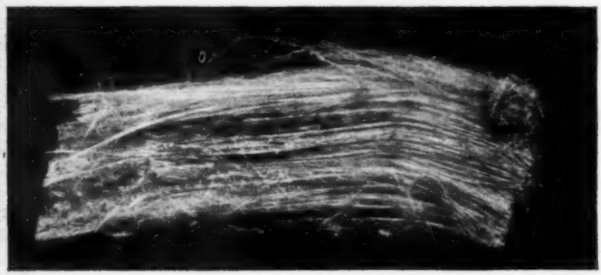
ASBESTOS

Vol. 5 SEPTEMBER 1923 No. 3



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

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Electrical and Mechanical Engineers

Electrical engineers have untiringly sought for better electrical insulation.

They want 100% efficiency and they come pretty near getting it.

Imagine one of them passing by a small short because it is insufficient to stop the machine.

It isn't done.

Electrical insulating is an old institution. The advantages to be gained by use of the best in that line have had time to prove themselves.

The first attempt to use heat insulation in power plants was made not many years ago.

Progressive mechanical engineers quickly adopted the idea.

For a time they sought to improve the materials used, so that losses would be reduced and efficiency brought nearer the 100% goal.

Then came a period when the attention of many centered on the other developments of tremendous import which they were bringing about.

The subject of insulation was dismissed with, "A certain amount of heat loss is unavoidable. This will be good enough."

Heat and electricity are readily interchangeable forms of energy.

Of recent years the mechanical engineer, like his brother in electricity, has opened his eyes to the fact that he can introduce no feature to show greater decrease in power production expense than the best available heat insulator.

2 Point, developed in recent years, employs thin sheets of felted asbestos as a vehicle for Kieselguhr. A special process secures great quantities of air in tiny cells throughout the material.

It embodies such efficiency and lasting qualities as to warrant its careful consideration by every engineer and purchasing agent.

Norristown Magnesia & Asbestos Company

NORRISTOWN, PA.

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A MONTHLY MARKET JOURNAL

DEVOTED TO THE INTERESTS OF THE
ASBESTOS AND MAGNESIA INDUSTRIES

A. S. ROSSITER - - - - *EDITOR*

PUBLISHING OFFICE
246 NORTH 17th STREET
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Volume V SEPTEMBER 1923 Number 3

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THE MINE AND MILL OF THE QUEBEC ASBESTOS CORPORATION AT EAST BROUGHTON, P. Q., CANADA

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The Canadian Asbestos Pits

Impressions of a Tourist

The recent announcement in "ASBESTOS" to the effect that a citizen of North Carolina had informed the world that the so-called mineral "Asbestos" was really a mixture of soapstone and paper particles, inspired the writer to visit the Canadian Mines and determine to what extent an unsuspecting public was being hoaxed.

Since there was nothing in Thetford and vicinity to indicate any foundation for the report, the apparent sincerity of the gentleman from North Carolina suggests the thought that this may be one more evil to lay at the doors of Volsteadism.

The mine of Consolidated Asbestos Limited, which was inspected more in detail than any of the others, offers a very fine opportunity for a layman to get acquainted with asbestos mining, in that it combines surface mining and the stope method in the same property.

The surface mining consists simply in blasting the rock on the surface, separating the crude by hand, and removing the rock either by hoist or thru the glory holes at the bottom of the pit. The face of the pit drops at an angle of about forty-five degrees and is a somewhat hazardous promenade for one not accustomed to it.

On the property of the Asbestos Corporation nearby the rock is handled entirely thru a battery of six hoists, said to be the largest installation of its kind in the world.

After an inspection of the "pit," the members of the party were invited by Mr. C. J. Stover, President of Consolidated Asbestos Limited, to visit the underground workings of the mine. In extending the invitation, Mr. Stover took care to mention the fact that the approaches up to the stopes were constructed for an average sized man, and that he would assume no responsibility if the writer, classed as a "double out size," got stuck in the passageways.

The party was brought within hailing distance of China by elevator and then conducted thru the main passageway and out into the smaller galleries from which the rock is obtained. At intervals, on the smaller galleries, stopes are driven vertically to meet the bottom of the sur-

ATION AT EAST BROUGHTON, P. Q., CANADA

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face pit. By successive blasts a solid column of broken rock is obtained in the stope and this is drawn thru a small opening at the bottom into the cars on the tracks. The latter are then pulled up an incline to the mill.

While inspecting one of the stopes, the acetylene torches carried by the party suddenly went out as a result of a sudden blast. The guide informed us that that was only a minor blast and that it would be much harder when they got closer. The members of the party immediately decided that the torches showed good sense, and went out the nearest way.

Neither was progress in anyway delayed by the remark of the guide who informed us that the rock overhead was "slippin' some" and would have to be fixed "sometime soon."

The mill offered a very interesting, tho dusty, sight, the rock being followed thru from the crushers and dryers to the finished fibre. The different grades of fibre were obtained by a series of separations thru sifting and suction, mechanical means being used entirely.

Not the least interesting portion of the visit consisted in watching the performance of a horse which drove into the mill, backed to the loading bins, dodged bags of fibre, posts, etc., and then found his way out, entirely without guidance.

On days when the wind is blowing right, a heavy cloud of dust is always in the air and carried over the town like a cloud of snow. The streets and buildings became a pure white and the effect is very startling to a stranger in the city.

We have an inquiry for the name of the manufacturer of brake lining who uses as his trade name the word "Fireproof." Can anyone tell us who makes or sells brake lining under this brand name?

Don't regret too much your ups and downs; after all the only man who has them not is in the cemetery.



If we saw others as they see themselves
The hats of men would all be number twelves.

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EDITORIALS

Asbestic—Can it be Produced with Profit?

In a recent issue mention was made of a "huge asbestos deposit" which was to be developed in the Transvaal by American capital.

While nothing of a very definite character has been learned of this new development, we find that the man in Africa interested, and reported to be manager of the project, is H. B. Cowhan, and that the deposit is asbestic rather than asbestos.

