., Denver, Col.
Chas. E. Wehr, Indianapolis, Ind.
C. Stanley Morgan, Detroit, Mich.
Asbestos Supply & Mfg. Co., Cincinnati, Ohio.
The Clark-Fisher Co., Cleveland and Toledo, O.
Canadian Asbestos Co., Montreal, Toronto and Winnipeg, Canada.

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AMERICAN ASBESTOS COMPANY

Manufacturers of
Asbestos Textiles

NORRISTOWN, PA., U. S. A.

Headquarters for
Yarns, Cloth, Tapes, Fibres, Brake Linings and Textiles Generally

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