ASBESTOS

Vol. I **FEBRUARY, 1920** **No. 8**

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

Published by

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Asbestos Automobile Specialties

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Manufacturers of

"Diamond N" Asbestos Products

Pipe and Boiler Coverings
Heat and Cold Insulations

Main Office and Factory

Norristown -:- -:- Pennsylvania

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The World's Largest Dealers in Asbestos Crude and Fibre

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ASBESTOS

A MONTHLY MARKET JOURNAL

Devoted to the Interests of Asbestos and Magnesia Industries

Subscription Price: U. S. and Canada, $1.00 Per Year
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The Editor's Ramblings

We've just read a book, "A Man for the Ages," by Irving Bacheller. It is the story of Abraham Lincoln's young manhood.

Even in those early years of his life, Lincoln was quite a story-teller.

To illustrate a point he told of a man in Illinois who owned the biggest hog in the State. People flocked in large numbers to see the hog. One day a prosperous farmer drove up and said he had come to look at the hog. The owner told him that he had decided to charge a quarter admission. The visitor got out of his wagon, paid the quarter, climbed up on the seat of his wagon again and prepared to drive off. "Why," said the owner, "you've paid your quarter. Don't you want to see the hog?" "Thank you," said the visitor. "I've seen the biggest hog in Illinois —you—and I don't care to see any lesser ones."

So far as our observation goes, most people, workers and employers alike, are today obsessed with the idea of "getting the dough." The money gotten, only a painfully small part of the people know what to do with it. Men, women and, alas, children, are riotously spending and spending—for what? Principally for luxuries of questionable service value.

It is freely stated by makers of shoes, for instance, that ordinary serviceable shoes find no market, the demand being almost entirely for fancy, highly ornamented and relatively short-lived wear.

We can see in the distance, fast approaching, a period of readjustment which will rock the very foundations of our daily lives. Happy indeed will be the man whose financial house is in good order when the shift comes.

Your Obligation

Very careful inquiry convinces us that not less than 95 per cent of the 1,600 subscribers to ASBESTOS read it thru from cover to cover.

Your editors construe this to mean that ASBESTOS has a real field of influence, and that the effort we have made,

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while admittedly falling short of perfection, is, nevertheless, along constructive, helpful lines.

Now then, Reader, you have a very definite part to play in helping ASBESTOS, because we want to make ASBESTOS all that you would like it to be.

In what are you most interested?

Will you suggest a subject for treatment in ASBESTOS?

Will you criticise, constructively, and with a view to getting the greatest possible benefit from YOUR magazine?

Will you help yourself by the infallible means of helping others?

As we go about among business men of widely differing interests we find a strong sentiment growing for the early repeal of the excess profits tax. Even in cases where it may not be of individual advantage, the thinking men appear solidly convinced that the excess tax is passe.

What do you think?

Market Conditions

Crudes and Fibres

The crude and fibre market is practically unchanged.

It would seem, however, from advices received from various sources that there is more material available for prompt shipment than some people would like to have us believe.

One of the Canadian mines has recently quoted the following prices:

Crude No. 1		$1,800
Crude No. 2		1,150
Mill fibre "C"	(3-8-3-2)	525
Mill fibre "R/M"	(0-2-10-4)	145
"F" fibre		25
Floats		12

F. o. b. mines, plus 3½% tax.

85% Magnesia Coverings

Demand has greatly increased and orders now exceed ability to ship at once. A part of this is seasonal, as it has always happened that cold weather brings increased business in this line. Proper insulation saves just as much loss in summer as in winter, but humanity is bound to have its

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whims. High-pressure steam insulation ought to be an all-year-round business, little affected by the seasons.

Powdered Carbonate of Magnesia

Unfilled tonnage has increased greatly. Part of it is due to first of the year contract placements. Ever-increasing activity in rubber, printing ink and general chemical trades is chiefly responsible. Conditions are better than for some months past.

Asbestos Paper and Millboards

Mills are all busy and, without exception, oversold. Surplus stock of one producer who failed has been entirely absorbed and the market is very firm.

Millboard and rollboard is in heavy demand and prices have advanced in most cases.

Air Cell Covering

Home building has passed record figures, hence demand for air cell is heavy. Prices are firm.

Electrical Appliance Asbestos

As the electrical idea is being rapidly applied to the operating of everything from homes to ships, Asbestos is being more and more employed in this field.

Hundreds of electrical appliances use Asbestos in one form or another and the field broadens daily.

Asbestos Textiles

Situation is unchanged. Demand for nearly all grades exceeds supply. Figures collected recently indicate very large unfilled tonnage and a monthly demand greater than productive capacity, raw material considered. Machine capacity is ample if raw stuff could be supplied.

Demand for brake linings, packings, fine yarns, cloths, tubing, high-grade pure cloths, remains heavy.

Asbestos Shingles, Slates, etc.

Factories all report heavy orders. Increasing transportation costs assist greatly because natural slates and tiles are so much heavier than Asbestos cement slates. A healthy condition prevails.

Household Specialties

Plentiful supply of money in hands of working people has greatly increased sale of these goods, which are largely marketed thru 5 and 10-cent stores.

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Asbestos Clothing

Suits, masks, gloves, mittens, etc., are being more and more generally demanded by workmen and supplied by employers in iron, steel and chemical plants where high temperatures and exposure to acids and alkalies prevail.

Summary

Generally, the Asbestos-Magnesia industry has never been so busy and, since the basic industrial conditions appear sound, every indication points to a continuance of prosperity in this line.

Current Prices During Last Month

Consumer's prices during the last month were at about the following level. It should be understood that great variance from these figures occurs, due to quantity and quality, but we believe these prices truly represent average market conditions:

85% Magnesia Pipe Covering		10%
Magnesia Carbonate, Powdered	$0.15 to $0.20	lb.
Asbestos Paper, Commercial	10.00 to 15.00	cwt.
" Millboard, Commercial	10.00 to 15.00	cwt.
" Paper and Millboard, Special	15.00 to 35.00	cwt.
" Air Cell, 4-Ply		40%
" Cement		$2.00 cwt.
" Yarns, 10s Commercial	$1.10 to 1.40	lb.
" Cloth, 10s Commercial	1.20 to 1.50	lb.
" Yarns and Cloth, Special	1.50 to 5.25	lb.
" Listings and Tapes	1.50 to 6.00	lb.
" Wick and Rope Packing	.65 to .90	lb.
" Wire Inserted Sheet	.80 to 1.50	lb.
" High-Pressure Steam Packing	1.00 to 1.75	lb.