Mr. Cowhan has been in communication with us on various occasions, and it is he who is interested in the New Gloria Asbestos and Asbestic Mines, Ltd., a short account of which was given in the February 1923 issue, page forty. Also see page 22 of this issue.

It looks as tho these two projects are one and the same or else new deposits are to be opened up near the New Gloria holdings.

Some of our correspondents express doubt that such a large deposit of low grade material could be operated with profit. The principal uses for Asbestic are for stucco and cement, sometimes used in paint. The question which naturally arises is:

Could even "steam shovel" methods, which it is claimed will be used, produce at a cost sufficiently low to make a profit over the high cost of transportation?

It is hardly possible that Africa could absorb all the material produced, even tho new uses were found and a variety of materials made.

We have tried to have the mine operators discuss this question, but without success, possibly because they have no interest in the matter and are too busy to take the time to comment on it.

We would appreciate hearing from any of our readers who have an opinion on the subject.

Asbestos Breaks into Fiction.

Some weeks ago, in reading a story of Africa, which appeared in one of the Crowell publications, the Woman's Home Companion, we were surprised to learn that the

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heroine of the story, in traveling thru the African Wilds, had the apron of her helmet made of asbestos cloth. The cloth was used to protect the carotid arteries, the sponge bones of the face and the throat from the fierce sun of the tropics. We do not know whether asbestos cloth is used regularly in the tropics for this purpose, or whether the use of it in the story was due simply to the author's imagination.

Not to let Crowell get ahead of him, Mr. Curtis now comes out with a story in the Saturday Evening Post (issue of August 18th) the title of the story being "Unsealed" and written by Hugh MacNair Kahler. Mr. Kahler's hero (it always appears to be the heroes and heroines that use asbestos) first of all has a neat card engraved:

ACME
The House that Put the Best in Asbestos
ROLAND H. SIMPSON, Asst. Sales Mgr.

The villain, (or near villain—he doesn't seem to be so villainish) asks what is made of asbestos, and the heroine says:

"Oh, ever so many things! You'd be amazed at the importance of it. We could hardly live without it. It's in almost everything it seems, shingles and brake linings and pipe insulation and ———."

Evidently that heroine was better informed than most! But the villian is not impressed. He calls "Putting the best in Asbestos" no less than a *barbarous* slogan, and is amazed that the heroine would dare to think of talking to him about *so commonplace a thing* as brake lining.

The story ends, as all good stories do, by the hero and heroine marrying and living happily ever after, presumably in a house with an asbestos shingle roof and asbestos pipe insulation in the cellar.

Persistence.

Given—a subject of interest to practically every man, woman and child in the country, a remedy for the existent ill, a lot of energy and ideas, and a deal of persistence, and we have—what?

A propaganda campaign which is really worth something, both to the public and to the sponsors.

The above pretty accurately describes the campaign

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Yarns, Brake Linings Tapes and Cloth

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HIGH GRADE ASBESTOS TEXTILES

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Plain and Metallic Cloths
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Gaskets, Seamless and Jointed
Packings, Steam and High Pressure
Wick and Rope

Asbestos Fibre Spinning Company

North Wales, Penna.

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now fully under way by the Asbestos Brake Lining Association.

The association is persistently hammering into the public's rather dull head the fact that bad brakes are dangerous and that said public can prevent many accidents by seeing that its brakes are in good working order, and by making the other fellow keep his brakes up to par also.

Much good has been accomplished. Much is still to be done. But the persistence of the Association is marvelous. It seizes every opportunity to make the public "brake conscious." Its articles, its literature, its slogan, all stress brake inspection—never brake *lining*. It seeks by devious rather than by direct route, to increase the demand for brake lining, and while the campaign has not been conducted long enough to show up prominently on the sales sheets, there can be no question as to the result so far as sales are concerned. Naturally brake inspection means that many cars inspected will need new lining.

No one will deny that a campaign of this sort is badly needed, particularly if they happen to have seen the news item appearing in a recent Cincinnati paper, where a man is held for manslaughter because his automobile struck and killed a ten year old child. The police tested the brakes on the car immediately after the accident, and found that they were unable to stop *within* 100 *feet when traveling at fifteen miles an hour.*

Brake Inspection—Your Protection



Was He Fireproof?

A rather novel use for asbestos was brought to our attention recently. It appears that a man in Central Valley, New York, was guilty of some misdemeanor, and a band of masked men decided to punish him. The proverbial tar and feathers were evidently not available, however, and therefore they decided to give the man a coat of paint and asbestos.

We are unable to learn where the asbestos was obtained or what grade was used. Evidently some Asbestos contractor near Central Valley, is short several pounds of fibre which he intended to use in the making of asbestos cement, or perhaps he donated it for the good of the cause.

With the spreading of the Ku Klux the introduction

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of asbestos and paint in their methods of punishment, might prove profitable for some enterprising handler of asbestos fibres, if it were judiciously advertised to the Klan heads (?)

It might even pay to have the matter made a subject of investigation and experiment by the Chrysotile Fellowship—to determine which particular grade and variety of Asbestos would give the best results—viz: the most painful, and hardest to get off.

Evidently the Ku Klux (if such they were) had the future good of the victim in mind, rather than his present comfort!

But why not go farther, and ride the victim out on a real asbestos rail—made of asbestos lumber?



What Percentage of Your Sales Literature Actually Reaches the Consumer?

That is the question that stared up at us from our mail one morning. It made us pause a full minute in the most pleasant, but likewise busiest hour of the day, to consider the tremendous loss economically to the country, every day, in waste literature, and to wonder how much of the circular matter we send out is used and how much carelessly tossed aside into the eager receiver of discarded office material—the waste basket.

A few days tab on our waste basket reveals in this small office a daily average of at least five pieces of circular matter which are of no interest to us.

One, perhaps, is a large circular on coated paper stock, designed to advise us of the circulation of one of the large New York dailies—information which may be of some interest in the abstract but of no real earthly use to us.

The second, probably a mimeographed letter under a two cent stamp designed to give us some "news" to publish in "ASBESTOS." If we used all such matter reaching us, the magazine would be three times as thick as it is and full of irrelevant material.

