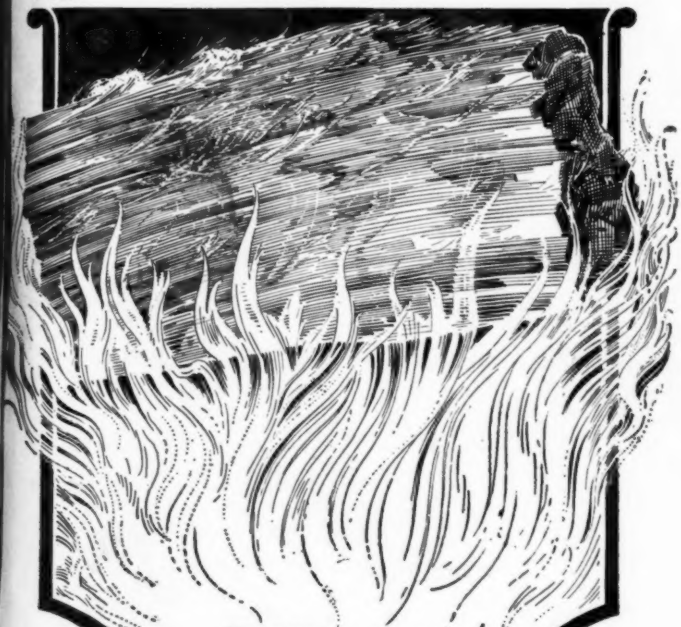
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Vol. 9 JULY 1927 No. 1



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The Production of Copper and Its Use in Roofing

By C. P. Harris, Ph. D.*

Editor's Note: One of our readers has requested that we publish articles concerning various roofing materials other than Asbestos. This (copper) is the first. It will be followed by articles discussing Lead, Tin and Zinc, and their relation to the roofing industry.

Copper ores may be native, sulphide or oxide in character. The native metallic copper occurs chiefly, in this country, in Michigan, in the region about Lake Superior. The sulphide ores which supply the bulk of the world's copper, constituting about 9% of the total, consist chiefly of chalcopyrite (copper purites) either alone or mixed with other minerals. The pure ore consists of what appears to be a molecular compound of copper and iron sulphides. Malachite, a combination of the hydroxide and carbonate of copper is the most important of the oxide ores. As sulphide ores constitute the great bulk of sources of copper, the smelting of these will be described here.

The first treatment of a copper ore consists of the production of a "matte" or slag. The object of this treatment is to concentrate the copper contained in the ore to as small a quantity as possible, in order that the subsequent refining operations may be economically performed. In the matte is concentrated as much of the copper as possible, and the simultaneously formed slag is thrown away. The matte consists of a mixture of copper and iron sulphides and its composition depends upon the amount of sulphur present in the ore mixture.

If too much sulphur be present, the excess must first be removed by roasting or calcining. This process consists of heating the ore in a suitable furnace to a dull red heat in the presence of air, without permitting sintering or melting. The sulphur present oxidizes to sulphur dioxide and escapes to the atmosphere or to gas holders, and the iron present is also oxidized. The roasting can be done in the open air, in mechanically rabbled (stirred) furnaces, which

*Technical Director, Universal Trade Press Syndicate.

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are much more efficient, or in a variety of other contrivances such as kilns, burners and mechanical furnaces of numerous types.

The calcined ore is then smelted in one of two sorts of apparatus, (1) blast furnace and (2) the reverberatory furnace. Both these furnaces are usually employed together in the same smeltery, as the former is suitable for large size lumps and the latter for finely divided raw or calcined ores or "fines." Both furnaces produce the desired matte and slag, the latter consisting of impurities originally present in the ore together with materials added for fluxing.

The blast furnace consists essentially of a hollow vertical shaft. The raw or calcined ore is charged at the top, together with fluxes such as lime or silica, depending on the nature of the ore, and coke to produce the heat required for smelting. The products of the smelting operation flow out thru spouts near the bottom, the matte being heavier, coming out at a lower level, and the slag somewhat above it. At the sides, air blast pipes introduce a current of air under pressure, which furnishes the oxygen necessary for the combustion of the coke, and in this manner produces the heat necessary for the fusion of the mixture. The matte produced goes to the converter.

The reverberatory furnace is so called because the smelted material is not in contact with the fuel, which is burned in a separate chamber. The furnace consists of a roofed trough on the floor of which the charge is placed. The fuel which is burned in an outer chamber sends its heat to the roof of the furnace, the non-conducting surface of which deflects it to the charge underneath. The same operations occur as in the blast furnace and matte and slag are produced.