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"Man to Man"

B. C. FORBES COMPANY, 299 Broadway, New York, Publishers. JOHN LEITCH, Philadelphia, Author.

In this book Mr. Leitch, whose work is well known to many American manufacturers, outlines the plan employed by him in improving the relations existing between employer and employee in several large manufacturing plants.

Mr. Leitch, by virtue of employing and inculcating the principles of *justice, economy, energy* and *service,* strives to replace the master and servant relation with a co-operative atmosphere.

He sets forth in simple, concise language the theory upon which his work is based, and then cites several actual experiences, with results secured. His work has attracted national attention and is called by him "Industrial Democracy."

He says: "Industrial democracy is a definite and profitable plan of organization. . . . It pulls men out of hopelessness and plays up a spirit that brings co-operation and sales profit. Moses said: 'Without a vision the people perish.' He said that a long time ago, but it holds true today."

Mr. Leitch says again: "Industrial democracy is not a drastic revolution, but an inevitable resistless evolution."

Some of the effects of the application of industrial democracy claimed by Mr. Leitch and by his clients are:

1. An increase in production.
2. A decrease in the cost of production.
3. A decrease in the labor turnover.
4. A reputation throughout the community as a desirable place to work in and consequently a greater ease in hiring men.
5. An immunity from strikes and other labor troubles.

Whether or not the ideas of Mr. Leitch can be actually carried out in practice, to an extensive degree, can best be told by those who have tried the plan. It is obvious, however, that any plan based upon the four principles of justice, economy, energy and service cannot go very far wrong if the practice of the principles is followed by all parties concerned. If either the employer or the employee fails to carry out his part of the program, then, doubtless, the situation would be worse than before the scheme was started.

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FRANKLIN
FUEL SAVING
PRODUCTS

The owner of an uncovered steam pipe pays for covering it two or three times a year.

He ought to get the benefit of the covering.

The coal he wastes should be put to work.

How can we make it sufficiently evident to him?

Catalog F. F. 7-19

THE FRANKLIN MFG. COMPANY
FRANKLIN, PA.

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Amphibole—or the Slip Fibre Varieties of Asbestos

(Its Importance and Uses)

By F. A. Mett, General Manager

The Powhatan Mining Company, Woodlawn, Baltimore, Md.

Few persons realize the value and importance of our commonly called slip fibre varieties of Amphibole Asbestos. They are of particular service to the chemist in analysis of materials and in chemical research. The laboratory, in fact, cannot operate successfully without pure Asbestos fibre for use in the preparation of filter pads in Gooch crucibles. The success of quantitative analysis is solely dependent upon the purity of the fibre used; it must be absolutely clean, free from iron and all other impurities.

The preparation of Gooch filter fibres depends primarily upon the selection of proper crude material, viz., the actinolite or tremolite varieties of the so-called Amphibole group. Where extreme accuracy is desirable, ignition is sometimes necessary to burn off the organic matter which would otherwise be readily acted upon by the acid or alkaline solutions, rendering the analysis inaccurate. Under such conditions these fibres of Asbestos will not turn black nor rapidly deteriorate.

When selecting crude material, the longer, stronger, pure white silky fibres (Amianthus) are chosen. They are then hand cobbed, washed and concentrated by special machinery, in order to get rid of the earthy, clayey, associated gangue (non-fibrous) matter. This operation tends to greatly reduce the length of the original fibres and eliminates the poorer or unfit fibres.

Following this step, the fibres remaining, having been dried, are ready for the acid-washing process. This consists of digesting the fibres with pure hydrochloric acid for several hours, or until the iron and other impurities are completely dissolved. The fibres are then washed free of the hydrochloric acid by a special filter apparatus, with an abundance of wash water, subsequent washings being required, as it is necessary to completely eliminate all traces

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Pure Actinolite Asbestos Fibre

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of the acid. This operation thoroughly separates the Asbestos fibres, also washes out the fines or dusty-like matter (very minute fibres).

The remaining fibres are then dried and screened, graded according to their respective sizes, and packed ready for shipment.

The preparation of the fibre has now been completed.

Upon using the completed product in the laboratory the Asbestos fibres are put into a container and distilled water added, so as to permit the fibre to be thoroughly agitated; it is then poured into Gooch crucibles and well packed, so as to completely cover the crucible perforations.

The crucible is then dried and weighed, and is now ready for filtering precipitates. This is done as follows:

The precipitate solution is poured in the crucible, which is connected to a small vacuum pump or water jet exhauster. It filters very rapidly, the precipitate being caught between the very minute interstices formed by the Asbestos pad in the bottom of the crucible.

Filtration having been completed, the crucible is again dried and weighed, the difference between its present weight and the weight at the beginning of the operation being the weight of the precipitate. This completes the analysis.

The Asbestos mining industry in the Province of Quebec, Canada, has grown from a production of 5,919 tons in 1888 to 141,462 tons in 1918, a period of thirty years.

The 5,919 tons produced in 1888 were valued at $352,260, an average price of $59.51, while the 141,462 tons in 1918 were valued at $8,936,809, or an average price of $63.17.

It is interesting to note that the average price in 1888 was higher than the average price in 1917 ($52.45). It is, of course, very probable that the material produced in 1888 was mostly high grade, either crude or mill fibre.

It is a great deal easier to find an engine than it is to find an engineer.

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Bell Asbestos Mines

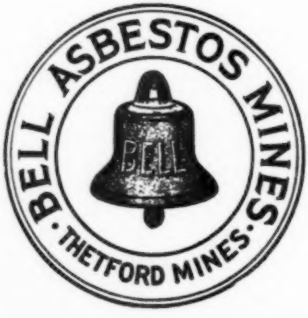
THETFORD MINES
Quebec, Canada

OFFICES AT
Thetford Mines, P. Q., Canada
and
Ambler, Penna., U. S. A.