The third a handsome example of multicolor work put out by a paper manufacturer, advertising the fine quality of his paper stocks.

And so on. The only usable thing we found among

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the lot was the color booklet, which we passed over to one of our clerks, whose little sister would be delighted with the pretty pictures.

When you consider that five pieces of useless mail matter is the daily average of one small office, can you imagine the tons of paper that the tired postman must carry on his rounds in the year, only to be the cause of more work for an already overworked janitor.

We can cut this waste in two if we take a little thought. Often by seeing that our name is taken off mailing lists, by advising advertisers of duplication, and best of all by checking up our own mailing lists and making as certain as is in our power to do, that our circulars go where there will be at least a possibility of interest.

Asbestos Clay

Near Mertztown, Penna., there is a deposit of what is termed "Asbestos Clay."

The material has been used for about fifteen years by the manufacturers of asbestos boiler covering cements. Its chief feature is its weight (40 lbs. to the cubic foot when drilled and powdered), this weightiness increasing the covering capacity. The particles of clay are cellular in formation, which increases its insulating properties. It is light tan (chocolate) in color.

The deposit is mined at present in an open cut, but the owners, owing to the increasing depth, will soon adopt underground mining. After the material is mined it is dried in kilns, broken up by special machinery, and then put thru pulverizing machines. The output of the deposit is regularly taken up by the manufacturers of cements, making the advertising and selling expense very small. At present the entire output is sold east of Minnesota, the freight rates to points farther west being prohibitive.

Curiously enough the material bears very little, if any resemblance to Asbestos, either in appearance, chemical properties or special characteristics, and the name has evidently been given it because of its association with asbestos in asbestos cement.

The deposit is owned and worked by the Atlas Mineral Products Company of Mertztown.

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MARKET CONDITIONS

There seems to be so little change in the market situation from month to month that sometimes we fear our comments seem like mere repetitions, even tho we are constantly receiving letters from various parts of the United States and, in fact the world, giving market information.

Raw Material

The two outstanding features in the raw material market today are:

First, the very slight demand for spinning fibres as compared with low grade material. This is remarked on by both Canadian and African Asbestos Mine Operators, and as one of our African friends puts it: *"By accepting contracts for the lower grade we are automatically producing double the quantity of the higher grade, and are locking up a large and increasing amount of capital represented by stock."*

The second factor is the very low prices prevailing for practically all grades and the seemingly blind faith of the users that prices will go still lower. One of our readers who has given careful thought to this phase of the subject makes the following comment:

"According to the Quebec Government reports, the average selling price per ton of fibre obtained in 1922 was approximately only 40% higher than the pre-war level. Against this increase, wages, which constitute about three quarters of the cost of production, have doubled, power and supplies have increased about 75% over the pre-war basis, and it is common knowledge among most industries that labor produces less today than prior to the war."

In the face of these well known facts, is there any reason why prices of raw material should go down?

Manufactured Products

As to manufactured products, the only alarming factor in the situation is, again, price.

While building statistics show that construction has decreased quite noticeably, the manufacturers and dealers in both high and low pressure coverings are finding plenty to do. A western dealer reports that they confidently expect

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pipe covering contractors to have more work in the next year than they can possibly handle and that their only problem is to secure sufficient men and material to take care of the business offered. A southern man tells us that they are enjoying their usual amount of covering work, that they have noticed no marked curtailment in building in their section, and that indications are for good business during the next six months. And in the east, the prevalent opinion, as summed up by one distributor, seems to be that while low pressure coverings have fallen off considerably, demand for high pressure covering is now on the increase and will continue so. Also the usual seasonal demand for low pressure is expected to appear during the late fall and early winter. Pacific Coast manufacturers and dealers are finding increased demand for all kinds of insulation and asbestos materials. All of which would indicate that the outlook as a whole in the insulation line is very favorable with nothing to fear except the usual amount of competition.

We have been interested in collecting opinions as to the packing business. The result indicates a general belief that while the business in this line is slow at present it promises to pick up during the fall, one of the eastern firms reminding us that the railroads will no doubt begin buying during the fall months.

The shingle business will naturally decrease with the coming of winter, and the same cause may slacken the brake lining demand, altho here the relining division becomes quite a factor. Cars to be overhauled for the winter will no doubt heed the warning issued by the many safety councils, citizens committees, etc., and have their brakes inspected and relined.

The money situation is such that manufacturers show a tendency to hold down expenses to the lowest point.

If you wish to know a man's real character, watch not what he says but what he does.



An optimist is the person who says, "Please pass the cream," when the pitcher contains milk.

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Asbestos in the Union of South Africa

By A. G. Pryce Williams, B. Sc.

(Continued from August Issue)

Deposits of the Transvaal

Four varieties of asbestos of economic importance are known to occur in the Transvaal territory, crocidolite, chrysotile, amosite and tremolite.

Chrysotile

The first to be exploited was chrysotile in the Carolina district. Here chrysotile occurs as bedded cross fibre veins in a zone of altered dolomite in proximity to an intrusive sill of the diabase family. The formation lies at the base of the Pretoria series. The fibre horizon appears to be fairly continuous over a length of 20 miles but values are irregular. Fibre of long staple predominates. one of the properties yielding over a face of 1300 ft. the following proportions:

Seams of ½" fibre and less	19%
Seams ¼" to 1"	33%
Seams 1" and over	48%

The fibre is a delicate pale green but when fiberized is pure white, of high tensile and spinning quality. Fibre as long as 6" has been recovered altho this is exceptional, the most frequent values being between ½" and 1¼". The proportion of fibre to total rock mined has been variously estimated between 1 and 2%. The deposit was first worked in 1905 and carried on intermittently by successive companies and syndicates until the early part of the war, since when production has been continuous and development and mining work more systematic. The mode of preparing the fibre for market is primitive, hand-picking, cobbing, screening and bagging being the only operations necessary. The fibre enjoys a specialized market and the output has never been very large.

In geological features, mode of occurrence and quality of fibre, the Carolina asbestos forms a striking parallel to that of Arizona.

