# ASBESTOS

Vol. 2 MAY, 1921 No. 11



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



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# ... ASBESTOS ...

## A MONTHLY MARKET JOURNAL

**Devoted to the Interests of the Asbestos and Magnesia Industries**

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Graph by courtesy of the Franklin Mfg. Company, Franklin, Pa.

**Trend of Magnesia Prices as Compared with That of General Commodity Prices.**

You have doubtless been asked time after time why Magnesia and other insulation materials are not falling in price as rapidly as general commodities. The reason, as plainly shown by this graph, is simply because they never reached the dizzy height which was reached by other commodities during 1920, and therefore, haven't the distance to fall.

The general commodity curve is taken from Babson's Statistical Service reports.



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# A Correction with Apology

In our April issue on page 37, we printed a digest of certain newspaper reports concerning The Ehret Magnesia Manufacturing Company. When preparing this item we committed the common, but inexcusable error of assuming that the newspapers told the whole story.

Further inquiry leads us to emphatically state that there is no likelihood of The Ehret Magnesia Manufacturing Company being isolated or otherwise seriously interfered with by The Valley Forge Park Commission, at least for a goodly number of years.

Even then, when the Park Commission *does* take over the Ehret Plant, it will be done only after Ehret has been given ample time in which to erect another plant without jeopardy or injury to the Ehret business.

Mr. A. M. Ehret, President of the Ehret Company is our authority for stating that The Ehret Company will erect a new plant in ample time to prevent any possible lapse of production.

Doubtless the misleading nature of the original article was exaggerated by the unfortunate choice of title which read "Ehret Plant Faces Isolation."

We hope our several thousands of readers will help us in seeing that no injustice or injury to the Ehret Company follows this correction.

To The Ehret Magnesia Manufacturing Company we sincerely apologize for a most innocent, albeit careless, use of newspaper half truths.



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# Past and Present Methods Of Mining and Milling Asbestos

By Walter A. RuKeyser, B. Sc., E. M., Mining Engineer and Geologist

Editor's Note: Mr. Rukeyser has prepared for us a series of articles under the above title. The first of these, given below, concerns the early development in the mining of Asbestos and the methods of stripping the overburden. The second and third sections, one dealing with the Methods of Mining, the other concerning Methods of Milling, will be published in the June and July issues respectively. We believe these articles constitute the first complete and authentic information ever published on the subject.

Quite frequently the casual visitor to one of the present-day, large scale asbestos operations is impressed unfavorably with the methods of mining and milling now in vogue. This is especially true of one who has seen other large open-cut workings, be he a technical or non-technical man. Glancing superficially over the field he naturally draws comparison with such mines as those of the "porphyry coppers," the Lake Superior iron mines, the "glory holes" of some big tonnage gold producers,—and varied quarrying practices in general. It is hoped to show in what follows just why the preponderance of the world's asbestos supply is mined and treated as it is,—to point out the determinant peculiarities of the problem and to present in every day language the evolution of this phase of the industry.

It is true that in the great majority of cases the mines on the Quebec serpentine belt "just grew." In many cases the present companies have been formed to take over the operations of former and smaller ones. The work, started by the predecessors, would then be continued in substantially the same manner.

The romance of asbestos really begins with the putting thru of the Quebec Central Railway, tho its occurrence in the Province was known as far back as 1847. Legend has it that during the construction of the road in 1877 some of the workers found a "peculiar substance belonging to both the vegetable and the mineral kingdoms,"—which upon investigation proved to be chrysotile asbestos. At that time the uses for the material were few and those that did exist only involved what today is known as "crude." Milled fibres were unthought of. So it was that instead of the



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railway being put thru to open up the asbestos district,—in reality the "mountain came to Mohammed."

For fifteen years the "crude" continued to be of sole importance to the new but ever-growing industry. In 1879 the deposits at Danville were opened up and a short



Photo by Courtesy of Mr. RuKeyser.
*Chrysotile Asbestos veins in Parent Rock Serpentine*

time after, those at East Broughton were located, tho not worked to any great extent. In 1893 or '4, after considerable experimentation, a method of mechanical concentration and extraction was devised and milling successfully inaugurated. The principles involved in those primary undertakings are unchanged to this day and modifications are for the most part refinements in mechanical detail.

We thus find that at the beginning the asbestos de-



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posits were discovered, located and owned by individuals who then formed the population of a practical wilderness. These, due to lack of capital and to the geology of the deposits (which rendered open pit mining feasible) started production in a small way and by hand methods. The asbestos, literally, was to be found "at the grass roots,"—and in many cases there were no grass roots. This was the beginning of the small open pit, a method of work which permitted initial production with little or no expenditure for plant,—no capital outlay for burdensome exploration or development. And to the fact that the past methods of mining asbestos were the result of individual ownership and of Nature generous in its geological offerings, are due the major operations which characterize a truly great industry of today.

In the mining of asbestos,—as with all other mining operations,—the fundamental factor which decides the choice of method is the geology of the deposit. This is just as essentially true of the so-called "non-metallic" minerals as of the metallic. In the present case were it not for the fact that the deposits outcropped and were of the form and lithological character that they were, expensive methods and capital outlay would have been necessary and a general retardation of the industry probably effected. But in addition to the geology there are the important other considerations of topography, climate, class of labor available, size of individual holdings, choice of plant location, amount of capital on hand for development and so on. A host of minor factors enter into the question which do not fall within the scope of the present article. And in the case of asbestos, in addition to the problems which are common to all mining layouts, we find a peculiar and technically irksome factor which to a great extent influences the handling of the rock. This is the definite physical properties which constitute the inherent value of the mineral and give especial value to the "crude" and longer "fibre." It is largely due to these physical properties that the method of handling has been evolved.

At this point it may be interesting to give a brief description of the geology of the chrysotile-asbestos deposits, since we have stressed this geology as being an important factor in the course of development of the industry.



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# HIGH GRADE ASBESTOS TEXTILES

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*Plain and Metallic Cloths*
*Braided and Woven Tapes*
*Braided Tubings*
*Woven Sheet Packings*
*Woven Brake Linings*
*Gloves, Mittens, Leggins*
*Gaskets, Seamless and Jointed*
*Packings, Steam and High Pressure*
*Wick and Rope*

**Asbestos Fibre Spinning Company**

**North Wales, Penna.**




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Serpentine, the parent rock of chrysotile, is the metamorphic derivative of an original or "primary" rock. This original rock, crystalline in form, is termed peridotite,—is associated with closely allied rocks, pyroxenite and gabbro (also found in the district) and belongs with the latter in the same general class as the well known and commonly identified rock, granite. All are formed by the cooling of molten magmas which have welled up from great depths in the earth's crust. The original peridotite, due to the application of high heat and intense pressure became altered, its crystalline minerals becoming "fused" into an isomorphous mass. This alteration product, or serpentine, in turn became foliated and fissured and by a general circulation of chemically active waters thru the minute cracks which had formed a re-crystallization of the serpentine into asbestos was effected there in place.

In later geologic time, sediments which had been superimposed on the serpentine were eroded away by glacial action, exposing the formation and permitting the facile working of the deposits. For the most part where these are worked at the present time they are covered over only by surface drift left by the ice-sheets as they retreated. This drift forms the overburden which has to be removed before large-scale open pit mining can be attempted and thus comprises one of the chief overhead and development charges in the modern mining of asbestos.

STRIPPING OF THE OVERBURDEN: We find being used to-day a wide variety of methods of removing the overburden from the asbestos bearing deposits. This "stripping," we have said, is a necessary preliminary to open pit operations, for otherwise the mill feed would become contaminated, the costs of production raised and the quality of the product impaired. The depth of the material to be removed varies considerably thruout the district,—ranging from nothing (where the rock outcrops) to 30 or more feet. When excessive this tends toward the application of underground mining methods,—or the total abandonment of the project.