Miners and Shippers of

Asbestos

CRUDE AND FIBRE



OWNERS

The Keasbey & Mattison Company

Ambler, Penna.
U. S. A.

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Engine Cab Pipe Covering

In the October number we made mention of the use of Asbestos tape for pipe covering. Our readers may be interested in further information concerning this use of Asbestos tape.

The name "engine cab pipe covering" is given because it is used principally for covering steam lines in the cabs of engines. The covering has made a great hit with the superintendents of motive power of the railroads, since it protects engineers and firemen from getting burned from superheated lines and also prevents, to a great extent, condensation on the steam lines in the cab as well as on the lines which extend to the Westinghouse air pump outside.

The H. F. Watson Company, who have been quite successful in exploiting Asbestos tape for this purpose, give the following directions for its application:

Materials to Use

For 1″ and 1¼″ pipe, use 1″x⅛″ tape.
For 1½″ pipe, use 1½″x⅛″ tape.
For 2″ pipe, use 2″x⅛″ tape.
For 2½″ and 3″ pipe, use 3″x⅛″ tape.

Directions for Applying

First—Coat the pipe with silicate of soda.

Second—Cut tape on 15° angle; angle to be three times the outside diameter of pipe.

Third—Wrap listing around the pipe in spiral form.

Fourth—Cut band from 1″ tape and collar around each end of winding; this also to be applied with silicate of soda.

Fifth—Over collar apply hose clamp at each end of spiral winding. When steam is turned on same will set and give a permanent insulation.

A closely woven tape, or listing, of rather good quality, is used, and the Watson Company tells us that the demand for the material is so heavy that they are greatly oversold.

Nothing doing is the result of doing nothing.

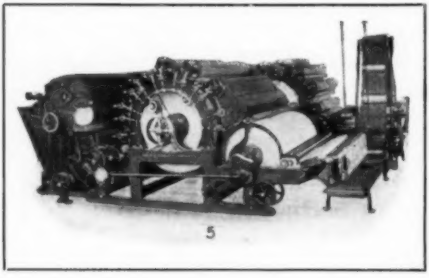
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When you require

Asbestos Machinery

you should think of

"SMITH & FURBUSH"



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

Ask for circulars AM138, etc.

SMITH & FURBUSH MACHINE CO.

Philadelphia **Penna.**

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Collections and the Sub-Contractor

Contractors, whether agents, branch offices or independents, in Asbestos-Magnesia work, would do well to take a leaf out of the book of plumbing and heating contractors.

Every contract should have a properly worded clause requiring the payment monthly of 80% of the value of the work done in that month.

Several branches of the building industry have such clauses and *enforce them.*

In nine cases out of ten the general contractor gets his from the owner on an "80% of work done, monthly" basis, and the sub-contractor should do likewise.

If you make 5% net on your capital turn, and the capital is $25,000, and you are now turning capital six times a year, you make $7,500.

By closer collecting and a more intensive use of capital, suppose you increase number of turnings only one per year —that's just $1,250.

No reasonable excuse can be offered by the sub-contractor for not demanding the same method of payment as the general contractor demands.

The usual weak-kneed excuse given is that "my competitors cater to the general contractor, so I must."

Why permit your competitors to dictate *your* business policy?

If you are not strong enough to institute and enforce a clean-cut policy, there's something radically wrong with your business.

In the January issue we gave a list of the various places in which Asbestos is found. A Southerner now writes us that we omitted Georgia (Sall Mountain and Hollywood Districts), in which localities not a little Asbestos has been mined and utilized during the past years. If any one of our readers knows of other localities which were not included in our list, let us know and we will add them to the list.

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The Standard of Quality

Carey

ASBESTOS AND ASPHALT PRODUCTS

85% Magnesia

Carey Flexible Cement Roofing
Roll Roofings
Built-Up-Roofs
Asfaltslate Shingles
Wallboard
Roof Paints
Elastite Expansion Joint
Asphalts
Asbestos Products
85% Magnesia Products
Ezola Mats
Pipe Coverings and Cements

THE PHILIP CAREY COMPANY

Factories
Lockland, Ohio, and Plymouth Meeting, Pa.

General Offices
Lockland, Cincinnati -:- -:- U. S. A.

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Variance in Asbestos Chemically

Contributed by the Asbestos and Mineral Corporation

The Chemical properties of Asbestos vary in the different localities in which it is found.

As an example, note the difference in chemical properties of Asbestos found in the several Asbestos-producing sections of Canada:

Locality.	SiO_2	MgO	FeO Fe_2O_3	Al_2O_3	H_2O	Total
Thetford	39.05	40.07	2.41	3.67	14.48	99.68
Black Lake	39.36	42.15	3.31		14.50	99.32
East Broughton	39.20	42.97	2.95		13.87	98.99
Danville	41.84	41.99	2.23		14.28	100.34
Robertson	30.18	45.80	5.81	1.41	15.70	98.90
Coleraine	39.22	40.27	2.26	3.64	14.37	99.76

SiO_2 is silica salt.
MgO is magnesia salt
FeO Fe_2O_3 are iron salts.
Al_2O_3 is aluminum salt.
H_2O is water.

What Does a Dollar Cost?

Well, it depends upon where it is bought, and to show to what extent the cost varies throughout the world we tabulate the amount of money each of the principal nations had to pay for a dollar in December, 1919:

England	$1.21	Denmark	$1.33
France	1.89	Norway	1.25
Belgium	1.81	Sweden	1.19
Italy	2.38	Holland	1.05
Switzerland	1.05	Germany	10.13
Spain	.97	Japan	.99

Note that Spain and Japan both secure American dollars for less than 100 cents.

These unfavorable exchange rates operate against exports from the United States, but stimulate imports.

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Sal-Mo PRODUCTS

Quality *Service*

Asbestos

Paper
Millboard
Pipe Covering
and
Cements

SALL MOUNTAIN CO.