Recently discoveries of chrysotile have been made and exploited near Johannesburg and Barberton. Some of the fibre from the latter area has been marketed in the States

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and excited interest on account of its superior quality. Chrysotile occurs at several localities in the district in an irregular serpentine belt associated with the characteristic basic schists of the Jamestown series. In some instances chrysotile has been found in altered dolomite with reference to intrusive dykes as in the Carolina deposit. The fibre varies widely in quality and none of the deposits are of large extent.

Amosite

The existence of asbestiform minerals in the Lydenburg district of the Transvaal has been known for many years but exploitation of the present amosite deposits dates back to 1915. The new fibre was found in association with crocidolite and in identically the same formation of banded ironstones as in the lower Griqua Town series of the Cape Province, but in this case at the base of the Pretoria series. Its grey white color, and abnormal length at once differentiated it from the known crocidolite and appeared to indicate a new variety of amphibole by its low soda content, which may account for the variation in color, and its striking resemblance to the cummingtonite and grunerite group, found in Massachusetts and France respectively, has been remarked. Amosite is unique in its remarkable fibre length, averaging 6″ to a maximum of 11″.

The present fibre area has a lateral extent of over 60 miles and a maximum width of 6 miles. All the veins are of the cross fibre type and are interbedded with the banded ironstone trending with the dip of the country. The principal mines now operating are the Egnep and the Amosa where the fibre zone has been well developed, the fibre continuity being proved for at least 500 ft. along the strike and 300 ft. along the dip. The system of grading depends on color and flexibility and not fibre length and three grades are distinguished. The Northwestern section of the Amosite occurrence falls into the Pietersburg district and here amosite is found in close association with normal crocidolite. In an individual vein both the normal blue crocidolite and a yellow fibre closely resembling amosite have been noticed. Information is not available as to whether the chemical analysis of the latter corresponds with amosite tho it has been demonstrated that certain gradations of color depend on varying soda content.

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ARIZONA



CANADA

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IMPORT

EXPORT

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Both amosite and crocidolite are mined but the output is small and development has not proceeded to such an extent as in the Lydenburg section.

Tremolite etc.

In the Northern Transvaal tremolite has been worked but the deposits are small and the product chiefly consumed locally.

A remarkable occurrence is reported at the New Gloria Mine, 45 miles West of Waterpoort in the Northern Transvaal. Asbestos is said to occur in a formation different to any so far known in the Union or Rhodesia, and this has led to the application of the misleading term "asbestic" to the fibre. It is probably a mass fibre of the amphibole variety similar to an occurrence in the Belingwe district of Southern Rhodesia.

Deposits in Natal

Recently there has been a revival of interest in the chrysotile fields of Natal and fresh capital has been raised for their exploitation. The most productive area is in the Tugela valley, Zululand and near Dundee, where serpentine occurs traversing a bed rock of hornblende schist, and in association with granitic rocks. The fibre hitherto produced has not been of high quality and the grading has been indifferent. The Buffalo Asbestos Company and Natal Asbestos Limited[1] have now entered the field and are systematically exploiting and developing the deposits. Milling machinery has been installed capable, it is said, of an output of one ton per day. Proximity to rail and coast give these companies an immense advantage over Transvaal and Rhodesian competitors.

Tremolite has been worked in the Klip River location 25 miles from Dundee by the African Asbestos Company and the Buffalo Asbestos Company. The fibre occurs in a soft talcose rock, is of a soft character, white, silky but very brittle. It has been used for steam and acid jointing, boiler lagging and steam packing. It might find a useful application as a filtering medium for acids and corrosive liquids as is done in the States.

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[1] Natal Asbestos Limited have almost ceased operations on account of lack of capital.

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Asbestos Mines Limited

Mine at East Broughton, Que.

Head Office
JACOBS BUILDING
Montreal

Branch Offices
Paris Hamburg Yokohama

New Mill With Increased Capacity and Most Modern Improvements

Deliveries of the standard grades:

X Fibre
XX "
C " 40 Per-cent More Absorption Than Others.
313 Cement
7 " Largest Covering Capacity
5 "
Floats

Asbestowall For Plaster, A Specialty

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Aminco

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SHINGLES

ASBESTOS
LUMBER

ASBESTOS
CORRUGATED
SHEATHING

National Distribution Through Exclusive Agencies

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350 Madison Avenue
At 45th Street
NEW YORK - - N. Y.

ASBESTOS

Thetford Crudes, Spinning and Magnesia Fibres, Shingle and Paper Stocks, Cements

Inquiries Solicited

The Expert Examination of Asbestos Properties

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Black Lake Asbestos and Chrome Company
LIMITED

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

Mines at Black Lake, Que.
Canada

CRUDES and FIBRES
Shingle Fibres a Specialty

Head Office
Jacobs Building
MONTREAL

Franch Offices
Paris Yokohama Hamburg



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Imports and Exports of Asbestos

Imports into U. S. A.

Unmanufactured Asbestos:

	June 1923 Tons	Value
Italy		$ 4.00
England	289	65,675.00
Quebec & Ontario	13,350	663,609.00
British India	1	392.00
British South Africa	16	2,655.00
Port. E. Africa	12	2,800.00
Other Portuguese Africa	33	7,600.00
	13,701	$742,735.00

Manufactured Asbestos:

	June 1923 Lbs.	Value
Austria	28,390	$11,232.00
Belgium	1,304,968	24,878.00
Netherlands	105	45.00
England	13,193	6,271.00
Quebec and Ontario	176,928	4,480.00
	1,523,584	49,606.00

Exports from the U. S. A.

Exports of unmanufactured asbestos for the month of June totalled 33 tons, valued at $3,157.

Exports of manufactured asbestos goods:

	June 1923 Lbs.	Value
Paper, Millboard and Rollboard	339,032	$17,069.00
Pipe Covering and Cement	536,955	32,859.00
Textiles, Yarn and Packing	116,075	73,379.00
Magnesia and manufactures of	440,230	26,621.00
Roofing	11,920 sqs.	83,846.00
Other manufactures of Asbestos	189,013	61,907.00
		$295,681.00

Imports by England.