The present day methods include (1) the old and more primitive ones involving hand labor and slow transportation; (2) the ones intermediate between the manual and the entirely mechanical, and finally (3) those which in-



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volve a minimum of the human element. The choice depends upon the depth of covering to be removed, facilities for handling and a balance between initial outlay and operating charges. Thus at many of the mines,—and this is true particularly of the Broughton or "slip-fibre" type of deposit,—where the drift averages, say, but five to ten feet thick, a high initial investment for plant is not warranted and the original method employing the use of pick and shovel with single horse dump-cart is justified. The earth, possibly loosened by small charges of dynamite, is removed, loaded by hand and transported to a suitable dumping place in two-wheeled dump carts drawn by a single horse. These carts hold approximately a third of a cubic yard and from thirty to fifty loads can be handled per ten hours over a three hundred foot haul. This work is often contracted for on a cubic yardage basis,—the measuring up of the work done and the following remuneration being based upon usual survey methods. Light cars running over easily movable track has at times been substituted for the carts,—but this modification is no-where in use today due



Photo by Courtesy of Mr. RuKeyser.
*Stripping by single horse dump cart*

to the lack of flexibility. Scrapers and drag-line excavators have been employed where too many boulders are not encountered,—but are only economical for short hauls and have seldom been found to be practicable in this connection.

In the second, or semi-mechanical, class of methods at



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present employed in removing the overburden we find the use of the cableway, a description of which follows under a later heading. This is employed where the work is of sufficiently large scale to warrant first cost and upkeep, with enough material within the length of the span and within reaching distance of the cableway to justify each set-up and removal. The earth is excavated and loaded into the boxes by hand.

Where the overburden assumes a thickness of over fifteen feet, and the area to be stripped is sufficiently large, —it is no longer economical to remove by manual labor,— and even tho the bank be worked in two or more benches, it is generally found advisable to employ more advanced methods. In such cases the steam shovel has found its best application as a high bank is a sought-for condition in such operations. Comparatively small, revolving-type shovels are used in this work,—the first ones employed running on standard gauge railroad track, the later types being of traction or caterpillar propulsion. The last, for reasons of



Photo by Courtesy of Mr. RuKeyser.
*Hydraulicking*

flexibility and freedom from track expense, are to be preferred. The shovel excavates and loads the material directly into dump cars holding three or four cubic yards. The dipper may handle one to two yards of earth at a scoop and the work done for the shift total three to four hundred



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# Bell
# Asbestos Mines

**THETFORD MINES**
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MINES OFFICE at
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*and*
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Miners and Shippers of

# Asbestos

CRUDE AND FIBRE




*OWNERS*
The Keasbey & Mattison Company
Ambler, Penna.
U. S. A.




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cubic yards of earth removed. The cars are assembled into trains and hauled by small contractors' locomotives to the dump.

The latest method to be adopted consists of hydraulic excavation and transportation. This is essentially a large scale operation necessitating the installation of substantial equipment involving a big initial investment and high degree of engineering skill. One of the large producers has within the past year contracted for the removal of several hundred thousand cubic yards of drift. A large and highly efficient pumping plant had to be installed which supplies water thru a pipe-line to high pressure nozzles or "monitors." The soil, after being loosened by the monitor, is carried by the water thru a second pipe-line to a suitable point of discharge. Water is pumped from the Thetford River for the purpose. This method constitutes the last word in refinement and efficiency for the stripping of deep banks over large areas,—but difficulty may arise under freezing conditions.

By any one or combination of the above methods, the overburden is removed from the deposit which is to be worked. This stripping is carried on sufficiently in advance of mining operations and beyond the limits of the pit to prevent the admixture of the millfeed and the soil. Stripping, as has already been pointed out, is necessary only to open pit operations. Where the depth of overburden becomes excessive,—or where suitable dumping facilities are not available as in the case of restricted holdings,—underground methods must be adopted if the deposit is to be worked. In every case the stripping of the asbestos bearing rock constitutes a burdensome charge on every ton of rock mined and forms probably the largest item for "dead work" in the development of the pit.

We have pointed out that in the past it had been a fundamental matter to get into the fibre-bearing rock as cheaply and as quickly as possible. It was practical and feasible to do this. So it was that in the beginning a natural line of least resistance, coupled with the fact that in most cases the original owners themselves were the operating heads, dictated the opening up of the asbestos deposits by means of small open pits. Next month we shall attempt to describe in some detail these operations.



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# The Asbestos Corporation of America

## BURLINGTON, VERMONT

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**American Mines**

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**Sand**

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# Editorial Comment

Some few days ago a gentleman, who formerly lived in Cuba, stopped into our office with some samples of Asbestos, which came from near Trinidad, Cuba. His family had lost everything in the Spanish American War and were now scattered, but still owned about 800 acres of land near Trinidad, part of it being up in the mountains.

In the hilly part of the estate large quantities of this Asbestos could be found, and it appears that the region could be reached rather easily from the coast, which was not very far from the deposits.

Of course the Asbestos he showed us was Amphibole, and it is doubtful whether anyone would accept it as a gift. But it set us to thinking of the vast quantities of Amphibole to be found in all parts of the world, and particularly in the United States, for which very few uses can be found.

At present practically the only real purpose to which Amphibole is put is for use as filtering, and while this use may develop into quite a sizable business, there surely should be a wider application of Amphibole to the arts and sciences.

We predict that some day, somebody is going to invent, discover, or stumble upon some use for this species of Asbestos, which will make that somebody's fortune.

---

An extensive survey of the soft coal industry thruout the country leads disinterested observers to believe that the price of soft coal is lower than it will be in October next, in fact, the bituminous coal trade seems to have touched bottom and prices will appreciate from now on.

The definite reason for this assumption of higher prices in the summer and fall is the marked difference in output between last year and this, and present production is so much below last year as to not only absorb the excess of last year's production but is also calculated on a part time operation of all of our industries which use soft coal.

At this time in 1920 the output of soft coal in the United States was in excess of 10,000,000 tons a week. For the third week in March output was 6,468,000 tons.

---

One of the best examples of business co-operation on a large scale that has come to the publisher's notice is that



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of the Western Farmers Organizations who have adopted a majority attitude of marketing their grain crop. At the previous meeting a Grain Marketing Committee of Seventeen was appointed and this committee recommended the compulsory pooling of grain in an effort to control the marketing of this important crop and to return to the farmer more money per bushel.

Grain growers from twenty-three states were represented by 107 delegates and a strong effort is being made to create what a Kansas speaker called "a 100 per cent. compulsory grain pooling." If this movement develops according to the ambitious plans of its organizers it will become the largest single example of co-operation in marketing in the world, handling annually many hundreds of millions of dollars worth of grain grown on American farms.

---

THE PRESIDENT'S MESSAGE, according to some politicians was an "H" of a paper—Harding, Hughes, Hoover, Harvey.

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**White Chrysotile.**

**The Victoria District Industries, Ltd.**

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Now open to consider "forward contracts."

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**Blue Crocidolite**
**White Tremolite**
**Brown Amosite**

**African Base Metals Export Co., Ltd.**

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# The State of the Market

*Crudes and Fibres*:

Canadian and Arizona production is practically suspended. Stocks are not large and it is manifestly the intention of the mine operators to hold down production until demand revives.

The European market had been absorbing some part of the quantity of fibres not required in the United States but conditions in England today are such that no demand for raw stuffs exists.

Prices have remained stationary with no buyers.

*85% Magnesia*:

Some slight demand is noted in certain territories with aggregate quite small.

Prices have softened a bit but since 85% Magnesia did not rise in price with other commodities in 1919-20 (See page 4) it cannot be expected to fall in proportion to some of the over inflated raw materials.

*Textiles*:

Much better call for brake linings and packings is noted. Electrical stuffs, mantle yarns, and other fine goods are without call.

With improvement in brake linings and packings the tonnage manufacturers will benefit.

It looks much better.

*Paper and Millboard*:

As we go to press (May 2) the manufacturers are feeling much more cheerful than was the case three or four weeks ago.

A month ago the market was not only dull—it was dead.

Now some signs of life are noticeable and unless the building trades tie every thing up with strikes the demand for paper and board should improve.