General Offices
230 South LaSalle Street
Chicago

Eastern Office and Factory
Scranton, Pa.

Factories
Porter, Ind.; Chicago, Ill.
Scranton, Pa.; Rockdale, Ohio

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Stupendous Growth of Motor Car Industry

Of interest to Asbestos manufacturers should be the gigantic growth of the motor industry as evidenced by statistics of registration showing an increase of almost 300% in three years.

A survey of the forty-eight States and the District of Columbia shows 7,602,000 registered machines, passenger and commercial, at the close of 1919, as against 2,342,857 in 1915.

The estimated population of the United States is 105,253,400. This, compared with the motor car production of the country, reveals a car in use for every fourteen persons. The greatest number is found in the agricultural regions, Iowa leading with a car for every six persons. The Empire State, the largest in population, has a car for every twenty persons, and the Southern States show an average of a car for every twenty of population.

If Iowa's automobile density were applied to the whole United States, 17,500,000 cars would be necessary, or 10,000,000 more than the 1919 registration. For this reason official automobile authorities believe the demand will not slacken, especially since it was observed that when 6,000,000 cars were in use, there was a renewal demand of 1,000,000 cars a year. By this comparison the operation of 12,000,000 cars would mean a normal replacement demand for 2,000,000 cars a year, to say nothing of new business.

Not much cause to worry about the future of the Asbestos brake lining business from the viewpoint of demand!

And now we observe the school teachers of New York are being exhorted to organize a union and become affiliated with the American Federation of Labor.

The school teacher exerts a greater influence upon children of school age than does the parent. Woe to our country if our children are to be educated in the 1920 principles of terrorism and class preferment.

There is one way to prevent it, and that is to pay school teachers more than enough for bare necessities. Every American should make it his business to see that this is done —and promptly.

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Canadian Crude Asbestos and Fibre Corporation

THETFORD MINES

Crudes Nos. 1 and 2 **Spinning Fibres**
Shingle Stocks **Paper Stocks**
Cement Stocks

FROM

Thetford Mines
Black Lake
East Broughton
Robertson

Sole Selling Agents

ASBESTOS & MINERAL CORPORATION

Whitehall Building
NEW YORK

BRANCHES

London, Paris, Tokio, Genoa, Copenhagen, Christiania, Stockholm, Rotterdam, Hamburg, Zurich, Sydney, Cleveland, San Francisco, Buffalo, Chicago

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AMERICAN
COMP

Manufactu

ASBESTOS

NORRISTOWN,

Headquart

YARNS, CLOTH, TAPES, FIBRES, BRAKE L

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THE BRAND OF SUPERIOR QUALITY

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MPANY

facturers of

OS TEXTILES

OWN, PA., U. S. A.

eadquarters for
BRAKE LININGS AND TEXTILES GENERALLY

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Ready to Start

An eminent lawyer got his first lift in life significantly. Employed in the drawing office of the Great Western Railway Company's Engineering shops, he found that young men were occasionally sent down the line on responsible commissions.

Receiving instructions in the morning, they spent the day preparing to start. Shocked at the waste of time, he filled a bag with traveling conveniences, and took it to the office, to be ready to start at short notice. His companions ridiculed the idea. But one day the chief engineer came in and asked about the bag. The owner said:

"I determined, if I had a chance to go, to be ready."

"You did? You see that train?"

"Yes."

"Jump in—I'll telegraph instructions."

And from that time Mr. Harris made rapid progress.

Surely a striking example of being ready for the opportunity.

Opportunity never waits. If you are not ready, it travels on to the fellow who is.

The most efficient organization is that one which, when an employee dies, leaves or gets sick, has someone trained to take his or her place. Could you take the place of the man higher up if you were called upon to take it?

You may think there is no chance of advancement for you, but one thing is certain—if you are not ready for it, there will be no advancement even though the chance is there.

Two young men having the same general qualifications were once employed by the same firm in the billing department. After they had worked for several months, a clerk who did billing of a more complicated nature than the others, was taken ill and forced to be away from the office for several weeks. The head clerk asked for volunteers to work at nights and on Saturday afternoons in order to keep the work up to date. One of these young men offered to help out, making the remark that he would like to know that part of the work.

A few months later there was a vacancy in one of the firm's branch offices and he was given the position, receiving

(Continued on Page Twenty-eight)

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Two-Minute Talks on "85% Magnesia"

NUMBER 7

"A Bird"

Why does a bird fluff up its feathers on a cold day?

To keep out the cold?

Wrong—He does it *to keep in the heat.*

Fluffing up his feathers increases the bird's "dead-air space"—and dead air is the greatest of all heat savers.

The marvelous dead-air structure of "85% Magnesia" is the reason for its extraordinary heat and coal-saving properties.

Not merely a few air-cells, but MILLIONS of them in every inch—each one a closed room—each one holding in its share of the heat.

Whether it is used for the pipes and boilers of the largest power plants or for low-pressure heating systems, "85% Magnesia" eventually costs less than nothing, because every few months it saves enough coal to pay its own cost.

Let us tell you *how* and *why* you should use "85% Magnesia" on your own pipes and boilers.



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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A New Type of Asbestos in South Africa

By Oliver Bowles, Mineral Technologist, Bureau of Mines

Published by Permission of the Director of the United States Bureau of Mines

As importations of Asbestos from South Africa have very greatly increased during 1918 and 1919, the development of deposits of a new type of long-fibred Asbestos in the Transvaal will be of more than ordinary interest to all users of Asbestos in the United States. This Asbestos, which was named "amosite" in 1918, from the initial letters of the "Asbestos Mines of South Africa," the company chiefly interested in its production, occurs along the Elifants River, and the deposit is said to be extensive. It occurs in well-defined veins that are sufficiently persistent to permit economical mining. Commercial production began about four years ago.