During June, England imported the following raw asbestos (including asbestic):

	Tons
From Rhodesia	654
From Canada	260
From Other Countries	517
	1,431

During the six months ending June 1923, England

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MANUFACTURERS OF

PACKINGS

FOR ASBESTOS, RUBBER AND PACKING COMPANIES

Compressed Sheet Packing
High Pressure Packings
Valve Stem Packing
Metallic Sheet Packing
Gaskets & Gasketing Material
Yarns, Cloth & Tape
Brake Lining

"Every operation, from the Asbestos Rock to the Finished Product, done at Our Own Factories."

ASBESTOS TEXTILE CO.

MILLS
North Brookfield
Mass.

GENERAL OFFICES
18 E. 41st Street
New York, N. Y.

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imported the following raw asbestos (including asbestic):

	Tons	Value
From Rhodesia	5,020	£157,670
From Canada	1,557	25,583
From Other Countries	3,753	123,384
	10,330	£306,637

and re-exported 5,861 tons valued at £225,022.

It is interesting to compare these figures with those for the first six months of 1921 and 1922.

	1921		1922	
	Tons	Value	Tons	Value
From Rhodesia	8,046	£494,715	1,892	£86,236
From Canada	3,661	122,614	1,125	41,718
From Other Countries	3,297	130,299	4,936	167,263
	15,004	£747,628	7,953	£295,217

Re-exports for 1921 totalled 2,859 tons, valued at £177,387; for 1922, 4,097 tons valued at £171,202.

Exports made by England.

Exports made by England of asbestos manufactures during the six months ending June 30th, were as follows:

To Netherlands	166	£17,222
France	188	52,531
United States of America	43	9,946
British India	881	49,996
Other Countries	3,840	249,721
	5,118	£379,416

It is interesting to compare these figures with those for the first six months of 1921 and 1922.

	1921		1922	
	Tons	Value	Tons	Value
To Netherlands	153	£21,387	124	£16,732
To France	136	31,936	144	43,927
To United States of America	179	32,456	60	13,426
To British India	723	50,231	885	63,037
To Other Countries	4,993	378,678	3,333	255,030
	6,184	£514,688	4,546	£392,152

Exports from Canada (Raw Asbestos)

	May 1923		May 1922	
	Tons	Value	Tons	Value
United Kingdom	215	$11,475	635	$66,767
United States	9,836	600,534	6,360	288,651

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	May 1923		May 1922	
	Tons	Value	Tons	Value
Australia	...	.....	25	6,000
Austria	...	.....	...	.....
Belgium	750	43,663	95	6,500
France	300	18,050	235	20,160
Germany	912	77,839	412	58,175
Italy	...	.....	...	.....
Japan	175	7,386	100	5,660
Netherlands	20	1,200	20	300
Spain	...	.....	...	.....
Switzerland	...	.....	...	.....
Other Countries	...	.....	...	.....
Total	$12,208	$760,147	7,882	$452,213
Sand and Waste:				
United Kingdom	...	.....	...	.....
United States	6,727	77,874	3,384	33,508
Other Countries	60	900	...	.....
Grand Total	18,995	$838,921	11,266	$485,721

Goodyear's Twenty-fifth Anniversary

The Goodyear Tire & Rubber Company, Akron, O., took out incorporation papers twenty-five years ago, on August 29th, 1898. They started in a small, out of repair factory with a capital stock of $12,500 of which $3,500 was cash and most of that borrowed money.

In ten years, by 1908, the firm had built up a sales volume of two million dollars a year. In 1920, the annual sales passed the $20,000,000 mark.

Many sound business policies have contributed to Goodyear's success, but we believe the outstanding feature of Goodyear goods and service is quality.

We in the Asbestos Industry are interested in the Goodyear Tire and Rubber Company because it uses asbestos in one of its lines—Compressed Sheet Packing.

The unpleasant things about your job are what makes the job worth paying for.



Confidence is the master key that unlocks results.

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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

WRITE FOR PRESENT PRICES

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Carey

ASBESTOS AND ASPHALT PRODUCTS

85% MAGNESIA

ASBESTOS FIBRE
Eight Standard Grades

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

ASBESTOS AND MAGNESIA
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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Production Statistics

Rhodesia.

Production of Asbestos in Rhodesia during May 1923, as reported by the Rhodesia Chamber of Mines, is as follows:

	Tons	Value
Bulawayo District—		
Nil Desperandum (Afr. Asb. Min. Co. Ltd.)	441	£8,821
Pangani (J. Hancock) April	15	180
Pangani (J. Hancock) May	15	180
Shabanie (Rhod. & Gen. Asb. Corp. Ltd.)	575	14,366
Lomagundi District—		
Ethel (Union & Rho. Trust, Ltd.)	30	750
Victoria District—		
Balmain (Afr. Asb. Min. Co. Ltd.)	70	1,401
Gath's (R. & Gen. Asb. Corp. Ltd.)	321	8,040
King (Rhod. King Asb. Co., Ltd.)	175	3,495
	1,642	£37,233

Union of South Africa.

The following figures are issued by the Department of Mines and Industries, South Africa, for the month of May, 1923:

	Tons	Value
Transvaal	424	£6,060
Cape	283	3,588
	707	£9,648

In May, 1922, a year ago, the value of shipments was £4,014.

Our readers may be interested in comparing the value of shipments month by month, for the year 1923.

January	£8,853
February	10,023
March	11,742
April	8,860
May	9,648
	£49,126

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NEWS OF GENERAL INTEREST

The Citizens Safety Committee of the Philadelphia Chamber of Commerce is making the appeal for careful driving by very effective colored posters.

The 29th investigation by the United States Tariff Commission covers magnesite and magnesite brick.

Fire destroys forty human lives every day, $1,000 worth of property every minute, 1 dwelling every four minutes, 1 farm building every seven minutes, 15 hotels every day, 5 school houses every day, 4 general storage warehouses every day, 1 hospital every day, $521,000,000 worth of property in 1922. Fire Prevention Week, to be held October 8th to 15th, is designed to make the public realize the seriousness of the fire hazard and demonstrate that most of the destruction is preventable.