*Shingles*:

This market follows new residence building and F. W. Dodge Company reports that class of business at about 50% of normal. Asbestos shingles are about holding their share of the market.



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THE ORIGINATORS *and*
LARGEST MANUFACTURERS *of*

**85% Magnesia**
**Sectional Coverings**

**Asbestos**
**Textiles, Paper**
**Millboards, etc.**



***"IF IT'S MADE OF ASBESTOS***
***WE'VE GOT IT"***



Keasbey & Mattison Company
AMBLER, PENNA.



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# Filing of Mining Claims on Indian Reservations

Now that deposits of magnesite, gypsum, limestone and Asbestos are open to location, our readers will be interested in reading the regulations for the location of such claims. They read as follows:

"Mining claims may be located by such citizens in the same manner as mining claims are located under the mining laws of the United States: Provided, That the locators of all such mining claims, or their heirs, successors, or assigns, shall have a preference right to apply to the Secretary of the Interior for a lease, under the terms and conditions of this section, within one year after the date of the location of any mining claim,and any such locator who shall fail to apply for a lease within one year from the date of location shall forfeit all rights to such mining claim: Provided, further, That duplicate copies of the location notice shall be filed within sixty days with the superintendent in charge of the reservation on which the mining claim is located, and that application for a lease under this section may be filed with such superintendent for transmission thru official channels to the Secretary of the Interior."

The Engineering & Mining Journal, in commenting on the Indian Appropriation Act ,says that it is understood most of the claims on Indian Reservations thought to contain asbestos had been previously located under the subterfuge of prospecting for iron. Considerable protest is reaching the Department of the Interior in this connection and it is not unlikely that an investigation will be made with the purpose of ascertaining if there has been discrimination against prospectors who were careful to observe the law with regard to operations on these Indian Reservations.

The Arizona Bureau of Mines has on file copies of all bills pertaining to the Act, and offers to answer any inquiries concerning the procedure to be followed by anyone who wishes to prospect for or secure leases upon deposits of metallic minerals or the four non-metallic, viz: magnesite, gypsum, limestone or asbestos.

Curiously enough the amendment to the Indian Appropriation Act permits the mining of the above men-

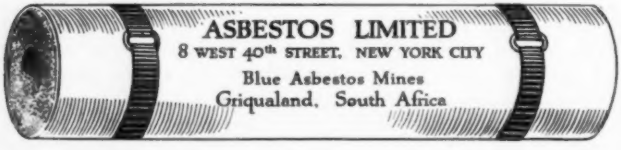


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# BEST 85% MAGNESIA

is made with

# BLUE ASBESTOS








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# Best Brake Lining Yarn is made with Blue Asbestos

ASBESTOS LIMITED
8 WEST 40th STREET, NEW YORK CITY
Associated with
Cape Asbestos Co. Ltd.
London, England



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tioned minerals only, coal, oil, gem minerals and other non-metallic originally thought to be covered by this amendment, not being included. See our Arizona correspondent's remarks on page 38, further concerning the opening of these Indian Reservations.

April 9, 1921 issue of the India Rubber Journal on pages 19 and 20 contains some interesting data on the World's Production & Consumption of Asbestos.

The information is obtained from the Imperial Mineral Resources Bureau and will form a part of the Annual Volume on the Mineral Resources of the British Empire and Foreign Countries, shortly to be published.

Of particular interest is the table contained in the article giving the World's Production of Asbestos for the years 1913 to 1919 inclusive. For the benefit of our readers we print it below:

*World's Production of Asbestos*

In long tons.

| | 1913 | 1914 | 1915 | 1916 | 1917 | 1918 | 1919 |
|---|---|---|---|---|---|---|---|
| So. Rhodesia | 259 | 435 | 1,795 | 5,497 | 8,537 | 7,655 | 8,696 |
| Un. of S. Africa | 859 | 1,063 | 1,909 | 4,157 | 5,554 | 3,280 | 3,512 |
| Canada | 118,361 | 96,133 | 95,142 | 105,578 | 126,556 | 128,086 | 136,669 |
| Cyprus (exp) | 1,168 | 246 | 1,099 | 1,291 | 1.069 | 228 | 1,331 |
| India | — | 5 | — | — | 148 | 357 | 383 |
| Australia | — | — | 1 | 36 | 281 | 3,034 | 1,790 |
| Italy | 172 | 168 | 160 | 81 | 84 | 59 | — |
| Russia | 17,218 | 15,444 | 8,551 | 8,062 | — | — | — |
| United States | 982 | 1,113 | 1,546 | 1,321 | 1,503 | 895 | 1,261 |

**Paul Hammerich**

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

THETFORD MINES - QUEBEC, CANADA

**SALESMAN WANTED**—High Grade man with experience in selling Asbestos Textiles. Must be energetic and capable. Good opportunity for advancement. N-3, "ASBESTOS," 721 Bulletin Bldg., Philadelphia, Pa.



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FRANKLIN
FUEL SAVING
PRODUCTS

# One Ton of 85% Magnesia
## Will Save
# One Ton of Coal Per Day

This statement is startling but
Nevertheless True

Furthermore, once put on the saving begins at once and continues as long as the pipes last, no matter if the superintendent is on vacation and the engineer asleep.

It can't be put "out of order" by the poorest or clumsiest workmen. When 20 years old it is as good as on the first day.

The only way to make it stop working and saving for you is to shut the plant down.

With our cat. F. C. 7. 19 you can figure out the exact saving for yourself.

## The Franklin Mfg. Company
FRANKLIN, PA.



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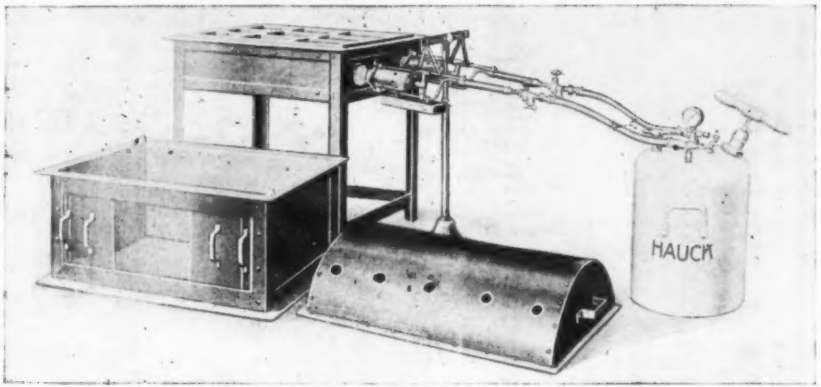
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# The Hauck Preheating System

The employment of oxy-acetylene welding methods has extended into every department of the metal trades. One of the difficulties heretofore encountered was that of the too rapid heating and cooling of parts being welded.




*The Hauck Preheating Furnace.* Plate supplied by Motor Age.

A new apparatus, known as the Hauck Preheating Furnace, has recently been placed on the market. This is designed to minimize the danger of too rapid expansion and contraction. It consists of a deep box or oven, with detachable cover, mounted on a preheating table, three sliding doors enabling the operator to hold the work (See illustration).

An interesting feature of this apparatus is the lining thruout with Asbestos, which both protects the metal parts from excessive heat and insulates the contents of the box from the outside currents of air. The oven can be used for reheating after welding, the burners then turned off and the castings allowed to cool gradually.

The furnace can be converted into a preheating table by removing the box and cover.



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# ASBESTOS TEXTILE CO.

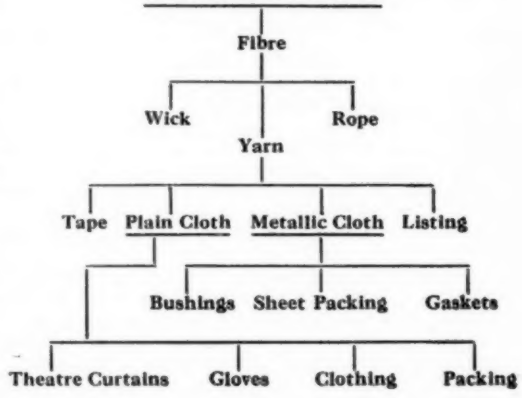
INCORPORATED

MILLS
NORTH BROOKFIELD,
MASS.

