ASBESTOS

Vol. 2 FEBRUARY, 1921 No. 8



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



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Devoted to the Interests of the Asbestos and Magnesia Industries

Secretarial Service - - *Publisher*
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Publishing Office
721 Bulletin Building
Philadelphia, - - Penna.

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SUBSCRIPTION PRICE

U. S. and Canada	$1.00 per Year
Foreign Countries	2.00 " "
Single Copies	.20 Each

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Photo by courtesy of Becker & Haag, Berlin.

View of Main Pitt in a Siberian Asbestos Mine.

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85% Magnesia Pipe and Boiler-Covering

By Chas. F. Wade, A. M. I. Mech. E., A. M. I. E. E.

Lecturer in Fuel Economy at the University of Sheffield, England.

The use of heat insulating coverings in steam and other plants so as to obtain the maximum economy and efficiency, cannot have been studied to so wide an extent as the importance of the subject warrants. This statement is confirmed by the almost unlimited variety of compounds made and sold under even more numerous fancy names, but whose value is so uncertain that no figures are offered as to their insulating efficiency.

The term "*efficiency*" as applied to a non-conducting covering, indicates the amount per cent. by which it approaches a perfect non-conductor as compared with bare pipe tested under identical circumstances. As all substances, whether gaseous, liquid or solid are conductors of heat to a more or less degree, it follows that there is only one perfect non-conductor having an efficiency of 100% and that is a vacuum, this property being utilized in the vacuum flasks used for keeping liquids hot, or cold as required, over long periods of time. True radiant heat, however, will pass thru a vacuum, but the steam man is not troubled with radiation at all, the matter which concerns him mainly being conduction and convection.

The next best non-conductor to a vacuum is air, imprisoned in such minute particles that it is quite unable to circulate and set up convection currents, the very best heat insulators, all showing this class of structure under the microscope. The only coverings that should receive any consideration at all are Magnesium Carbonate (Magnesia), Asbestos and Slag Wool or Silica Cotton, altho some of the highly adhesive and hard-setting compositions are valuable from a mechanical point of view. These latter, however, have a very low efficiency and covering capacity, the two factors combined making them dearer in use than coverings of high efficiency and large covering capacity. These cheap coverings have an efficiency of something in the region of 50%, the covering capacity, weight for weight, being about one-eighth of that of 85% Magnesia.

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Asbestos has only an efficiency of about 75% and is about equal to that of Fossil Meal or Infusorial Earth (alias Kieselguhr, Diatomite, etc.,) with covering capacity of little over half of that of 85% Magnesia.

Slag Wool has a very high insulating efficiency, almost equal to that of 85% Magnesia but is of very uncertain behaviour in use, being most liable to set up corrosion of any iron or steel into which it is brought into contact in the moist state. Various attempts have been made without success to form this material into a plastic composition and it therefore remains a most expensive form of covering owing to the very special construction of sheet steel or other casing required in order to support it in position. Slag

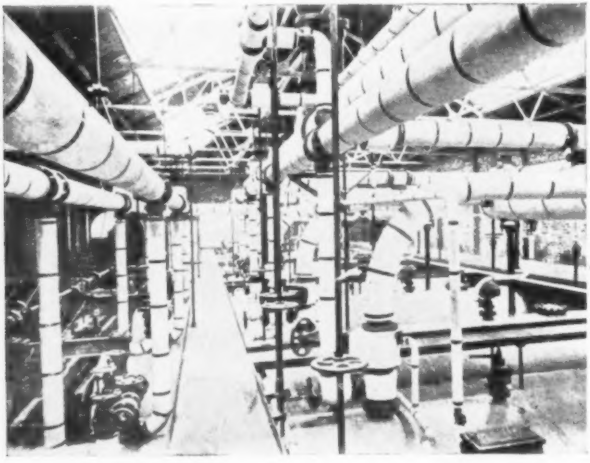


Photo by courtesy of Newall's Insulation Co.
Steam and Exhaust Mains in Power House covered with 85% Magnesia

wool coverings encased in sheet steel, even with an almost imperceptible degree of vibration, "shake down" inside the outer casing, leaving large air spaces in which rapid convection currents of hot air are set up with consequently accelerated loss of heat. The effective portion of the covering being invisible the state of this is not observed so that the loss of heat goes on undetected. Coverings of this

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type require specially skilled labor to apply them and if this special skill is not available at the time that any damage may have taken place, it is more than likely that repairs will be deferred indefinitely.

85% Magnesia as supplied for heat insulating purposes consists of a mixture of 85% of Magnesia and 15% of long fibre Asbestos the latter being used as a binding medium. Its insulating efficiency is about 95% or as near perfection as it is possible to make a commercial article. The great proportion of imprisoned air provided by its micro-cellular structure renders this composition very light and therein lies the secret of its enormous covering capacity, a short ton of plastic composition being sufficient for an area of 800 square feet applied in a coating two inches in thickness. The most satisfactory method of applying Magnesia covering, in the writer's own opinion is in the wet plastic state as by this means all risk of air space between the covering and pipework is avoided.

The deficiency in mechanical strength and ability to withstand rough usage has been urged as a great objection to the use of Magnesia coverings but the writer has overcome this difficulty where the covering is used in such positions as the tops of boiler drums, etc., by covering the Magnesia coating with a final layer ¼ inch in thickness of the hardest setting common composition he can lay hands on, further protected by a final covering of small mesh heavy gauge wire netting, this last being only necessary where the covering is likely to be walked upon. The effectiveness of this method has been proved in one of the very largest British steel works, for the steam plant of which the writer is personally responsible and where the usage is probably as severe as in any other works that exists at the present day.

Perhaps the following table of comparative insulating values of different coverings and their covering capacity will be more convincing than foregoing remarks:

Type of Covering	Heat insulating Efficiency 2 in. Thick	1 short ton covers 2 in. Thick
85% Magnesia	92%	800 sq. ft.
Asbestos	75%	300 sq. ft.
Fossil Meal	72%	280 sq. ft.
Various cheap compositions	40 to 55%	150 to 180 sq. ft.

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Comparing the heat losses in B. T. U. per 100 sq. ft. per annum with superheated steam at 160 lbs. gage pressure and a temperature of 550° F. and in coal at a calorific value of 13,000 B. T. U. per lb. the following results are obtained:

	B. T. U.	Losses per year of 5,000 hrs. Coal in short tons.
Bare Pipe	1,500,000,000	57.7
Common Composition	712,000,000	27.4
Asbestos or Fossil Meal	375,000,000	14.4
85% Magnesia	75,000,000	2.9

The above figures apply to horizontally installed pipes, vertical surfaces creating a much greater loss owing to the greater rapidity of the convection currents of air that are set up.

Additional advantages of 85% Magnesia as compared with other classes of covering are its very low thermal capacity or the amount of heat it will absorb before it becomes saturated at the working temperature. Most coverings actually cause a large condensation and heat loss at the first inset thru their capacity to absorb heat.