The chemical composition of amosite as compared with chrysotile and crocidolite is shown by the following analyses:

	Chrysotile[a].	Crocidolite[b].	Amosite[c].
Silica, SiO_2	40.49	51.64	50.24
Alumina, Al_2O_3	1.27		
Iron Oxide, FeO	2.53		7.80
Iron Oxide, Fe_2O_3		34.38	32.00
Magnesia, MgO	41.41	2.64	3.96
Lime, CaO		.05	tr.
Soda, Na_2O		7.11	2.12
Carbon Dioxide, CO_2			
Water, H_2O (const.)	14.06	4.01 ignition	3.00

It may be observed that amosite most closely resembles crocidolite (blue Asbestos). It differs mainly in the fact that sodium may or may not be present, and that calcium and magnesium may be present in considerable though variable amounts.

([a]) Average of 11 analyses given by Cirkel.
([b]) Dana, System of Mineralogy, 6th Ed.
([c]) Best quality, white, analysis by C. Gardthausen.

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In appearance, amosite differs from crocidolite in that it exhibits an ash gray or pale brown color. Its most striking character is its great fibre length, an average of six inches being maintained for the entire output from some deposits. It has a higher fusion point than crocidolite, and is at least equal to the latter in tensile strength and flexibility, and in sea-water and acid-resisting properties. The fibre is said to be of good spinning quality, and it is claimed that it has already been used in the United States for the manufacture of brake-band linings. As practically the entire output is of spinning grade of a quality that will bear considerable transportation expense, it may become an important raw material in the manufacture of American Asbestos products. The unusual fibre length does, however, require some modification in fabricating machinery, and such changes in equipment are not to be expected until it is fully demonstrated that amosite is a satisfactory fibre for spinning purposes.

Mountain Leather in China

By Oliver Bowles, Mineral Technologist

Published by Permission of the Director of the United States Bureau of Mines

The Bureau of Mines recently received a remarkably fine specimen of mountain leather from Yunnan, China. Mountain leather is a fibrous form of the silicate mineral, tremolite, in which the fibres are naturally belted together, just as in such artificial products as Asbestos paper or millboard. The material received closely resembles leather; it is white, pliable and very strong. It is said to occur in sheets about four feet square and one and one-half inches thick, between layers of rock. If there is any considerable quantity of the material, it should find a ready market, but no information has been received as to the extent of the deposit.

(*Continued from Page Twenty-five*)

not only an increased salary but the chance to work up to the position of assistant manager of the branch. The other young men are perhaps still wondering why opportunity passed them by.

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ELWOOD J. WILSON

Mining Engineer

76 CORTLANDT STREET
New York City

Asbestos Crude and Fibre for Sale

Will Examine and Report on
Asbestos Mines and Prospects
Anywhere

Correspondence desired with Owners
Asbestos Mines with a view of Purchase

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Imports and Exports of Asbestos

Interesting indeed are the figures for the month of November (the latest records available as this month's issue of ASBESTOS goes to press) showing imports and exports of manufactured Asbestos goods.

Imports amounted to $9,500, of which $9,184 came from England and the rest from Scotland.

Export figures are still more interesting, the total figure being about $140,000. Of this amount France took $6,841 worth, England $2,017, Netherlands $3,081, Norway $6,151, and Switzerland a larger amount than any other European country, $13,066. It is also of interest to know that our exports to Chile were $13,566 during November, to Cuba $45,716, and to the Philippine Islands $22,392.

American Consuls throughout the world have been instructed to depreciate values of goods destined from their districts to the United States, in proportion to the rate of exchange prevailing at the time.

Looks simple, doesn't it? As we understand it, here's how it works:

Assume exchange is 20% against France and a French shipper is having a value put on a lot of goods. Actual French value is $1.00. Consul depreciates 20%. Therefore value at United States port of entry becomes 80c. Suppose it is a dutiable article, on which 10% is collectible; 80c., plus 10% duty equals 88c. duty paid, as against $1.00 plus 10%, or $1.10 duty paid on normal actual value.

This ruling has the effect of nullifying the tariffs or at least subverting the purpose for which nearly all United States tariffs are imposed.

The ruling was made some weeks ago, and only a very few scattered comments have been made.

If the present or future tariff laws of this country may be evaded by such rulings at will, then we ought not to have tariff laws, a tariff commission or any other waste of money or effort along this line.

Do not hastily blame material, but be sure that you have used it as it should be used.

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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 Offices

THETFORD MINES
Quebec, Canada

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England and the Trusts

Of great interest is "The Trusts of Merrie England," by George T. Bye, London representative of *The Nation's Business,* found on page 10 of the January issue of that magazine.

Mr. Bye's article is based largely upon the report of the Committee on Trusts of the Ministry of Reconstruction, a copy of which lies before us as we write.

Pools for control of sales and output, price fixing, combines, consolidations, all flourish and are encouraged in England.

Investigators for the English Government invariably report lurking dangers in these uncontrolled trade bodies, but no legal action has ever been taken against them by the government.

The reason, as expressed by Mr. John Hilton, secretary for the Committee on Trusts, is:

"You see, in our law a commercial association has the same nature as a trade union. If any precedent were created for interfering with the wrongful practices of an association of firms, it would be effective against a workers' association."

In other words, English law does not set up laws for the governing of part of the people, specifically or by implication, leaving the rest of the people free to do as they please.

Why under heaven we in America, boasting of democracy, freedom and equality, will go on permitting the enactment and execution of class legislation is past understanding.

We *need* a business man for President in 1921, and if we had a few business men in Congress it wouldn't hurt any.

English and American law has heretofore required in all civil and criminal procedure that the burden of proof lies with the plaintiff or complainant. Defendant is expected to employ all reasonable means in his own defense. But some recent legislation goes so far as to place upon the defendant the burden of proving his innocence.

The passion for change is typically American. What will be next?

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THE ORIGINATORS *and*
LARGEST MANUFACTURERS *of*

85% Magnesia
Sectional Coverings

Asbestos
Textiles, Papers
Millboards, etc.



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



Keasbey & Mattison Company
AMBLER, PENNA.

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News of the Industry

The Cape Asbestos Company of London, England, has just published two unusually beautiful catalogs.

That concerning Asbestos textiles and packings is particularly interesting, since it shows by numerous illustrations the differences in quality of various grades of Asbestos fibre, the different weaves of Asbestos cloth, the many forms of packing and so on.