At a meeting of the Board of Directors of the Rubber Association of America, held on July 26th, the following officers were elected: President, W. O. Rutherford, Vice Pres. of the B. F. Goodrich Company; First Vice President, G. M. Stadelman, President of the Goodyear Tire & Rubber Company; Second Vice President, C. B. Seger, Chairman and President of the United States Rubber Company.

The F. W. Dodge Company reports contracts awarded in June of 46,344,200 square feet of floor space in the twenty-seven northeastern states, a decrease of over 14,000,000 square feet from the May figures. July contracts in the same district totalled 42,020,900 square feet. Valuation of these contracts was $323,558,800 in June and $274,225,100 in July.

Forbes reports that the Continental Can Company expects to double the capacity of its Jersey City plant by building an additional unit.

On November 4th to 10th, there will be held at the Hotel Astor, New York, first annual automobile salon of the Foreign Automotive Association.

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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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NEWS OF THE INDUSTRY

The Kasunda Supply Company of Syracuse, N. Y., has recently been incorporated for the handling of packings.

Mr. Gierlich has resigned as General Manager of the Goetze Gasket and Packing Company, New Brunswick, N. J.

John Todd, formerly General Manager of the Garlock Packing Company, and Frank Coates of the Crandall Packing Company, have within the last few months incorporated the Palmyra Packing Company, Palmyra, N. Y.

Mr. Winner (whose initials we do not know at the moment) formerly vice president and manager of the Crandall Packing Company at Palmyra, is now general manager of the Garlock Packing Company, Palmyra.

R. M. Waples has taken Mr. Winner's place as vice president and manager of the Crandall Packing Company, and Mr. Watrous has been made manager of sales of the Crandall Packing Company with headquarters in New York City.

The Engineering and Mining Journal reports that Selective Treatment Limited has built and equipped a plant on the Bennett Martin property and is running a series of tests on wet concentration of asbestos.

The Argo Asbestos and Rubber Company, Inc., P. O. Box 283 North Side Station, Pittsburgh, Pa., has recently been organized by Warren Car-Skaden, president, and L. Vezie, secretary, and will handle a general line of packing, hose, belting, etc. Mr. Car-Skaden was formerly Pittsburgh manager for Crandall Packing Company, having occupied that position for ten years.

C. J. Stover, president and managing director of Consolidated Asbestos Limited, on September 15th sailed on the Empress of France, from Quebec, for a two months' business trip thru England and the Continent. He was accompanied by Mrs. Stover.

The asbestos curtain installed in the Fox Theatre, 15th and Market streets, Philadelphia, is one of the largest curtains in the country and the first to consist of two layers of asbestos cloth It was made by the Keasbey and Mattison Company. Our readers

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ASBESTOS PAPER AND MILLBOARD

SAL-MO PRODUCTS

The Mark to Buy
Asbestos By

ASBESTOS PAPER
ASBESTOS MILLBOARD
ASBESTOS PIPE & BOILER COVERINGS
ASBESTOS CEMENTS
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INQUIRIES RECEIVE QUICK AND COURTEOUS ATTENTION

MANUFACTURERS:

Sall Mountain COMPANY

140 S. Dearborn St., CHICAGO, ILL.

EASTERN OFFICE & FACTORY
SCRANTON, PA.

BOSTON OFFICE
268 STATE ST.

ASBESTOS PIPE & BOILER COVERING

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may recall that the Fox Theatre was in danger of destruction by fire recently because of its proximity to the fire which destroyed the train shed at Broad Street Station.

Fred Monroe, formerly manager of one of Garlock Packing Company's branch offices, has recently taken charge of the Pittsburgh office of the Crandall Packing Company. Mr. Monroe is well known in the Packing trade.

The South African Mining and Engineering Journal of issue June 23rd, emphasizes the need for the establishment in South Africa of asbestos manufacturing industries, the idea being to utilize the asbestos on the spot rather than to export practically the whole output. They call attention to the pioneers in the asbestos manufacturing industry in Africa, viz: The Asbestocement Manufacturing Company, Limited, makers of asbestos board. This plant has a capacity of over three million square feet per annum.

Charles F. Buchanan has resigned as Manager of the Boston Branch of Keasbey and Mattison Company.

The new passenger liner, "California," just dispatched from Glasgow by the Cunard-Anchor lines, is the first liner to carry asbestos lined staterooms. The walls of the staterooms are sheathed with asbestos over which canvas and light mahogany strips have been placed. The "California" is the largest ship ever built at Linthouse, Scotland, registering 17,000 tons.

The Industrial Material Department of G. K. Kenzaisha, Tokyo, has recently been formed into a private limited liability company, under the name of the Bunka Boeki Sho-Sha, with head offices in Tokyo at 1 Sanchome, Koamicho, Nihonbashi-ku. The business will undergo an extension, but no change in management will occur, K. J. Susuki, member of the board of directors, keeping the general management in his hands as hitherto.

The above note was sent us from Tokyo under date of August 20th, and of course, since the terrible disaster in Tokyo, we are unable to even imagine what the conditions are in which this firm finds themselves.

"Forbes" reports that the net income for the Certain-Teed Products Corporation for the first six months of 1923 was $663,425, which, after preferred dividends, was equivalent to $4.56 a share on the common. This compares with 44 cents a share earned in the corresponding period last year.

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Nederlandsche Asbest My.

Importers of Asbestos
Crudes and Fibres

ROTTERDAM - HOLLAND

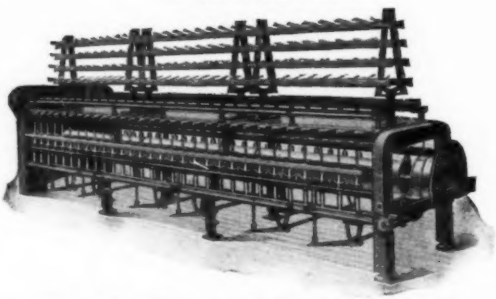
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ASBESTOS YARN MACHINERY

"SMITH-FURBUSH"



PROCTOR & SCHWARTZ, INC.