Again the advantage of Magnesia over slag wool is very great in that all necessity for metallic contact between the hot surfaces and an outer covering of metal are avoided. This conduction effect is very marked and the engineer can satisfy himself that it is not a fable by feeling the steel casing of a slag wool covering anywhere within a foot or so of either the turned-in ends of the casing or the metallic internal supports. It will be found that in these positions the casing is too hot for the hand to be borne upon it, the net result being a reduction of the intrinsic insulating value of the slag wool itself by fully 10%. Another important factor resulting from the lightness of Magnesia covering is the very small additional strain that is imposed on the piping and its supports, and it is very doubtful if the draftsman ever allows for the weight of the covering when designing a pipework lay-out.

Magnesia is perfectly neutral as regards its chemical relations with iron, steel or any other metal, which cannot be said for many other types of insulation, therefore there

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HIGH GRADE ASBESTOS TEXTILES



Asbestos Fibre Spinning Company

North Wales, Penna.

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is no risk of corrosion being set up should the covering become moist.

With the high pressures and superheats now being employed, Magnesia is the only material that satisfactorily fulfils all requirements as to resistance to damage by excessive temperatures and it cannot be too severely emphasized that the higher the steam temperature the greater is the loss in heat units per hour by "radiation" per unit area.

In selecting your heat insulating covering altho the

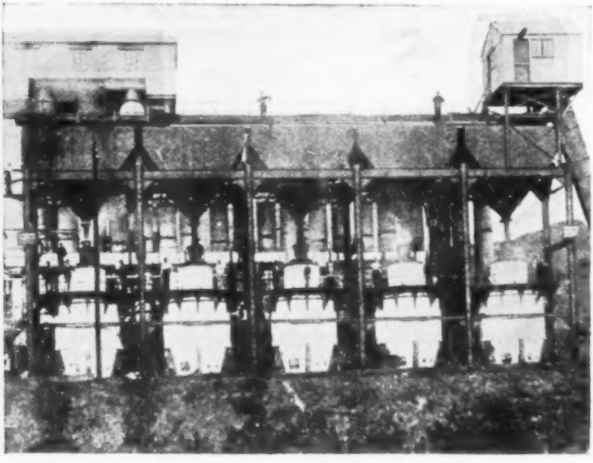


Photo by courtesy of Newall's Insulation Co.

By-product Recovery Gas Producer Plant covered with 85% Magnesia

price has of course to be taken into account, the most important factors are its value as a heat insulator, together with its covering capacity. Low temperatures and pressures do not require nearly the same thickness of Magnesia to get the same insulating effects, and in fact excessive thickness on these low temperature jobs is very uneconomical. This is more marked with 85% Magnesia than any other covering, the economical thickness for various steam temperatures, (taking into account the saving in fuel as

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against capital expenditure, interest and maintenance) being as follows:[1]

Steam temperature	below 300° F.	Thickness 1 inch
" "	from 300° F. to 350° F.	" 1½ inch
" "	from 350° F. to 400° F.	" 2 inch
" "	above 400° F.	" 2½ inch

It's not much use saving every B. T. U. possible in producing steam if anything from 5% to 10% is needlessly wasted owing to inefficient, low-priced coverings on your boilers and steam piping. The question of economy does not finish at the boiler stop valve but continues right thru the whole plant. By adopting 85% Magnesia covering as the heat insulator, there is no doubt whatever that the results in economy in fuel will pay for the cost of installation many times over.

Prices Current-January 1921

It is reported to us by manufacturers and dealers, with whom we have conferred, that average market prices paid by consumers for average quantity, quality and freight haul from producer, were about as follows.

Asbestos Air Cell Covering, 4 Ply			35% to 40% off	
"	Air Cell Paper in rolls		$10.00 to $12.00	
"	Cement		2.50 to 3.00	cwt.
"	Cloths, 10s Commercial		1.50 to 2.00	lb.
"	Listings and Tapes		1.75 to 10.00	lb.
"	Millboard		10.00 to 18.00	cwt.
"	Packing, Steam, High Pressure		1.25 to 2.00	lb.
"	Packing Sheet		1.00 to 1.50	lb.
"	Wick and Rope		.65 to 1.00	lb.
"	Paper, Commercial		10.00 to 18.00	cwt.
"	Paper and Millboard, Special		17.00 to 35.00	cwt.
"	Yarns, 10s Commercial		1.35 to 1.90	lb.
"	Yarn and Cloth, Special		2.00 to 6.00	lb.
Magnesia Carbonate, Powdered			.15 to .20	lb.
85% Magnesia Pipe and Boiler Covering			10% to 20% off	

[1]The economic thickness of pipe covering depends principally on the three factors of pipe size, steam temperature and steam cost. During the past few years the Mellon Institute of the University of Pittsburgh has given specific attention to this point of economic thickness of steam pipe covering and has developed approximate tables and accurate curves, eliminating all guess work or opinion and reducing this feature to one of scientific exactness. This data can be secured by application to ASBESTOS.—The Editor.

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Editorial Comment

One result of the Lockwood Investigation into the building trade conditions of New York City has been a circular letter issued on January 10th, by the Building Trades Employers Association of New York City to Members.

This circular urges all Member Associations to inquire diligently into their codes of practice, constitutions, by-laws, etc., eliminating therefrom any provision which might render such associations subject to criticism.

A thoro inquiry is being made by the building Trades Employers Association into all its subsidiary associational activities with the idea of eliminating every practice which may be practically or theoretically in violation of law.

It is unfortunate that this was not done before the Lockwood investigation instead of at this late date when the milk has been spilled all over the place.

It is stated that the Lockwood Committee, which has been investigating housing conditions in New York, intends to recommend to the New York Legisulature, the creation of a State Trade Commission, with duties similar to the Federal Interstate Commerce Commission, the idea being that this State Trade Commission will have control of all trade and business organizations within the state.

In commenting on this suggested legislation contemporary publications refer to President-elect Harding's motto "More business in Government and less Government in business." It is obvious that if such State controls are set up in the various states, the net result will be that business will be turned over to political commissions and, instead of having labor union grafters we are very likely to have political grafters fastened on the business body.

It is appalling that Federal and State Legislatures cannot profit by past experience and steer clear of entanglement with problems of which they know next to nothing. A careful canvass of the personal training and qualifications of the individual members of our various law making bodies would reveal an almost total lack of practical, workaday business men.

Just how we can expect wise industrial legislation to

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come from legislative bodies composed principally of lawyers and practical politicians, is a question which we never expect to be able to answer.

The cancellation fever has developed in some instances into a far worse disease, as illustrated by a happening in the pipe covering industry not long ago.

In October 1920 a large manufacturer of Pipe Covering booked a bonafide order for a quantity of pipe covering, the material to be shipped within a few months, when the job was ready.

Before the covering was needed prices declined and evidently the buyer secured quotations from other manufacturers, for the original seller was coolly informed that the covering was not wanted except at the price quoted by a certain other pipe covering manufacturer.

There was no extenuating circumstance whatever, the jobbing concern simply taking advantage of a falling market, even tho they had actually booked the order from the ultimate consumer, and, in all likelihood, will be paid the price at which the original sale was made.