In the second catalogue, "Asbestos Laggings," Blue African Asbestos mats and pipe coverings are shown to be of high efficiency in the covering of pipes and boilers, the details of application are well illustrated, and the catalog is filled with tables of scientific data useful to the engineer and plant owner.

For some uses blue African Asbestos has marked advantages as compared to white or yellow. The Cape Asbestos Company is particularly engaged in explaining and forwarding the uses of Blue African.

While the editor was abroad recently, he had the pleasure of meeting Mr. W. A. Godfrey, manager and secretary of the Cape Asbestos Company, and we are sure that Mr. Godfrey's company will gladly care for any and all inquiries addressed to it.

Three Canadian Asbestos properties, the Jacobs, Federal and Berlin Asbestos Mining Companies, all situated in the Province of Quebec, have been consolidated under the title of Consolidated Asbestos, Ltd. Sir Mortimer Davis, president of the Imperial Tobacco Co. of Canada, is the principal owner and is chairman of the board of the new company, with Major-General Sir John Carson as president and managing director. Other directors are Hugh Allan and H. L. Marler. The company is capitalized at $10,000,000, of which $5,000,0000 is issued.

According to *Engineering*, a new product suitable for use in electrical insulation is being obtained from the treatment of kelp in Australia. The moist precipitate is formed under pressure, after which it is hardened by treatment with formalin. The finished article is made by turning on the lathe, a process which is said to be perfectly successful, and a high polish is applied. The raw product is to be found in large quantities around the coast of Australia and in particular on the Tasmanian shores. Beware of imitations of the real thing.

Send copies of your catalogs to ASBESTOS for its reference file. We receive many and various inquiries regarding Asbestos goods and can answer them to better advantage if catalogs are handy to refer to.

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ASBESTOS TEXTILE CO.

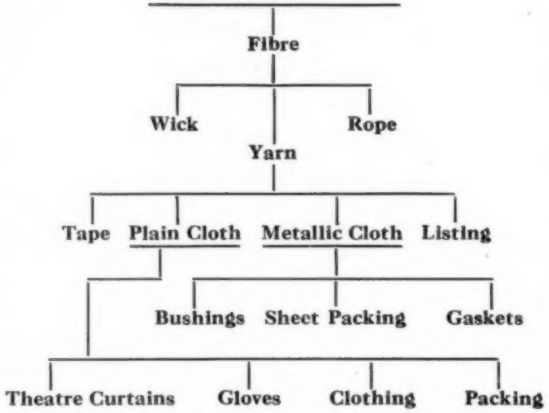
INCORPORATED

MILLS
REYNOLDSVILLE
PENNA.

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

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The Asbestos Textile Company has purchased a property formerly owned by the Phoenix Linen Mills, North Brookfield, Mass., consisting of approximately 150,000 sq. ft.

This plant will be used by the Asbestos Textile Company for the expansion of its business in the manufacturing of Asbestos textiles and all allied products.

Although British Asbestos products have been sold for less price than American Asbestos products in the Brazilian market, the American products are considered as of superior quality and, since the war has given American goods the entree into this field, it is believed that American producers will hold a considerable part of the trade which has been secured. This particularly applies to Asbestos packing.

"The Roof of Supreme Satisfaction" is the title of a very attractive twenty-four page pamphlet published by the National Asbestos Mfg. Co. of Jersey City, N. J., and advertising National Asbestos tapered shingles and slates. The National Asbestos Mfg. Co. will gladly supply copies upon request.

The funeral services of George Schafenacker, treasurer of the Asbestos Fibre Spinning Company, were impressively conducted from his home in North Wales, on Tuesday, January 13th, and largely attended by relatives, friends and business associates of the deceased.

Beautiful flowers in sprays and designs in vast profusion indicated to some slight extent the high regard in which Mr. Schafenacker was held.

Following the religious services at the grave, the impressive Masonic burial service was read by the brethren of Lansdale Lodge, F. & A. M.

Among the many present, those identified with the Asbestos industry were: C. Huber, president of the Asbestos Fibre Spinning Company; Richard V. Mattison, M. D., president of the Keasbey & Mattison Company; H. V. Everham, president of the Atlantic Asbestos Company; W. T. Keller, secretary of the Asbestos Fibre Spinning Company; C. J. Stover, of ASBESTOS, and others.

A petition in bankruptcy has been filed against the Asbestos Fabric Company, 233 Broadway, New York City, by the Staybestos Mfg. Company of Philadelphia, a creditor to the extent of $1889. Preferential payments is alleged as an act of bankruptcy. George W. Clune has been appointed receiver.

The Union Asbestos & Rubber Co., 224 S. Warren street, Trenton, N. J., has been chartered with the specified intent to deal in oil well supplies. Capital is $50,000, divided into 500 shares of $100 each at par. The incorporators are Daniel M. Lovett, of Trenton; Charles M. Schwoger, of Pittsburgh; J. M. Shear, of Bradford, Pa.; R. A. Mackie, of Bradford; Harry M. Prill, of Warren, Pa., and Donald M. Mackie, of Warren.

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JACOBS ASBESTOS MINING CO.

of Thetford, Limited

MINES: **THETFORD MINES, QUEBEC, CANADA**

FEDERAL ASBESTOS COMPANY

MINES

ROBERTSONVILLE, QUEBEC, CANADA

Miners of all Kinds of Asbestos Crude and Fibre

EXECUTIVE OFFICES

Dominion Express Building

Montreal, Canada

New York Office, 8 West 40th St.

Published by AsbestosClaims.Law
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Recent news reports indicate that there are about 250 men employed in the Asbestos industry of Gila County, Arizona.

These deposits are located in the Southeast Sierra Ancha Mountains about 40 miles northwest of Globe.

Most of the production from the Arch Creek District goes to the H. W. J. M. Co. of New York.

Harding Benedict, M. E., formerly engineer attached to the Keasbey & Mattison Co., and F. F. Cooper, former contract manager of Keasbey & Mattison Company's New York office, as of January 1st, 1920, severed their connection with the K. & M. Co., and have become affiliated with Charles S. Wood & Company, in Newark, N. J.