The matte is now ready for the converter. Here, the mixture of copper and iron sulphides is so treated that the sulphur and iron are eliminated, leaving the copper in an impure metallic state. The process consists of two stages. In the first, the iron is oxidized to the oxide, which combines with the silica of the lining to form slag, which is then removed. The second stage consists mainly of reaction of copper sulphide and copper oxide to form sulphur

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dioxide and metallic copper. The copper oxide is formed by oxidation of a portion of the sulphide. The converter consists of a rotating cylindrical steel shell lined with refractory material, and having inlets for compressed air. The matte is charged molten into this vessel and the air is turned on. The iron is changed to its oxide by this procedure, and combined with the silica lining to form slag. Part of the copper sulphide oxidizes to copper oxide. The oxide and sulphide of copper then interact to form metallic copper.

The copper thus produced is impure and must be refined. This is done chiefly today by the electrolytic process. The impure copper is cast into suitably shaped electrodes (anodes) and placed in a tank containing an acid solution of copper sulphate. The cathode consists of a very thin sheet of pure copper. A suitable electric current is passed thru the cell thus formed, and the copper from the impure anode passes into solution and is deposited in the pure state on the cathode. The impurities mainly settle on the bottom of the tank and are removed and treated to recover the silver and gold content. Some impurities pass into solution, necessitating occasional purification of the electrolyte.

Cathode copper is exceedingly pure and is worked up into a large variety of useful articles. It is drawn into wire, rolled into sheets and fabricated into other forms. Its high electrical conductivity makes it of great importance in the electrical industry. It is used in marine ship building and engine work, for railway locomotives, for textile machinery, for copper heaters, vats, coils and pans, and also for sheathing and roofing.

On important buildings such as public halls, churches, cathedrals, and those structures which are intended to stand for an indefinite period, copper is generally used as a roofing material, altho it is much too expensive to use on the smaller type of buildings. It is by far the best metal for roof covering that can be obtained, and it fulfills every condition that should be possessed by the ideal material. The chief objection to its use is the cost, which is so high that

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Lockland, Cincinnati, Ohio

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it cannot compete with other materials for any but the best work, where unlimited funds are available.

The exceptional durability of copper constitutes its main advantage as a roofing material. This is especially important in the case of such positions as domes and dormers, where repairs are expensive. On exposure to weather the copper becomes coated with a thin film of hydrated copper oxide, giving a natural antique finish to the building, which is highly valued. Copper is used for roofing most of the important buildings in this country and Europe.

Copper is rolled into sheets four feet long by two feet wide, varying in weight from 8 oz. per sq. ft. for the No. 30 guage to 2 lbs. 4 oz. for No. 18. The customary gauge for flat roofs is No. 24, weighing 16 oz. per sq. ft. Thinner sheets are more liable to fracture and are more likely to contain flaws, necessitating repairs. With good quality copper and a proper thickness, this possibility is practically non-existent, and no expense need be entailed for many years. For roofs with a steep pitch, because of its lightness, strength and durability, copper has superseded lead, roofs of this kind lasting easily for more than one hundred and fifty years.

[1]In laying a copper roof, provision must be made for expansion. The joints of the copper sheets are made with rolls or welts. The roof is divided into bays of suitable width, the rolls are nailed into position with copper nails and the sheets are laid with each side turned up two inches. The top end of the sheet is turned up to fit against the ridge, this being of the same shape as the rolls, but of a larger sectional area. The bottom is turned down over the eaves in the form of an apron which laps over the back of the eaves gutter, the corners being cut and soldered or dog-eared, as desired. When the sheet has been laid and driven back into place, the edges are dressed over the rounded portion of the roll, so that the two adjacent sheets nearly meet in the center. The cap is formed by bending a strip of

1. Roof Coverings, London, 1925 by E. J. Blake.

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Johns-
Manville
CORPORATION

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copper to the required shape, fitting it over the roll and screwing it into place with copper screws. Nailing must be avoided as far as possible.

Mattison Interests Acquire Fourth New Factory in Year

Dr. Richard V. Mattison, President of the Keasbey & Mattison Company, of Ambler, Pa., has purchased the plant of the Traylor Truck Corporation at Cornwalls on the Delaware River a few miles above Philadelphia. After extensive remodeling, it will be used as a factory by the Newtile Corporation of Ambler, a member of the group of asbestos industries headed by Dr. Mattison.

This is the fourth factory built or purchased during the last twelve months by the Mattison companies. A new factory erected at St. Louis by the Asbestos Shingle, Slate & Sheathing Company has just gone into production; the Asbestos Buildings Company recently completed a new factory at Ambler and the Ambler Asbestos Company is now operating its new plant at Asbestos Station, Pa., on the Pennsylvania Railroad near Philadelphia.

"Newtile" is a sheet tiling, manufactured in panels 48 in. x 48 in. and 48 in. x 96 in. with a highly glazed, porcelain-like finish on a base of asbestos and Portland cement. It is scored to duplicate the appearance of tiling and is used for walls of bathrooms, kitchens, etc. It also is made in sheets 32 in. x 48 in. in the form of panels with mahogany or walnut finish or imitation marble.