There was no question of financial difficulty, cancellation of order by the ultimate consumer, or any other mitigating circumstances.

As an illustration of how business *ought not to be done*, this comes pretty close to being the best we have seen, and if we stood in the position of the manufacturer in this case we would be disposed to test it out at law and compel the taking of the goods at the price for which the material was originally sold.

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Bell Asbestos Mines

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MINES OFFICE at
Thetford Mines, P. Q., Canada
and
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Miners and Shippers of

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OWNERS
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Ambler, Penna.
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Market Conditions

Markets for Asbestos goods are nearly bare of orders. This applies equally to textiles, brake linings, paper, millboard, 85% Magnesia and practically everything made of Asbestos in whole or in part.

Doubtless the demand for Asbestos shingles holds better than for any other Asbestos product.

Notwithstanding the dearth of orders for finished goods and the consequent effect upon the business of the mine operators, prices for raw material rule uniformly firm. This condition, controlled almost entirely by the Thetford operators, makes it out of the question for manufacturers and finishers to reduce prices.

Following the precedent set by practically all industries the Asbestos manufacturing industry has been striving to secure concession in price from producers but, to the best of our knowledge, no mine operator has been found who will concede.

On the other hand some grades are actually quoted higher than three months ago.

With conditions as they are in the iron, automobile and general basic industries of the country and of the world, and with no chance whatever of being able to stimulate trade by cutting prices, the Asbestos trade is necessarily marking time.

Clothing, shoes, foodstuffs and some other lines of merchandise may be sold in greater quantity by drives stimulated by price cutting. In the Asbestos industry all past experience indicates that on a falling price market orders cease entirely to be. Conversely when prices are advancing, trade is active.

We deduce from the attitude of the operators of mines that there is little hope of price recessions, and, since finished goods prices have already been cut to the bone, it would not surprise us if the next move marketwise would be upward.

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White Chrysotile.

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Review of the Asbestos Mining Industry in 1920

Our readers will be interested in the review given by Theo. C. Denis, Superintendent of Mines for the Province of Quebec, on the 1920 activities in the Asbestos Mining Industry. The article is quoted from the January 21st issue of the Bulletin of the Canadian Institute of Mining and Metallurgy, and reads as follows:

To some extent, the mining industry during the year 1920 has been marking time in the whole of the North American continent, and the province of Quebec has been no exception to this state of economic conditions. A comparison of New York quotations for metals at the beginning of the year with those obtaining in December, shows that copper has fallen from 19 to 13¼ cents; lead from 8¾ to 5 cents; zinc from 9¼ to 5½ cents, and silver from 132¾ to 70 cents. On the other hand, the exigencies of labor have not come down in a proportionate measure, with the result that mines have closed down or reduced production to a very great extent. And yet our province will not unduly feel the decreased activity in mining owing to the fact that the demand for asbestos has kept up remarkably well, and there has been an increased output of structural materials. These two items, in normal years, make up seventy-five per cent. of our production.

The asbestos market has been firm practically thruout the year. Prices have remained very near the top levels of the previous year, while the cost of production has somewhat decreased. For altho the daily wages of workmen in the mills and on the surface have been advanced, the contract system has been introduced in the mines, the loaders being paid so much per ton, and this has had a marked effect on the rate of production per man.

The causes that have contributed to the consistent demand for asbestos are several. The public now discriminates between asbestos brake-linings and alleged asbestos linings. The life of the former is several times that of the latter, and as cheap linings and facings frequently contain only a small percentage of asbestos, consumers now insist on the better quality. Increased activity in building has absorbed a large quantity of asbestos paper, millboard,

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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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shingles and asbestos lumber, and the increased price of fuel has led to a much greater use of insulating coverings for boilers, pipes and furnaces. Thus, on the whole, our asbestos industry has not yet felt the effects of the industrial and commercial reaction.

The production of asbestos and asbestic during the first six months of the year was 82,000 tons valued at $5,750,000, but during the second part of the year, several causes contributed to impede the production, among which a strike that closed down two of the large mines for nearly five weeks. However, it is expected that the figures for 1920 will be approximately the same as for 1919, when the production was 159,689 tons, valued at nearly $11,000,000.

Our readers will be interested in the comments made by Sir Samuel Turner, of Turner Brothers Asbestos Co., Ltd., on The Asbestos Trade, as quoted from the India Rubber Journal:

"You ask my views upon the industrial situation.

"*I believe that the present depression will be short lived, and that it has been caused mainly by the fact that neither employers nor workmen have been giving value for money.*

"Those who know intimately the conditions which have prevailed in industry for the last few years know perfectly well that it has been the practice to give as little, and take as much, as one could; each party profiting by the abnormal circumstances prevailing.

"Until we all get rid of the idea that we can have something for nothing, we shall have to suffer, and suffer severely; in fact, the more acute the suffering all round, the quicker will be our conversion.

"True enough, foreign exchanges are abnormally bad, but I am not so sure that this is not an effect rather than a cause. Nevertheless, the financial dislocation of the world has a very vital bearing upon the situation.

"Anyone wishing to gauge what is going on in industry should take the trouble to study the position in the building industry, where the skilled trades are probably not doing in a week the same amount of work as was done by their fathers and grandfathers in two days."

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

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News from Mining Centers

Canada. The major part of Canada's Asbestos Production is exported and the export records for the first nine months of the year indicate a productive activity during 1920 between 20 and 30 per cent. greater than the previous year, this result having been achieved notwithstanding car shortage and other adverse factors.

The total shipment in 1919 included 136,765 tons of Asbestos fibre and 22,471 tons of "Asbestic," having an aggregate value of $10,975,000. All the mines have been very active. Extensive alterations and improvements in equipment have been made at many properties. Much prospecting by diamond drilling has been undertaken on several of the older properties resulting in the development of resources sufficient to assure many years operation. Prospecting for new deposits has also been exceedingly active not only in the Black Lake, Thetford, and other areas of the Eastern Townships, which are the main centers of production, but the asbestos areas of the Porcupine District in Northern Ontario and those in Low Township, Wright County, Quebec, have also received attention.—*Canadian Mining Journal*, Issue of Jan. 7th, 1921.

Arizona. From Arizona we have the following, taken from the Arizona Record of January 11th:

The asbestos industry in Gila county promises to make Globe the center of the production of this ore in the country and to bring some of the strongest financial concerns of the United States into operation here.

To the north and northeast of Globe lie the richest asbestos deposits in the country. Lack of railroad transportation and better highway conditions has caused much delay in the development of the industry. Nevertheless some of the ore is being mined and shipped.

The American Ores and Asbestos Company with A. B. Shutts, as manager, is operating on an extensive scale in the Sierra Anchas. At Crysotile, while it is generally believed that there are only a few men at work, it is estimated that the Johns-Manville people, with N. A. Nelson as superintendent, are working between two and three hundred men in the development of their properties. Between the

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AMERICAN ASBESTOS COMPANY

Manufacturers of
Asbestos Textiles

NORRISTOWN, PA., U. S. A.