GENERAL OFFICES
WOOLWORTH BUILDING
NEW YORK.

WE MANUFACTURE

## ASBESTOS




Compressed Asbestos Fibre Sheet Packing

*"Quality and Service"*

# ASBESTOS TEXTILE CO.

INCORPORATED

MILLS
NORTH BROOKFIELD,
MASS.

GENERAL OFFICES
WOOLWORTH BUILDING
NEW YORK




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# Contractors and Distributors Page

## Suggested Proposal Form

Use regular letterhead to submit proposals with provisions of contract stipulated on reverse side. Across the face under the caption state that this proposal is made subject to conditions printed on other side. Give price and particular conditions necessary for adequate protection including special terms of settlement if thought advisable. At the bottom say that additional terms and conditions are as indicated on reverse side of this sheet.

The provisions as outlined on reverse side might be somewhat as follows:

This proposal is made subject to the following conditions:

Quotations subject to change without notice.

Proposals limited to 30 days acceptance from date hereof.

Terms of Payment (make own terms).

Reasonable time shall be given under this contract for delivery of materials which you will receive and properly protect from loss or damage during execution hereof. You will allow us free use of elevators and other available facilities for handling materials.

All surfaces to be covered must be in proper condition therefor.

No credit or allowance shall be made for alterations unless agreed to by us in writing prior to the work being performed.

We shall not be responsible for damages or delays caused by strikes, fires, accidents or other causes beyond our control.

Labor necessary herein shall be performed during regular working hours, and regular overtime rates shall be charged for work performed outside of such hours.

Expense of sending our men on job upon your notification before building is ready for the application of our materials as agreed—shall be borne by you at schedule rate.

We shall not be responsible for damages or expenses where specifications do not conform to the requirements of law.

Covering flanges, fittings, valves, etc. not included unless specifically mentioned.

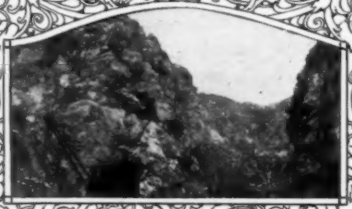
Alterations in plans or surfaces necessitating extra labor and material shall be borne by you.

If work herein is to be performed later than advanced date specified, we reserve right to revise prices accordingly.

There are no promises, agreements or understandings except as herein set forth.



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## Black Lake Asbestos and Chrome Company
LIMITED

Head Office
Jacobs Building, Montreal, Canada
Mines: Black Lake, Que.

**Miners of**
**Crudes and Spinning Fibres**
**Specializing in Shingle Stocks**

Controlling
Union Asbestos Mines
Southwark Mines
Imperial Asbestos Mines
Black Lake Chrome Mines
Coleraine Chrome Mines





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# AMERICAN
# COMP

*Manufactu*

# Asbestos

## NORRISTOWN,

Headquarters

YARNS, CLOTH, TAPES, FIBRES, BRAKE LI




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N ASBESTOS
MPANY

ufacturers of
os Textiles
WN, PA., U. S. A.

eadquarters for
BRAKE LININGS AND TEXTILES GENERALLY




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# Asbestos Mines Ltd.

Mine at
East Broughton, Que.

Mining all grades
of Asbestos Fibre

Head Office, Jacobs Bldg
Montreal, Canada.





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# News From Mining Centers

*Arizona.*

General activity has been very greatly reduced in the Arizona field, owing to the universal dullness in business, none of the smaller mines and prospects are being worked now and prospectors have given up looking for Asbestos, but are trying to start a livelier boom.

A. B. Shutts, formerly manager of the American Ores and Asbestos Company, is on his way from Globe, Arizona, to the East, traveling the entire distance in automobile, as the works are definitely closed and the remaining machinery, equipment, etc., are now under the supervision of H. E. Hacker, the manager of the Regal Mine.

All the copper mines in the Globe and Miami districts are closed down for an indefinite period, "The Old Dominion," "Inspiration," "Miami Copper" and "Ray Consolidated" having stopped operation on April 1st. The only mine in the district still working is the "Superior and Boston," and this for the reason that they have found some high grade silver and also some asbestos, which outcrops within about 100 yards of their office building.

The limestone containing serpentine and asbestos is, at the point of discovery, about 12 feet thick and diabase shows on both the foot and hanging walls. A shaft of some 20 feet has been sunk and while the fibre uncovered at the beginning was quite harsh and brittle, it has somewhat improved with depth. It is the intention of the Company to do some work on this ledge from one of the lower levels of the mine and Mr. Drummond, President of the Company, has recently made a visit to the Regal Mine to study the occurrence of the asbestos bearing strata there, as well as to familiarize himself with the process of mining, extracting and preparing the fibre for the market. It is quite unusual that high grade silver, copper and asbestos are being found in the same mine and the development of this property is being followed with more than usual interest.

The Regal Mine is preparing to ship two carloads of Asbestos East, containing nearly 60 per cent Crude No. 1 and 40 per cent Crude No. 2. Most of the product of the



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Regal Mine is going abroad, as European Asbestos Textile Plants are willing to pay a premium on account of the excellent qualities of the fibre.

Prospecting of Asbestos on the Indian reservation has been nipped in the bud, as it was first published that the reservation should be thrown open for the location of Asbestos claims on April 15th and that anybody attempting to do so before that date either would have no valid claim or might even be considered as a trespasser. However, when a long procession of would-be locators and prospectors started from Globe in automobiles—and they pressed everything into service, from a Ford to a Marmon—at exactly one second after midnight of April 14th, they learned upon arrival at the famous Bear Canyon that somebody had been there ahead of them who did not interpret the law as it was generally understood, but had private information from Washington that Asbestos location in the Indian reservation was legal since March 3rd.

*Australia.*

Mr. Herbert Soanes, of Perth, Western Australia, an Asbestos Specialist, who styles himself an "Australian Asbestos Pioneer," has consented to send us from time to time news of the Asbestos Industry in that country.

In a recent letter he tells us that the quantity of Crude Chrysotile produced in Australia is quite negligible, and it is his belief that such a condition will prevail until a really *strong* Australian Asbestos mining development and manufacturing company has been established.

The principal difficulty encountered is the lack of knowledge, on the part of the Australian capitalist, of the Asbestos business, which makes it necessary to look to foreign capital for a lead. If foreign capital takes the initiative, there is little doubt but that Australia will follow.

Mr. Soanes has the "concentrates" of about thirty years of investigatory and field work in his possession, and should any of our readers be interested in the development of the Australian Asbestos field, will be glad to have their communications. Mr. Soanes business address is 28 Weld Chambers, Perth.

*Tasmania.*

In a table prepared by the Mines Department of Tasmania, giving quantity and value of mineral production for

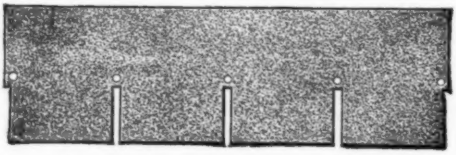


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## National AanA Slate Surfaced Roofing

(*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.

Double the profit and ability to attract majority of roofing business is the decided advantage distributors of AanA Roofing command over sellers of the old type or Rag Felt base Asphalt Roofings.

Manufactured only by

**NATIONAL ASBESTOS MFG. CO.**

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

Also manufacturers of best quality Asbestos Paper, flat and Corrugated Air Cell Pipe and Boiler Coverings.




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SPINNING FIBRES
*OF*
*Highest Grade*

Edward H. Garcin & Co. Inc.
*1819 Broadway*
*NEW YORK*

BRANCH
MERCER STREET
Long Acre, W. C. 2
LONDON




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that country during the year 1920, it is interesting to note that Asbestos is included in the list but no production listed. Evidently while Asbestos is found in Tasmania, little is being done toward working the deposits.