Formerly Smith & Furbush Machine Co.
Seventh Street & Tabor Road
PHILADELPHIA, - - - - PENNA.

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ASBESTOS

The Rubber Age in a recent issue announces sheriff sale of the property and plant of the Stanwood Rubber Company, at Elizabeth, N. J. It is rumored that a would be purchaser is a firm engaged in the making of an automobile tire which contains asbestos as one of its constituent parts.

It has recently been our pleasure to look over a copy of the Goodyear News, a house organ published by the Goodyear Tire & Rubber Company for its dealers. It is attractively printed and illustrated, and contains some very interesting information

---

The Thetford Mine Operators in 1922 conceived the idea of purchasing some land and building thereon a nine hole golf course. Most of the Mine Operators agreed to the plan, subscribed heavily to the fund, nine very attractive holes were laid out, and a serviceable clubhouse and curling stadium erected.

The Asbestos Corporation of Canada donated a handsome silver trophy to be known as the Sharpe Memorial Cup, to be competed for annually.

Sir Mortimer B. Davis, on behalf of Consolidated Asbestos Limited, established another trophy, and several individuals added prizes for different sorts of play.

On Saturday, August 25th, the members of the Club contested for the Sharpe Memorial Trophy. Unfortunately the day was most unpleasant, notwithstanding which a fairly large field turned out. The competition was based on 36 holes medal play, and when the first eighteen holes had been completed, it looked like a walkover for Orlando C. Smith, Manager of the Bell Mine, his first round having resulted in a gross 84, whereas W. G. Ross, President Asbestos Corporation of Canada, had taken 91, C. J. Stover, President Consolidated Asbestos Limited 92, N. R. Fisher, Mines Manager, Consolidated Asbestos Limited 94, while Harry Green was second with 88.

On completion of the second round, however, it was found that W. G. Ross had accumulated a net 82, whereas "Lannie" Smith had evidently been looking at the dust clouds from the mill instead of keeping his eye on the ball. Mr. Ross was decidedly the winner of the tournament and was heartily congratulated on all sides.

A special cup given by C. J. Stover for the low net was won by Harry Green.

The trophy established by Sir Mortimer Davis will be competed for during the coming month.

The Thetford Country Club has proven to be a remarkably good influence in the Thetford District, it bringing the men together during the summer for golf and during the winter for curling. It has, in fact, become the social center of the District.

A report from the Southern Rhodesia Geological Survey on the geology of the country surrounding the Lonely Mine, says that Chrysotile Asbestos of fair quality occurs in the unsilicified

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ASBESTOS



Bennett-Martin
Asbestos and
Chrome Mines
LIMITED



Head Office
Thetford Mines, P. Q.
Canada

General Sales Office
110 E. 42nd Street
NEW YORK

Mines Located at
Thetford Mines and Vimy Ridge

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bodies of serpentine north of Ndumba Hill. A good deal of prospecting work has been done at this location but the quantity appears to be insufficient for profitable working, and the prospecting shafts are now abandoned. Very small quantities of asbestos also occur in the serpentine south of the Lonely Mine. Report was made by A. M. MacGregor, B. A. The Lonely Mine is in the Bulawayo District.

The General Asbestos & Rubber Company will exhibit at the "Made in Carolinas Exposition", to be held in Charlotte, N. C., from September 24th to October 6th.

Charles A. Caruso, in August took the position of Superintendent of the Asbestos Textile Department of Mikesell Brothers Company, at Wabash, Ind. Mr. Caruso is well known in the Asbestos Industry.

The second and third of the series of articles by G. Ernest Booker, have appeared in the July 20th and August 3rd issues of the Canadian Mining Journal. They are entitled "Efficiency in the Milling of Asbestos."

The Goodyear Tire & Rubber Company will soon erect a six story building at the S. W. corner of 58th Street and 11th Avenue, New York City, to house the various departments. All departments will be consolidated in this one building.

The British and South African Export Gazette states that while the United Kingdom has for some years past been supplying the bulk of asbestos products imported to the South African Union, Belgian manufacturers have recently been competing with considerable success, and last year secured premier position in this market.

The Golf Match between the "Fireproofs" and the "Overproofs" of the Alcohol Asbestos Amateur Athletic Association, was played on Thursday, August 30th, at Mount Bruno, and resulted in a victory for the "Overproofs" by two points to one.

The foursomes were:

Fireproofs		Overproofs
C. J. Stover		J. A. Scott
S. Davis	—1	L. G. Turnbull—0
J. B. Waddell		G. G. Kaestner
N. R. Fisher	—0	J. G. Lawrence—2

A return match will be played on September 13th.

To the uninitiated it might be well to explain that the "Fireproofs" represented Consolidated Asbestos Limited, and the "Overproofs," Consolidated Distilleries Limited, both of Montreal.

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ASBESTOS

An article appearing in the August 15th issue of the Arizona Mining Journal is headed "Arizona Asbestos Field is Best in the United States". The article gives a brief history of the Arizona Asbestos Industry, together with a list of stocks available for sale.

The B. F. Goodrich Company maintains six cottages at Rex Lake, Ohio, as a resort for its employees. About 800 employees and their friends visit the lake each Sunday.

Part Two of W. G. Shanley's article "Mining and Manufacturing Asbestos Deposits," which is running in the Arizona Mining Journal, gives quite a bit of information concerning each Arizona Asbestos property.

A first and final dividend of 1s. 4½d. in the £ has been declared under the failure of Cecily Susan Kerman and Alexander Hunter, who traded as Charles J. Kerman & Co., rubber and asbestos merchants, West Bute Street, Cardiff, Wales.—*India Rubber Journal.*

At a meeting of the Surprise Gold Mining Company, Limited, held at Winchester House, Old Broad Street, E. C., London, during the second week in August, Colonel A. Weston Jarvis, C. M. G., M. V. O., reviewed the activities of the Birthday Asbestos Mine (Shabani District, Africa) calling attention to a production in 1922 of 1,587 tons of fibre and sale of 569 tons for £16,067. The Birthday Mine closed down for six months when the break occurred in the asbestos trade two years ago, restarting in March of last year. In November 1922 the mill was closed in order to give the company a chance to dispose of its overstock of spinning fibres. Colonel Jarvis gives it as his opinion that there is no hope for improvement in the British trade—asbestos or other—until the markets of Central Europe are restored and foreign exchange established.