Headquarters for
YARNS, CLOTH, TAPES, FIBRES, BRAKE LININGS AND TEXTILES GENERALLY

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latter properties and several claims operated by E. H. Miller near the county line, W. G. Shanley, an old time mining man of Globe, has a number of claims which are said to hold excellent fibre showing. H. K. Burch was a partner of Shanley's but it is understood that Shanley has bought Burch's interest in the properties.

On Cherry Creek, Pearce and Wightman, local men, are operating a number of claims and are shipping about two tons each week from Globe. Lack of transportation facilities is a handicap in this development, but the owners say they are making it pay. Near these properties the same Mr. Pearce and Roger Kyle are developing additional properties.

Another concern which is doing some extensive work is the Globe Asbestos company. They have properties north of Roosevelt and are findinng an excellent grade of fibre.

The latest development, however, and one that promises to become very extensive, is the claim owned by T. Hinton, a cattleman, in Bear Canyon, northwest of Rice and on the Indian reservation. It is stated that this property will be extensively developed as soon as the matter of developing asbestos claims on the reservation is straightened out by the government. A high grade fibre has been located on the reservation.

Africa. The following clipping taken from "The Northern," a South African publication, refers to the first Asbestos machinery to be installed in the Kuraman Mountain District. It was transported by ox wagon from the railroad to the border of the Kalahari Desert, a distance of 100 miles.

"On the 18th inst I had an invitation from my friend, Mr. Campbell of Gillanders and Campbell, to visit their asbestos property Hurley, and at the same time to see their crushing plant at work. Naturally I jumped at the chance.

We started away from Kuruman very early on the morning of the 18th and after a most enjoyable run in Gillanders and Campbell's very fine Dodge car arrived at our destination. After partaking of breakfast with our mutual friend, Mr. Orpen, we went over to where the plant is operating. Arrived at the plant we found Gillanders and Campbell's engineer, Mr. Life, quite ready to start up. Of course every one of our party which consisted of Mr.

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Gillanders, Mr. Campbell, Mr. Glynn and your humble servant was anxious to see if the plant was going to do what it was claimed it would do. I must say the faces of all concerned were a study. My friend Mr. Gillanders was fearfully excited, for every few minutes the question was: "Is it going to be a success?" In fact I had that question asked me so often that I was beginning to think I was an expert.

Anyhow, Mr. Life got busy and in five minutes had the suction gas engine going, and what a treat to see the engine running. Not a sound, not a knock, everything in perfect order. That is where it comes in when one employs a mechanic and not the usual Billy the Blackfellow to superintend the laying down of machinery. Well, just a "Look-out Boys," and away went the crushers, and what a sight. Beautiful asbestos coming out of the pan crushed beautifully. What a success and is there a firm that deserves their luck more than Gillanders and Campbell, a firm that has spent their money and worked hard to make a success of their mines. My friend Mr. Gillanders was quite excited. He even offered me the billet of riding around the rotary pan feeding the crushers. After thinking over the matter I told Mr. Gillanders that I could not possibly do the native out of his billet, therefore I would have to decline. I must congratulate Messrs. Gillanders and Campbell on their enterprise, and at the same time I must say that in my opinion that machinery will double the output of asbestos in this area.

Mr. Life informed me that he was erecting a compressor, so that rock drills can be used on the property. Rock drills no doubt will be quite a boon as drilling by hand is an expensive, as well as a slow process. I may mention that the compressor, the pan and the crusher are run by the same engine, a 28 horse power Hornsby.'

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ASBESTOS MINES LIMITED

Head Office
JACOBS BUILDING
282 St. Catherine St. West, Montreal, Que.
Canada.

MINING ALL GRADES OF ASBESTOS FIBRE

Mines located at East Broughton, Que.

J. A. JACOBS, *President and Managing-Director*

Published by AsbestosClaims.Law
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85% Magnesia

made with

BLUE ASBESTOS CRUDE

(fiberized)

IMAGINE using Crude Asbestos for making 85% Magnesia!

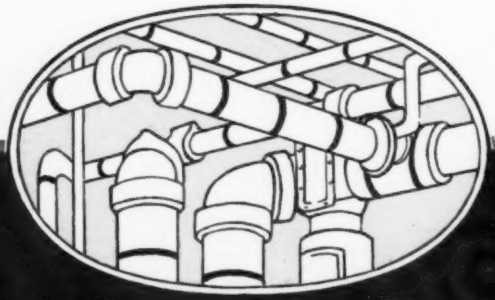
The grade of Blue Asbestos which we sell for 85% Magnesia is Crude Asbestos prepared ready for use.

This grade of Blue Asbestos tests 15 oz. on the 1st and 2nd screen of a Standard Testing Box.

ASBESTOS LIMITED

8 WEST 40TH STREET, NEW YORK CITY

Associated with
Cape Asbestos Co., Ltd.
London, England



"If it is made of Asbest

Brake Lining Yarn

made with

BLUE ASBESTOS CRUDE

(fiberized)

THERE is no better Brake Lining Yarn made than that containing Blue Asbestos.

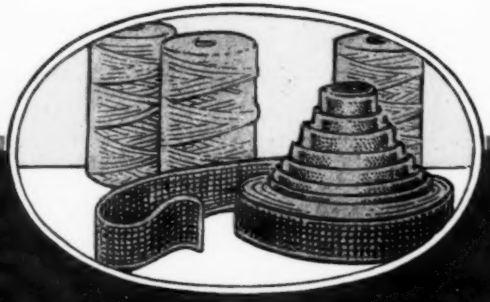
Blue Asbestos is equal in strength to any grade of Asbestos and by our method of preparation, is equally as easy to spin.

And as for price—there is no competition.

ASBESTOS LIMITED

8 WEST 40TH STREET, NEW YORK CITY

Blue Asbestos Mines
Griqualand, South Africa



sbestos—*it will not burn*"

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ASBESTOS TEXTILE CO.

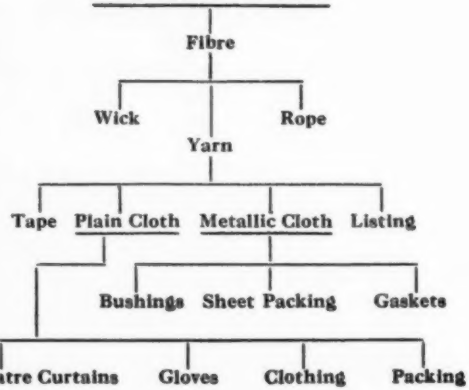
INCORPORATED

MILLS
NORTH BROOKFIELD
MASS.

GENERAL OFFICES
WOOLWORTH BUILDING
NEW YORK

WE MANUFACTURE

ASBESTOS



"Quality and Service"

ASBESTOS TEXTILE CO.

INCORPORATED

MILLS
REYNOLDSVILLE
PENNA.

GENERAL OFFICES
WOOLWORTH BUILDING
NEW YORK

ADVERTISEMENTS

Amosite (Brown and Grey Asbestos) Blue Crocidolite, Chrysotile and Tremolite, South African Trade.