*China.*

We of the Western Hemisphere do not realize conditions existing in the far east.

China like the United States is divided into States or Provinces and has Ministers representing Commerce, Mines, etc., but these ministers do not function outside of certain areas and while you might be granted absolute power to travel and prospect in any part of the Republic you desire, in doing so you would be at the mercy of numerous bands of robbers. These robbers have their set districts and constitute themselves a sort of Internal Revenue Collector, collections usually being made on pain of death. Also, the Chinese Government practically demands that fifty-one per cent of the stock of any enterprise be held in China by Chinese, and any foreigners working concessions have to put up the capital and trust in the government being stable long enough for them to at least "break even." These conditions together with famine, lack of rail transportation, and uncertain water routes, combine to hold up development of the country's natural resources.

There are three Asbestos districts in China. In Mongolia two Asbestos fields are known, but neither is being worked at present.

The Chihli District in North China is reached by rail thru Soochow and Nanking to Peking. From Peking there is a two days rail trip and then transportation by the honorable mule for forty-seven miles. The Chihli district includes eleven mining districts and comprises about thirty-three square miles of Asbestos bearing rock. The district is very mountainous and the quarrying method is employed. The Asbestos found is of good grade and well adapted for spinning and paper stocks. The work on the deposits is done on a contract basis and the Chinese coolie is satisfied if he can earn about twenty cents a day. Machinery at present is not a factor and therefore large quantities of Crude can be produced by the mere addition of several hundred coolies. The Miners quarry the rock and deliver it to the mill on a lower level, then being paid for the



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amount of material they deliver.

The Shensi Province Field is reached by boat, or rather by boats, first a large river steamer, then two smaller boats, and finally a house boat, the trip on the house boat taking three days, after which there is a five mile walk over a rough trail, and last, chairs over the mountains. The district comprises six ranges of mountains, only one of which, the Chenping, has been worked. The method of mining in this district is that of tunnelling. The material secured is a good grade of Chrysotile, well adapted for textile and kindred work.

In this same province we have the Sze-Tzu-Ping Range, but material found here is very harsh and practically valueless from a manufacturing standpoint.

Just a word as to the milling processes. The milling operation consists of crushing, screening and fanning. The crusher is a large circular stone revolving on a flat surface by mule or coolie power.

The screens are made from bamboo, graduated to certain mesh and are used to grade the crushed stock. These screens are extremely crude but seem to function fairly well. They are run entirely by coolies, who push them back and forth on a frame. Two screens only are necessary to make the gradings used.

The fans are made from bamboo and cloth, a piece of the latter material being tacked to the bamboo and when in service power is transmitted to them by coolies. The fans are used to blow the sand from the fibres, after which they are recrushed, screened and fanned again.

There are several Asbestos textile factories in China, all carding and spinning being done by hand. The yarn is extremely coarse and of low tensile strength. They weave a pure cloth however, but, unfortunately, it is not woven close enough for chemical separation work.

Paper is made by the flotation process, using natural soda. Large pits are dug and the Asbestos saturated with water, then hauled out and rolled. The roller used is run by overshot water wheel and is extremely crude. After being rolled the stock is laid on the ground or hung up to dry. Sheets of various thicknesses are made by this process but, naturally, are far from being smooth or true to size.



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# NATIONAL MAGNESIA MANUFACTURING COMPANY

*Manufacturers of*

**"85% Magnesia" Pipe**

*and*

**Boiler Coverings**

**Locomotive Lagging**

**544 Market Street**

**San Francisco. California**

**U. S. A.**

Cable Address, "Magnesia, San Francisco"




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# Hobdell, Way & Co.

LIMITED

LONDON, ENGLAND

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RHODESIAN
CRUDE
ASBESTOS

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CAPE BLUE
CRUDE
ASBESTOS

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Address Enquiries to

W. D. CRUMPTON & CO.

Special Representatives

Room 1010 #8-10 Bridge Street

New York City - New York




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# The Allbestos Corporation

The Allbestos Corporation located at Belfield Ave., and Fishers Lane, Logan, Philadelphia, Pa., chartered under the Corporate Laws of Pennsylvania with $250,000 capital, is a recently organized Corporation authorized to engage in the manufacture and sale of Asbestos Yarns and products of same, brake linings, tapes, cloths and other textile fabrics. Only the highest grade productions in the above lines are contemplated and that assurance is given to the trade because of the very latest type of machinery being used and the knowledge and experience of the men associated in this enterprise, all of them having been engaged for years past in various textile lines calling for the widest experience in the textile manufacturing business.

Production will commence late in May with an eight set plant fully equipped in every department, and electrically driven thru-out. Special efforts will be made to utilize every known public welfare feature in equipment and to promote healthful surroundings for the employees.

William G. Kitchen, President and Treasurer, is a member of the well known firm of James C. Kitchen & Company, Philadelphia, Importers and Dealers in Wool, and of Joseph Scatchard's Sons, Inc., Germantown, Fine Woolen Yarn manufacturers with whom he has been connected for the past twenty-five years with the management and ownership thereof.

John F. Bolger, Vice President and General Manager, has represented Textile firms for the past thirty-three years, and for years has devoted his time to special lines in Textile machinery with Geo. S. Harwood & Son, Boston, Mass., covering the United States and Canada. He is thoroly familiar with the manufacturing and spinning of every known variety of fibre.

Charles Elder, Superintendent of the Yarn Department, is generally recognized as one of the ablest carders in the United States. He has been engaged with several of the leading mills in New England in that capacity, and recently was employed by one of the largest Asbestos concerns in the country.

William H. Hall, Jr., Superintendent of the Weaving Department is a graduate of the Lowell Textile School and



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# INSULATION

The right materials and the right specifications for

Superheated steam pipes
High pressure saturated steam pipes
Medium pressure steam pipes
Exhaust steam pipes
Heating system pipes
Feed water pipes
Underground pipes
Outdoor exposed pipes
Vibrating pipes
Ice water pipes
To prevent sweating
To prevent freezing
Boilers
Smoke Breeching
Fittings
Warm Air ducts

**ASK FOR CATALOG 1362**

Carey
ASBESTOS & ASPHALT PRODUCTS
85% MAGNESIA

**THE PHILIP CAREY COMPANY**
**Wayne Avenue, Lockland, Cincinnati**
**U. S. A.**




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a native of that city. During the World War he was employed by the United States Government as an Officer and Inspector of the Asbestos plants which manufactured special fabrics of Asbestos for war purposes, and required expert supervision of same.

The directorate is headed by James G. Kitchen and includes the above mentioned Officers; also Frederick C. Newbourg, Jr. J. Stuart Barr is Assistant Treasurer and also a member of the firm of Jas. G. Kitchen & Company.

It is the intention of the management of the Allbestos Corporation to devote their abilities and experience to producing the very finest counts in Asbestos Yarns for the insulating of electrical apparatus and it will make a specialty of spinning the purest and strongest of yarns which can be manufactured by the latest improved machinery, for braiding, knitting and weaving.


| Canadian Crude and Fibres Asbestos | South African and Rhodesian Blue and White Asbestos | Russian Asbestos as soon as Railway Traffic will be Opened |
|---|---|---|

**Nederlandsche Asbest Maatschappy**

**-- ROTTERDAM --**

Tel. Address NEDAM ROTTERDAM | Post Box 518 | Codes A. B. C., 5th Edition, Western Union, Liebers Code




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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*

260 St. James St., Montreal

*General Office*

THETFORD MINES
Quebec, Canada




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# Manufacturers Must Either Fish Or Cut Bait

**(Without prejudice, we reprint this article which appeared in PRINTERS' INK of issue April 7th, 1921. It gives, very clearly, one view of a problem with which practically all asbestos and magnesia manufacturers are confronted.—The Editor.)**

*Editor of* PRINTERS' INK:

We are confronted with a marketing and distribution problem. Our products are now sold to plumbing supply houses as well as to plumbers direct. This often causes friction between the jobbers and ourselves for reasons which you can well understand.