The business of Charles S. Wood & Co. is primarily contracting for pipe, boiler and tank insulation of all kinds, that company having the agency for Magnesia products of the Franklin Mfg. Company.

Production of Asbestos within the United States in 1917 was 1683 short tons, valued at $506,056. In 1918 there were produced but 802 short tons, valued at $121,687. Thus it will be seen that the 1918 production was only about 48% of the quantity, and 24% of the value of the 1917 production.

It is disappointing indeed to note the inability of the United States to make material progress in the production of raw material.

The following clipping, taken from the Philadelphia *Public Ledger*, of January 5th, indicates a continued activity on the part of Wm. T. Bonner, with whom some of our readers have had experiences in the past:

Trenton, Jan. 4.—The Thermoid Rubber Co., the Johns-Manville Co., of Manville, and the Asbestos Brake Co., a New Jersey corporation, have been made defendants in a suit brought in the Court of Chancery by Mitford C. Massi and others to recover royalties on patented Asbestos brake linings. William T. Bonner, of this city, one of the complainants, is the originator of certain Asbestos brake linings, and controls the interest in the Brake Liners Co., of Delaware, which figures in the litigation.

An alleged agreement made in 1911, under which the Thermoid and Manville companies took Asbestos brake lining licenses from the Asbestos Brake Co., under a 10 per cent. royalty clause, form the basis of the litigation. It is alleged during the last nine years the combined net business of the defendant companies amounted to $20,000,000.

Current news reports indicate that some of the larger creditors of the Baltimore Rfg. & Asbestos Mfg. Co. have petitioned the U. S. Court for an adjudication in bankruptcy, urging that the proposed sale by the receivers of the company's plant and property on January 5th, constituted an act of bankruptcy.

The sale, scheduled to be held on January 5th, was postponed by order of Court, secured on the allegation that the sale of the company's property was not for the best interest of the stockholders.

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Dominion Distribution

of Asbestos Products and Mechanical Rubber Goods

Covers the

Industrial, Marine, Mill, Railroad, Mine, Automobile Trades

throughout the United States and every country in the civilized world.

••

Dominion Asbestos and Rubber Corporation

154 Nassau Street, New York

Albany	Indianapolis	Richmond
Baltimore	Los Angeles	San Francisco
Cincinnati	Norfolk	Seattle
Detroit	Philadelphia	St. Louis
	Pittsburgh	

The Hague, Holland

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Walter T. Keller, Secretary of the Asbestos Fibre Spinning Company, North Wales, died on Sunday, February 1st, of pneumonia. Mr. Keller was 31 years old and a resident of Lansdale, Pa. He is the second member of the Asbestos Fibre Spinning Company firm to die within a month.

The Standard Woven Fabric Company, of Walpole, Mass., has changed its name to The Multibestos Company. The change was effective on January 15th. The Multibestos Company is engaged in the manufacture of Multibestos brake lining.

The Palmetto Asbestos Company, of Columbia, S. C., has been chartered by W. C. McGowan and T. C. Cross, capitalization being $250,000. They will mine Asbestos in the State of South Carolina, manufacturing it into marketable articles.

One of our readers inquires concerning a material called "Medgrin." They tell us that it is some sort of an Asbestos lumber or wood, used for switchboard pannelling work, and are desirous of getting in touch with the manufacturers. If any of our readers can enlighten us as to the maker of this material they will perform a service for both the manufacturer and the concern desiring to use it.

Hon. George R. Smith, Manager of the Bell Asbestos Mines, has been quite ill with bronchitis, and at one time it was feared that pneumonia might develop. At this writing, however, he is on the road to recovery.

Weather in the mining districts during January has been very cold, with a lack of water for some of the mines outside of Thetford. The Pennington Mine had to shut down for a short time, and is forced to haul water by teams for their locomotives.

The Pennington Mine has recently started their night shift which had been stopped during the latter part of last year.

R. M. Palmer, Mines Manager of the Black Lake Asbestos & Chrome Company, has recently resigned, and C. H. McNutt has been appointed to this position.

H. H. Williams has resigned as manager of the Asbestos Fibre Mining Company, East Broughton, and has been succeeded by Mr. Thos. S. Roberts.

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QUALITY ASBESTOS USACO PACKINGS

United States Asbestos Company

General Office: Lancaster, Pa.
Mills at Manheim, Pa.

We manufacture asbestos yarns and fabrics, also packings and friction facings and sell them exclusively to rubber goods manufacturers, packing manufacturers and brake lining manufacturers and to distributors of asbestos material on a quantity basis

ASBESTOS USACO

Branches

New York **Boston**

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Building Activity

F. W. Dodge Company, New York, issues a graphic chart—Volume of Building Operations in 1919, compared with 1918 and the average for 1914-1918.

The territory covered is east of the Missouri and north of the Ohio Rivers.

1914 figures were multiplied by the factor 1.90; 1915 by 1.90; 1916 by 1.62; 1917 by 1.37, and 1918 by 1.20 in order to care for the estimated increase in cost and thus get a proper basis for comparison.

1918 figures include Government work which was 32% of the total.

Result:

Ave. 1914-1918	1,920,000,000
1918	2,027,000,000
1919	2,559,000,000

Building activity is well past all precedent.

Our Coast Guard

The handling, loading, shipping and delivery of 345,602 tons of high explosives from December 13, 1917, to June 30, 1919, by the coast guard, through the port of New York, was a wonderful achievement.

Not one accident occurred and not one life was lost.

The full story of this remarkable work is told in the *Engineering Mining Journal,* issue of January 3rd. One of the cuts illustrates and the text explains how the various compartments of barges were insulated.

Cabins in which were oil lights or stores were required to have partitions, floors, ceilings and walls covered with ¼-inch Asbestos board, two layers broken joints, and this Asbestos covered with 20-guage metal.

The United States Coast Guard was directly charged with the responsibility for the conduct of the entire job of lightering, policing and loading on to ships.

Treasury officials have highly commended the excellent record made by the Guard and all Americans should be proud of this most efficient, little-known-about service.