Position wanted (by man who has a thoro knowledge and a long experience in the business) as inspector, buyer and sales representative for big American Asbestos manufacturing firm. Fidelity guarantee. Nominal Salary and Commission. To save time detailed offers by mail would be appreciated. Frank Albutt, South Coast Junction, Natal, South Africa.

FOR SALE—Gessner Card (Four rub-apron). Asking price $4800. f. o. b. Aue, Germany. Full description and photographs supplied. Address Asbestos & Mineral Corporation, Gotham National Bank Bldg., New York City.

POSITION DESIRED—Executive of several years experience desires to make connection with American firm. Formerly manager of Toopes Asbestos Covering Company of London, and son of the founder of that concern. Address Robert F. Toope, 27 St. Botolph St., Boston, Mass.

SALESMAN WANTED—A reputable manufacturer of Asbestos Paper, Coverings, Cements, etc., desires to engage a salesman. He should be under thirty-five years of age, of good address and, preferably, experienced in this line. Address applications to N-1 "ASBESTOS."

Paul Hammerich

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

THETFORD MINES - QUEBEC, CANADA

POWMINCO GOOCH FILTER FIBRE TECHNICALLY PURE

POWMINCO ASBESTOS
(Amphibole)

For filtering and other problems

Samples submitted

Powhatan Mining Company
WOODLAWN, BALTIMORE, MD.

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SPINNING FIBRES
OF
Highest Grade

Edward H. Garcin & Co. Inc.
1821 Broadway
NEW YORK

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

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Contractors and Distributors Page

"ASBESTOS" endeavors to omit no service to the Industry to which it is devoted. Local covering contractors have their problems, many of which can be solved by the experiences of others. An exchange of contracting practices is valuable to all, even the most efficient organization, and leads to standardization which rebounds to the benefit of both the trade and consumer.

Among the inquiries for trade practices received at this office was one asking for the practice among contractors, when estimating, in charging for fittings, where the contract is taken on a unit price basis.

We have been asked for forms of contract used in different large cities and whether or not the contract specifies when the work must be ready and when done. Whether the contract contains a cancellation clause is, these troublesome days, very essential. Frequently insulation contractors are asked to quote on a certain job which is expected to be completed by a certain time, but which for one reason or another, is not ready for the covering work for many months later. During this time wage rates and material prices frequently change and the contractor is left without protection.

Labor problems, wage rate agreements, time and over time allowed, helpers and out of town work are always subjects of more or less irregularity which could be improved by co-operation and a complete interchange of ideas. If agreements with unions thruout the country expired uniformly, it would be advantageous to all contractors.

Certain large cities have ordinances regulating insulation coverings within the city limits. Some contractors are not familiar with these; others do not know they exist tho they are of interest.

Not infrequently "ASBESTOS" is consulted for sources of supply for certain more or less rare raw materials. These inquiries have prompt attention.

Some contractors favor a central estimating office thru which bidders are reimbursed for time, trouble and expense in scaling blue prints and submitting estimates on work which they do not get.

These and similar problems must be confronted to a large extent by all contractors in every large city. "ASBESTOS" has adopted the policy of setting aside one page each issue for the use and discussions of Contractors and Distributors.

Will you submit YOUR problems and use the space?

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THAT virtuous trinity of business principles—QUALITY, SERVICE and COURTESY—has ever been the policy of this company. It has rewarded us adequately and brought satisfaction to our customers. We seek to enlist you among the beneficiaries of this policy.

NATIONAL MAGNESIA MANUFACTURING COMPANY

Manufacturers of

"85% Magnesia" Pipe and Boiler Coverings
Locomotive Lagging

544 Market St., San Francisco, California, U. S. A.

Cable Address, "Magnesia, San Francisco"

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Again Asbestos Serves the Housewife

One of the many things which contribute to the all round efficiency of the Manning-Bowman Electric Iron is Asbestos.

In this, as in other devices, Asbestos, in the shape of Millboard, plays a small but very important part.

In order that the housewife may receive the full benefit of the electric current being used, a pad of Asbestos Millboard is placed between the bottom of the pressure plate and top of the heating element. (See figure 4 in illustration.) This pad not only prevents the heat from the element travelling into the upper part of the pipe, but



Plate and data supplied by courtesy of the Manning-Bowman Co.

helps to send the heat downward, where it is most needed.

It is, of course, not only unnecessary, but very undesirable to have the handle of an iron get hot. To prevent conduction of heat from the iron into the handle, Asbestos Millboard washers are placed between the bottom of the handle and the top cover stamping. (See figure 5.)

The Manning-Bowman Electric Iron, manufactured by the Manning-Bowman Company of Meriden, Conn., is made for service, and every part of it is built in the most durable manner. The handle is strengthened by a bolt run-

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ning thru its entire length, and the heating element, made of Nichrome wire, is embedded in cement, making it immune to breakage from jolts, jars or falls.

Organization of Asbestos Industries

Representatives of the principal companies engaged in the mining, jobbing, manufacturing and finishing of Asbestos and Asbestos goods, met in Philadelphia on January 27th, to effect a permanent organization.

The new body is to be known as THE ASBESTOS INDUSTRIES.

Officers elected are as follows:

President—Dr. R. V. Mattison.

Vice President—Sir John W. Carson.

Secretary-Treasurer—C. J. Stover.

The President will appoint an Executive Committee of seven members.

The purpose of The Asbestos Industries is to search for the true facts with respect to the actual and probable uses of Asbestos, and to give extensive, intelligent publicity, thru national magazines and other channels to these findings. An advertising agency was chosen and it is expected that the campaign will be under way in the early summer.

The general idea is to give to the Asbestos Industry the same kind of sales and advertising service as that which has been so eminently successful in connection with the paint and varnish, cement, lumber, fruit, rice, coffee and other major industries.

FIBRE
LESS THAN CARLOADS
PROMPT SHIPMENTS

PENNSYLVANIA ASBESTOS CO.
John A. Hovey, President
NORTH WALES, PA.

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Hobdell, Way & Co.

LIMITED

LONDON, ENGLAND

RHODESIAN
CRUDE
ASBESTOS

CAPE BLUE
CRUDE
ASBESTOS

Address Enquiries to

W. D. CRUMPTON & CO.

Special Representatives

Room 1010 #8-10 Bridge Street

New York City - New York

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Help for the European Children

Editor ASBESTOS,
Philadelphia, Pa.

Dear Sir:—

Few of your readers are familiar with the suffering among the children of Europe, except, perhaps, those who have been reading the reports of various committees who are collecting funds to clothe and feed these poor children.

We think it would be a wonderful idea for ASBESTOS to publish this letter in the next issue as an appeal to every reader to give clothing, especially children's clothing, for this cause.

The clothing need not be new, provided it is in good condition. It can be sent direct (by mail if the package does not weigh over 11 pounds) to the Society who last year handled the food drafts sent by the Asbestos people here in the States, the address of this Society being

Asbestos Food Society,
Gummifabrik XIII—3,
Huttelsdorferstr. 130,
Vienna, Austria.