So we are contemplating marketing our products through the sole medium of the jobber and to support the jobber in his selling efforts by means of intensive direct-by-mail campaigns.

What do you think of the plan? Would it simplify our distribution problem? Would it be possible for us to cover as much ground (which, of course, means selling at least as much) as before?

Would you advise giving exclusive territory to jobbers? If not, what would you do in a case where several jobbers are located in the same city—and selling to the same plumbers? How would you, without duplication, back up the efforts of each of these jobbers?

Any suggestions and advice which you might give us certainly would be appreciated.

NATIONAL ASBESTOS MFG. CO.,
S. A. HALPERN,

---

*The Answer*:

*Pipe Covering Division.*

A number of manufacturers, especially in grocery products and in textile lines, sell both to the jobber and to the retailer direct. As a rule, however, the companies who do this may sell only a comparatively few retailers, such as chain stores and other large buyers. Sometimes the direct selling is carried on in certain restricted territories only. For example, before Proctor & Gamble Company gave up



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# CARD CLOTHING

is one of the most important accessories in preparing your asbestos.

Have you tried our special woven foundation that combines exceptional strength and durability?

The mills using it say it is far superior to any they have ever had for carding asbestos.

## HOWARD BROS. MFG. CO.

*Manufacturers of Card Clothing since 1866*

44-46 VINE ST.

Worcester, Mass.

U. S. A.




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the jobber entirely, it sold direct in New York City and later throughout the New England territory.

When the manufacturer successfully sells in both ways, he must have a strongly entrenched product. It is usually so well advertised and in such insistent demand that occasional jobber antagonism is of no serious consequence. As a general thing, though, most manufacturers find it difficult to sell both the jobber and the retailer in the same field and keep them both satisfied.

We imagined this must be the situation in the plumbing supply industry also, but not being sure, we submitted Mr. Halpern's inquiry to a manufacturer who has achieved notable success in this industry, although with a product not competitive with those of the National Asbestos Manufacturing Company. Here are this man's comments, greatly condensed:

"When our company started business, it cast its lot with the jobber, dealing exclusively with jobbers of plumbing and heating supplies, and certain manufacturers of boilers and radiators. The distributor of our product in turn sold it to the steam-heating contractor, who is our ultimate customer.

"By a national advertising campaign definitely tied up to the jobber, as well as to the contractor, we have greatly stimulated the distribution of our product. Each month our customers receive broadsides of our advertising, occasional sales letters, and it is the function of our salesmen to address the Saturday and Monday morning conferences of jobber salesmen, who are also reached each month with a letter or bulletin.

"I do not see how a manufacturer can live in the heating and plumbing industry if he sells to both jobber and plumber. He must either fish or cut bait.

"It is absolutely essential to avoid giving an exclusive agency to a jobber. The manufacturer should play ball with each and every jobber and maintain a classification based upon the volume of sales and the amount of the cooperation received from the jobber by the manufacturer.

"Of course it frequently happens that the jobber gets a big head and believes that he should sell everyone in his territory, including the other jobbers. To acquiesce in this



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request is to sacrifice the benefit of having 2,400 jobber salesmen, all of whom call on plumbing and steam-heating contractors and sell over and over again the product of the manufacturer.

"It is frequently stated that the jobber salesman is merely an order taker, but it is a fact that you can galvanize him into action by showing him how much more money he can make for the house if he sells a particular specialty or product as compared with the profit from a bundle of soil pipe.

"While it is sometimes dangerous to reason from analogy, you can compare the policy of the Simmons Hardware Co., which built its success on several things but primarily upon its determination to sell everyone in the town. When Saunders Norvall started out for himself, he adopted the policy of establishing exclusive jobbers. While he was successful, he did not begin to make the success that the Simmons Hardware Co. has made.

"I believe, with substantial evidence to support my belief, that the establishment of an exclusive agency actually reduces the volume of sales *by the agent*, as compared with his sales when he is one of several persons who are selling the product."

---

# Imports and Exports of Asbestos

We have made some comparisons of Import and Export figures in which we think our readers will be interested, and have decided to tabulate these in a manner which will show at a glance the most vital differences, leaving our readers to draw their own conclusions.

*Imports of Asbestos, Unmanufactured.*

| | Feb. 1921 | | Feb. 1920 | |
|---|---|---|---|---|
| From China | 10 tons | $1,124 | | |
| Australia | 1 ton | 363 | | |
| England | – | – | 125 tons | $85,774 |
| Br. S. Africa | 75 tons | 26,006 | | |
| Portuguese Africa | - | 27 | 201 tons | 101,269 |
| Italy | | | 1 ton | 136 |
| | 86 tons | 27,520 | 327 tons | 187,179 |



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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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Imports from Canada for February 1921 amounted to 4,770 tons, valued at $348,489.

*Imports of Manufactured Asbestos Goods.*

| | Feb. 1921 | Feb. 1920 |
|---|---|---|
| From Belgium | $1,738 | |
| France | 22 | |
| Germany | 3,193 | |
| Switzerland | 6 | $ 30 |
| England | 22,566 | 29,997 |
| Scotland | 2,001 | 396 |
| Canada | 1,351 | 31 |
| | $30,877 | $30,454 |

*Exports of Manufactured Asbestos Goods.*

| | |
|---|---|
| February 1921 - - | $358,508 |
| February 1920 - - | 136,201 |

A comparison of the figures for exports to some of the principal countries shows interesting contrasts:

| | Feb. 1921 | Feb. 1920 |
|---|---|---|
| Denmark | $ 3,190 | $ 3,560 |
| Germany | 14,055 | None |
| France | 402 | 3,330 |
| Italy | 4,790 | 6,165 |
| Roumania | 5,267 | None |
| Spain | 1,814 | 669 |
| Sweden | 115 | 2,588 |
| Switzerland | 1,045 | None |
| England | 14,081 | 12,736 |
| Scotland | 1,425 | None |
| Cuba | 47,323 | 30,289 |
| Japan | 5,996 | 1,013 |
| Australia | 6,804 | 1,064 |
| Philippine Islands | 10,606 | 631 |
| *South American Countries* | | |
| Argentina | 3,060 | 2,739 |
| Brazil | 3,574 | 9,184 |
| Chile | 2,990 | 3,341 |
| Columbia | 1,622 | 146 |
| Peru | 5,231 | 3,369 |
| Uruguay | 96 | 5,883 |
| Venezuela | 1,198 | 423 |



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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**



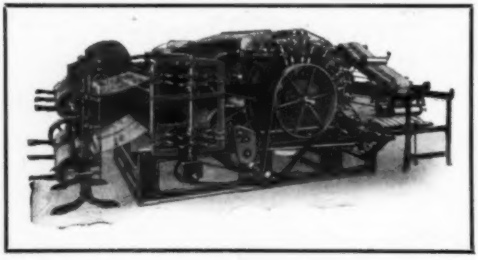
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*When you require*

**Asbestos Machinery**

*you should think of*

**"SMITH & FURBUSH"**



We have built practically all the yarn-spinning equipment for Asbestos in this country.

*Circulars and further particulars on request.*

**SMITH & FURBUSH MACHINE CO.**

**Philadelphia** **Penna.**



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# News of General Interest

The semi-annual meeting of the American Society of Heating and Ventilating Engineers will be held June 14th to 17th at the Hotel Winton, Cleveland.

---

A careful research in England showed that workers were most efficient on Thursday, with Wednesday a close second. The investigation also brought out that Saturday's output, doubled to equalize the full day, was very low, in some cases less than 75% of that on other days. Some English plants found Saturday's output so low they ceased operations on Saturdays. Frequently production gained steadily until Friday. Skilled labor showed a much more consistent, steady production than unskilled.

---

Because of the present economic situation, the Great National Automobile Exposition, which was to have been held at Basel, Switzerland, from May 28th to June 8th, 1921, has been postponed until February 11th to 21st, 1922. New regulations governing this exposition will be issued next fall.

---

Over 30,000,000 squares of asphalt shingles and roll roofing were shipped by the manufacturers in the United States and Canada during 1920.