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Bennett-Martin Asbestos and Chrome Mines
LIMITED

Head Office
Thetford Mines, P. Q.
Canada

General Sales Office
220 Broadway, New York

Asbestos Crude and Fibre



Mines located at
Thetford Mines and Vimy Ridge

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News of General Interest

We commend to our readers the editorial on page 101 of the *Manufacturers' Record*, January 15, 1920.

It is captioned "To Claim Spiritual Leadership for America is False to Ourselves and to Our Allies."

The fearless, clear-cut and well-intentioned manner of its exposition is refreshing in this day of straddling.

Accumulating evidence indicates an increasing interest on the part of Great Britain in Siberia and Russia. Of particular interest is an announcement from London that a merger of four great Russian corporations, controlled by British interests, has just been consummated. The new organization forms one of the largest mining combines in the world and has a capital of sixty million dollars. This powerful company is making ready to reopen mines and undertake extensive developments immediately upon the re-establishment of a stable government in Russia. The amalgamation comprises the Irtysh Corporation, Ltd., the Kyshtim Corporation, Ltd., the Russia-Canadian Development Corporation, Ltd., and the Tanalyk Corporation, Ltd.

Seven large German Chemical and Dye factories united under the unofficial title of "Aniline Concern" are about to increase their capital to a billion marks and will be the greatest industrial concern in Germany, if not in Europe.

The German dye interests, having suffered severely from labor difficulties, insufficient supplies and general stagnation, have decided to increase the price of aniline dyes for domestic consumption about 50%.

Amalgamations have become a fact in Great Britain, and include banks, shipping and industrial companies. Six independent motor-car companies have recently combined for the purpose of engaging in mass production of cheap motor cars to compete with low-priced American cars. The shortage of all kinds of motor vehicles in Great Britain is tremendous, and at a recent motor show at Olympic, London, orders were booked up to 1924 delivery. The Coast Lines, Ltd., a powerful steamship syndicate, having recently acquired several large interests, is said to exercise control over British coastwise shipping.

It is reported that Baron E. de Wardener, representing a French salvage company, is now in the United States in an effort to raise the Cunard liner, Lusitania, which was torpedoed off the Irish coast by a German submarine. Soundings have been made around the ship, which lies in about 300 feet of water, and the ship has been buoyed. This work is expected to require about twenty months.

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EHRET MAGNESIA MFG. COMPANY

VALLEY FORGE, PA.

Mr. C. J. Stover, Editor ASBESTOS
721 Bulletin Building Philadelphia, Pa.

Dear Mr. Editor:

This business of "pipe covering" in which we are engaged, is in no sense prosaic, as doubtless many of your readers think. If every steam user knew the story as our friends Tom Valleau and Chief Grier knew it, say in 1860, and would follow it thru until today as they have done, it would be found as romantic, as progressive, and as interesting as it is illuminating.

The progress in power and mechanical plant operation since those long ago days would have been no more possible without pipe covering than would a sky-scraper building be practically possible without elevator service.

When Tom Valleau and Chief Grier, as their friends love to call them, entered this wonderful economic field of insulation, it is quite likely the B. T. U.'s they sought to capture were developed under a maximum steam pressure of 75 pounds, hence any organic product could be used as a pipe covering with safety and considerable success, and, in fact, the writer recalls the application of twisted hay rope on "high pressure" steam pipes and it did not char in service and saved some heat.

But as time moved, steam pressures increased. They doubled and then more than doubled and the requirement was for a pipe covering that would not char, burn or burst into flame even tho some of its heat retaining qualities were sacrificed *and it had to be found.*

History teaches that when something *has to be*, it is, and at this psychological moment "Asbestos" was discovered, and *because it would not burn* was assigned to the important work of covering steam pipes and boilers and other heated surfaces. For a time it reigned supreme as a non-combustible product, that when plastered over steam pipes, etc., permitted them to delay the escape of heat units, the technical man's B. T. U.'s.

Then still higher steam pressures and superheat entered the engineering field and Asbestos fell down on its job; it would not burn, but neither would it catch and hold the myriad of illusive, fast moving heat units.

Just then history repeated and 85% Magnesia was born. It came of good parentage. Scientists and engineers were present at its birth and have God-fathered it from its cradle.

In every land where fuel is burned for heat or power, 85% Magnesia is known as the permanent economic pipe and boiler covering. You know, Mr. Editor, that we manufacture this product at Valley Forge, Pennsylvania, and distribute it thru our own branches and well-known representatives located in all important cities.

It is known as "*Ehret's 85% Magnesia Pipe and Boiler Covering.*"

Yours respectfully,

EHRET MAGNESIA MFG. CO.

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Why Worry?

By RUFUS T. STROHM

When a blizzard hits the town,
An' the mercury goes down
To a family reunion at the bottom,
Then yuh snoop around the doors,
An' yuh search along the floors
Fer the crannies an' the crevices, dad rot 'em!
Yet the cold comes creepin' in,
Makin' goose-hide on yer skin,
An' yer scared to death fer fear the flu'll seize yuh;
So yuh shiver till yer blue,
When the thing yuh oughta do
Is to buy some 85% Magnesia.

Yes, yuh grumble an' yuh chew,
All because each week or two
You've a visit from the coal man's grimy wagon,
Yet yuh leave yer steam pipes bare
As a cue-ball is of hair,
When yuh oughta use a non-conductin' laggin';
Fer yuh know by common sense
That yer steam'll sure condense
In a cellar that is cold enough to freeze yuh;
So, if you'd be savin' heat,
There is nothin' that'll beat
Just an inch of 85% Magnesia.

Take a tip from one who knows
How the wasted dollar goes
Sneakin' off where only practiced eyes can track it—
If yuh wanta save yer kale
From the howlin' winter gale,
Give yer boiler an' yer pipes a decent jacket.
Yuh can laugh an' toast yer feet
When the air is full of sleet,
An' the roughest kinda weather cannot freeze yuh,
While the savin' in yer coal
Will be music to yer soul,
If you've purchased 85% Magnesia.

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