Or, if you prefer, send the packages to our offices at 1819 Broadway, New York City, and we will see that they are promptly forwarded. Be sure to place your name on the package so that acknowledgment may be made.

If anyone feels inclined to send money for Food Drafts, it also will receive careful acknowledgment and the Drafts distributed where they are most needed.

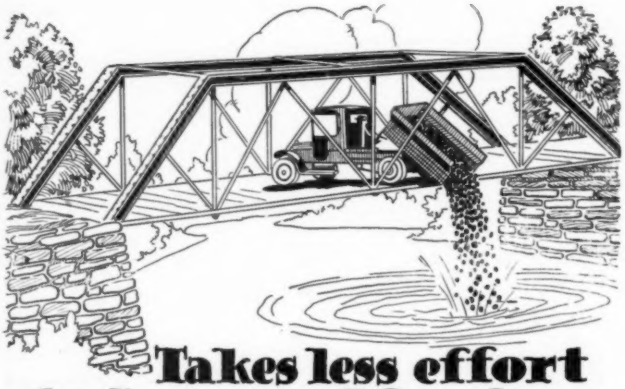
Anyone who has seen the horrors knows what conditions exist, and while we appreciate the fact that charity commences at home, surely here is a great need which everyone can help relieve.

Hoping to have this appeal published in the next edition of ASBESTOS and hoping that people will respond so that when the writer leaves for Austria the end of next month, he will be able to inform the sufferers that help is forthcoming, we are,

Very truly yours,
ASBESTOS & MINERAL CORPORATION,
(Sgd.) B. Marcuse, Pres.

Editor's Note: We agree with Mr. Marcuse that here is

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Takes less effort to dump coal in river

To run a power plant, heating plant, or furnace without adequate insulation is just a dragged out method of throwing away coal.

The right covering on your steam pipes and boilers means big fuel saving. Some one Carey Covering will give you best results, and pay for itself within a few months.—Let us tell you which one to use for maximum economy.

Write for booklet "Carey Asbestos and Magnesia Products."

THE PHILIP CAREY COMPANY
Lockland
Cincinnati, Ohio

Carey
ASBESTOS & ASPHALT PRODUCTS
85% MAGNESIA

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a real need, and who can refuse a child! If money is sent be sure that it is mailed to 1819 Broadway, New York, so that it may be there converted into food drafts. We wish we had room to print a letter received by the A. & M. Corp. from the recipients of one of these drafts, for after reading it no one could doubt that the draft did a very great deal of good.

The Wire Market

It is our intention to print from time to time authoritative comments on the condition of the market in various materials used by the Asbestos-Magnesia Industry.

This month we are pleased to give the manufacturers of Metallic Asbestos Yarns the opinion of a large manufacturer of fine brass and copper wire.

"As to fine brass and copper wire," the Standard Underground Cable Company says "the demand for immediate delivery has been somewhat curtailed, but good inquiry and some good orders have materialized during the last few weeks. Copper has reached an abnormally low figure, lower than the price considered normal and attractive before the great war, and to a considerable degree the same is true of spelter; therefore, conditions would seem to be unusually favorable for buyers to anticipate requirements; in other words, these metals (copper bars at 13 to 13½c depending upon delivery date and spelter at 5¼ to 7½c, depending upon grade) have been "stabilized" with a vengeance, and are at levels which do not represent present cost of production for nine-tenths or more of the producers. Production is being further curtailed, and with a little improvement in demand, prices might easily rise to a higher level."

A meeting of the National and International Unions affiliated with the American Federation of Labor, has been called in Washington by Samuel Gompers, for February 23rd, to devise ways and means to prevent spread of sentiment in favor of the Open Shop. While the call for the meeting does not officially state this purpose, it is known that the proposed meeting was prompted by the efforts of powerful financial and industrial interests to wage a campaign against organized labor.

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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, "

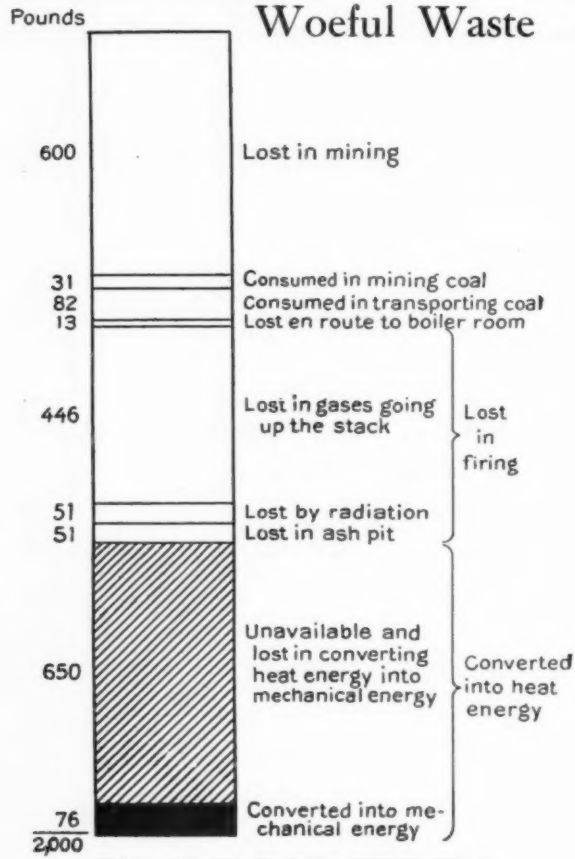
Head Office

260 St. James St., Montreal

General Office

THETFORD MINES
Quebec, Canada

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EIGHT LOSSES IN COAL UTILIZATION

Under ordinary conditions of mining and firing out of every 2,000 pounds of steam coal in place in the mine, only about 76 pounds are converted into mechanical energy. The other 1,924 pounds are either unavailable or are absorbed by the eight losses shown in the diagram.

This means a recovery as power—the ultimate objective—of only 4 per cent of the resource, assuming steady operation. Allowing for further loss due to bad load factor, the recovery as power becomes perhaps 1 or 2 per cent.

Reprinted by courtesy of the Bureau of Mines.

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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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FRANKLIN FUEL SAVING PRODUCTS

Not Only Does
One Ton of 85% Magnesia
Save
One Ton of Coal Per Day

But it also prevents
the condensation of
EIGHT TONS OF STEAM PER DAY

And thereby increases
by that amount
THE EFFECTIVE BOILER CAPACITY

The Franklin Mfg. Company
FRANKLIN, PA.

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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

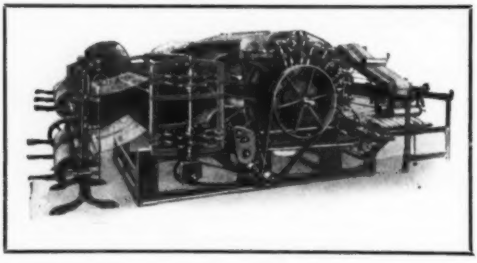
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When you require

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

Undoubtedly credit will have considerable to do with export business for some time. In this connection it is noted that European Manufacturers who in prewar days were accustomed to offer the South American Republics as long as six months in which to make payments on shipments, have cut this time down in some instances to as low as thirty days. Not infrequently interest is charged on time allotted for settlement.