---

The railroads did not receive operating revenue during 1920 sufficient to cover operating expenses, rents, taxes, etc., neither did they have the resources with which to pay 6% on their investment provided by the new railroad bill. Naturally, and logically, they cannot buy needed equipment. Consequently they must earn their money and arrange their finances before they can become a potential factor in the purchasing field.

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An exhibition representing modern progress in industrial, civic and educational affairs is to be held at Chicago, July 30 to August 14th, 1921.

---

The spring meeting of the American Society of Mechanical engineers will be held in Chicago, May 23rd to 26th.

---

The construction of the new Ford plant at Troy, New York, and the establishment of the new assembling and distributing factory on the western coast of Mexico by the United Trucks Company, both auger well what motor prophets think of the future of their industry.

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Details of specifications of the Gray-Beall four-cylinder Engine are being made public by the Company of that name at Detroit.



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*If you want the best*
*specify*
***SAL-MO***

Inquiries receive prompt
and courteous attention

# Sall Mountain COMPANY

**305 So. La Salle Street**
**CHICAGO**

**NEW YORK CITY**
**141 W. 20th. St.**

**Scranton, Pa.**

**BOSTON, MASS.**
**268 State St.**




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# News of the Industry

The Canada Asbestos & Chrome Company, Limited, will soon commence operations at their Kerr Hill Mine. The mill altho small, is well equipped. Samples of crude have already been distributed.

---

At a special meeting of shareholders, held at Toronto on March 28th, it was decided that the Head Office of the Black Lake Asbestos & Chrome Company be removed to Montreal. The removal was made about the middle of April, the Montreal address being 282 St. Catharine St., West.

---

Los Angeles and other southern California papers have recently printed enthusiastic news items concerning the opening of the West Coast Asbestos Company at Downey, ten miles from Los Angeles. The plant is engaged in producing Asbestos Textiles, and it is reported that its capacity will be doubled immediately.

Actively identified with this new company are Messrs. S. R. Zimmerman and C. L. Hill, President and Vice President respectively, of the United States Asbestos Company at Lancaster, Pa.

---

According to the India Rubber Journal, the first patent for packing was secured in 1871 by Mr. Samuel Turner, now Sir Samuel Turner, of the well known firm of Turner Brothers Asbestos Company at Rochdale, England. It covered packing, made in the form of a ring, from greasy cloth and wire gauze, with a rubber strip in the center, and was used for the stuffing-boxes of steam engines only.

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In the Sunday San Francisco Chronicle, the news of theatrical happenings and personages, is given under the heading "Behind the *Asbestos*." A good advertisement for all members of the Asbestos Industry.

---

The Asbestos Textile Company of New York, with factory at North Brookfield, Mass., has added to its list of products Compressed Sheet Packing. See their advertisement.

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The Metallo Gasket Company have recently issued a booklet on "Metallo—The Dependable Gasket." The book is of handy size and gives full information as to sizes of Metallo Gaskets manufactured.

---

The American Magnesia Products Company of Chicago is planning alterations and improvements to its plant.

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Meyer Davis of the H. H. Robertson Company, Pittsburgh,



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sailed on April 6th from San Francisco, on a trip to the Far East. Mr. Davis is the first salesman sent out by the Robertson Company to that part of the world, and his trip, which will probably extend to 20,000 miles, will include the ports of Honolulu, Yokohama, Manila, Singapore, Hong Kong, Shanghai and other cities as yet not decided upon.

---

The Asbestos & Mineral Corporation distributed its new catalog, mention of which was made in February ASBESTOS, about the middle of April.

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An overheated tar boiler caused a fire on April 12th, at the plant of the National Asbestos Manufacturing City of Jersey City. The roof of the building was destroyed and the loss estimated at about $400.

---

We welcome to our list of advertisers this month the Waite-Wild Asbestos Company, Inc., of Framingham, Mass. It may interest our readers to know the personnel of this organization: Officers are R. S. R. Wild, President; E. E. Waite, Vice President; William E. Sullivan, Treasurer. Directors are John J. Prindiville, George H. Fitts, Ira L. Lewis and John T. Butterworth, all these gentlemen being connected with banks in Framingham; also A. F. Townsend, President of the Manhattan Rubber Company, Passaic; H. T. Shriver, of T. Shriver & Company. Small interest is also held by C. H. Thompson, J. A. Harrington and P. C. Browne.

---

The four bowling teams of the H. H. Robertson Company, of Pittsburgh, named respectively Asbestos, Asphalt, Steel and Gypsum, compete each year for a pennant. We are glad to say that during the 1920-21 season the Asbestos team won.

---

There have recently been some rumors abroad to the effect that an effort is to be made to change the standard Brake Lining List. By standard, we refer to the list which prices 2 inch x 3/16 inch at 90c per foot. It is our understanding that all of the large, well-known manufacturers of Brake Linings are using the so-called 90c list, and unless a very real need exists for the changing of the list, it would appear to be unfortunate if change were made. The Editor would appreciate being informed by anyone of developments in this connection.

---

On the day on which May ASBESTOS is placed in the mails, May 15th, our good friend, Mr. Alvin M. Ehret, President of the Ehret Magnesia Mfg. Company, Valley Forge, Pa., celebrates the anniversary of his birth. We extend to him our congratulations and best wishes.

---

George D. Crabbs, President of the Philip Carey Manufacturing Company, sailed on Thursday, May 12th, for a brief bus-



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# They thought 85% Magnesia Covering was fragile until—

The very lightness of 85% Magnesia Pipe and Boiler Covering now and then gives occasion to a wrong notion, which promoters of proprietary coverings are glad indeed to encourage. The notion is that 85% Magnesia is very fragile.

But the *truth* is that 85% Magnesia has a surprising crushing strength. A half section of 1¼-inch or 1½-inch thick covering can be put flat on a floor, without any pipe underneath to give support, and a heavy man may stand on the half-section with his full weight. When this test was made recently in our offices, it proved astonishing to a number of men of engineering training.

85% Magnesia is not merely of high and enduring heat insulating quality. It has the stiffness and textile strength to stand considerable pressure without cracking or sagging. Its lightness is a real advantage because the weight adds little to the weight of a pipe line and lessens the danger of sagging through vibration

## MAGNESIA ASSOCIATION *of* AMERICA

**721 Bulletin Bldg., Philadelphia, Penna.**

**EXECUTIVE COMMITTEE, Wm. A. Macan, *Chairman***

| | | |
|---|---|---|
| George D. Crabbs | The Philip Carey Co. - | Cincinnati, Ohio |
| Alvin M. Ehret | Ehret Magnesia Mfg. Co. - | Valley Forge, Pa. |
| J. R. Swift - | The Franklin Mfg. Co. - - | Franklin, Pa. |
| R.V. Mattison, Jr. | Keasbey & Mattison Co. - - - | Ambler, Pa. |




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iness visit to England. Mr. Crabbs is accompanied by Mrs. Crabbs.

---

A very interesting one month calendar has reached this office from the General Asbestos & Rubber Company, Charleston, S. C.

---

F. C. Weber, formerly connected with the Mount Joy Magnesia Company, has accepted a position with the Asbestos Shingle, Slate and Sheathing Company of Ambler, Pa.

---

On May 27th, M. B. Barkley, Vice President of the General Asbestos & Rubber Company, Charleston, S. C., will celebrate his birthday. Congratulations and best wishes, Mr. Barkley.

---

Mr. and Mrs. C. Huber have returned from Florida, where they spent the winter.

---

The Asbestos Textile Company of New York City, have moved their offices from the Woolworth Building to large and commodious quarters at 18 E. 41st Street.

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The Editor's office is grateful to the Ehret Magnesia Mfg. Company for very useful paper weights, which cleverly illustrate the application of 85% Magnesia to steampipes.

---

From current newspapers it is noted that Milton Hersey & Company, Ltd., industrial engineers, are credited with the approval of valuable California Asbestos deposits, the owners of which are seeking funds for development work.