Norman R. Fisher, Mines Manager of Consolidated Asbestos Limited, has written a very comprehensive and instructive article entitled "The Quebec Asbestos Industry" which was published in the August 17th issue of the Canadian Mining Journal.

A rather unique engineering feat is being accomplished by Johns-Manville, Inc., in the addition of several stories to their building at 41st Street and Madison Avenue. This addition is made possible by the insertion of iron girders down thru the present stories being done for the most part at night so that the office work will be as free from interruption as possible.

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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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E. J. Wilson, Mining Engineer, and well known to the asbestos trade, is now connected with the Maple Leaf Asbestos Corporation.

Rumors have reached us during the past month of another new brake lining which is at present being tested out. Tests are not far enough along as yet to make a definite announcement, but the lining is described as being entirely different from any on the market.

Several gentlemen interested in a deposit of asbestos in Vermont called at the office of "ASBESTOS" recently. It is probable that development of this deposit will commence shortly.

Whether the Air Cell business is good or bad, there are certainly many firms contemplating entering the business. Nearly every week we receive requests for names of manufacturers of machinery used in the making of air cell covering.

R. C. Burnside, President of the Asbestolith Manufacturing Company is on the Committee in Charge of Shows, of the American Marine Association. This Association will hold its Third Annual Marine show during the week of November 5th to 10th, at the Grand Central Palace, New York City.

A note in a recent daily paper says that a firm in Johannesburg has recently patented a process for reinforcing asbestos cement board with steel. If any of our readers know anything about this we would be glad to have their comments.

The Amer. Soc. of Htg. & Ventlg. Engrs. Guide for 1923, contains an article on Insulation, prepared by L. L. Barrett and L. B. McMillan of New York.

Another article in the same book under the title "Warm-Air Furnace Heating," written by Arthur C. Willard of Urbana, Ill," makes the following statement: "All hot surfaces should be thoroly covered with standard insulation not less than ¼ in. in thickness. Asbestos paper, if applied only in a single layer, materially increases the heat loss from bright tin and galvanized iron surfaces."

We will be glad to lend our copy of the Guide to anyone interested.

It is reported that the Ural Asbestos production has grown exceedingly of late, and it is hoped to reach in the current year 30% of pre-war production. The inland demand has grown for boiler (locomotive) insulation, and the extension of its use to

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stationary boilers is expected. But the Ural Asbestos Authority is seeking to cultivate the export trade.

One of our English correspondents reports that while the demand for asbestos cement plates is increasing, the United Kingdom appears to be losing its hold on the market. This is shown by the export figures, which likewise show that Holland, Germany and Belgium are making good progress.

For instance the following figures show the quantity exported to Netherlands East Indies by the principal countries:

	1921	1922
Holland	467,311 kilos	961,032 kilos
Great Britain	10,043 "	1,952 "
Germany	93,876 "	177,928 "
Belgium	576,621 "	863,493 "
U. S. A.	238,361 "	270 "
Australia	191,740 "	9,369 "

It is our pleasure this month to congratulate our good friend, Mr. B. Marcuse of the Asbestos Fibre Company, on the occasion of his birthday which occurred on September 11th. And at the same time we desire to extend our best wishes to the following gentlemen: Mr. R. V. Mattison, Jr., Vice President of the Keasbey & Mattison Company whose birthday occurs on September 16th; Mr. W. H. Wampole, Vice President of the Staybestos Mfg. Company, whose birthday date is September 25th; Mr. A. W. Koehler, President, Asbestos Textile Company who celebrates his anniversary on September 29th; Mr. Carton E. Miller, President, National Magnesia Mfg. Company, whose birthday date is October 7th.

Whitby & Chandler, Ltd., has been formed as a private company, registered office at 30, The Wicker, Sheffield, England, with an authorized capital of £3,000, to carry on the business of india-rubber manufacturers and dealers in rubber accessories, asbestos, ebonite, mica, linoleum, etc. The first directors are T. Chandler and W. Whitby, both india-rubber manufacturers of Sheffield. The secretary is W. R. Proctor.

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.

ASBESTOS TEXTILE MACHINES

Whitin Machine Works, Whitinsville, Mass.

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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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ASBESTOS ROOFINGS

UNDERWRITERS LISTED

2-Ply White Seal in Rolls

3-Ply White Seal in Sheets

4-Ply White Seal in Sheets

4-Ply Fire Chief Burlap Centre in Rolls

2-Ply Black Seal in Rolls

3-Ply Black Seal in Sheets

4-Ply Black Seal in Sheets

1-Ply Imperial No. 2 Asbestos Saturated Felts in Roll

ASBESTOS BASE FELT ROOFINGS

Asbescoat—No. 52 Roofing—50 lb. in Rolls
Asphalt Coated Both Sides

Asbeslate Roll Roofing—85 lb. in Rolls
Either Red, Green or Blue Black

Asbeslate Std.-Individual Shingles 8x12¾
Either Red, Green or Blue Black

Asbeslate—Strip Shingles—"4-in-1", 10x32 in.
Either Red, Green or Blue Black

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 AND LOCOMOTIVE LAGGING



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.

Distributors Everywhere

BRANCH OFFICES

NEW YORK PHILADELPHIA CHICAGO

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Nodust Spinning Fibre

A well known experienced Spinner of asbestos yarns wrote as follows:

"The special (Nodust) fibre which you sent tested up very nice and it was clean—the cleanest spinning fibre I have ever seen."

Another Spinner has found this extra long, clean stock to be all that was claimed for it.

Realizing the economies possible when a clean, long mill fibre could be produced, we have been striving for months to solve the problem.

Quite likely "Nodust" is not the ultimate of perfection, but it is the very finest and most economical mill fibre so far produced anywhere.

You owe yourself a thorough trial of this peerless fibre.

Consolidated Asbestos Limited

Canada Cement Building

Montreal, - Canada

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