COTTON—The 1920 cotton crop has turned out to be the biggest since 1914, with a production of 6,213,262,000 pounds, equivalent to 12,987,000 bales of 500 pounds weight, exclusive of linters, according to the Department of Agriculture's final estimate for the season.

Matter of exact population of the United States on January 1, 1920, is now officially certified. It was then 105,708,771, these figures being certified by Census Bureau to House of Representatives as basis for re-apportionment or enlargement of that body if necessary. With our outlying possessions, our total authentic population on that date was 117,857,509.

Hon. S. D. Fess, of Ohio, in a discussion of the Rubber Industry on the floor of the House of Representatives, Washington, January 13th, made a point of the changes in our Social and industrial life due to the automobile. He gives figures of the annual replacement requirements of the automobile industry of 1,500,000 cars and placed the entire industry's production capacity at 2,000,000 cars. The motor vehicle, he said, is our best business barometer and cars are not a luxury, but a motive power as necessary as the trolley car and approaching steam power as a transportation factor.

According to Dodge Statistics building projects contemplated in all lines for December 1920 are valued at approximately $400,000,000 and for the full year 1920, $5,000,000,000.

According to Reports from Marion, Ohio, President-Elect Harding proposes to replace the Department of Labor by establishing a Department of Public Welfare. This *sounds* better anyway.

The National Association of Merchant Tailors of America has concluded to expend five million dollars during 1921 to advertise made-to-measure clothing. We imagine that this action is taken in an effort to counteract the very extensive advertising to forward the interests of the ready-to-wear clothing trade.

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News of the Industry

The regular meeting of the Asbestos Mine Operators Association of the Province of Quebec, was held in Montreal, in the offices of Sir John W. Carson, its President, on Tuesday, January 18th. The attendance was good, and the meeting was very interesting to the Editor, who, thru the courtesy of the Mine Operators, had the privilege of being present.

Arnold W. Koehler, President Asbestos Textile Company, recently submitted to a minor operation and is reported recovering very satisfactorily. His many friends are unanimous in hoping that he will soon regain his usual good health.

The calendar issued by the Asbestos & Mineral Corporation for 1921 is most attractive.

The directors of the Asbestos Corporation of Canada, Limited, have declared extra dividends of 2% on both the Common and Preferred Stock in addition to the usual quarterly dividends of 1½% on the Common and 1¾% on the Preferred, all payable January 15th to holders of record January 1st.

The December number gave the address of the Standard Asbestos Company as 21 S. 7th St., Philadelphia. Readers should take note that the correct address is 21 North 7th Street.

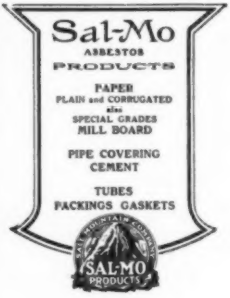
The B. F. Goodrich Company of Akron, O., are celebrating their Fiftieth Anniversary. Dr. Benjamin Franklin Goodrich built his small two-story factory just fifty years ago, and the principle upon which the business was started "Let us make goods destined for service" has been maintained to this day.

The British Colonial Contracting Co., Ltd., of 167 Commissioners St., Montreal, Canada, has recently been established as agents for Asbestos materials in all forms, and Contractors in Pipe Covering Work. W. F. T. Cheesman, who has charge of this end of the business, was formerly Resident Manager of the Philip Carey Company.

Our genial friend and loyal supporter, A. M. Ehret, President, The Ehret Magnesia Mfg. Company, Valley Forge, Pa., is suffering rather severely from an infection in one of his feet. His surgeon anticipates no serious trouble, however, and we hope the surgeon is right.

A very informative catalog is issued by the Asbestos & Mineral Corporation under the title "Asbestos Crude and Fibre." The Crudes and Fibres are minutely described as to color, standard test, uses to which put in manufacture, packing weights and cubical contents. A brief history of Asbestos is appended, together

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Factories,

Scranton, Pa.
Rockdale, Ohio.
Porter, Ind.

New uses for Asbestos Materials are constantly being discovered. Are you keeping in touch with this development?

The industry is growing rapidly, but soundly. The old uses for asbestos materials are as good as ever. You should, however, be adding new accounts to your asbestos list. Are you doing it? We can help you.

Our new Asbestos Catalog is about ready for distribution. If you have not written for yours, do it today.

Sall Mountain COMPANY

General Office
305 So. La Salle Street
CHICAGO

NEW YORK CITY
141 W. 20th. St.

Scranton, Pa.

BOSTON, MASS.
268 State St.

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with a detailed explanation of the standard methods of testing and analysis.

The Consolidated Classification Committee has under consideration the re-classification of Asbestos, Magnesia, Wool Felt and other similar pipe coverings, together wth Asbestos Cement. As usual the revision is upward. Coming as it does so soon after a flat 40% increase in rates, the entire Industry has gone on record in protest and while at this writing it cannot be definitely stated whether the Committee will go thru with the upward revision, it is certain that if such action is taken by the Committee the Industry should bring every possible influence to bear to compel a revision back to the present classifications at least.

The H. H. Robertson Company, manufacturers of Asbestos Protected Metal, has recently established at its Pittsburgh Office, a Library for the use of its employees. The books treat of Accounting, Selling, Management, Finance, and Law, and altho the number is as yet small it is planned to enlarge it from time to time.

We admit that table given on page 46 in the January issue contained several discrepancies, but it was published for the general information contained. According to this table imports into the United States during 1918 were 137,700 tons exports from the United States 697 tons, showing an apparent consumption in the United States for that year of 137,000 tons. The table also shows production thruout the world of 146,434 tons, or consumption outside of the United States of only 9,500 tons. Part of the discrepancy is probably due to the shipments from Canada thru U. S. Ports to foreign countries being counted as imports instead of as exports.

A fire of incendiary origin, recently occurred in the plant of the Union Asbestos & Rubber Company at 2834 S. Loomis Street, Chicago, causing damage to the extent of $200,000. The Company immediately resumed operations in temporary quarters and their activities have now returned to normal.

In the January Market Letter issued by the Asbestos & Mineral Corporation, they say: "We figure that present indications of production and consumption will show prices at least 10% higher by the end of this year. They predict, however that advance will not be made as rapidly as it was in 1920."

In the January issue the capital of the newly incorporated Asbestos Crude & Fibre Mining Corporation, Limited, was, thru a printer's error, stated as six hundred million dollars, whereas it should have been six hundred thousand dollars.

The Asbestos & Mineral Corporation will occupy their new offices, 12th floor, Gotham National Bank Bldg. 1819 Broadway on and after February 1st. A six page folder illustrating the building is being issued by them announcing the new address.

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Heat at 700° to 800° F. Actually Improved It

Many kinds of insulating material will give a certain protection and service to pipes, boilers, tanks, etc.