---

H. C. Smith, for seven years manager of Keasbey & Mattison Company's Pittsburg Branch, is now President and General Manager of the Marian Products Company, 432 Diamond St., Pittsburg. The Marian Products Company specializes in Asbestos materials of every description.

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Mr. A. W. Koehler of the Asbestos Textile Company, Messrs. Donnelly and Cornog of the Multibestos Company, and Mr. John F. Bolger of the Allbestos Corporation, have been recent callers at our offices.

---

The Federal Trade Commission has cited the Asbestos Roofing Company of Boston, in complaint of unfair competition in the sale of a roof-coating preparation designated "asbestos liquid roofing." The complaint is directed to the company's advertisements, and sets out that "asbestos liquid roofing" is advertised to be "a thick, elastic, water-resisting compound of long-fibered asbestos, asphalt and waterproof gums, and makes a roof-coating that will last for years and will not run, crack or blister like ordinary paint, and is acid and alkali proof."

The complaint avers that this "asbestos liquid roofing" is



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# Consolidated Asbestos Limited

*MINES AT*

THETFORD MINES, QUEBEC, CANADA
ROBERTSONVILLE, QUEBEC, CANADA

## Miners of all Grades *OF* ASBESTOS CRUDE and FIBRE

*EXECUTIVE OFFICES*

Dominion Express Building
145 St. James St.
Montreal, Canada




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composed of 95.1 per cent coal tar and 4.9 per cent asbestos and mineral matter ash, with asphalt, if present, in such small quantities as to be undetectable by ordinary methods of analysis, and that the company's advertisements are false and misleading.—New York Commercial.

E. H. Bronner Company of New York City, dealers in Asbestos & Rubber Packings, Belting, Hose, Gaskets, etc., have moved their offices to 94 Park Place. They were formerly located at 19 Park Place.

# Conditions in Various Markets

*Wire.*

The Standard Underground Cable Company, commenting on the condition of the market in brass and copper wire, says:

Copper has shown a slight weakening tendency in the last ten days, tho producers are holding at a slightly higher level than a month ago. Offerings by second-hands are light, in fact there is little copper available apart from producers' hands.

Imports are falling off, a fact which, if continued, will increase the effect of the curtailment of production in this country in which three-fourths of the large producers have joined. Statistically, the situation is improving, and as prices are already below the cost of production, for both copper and spelter, the probability of advances may be considered greater than the probability of any further declines. Some of the largest users of fine sizes of brass and copper wire are now booking large orders for shipment over the second and third quarters of 1921.

*Bands.*

The Ritter Can & Specialty Company tell us that there has been no change whatever in conditions obtaining in the pipe covering band market as reported by them in April ASBESTOS. They still advise the purchase of large quantities on a differential basis.

**POSITION WANTED**—Weave room foreman, familiar with listing, cloth and brake lining, also twisting, spooling and warping. Employed at present. Desires to make change. Best of References. Address E-1, Care "ASBESTOS," 721 Bulletin Bldg., Philadelphia.



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# ELWOOD J. WILSON

*Mining Engineer*

**76 CORTLANDT STREET**
**New York City**

---

## Asbestos Crude and Fibre for Sale

Thetford Crudes, Rhodesian Crudes
Rhodesian Carded Crudes
for immediate shipment, ex warehouse N. Y.

**CHRYSOTILE ASBESTOS ONLY**

---

**Will Examine and Report on Asbestos Mines and Prospects Anywhere**

***Correspondence desired with Owners of Asbestos Mines with a view of Purchase***




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# Afterthoughts

The Sales Manager of one of the Asbestos Firms, when asked the other day if he read "ASBESTOS," laughingly told us "Yes, ads and all." From all the facts we have so far been able to gather, it seems to be the general procedure of subscribers to read ASBESTOS from cover to cover. This should encourage our advertisers to use their page, or half page or quarter page, as the case may be, for the purpose of telling our readers each month, interesting facts or stories about their goods or service. Vary the theme, or the layout, or both, so that readers will not be tempted to skip your ad. under the assumption that it has been read before.

The graph on page four of this issue should be of interest to salesmen of insulation materials, and not only of interest but of assistance. We mention it here, so that you will again turn to it and study it carefully.

Many of our subscribers have been waiting for Mr. RuKeyser's article on Methods of Mining and Milling Asbestos, the first section of which appears in this number. You will find it very interesting, but we believe the second and third sections, to appear in June and July respectively will be even more so. All will be properly illustrated and when completed will form, we believe, the only complete treatise on the subject in existence.

Let us say just a word about the statistics which we print from time to time, especially those on production of Asbestos in various countries. These tables are gathered from various places, and none are used unless they are obtained from reliable sources. Even at that discrepancies may be noted, due to many cases beyond the control of the compilers. It is our belief, however, that these tables are helpful, particularly for reference when figures of this sort are needed at a moment's notice and the differences in the figures are not great enough to affect the value of the tables themselves.

The article on China under Notes from Mining Centers has been supplied by one who is in intimate touch with the Chinese field. We have in our possession a picture showing the Chinese miners at work, and expect to publish this in some future issue. Owing to lack of space it was not possible to print it in this number.

Finally, we want your help. As we said last month the Asbestos concerns are by far too modest. Give us news items of your company. And if you want publicity for any purpose, let us know.



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QUALITY USACO PACKINGS

**United States Asbestos Company**

**General Office: Lancaster, Pa.**

**Mills at Manheim, Pa.**

Manufacturers of asbestos yarns and fabrics, also packings and friction facings.

Sold exclusively to manufacturers of rubber goods, packings, and brake linings, and to distributors of asbestos materials on a quantity basis.

**Branches**

**New York** **Boston**



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Asbestos Paper
Asbestos Roll Board
Asbestos Mill Board
Asbestos Packings
Asbestos Pipe Coverings
Asbestos Blocks
Asbestos Cements
Asbestos Roofings
Asbestos built-up-Roofing Felts
Asphalt Roofings
Asphalt Felts
Slate Top Roofings
Slate Top Shingles
Coal Tar Felts
Coal Tar Products

**H. F. WATSON CO.**

*Main Office and Factories*

79 MILK ST. BOSTON — **Erie, Pa.** — 319 N. WELLS ST. CHICAGO



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*Established 1897*

## *Ehret Magnesia Mfg. Co.*

*Valley Forge - Pennsylvania*

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**Manufacturers**
**of**
**EHRET'S**
**85% Magnesia Pipe & Boiler Coverings**
**85% Magnesia Plastic**
**Powdered Carbonate of Magnesia**

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Plant and Executive Offices
VALLEY FORGE, PA.

Branches—
NEW YORK - PHILADELPHIA - CHICAGO

Representatives—In all principal cities


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# ÄOBEOTOS

By ROY A. SMITH

I am ASBESTOS.

Born of a volcanic mass, sired by heat, reared thru the ages.

The sun never sets on my domain.

My names are legion—Crocodolite, Actinolite, Chrysotile, Amphibole and Talc.

I am a siliceous matter, either of Magnesia or Iron.

The industries know me in my better worth as Chrysotile.

I filter your acids.

I cover your steam lines.

I protect the boilers of your merchant fleets and your navies.

I defend the steam on your railways.

I insulate your high tension electric carriers.

Thru me, wireless and cables are possible.

I protect you in your playhouses and schools.

I roof and side your industries and homes.

I protect you from fire.

I expell the winter's blasts and the heat of summer.

Many men have gone thru the "Valley of the Shadow" for me, have fought for me, have grovelled in the cold of Canada and Siberia, have sweltered in the heat of Africa and India, have starved in China and Japan, that I might "carry on." That thru me, your coal supply be conserved, your power developed and the marts of Commerce and Industry of the world function to your mutual advantage.

Mars knows me in many forms—as gas containers, as a gas protective filter, as a ship deck covering, as an arsenal protector, as a detonator gasket, as a dirigible shed, as brakes and clutches on your tanks and as coffin containers for your dead.

I am the strength of the world.

I am ASBESTOS.

Robinson Press.
Hatboro, Pa


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