But 85% Magnesia, with its microscopic voids amounting to as much as 90 per cent. of the bulk of the material, has peculiar qualities. Excessive and continuous heat, for example, improve its service. In a recent test at Mellon Institute, pipes covered with 85% Magnesia were tested for a period of two months with heat ranging from 700° to 8009 F. At the end of the test the Magnesia Covering was actually more efficient than at the beginning.

In the plant of the Buffalo General Electric Company, 3-inch, 6-inch and 10-inch steam lines, carrying steam at temperatures of from 650° to 7009 F, with a peak temperature of 800° F., had been covered with 85% Magnesia for four years when a section was removed. *The excessive heat had caused no sagging or other deterioration.*

Interesting data, helpful tables and illustrations of a great variety of applications of 85% Magnesia sent free of obligation to any engineer or executive interested.

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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After that date they would like to receive from all Manufacturers complete catalogues and other printed matter, all of which will be carefully catalogued and placed in their reference library, for consultation by anyone interested. After February 15th, all Members of the Industry are invited to inspect the new quarters of the A. & M. Corporation.

A very interesting exhibit at the Philadelphia Automobile Show held during the week January 15th to 22nd, was that of the American Asbestos Company of Norristown, Pa. A full line of Asbestos Textiles was shown, special emphasis being laid, naturally, on clutch facings and brake linings of the well-known Testbestos brand.

A valuable service rendered to dealers takes the form of racks of different sizes to contain reels of Brake Lining for convenient retailing. The exhibit was quite a success.

Current news reports indicate that the Mohawk Valley Asbestos Company, with a main plant at Utica, is erecting an additional plant at Oneida, N. Y. The statement is made that an order has just been booked for 28 carloads of shingles, to be shipped to New Jersey in the early spring.

A unique and useful piece of office desk equipment is being distributed to customers by the Powhatan Mining Company, Woodlawn, Baltimore, Md., in the form of a signature blotter containing the name and address of the Company on the enameled holder and several three space blotters underneath to be removed one by one as they become discolored.

Our congratulations to C. L. Hill, Vice President of the United States Asbestos Company at Lancaster, whose birthday occurs on February twenty-fifth.

Mr. and Mrs. Charles W. Campbell have announced the marriage of their daughter, Bertha, to Mr. Walter R. Leventritt, on December 30th, 1920. There is surely no one identified with the Asbestos Industry who does not know the heavy part-owner of the Asbestos & Mineral Corporation, of New York, and everybody joins in congratulating and felicitating him upon this occasion.

C. Huber, President of the Asbestos Fibre Spinning Company, is sojourning in St. Petersburg, Fla., for the winter. Having personal knowledge of the salubrious climate of St. Petersburg, we certainly envy our friend Mr. Huber.

R. P. Doucet, the genial and capable sales manager of Asbestos Corporation of Canada, Limited, is at this writing confined to his home suffering from a bad attack of pleurisy. Mr. Doucet's many friends will join in wishing him a speedy and complete recovery.

"Asbestos in South Africa" is the title of a two-page report

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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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issued by the U. S. Bureau of Mines, Washington, D. C., Reports of Investigations, Serial 2179.

According to the Commercial Journal Robert H. Lucas will resign from the advertising department of the General Asbestos & Rubber Company of Charleston, S. C.

Mr. and Mrs. Benj. T. Conwell, Jr., have just returned from a trip overseas, having visited England and France while away. Mr. Conwell will be recognized as the Vice President and Treasurer of the American Insulation Company, Philadelphia, this Company being the Philadelphia representatives of the Philip Carey Company, Cincinnati.

"The Story of Asbestos," a motion picture film in six reels, produced by the U. S. Bureau of Mines, in co-operation with the H. W. Johns-Manville Co. has just been released.

Quebec and Arizona mining operations are shown, together with manufacturing at the Manville, N. J., and Nashua, N. H., plants.

The Bureau of Mines, 4800 Forbes St., Pittsburg, will loan this film for educational purposes.

IMPORTS AND EXPORTS OF ASBESTOS

Imports of Crude Asbestos for the month of November, 1920 were:

Italy	$ 898.	2 Tons
England	7,432.	50 "
France	3,780.	60 "
China	2,098.	7 "
Br. So. Africa	29,136.	92 "
Port. Africa	90,292.	170 "
	$133,636.	381 "

Imports of Manufactured Asbestos:

Germany	$ 1,797.
Italy	35.
Switzerland	6,503.
England	32,464.
Scotland	379.
	$41,178.

Exports of Manufactured Asbestos Goods amounted to $310,600 the most interesting items of which are $16,040 worth to the Netherlands, $23,943 to China, $47,569 to Roumania, $11,234 to England.

Full details of these figures can be had by addressing Asbestos. The figures given do not include either exports to or imports from Canada.

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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

As we read the proofs of this issue,we hope our readers will find February ASBESTOS as interesting as it appears to us.

The article by Chas. F. Wade we think you will find of interest both in itself and because of the status of its author. The pictures which accompany it were furnished by Mr. Wade and are, of course, British installations.

We have taken you all over the world in this issue, giving notes from Canada, Arizona and Africa, while the photograph on page 4 shows the peculiar character of the Mines in Siberia. By the way, this picture is the first of a series showing mining operations in Siberia which we will publish from time to time. The photographs were furnished by Messrs. Becker & Haag, of Berlin, and we know our readers will find them instructive.

Next month we expect to give you a short article on the Russian Asbestos Industry *"as was."* Little can be learned about Russia and what is known contains so many unpronounceable names that we hesitate to print it, but at least we can give you an idea of the extent of the Asbestos Industry in that country before the war, and other interesting items.

The leading article in March will be "Making Gas Mantles Durable," which all makers and sellers of mantle cord will enjoy reading. A short article on a peculiar use of Asbestos is coming soon, possibly next month—in fact we think we can promise you a very good March number.

Don't forget to do your part, however, by sending in any information you come across about Asbestos or its products in any way, shape or form. Even tho it may be an old thing to you, some of our readers will find it new and intensely interesting.

Get into the habit also of telling ASBESTOS of the things which happen in your organization, for the News of the Industry section.

And—when you see a little red sticker on the back of your envelope, that means your subscription is ended, and you should hustle up renewal so you won't miss the next number.

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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

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Established 1897

Ehret Magnesia Mfg. Co.

Valley Forge - Pennsylvania

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

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LINCOLN'S BIRTHDAY

FEBRUARY 12TH

"PROPERTY IS THE FRUIT OF LABOR; PROPERTY IS DESIRABLE; IS A POSITIVE GOOD IN THE WORLD. THAT SOME SHOULD BE RICH SHOWS THAT OTHERS MAY BECOME RICH, AND HENCE IS JUST ENCOURAGEMENT TO INDUSTRY AND ENTERPRISE. LET NOT HIM WHO IS HOUSELESS PULL DOWN THE HOUSE OF ANOTHER, BUT LET HIM WORK DILIGENTLY AND BUILD ONE FOR HIMSELF, THUS BY EXAMPLE ASSURING THAT HIS OWN SHALL BE SAFE FROM VIOLENCE WHEN BUILT."

ABRAHAM LINCOLN

Robinson Press.
Hatboro, Pa.

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