The property that has just been acquired by Dr. Mattison consists of twenty-five acres, improved with several large one-story concrete buildings. It has a frontage of 1000 feet on the Delaware River and extends about 1000 feet in depth to the Pennsylvania Railroad. During the war it was used for the building of wooden ships and cost about $1,200,000 to equip.

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The Varieties of Asbestiform Minerals[1]

Under the term "asbestos" is understood, generally, a group of minerals the fibrous, crystalline structure of which combined with special qualities and characteristic appearance, entirely differentiates them from any other minerals. Some varieties possess such fine, silky, elastic fibre, that they can be carded, spun, and woven similar to wool, flax, silk; hence, owing to this property, the mineral has been called a "mineralogical vegetable"; also a "physical paradox."

In mineralogy, three minerals are classified under the term "asbestos"; namely:

I. The Anthophyllite group. Chemical composition (Mg, Fe) SiO_3.

II. The Amphibole or Hornblende group. Chemical composition $RSiO_3$, usually associated with oxide of iron and manganese, and in a general way analogous to the pyroxenes; sodium and potassium are also present:

a. Tremolite.
b. Actinolite.
c. Hornblende asbestos, hydrated (Italian asbestos).
d. Mountain leather, mountain wood and cork.
e. Crocidolite (blue and amosite).

III. Serpentine group. $3MgO$, $2SiO_2$, $2H_2O$, or hydrated silicate of magnesia.

a. Picrolite.
b. Soapstone (talc).
c. Chrysotile.

Chemically the first two groups much resemble each other, being silicates of lime and magnesia and alumina compounds of silica with an earthy base; while the last, serpentine, is a hydrated silicate of magnesia.

[1]We are indebted to Fritz Cirkel's "Chrysotile Asbestos" for most of this information.

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Field Notes

Arizona.

On June 1st a new manager was put in charge of the Regal Mines, Mr. John L. Alexander, a graduate of Georgia School of Technology, and the Louisiana State University, whose chief aim will be to increase the production and push development work ahead as much as is economically possible. Particular attention will be given by the management to the improvement of the roads, in order to shorten the time of the trip from the Mine to the Railroad Station and to reduce the wear and tear on passenger automobiles and trucks.

Provisions are being made to increase the water supply at the Regal Mines, in order to have an abundant flow for the considerably enlarged camp, as well as air compressors and milling machinery, which are to be installed shortly.

We hear but little or nothing of the other former operators in Arizona, but we are reliably advised that the Johns-Manville Co. is pushing production very much, and it seems as if the output of their mine had reached its peak, and is probably several times larger than the estimates made by uninitiated but interested persons in the trade.

Australia.

Production of Asbestos in Western Australia during 1926 is given on page 38 under Production Statistics, as slightly over 105 tons.

Probably the only development of importance during the year was the erection at Lionel, near Nullagine, of a small treatment plant, the fibre produced being divided into four grades. The lowest grade, No. 1, consists of short fibre, mostly about ¼″ in length, and this is sold locally to a manufacturer of asbestos shingles. The next grade No. 2, runs about ½″ in length. No. 3 grade is about 1″ in length and No. 4, the longest, 2″ and over. Most of No. 2, 3 and 4 grades is shipped to London.

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ARIZONA



AFRICA

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Crude -:- Spinning Fibre
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Owning and Operating

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IMPORT

EXPORT

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Africa, (British South).

Up to the beginning of May of this year, rain fell in Prieska on 54 days, but the total amount registered was only 2½", the rains being of very short duration. Dry weather is an advantage to the asbestos miners, obviating as it does delays to transport, but the trading and farming community have been hard hit. Owing to the tough, drought-resisting fodder bushes which grow everywhere, there is enough food to keep stock alive tho in none too good a condition. For almost the first time, therefore, traders and even the farmers themselves have gone in for asbestos production. The fibre is to be found on almost every farm tho of course the best ones were taken up by the regular mining people years ago.

Blue asbestos mining is quite practicable by the small man but the few tons he obtains each month, of various qualities and lengths cannot readily be marketed.

Local demand is brisk and selling contracts for considerable periods have been entered into by the majority of producers.

China.

The Chinese Economic Monthly, published at Peking, comments on the Asbestos Trade in Peking:

Asbestos is produced in many places in Chihli Province, Yinyehling at Miyun, Hotzechien, at Changping, Hungmeichang, at Fangshan, Yichow, Laishui, Hwailu and Twingsing being the most noted.

The use of asbestos was not known to the local population until an asbestos company of Tientsin sent agents to Hotzechien to collect the material. There are at present only two asbestos companies in Peking—Pu Tsi and Siang Ta, who collect asbestos at Yichow, Laishui and vicinity. Chifengling, a hill 45 li to the northwest of the Yichow station, Chwanshuikow at Yichow, Yangmeitung, Shuichwankow, Tsaochang, and Lengshuichien at Laishui, are rich in asbestos. It is dug by the farmers at their leisure and sold to the asbestos companies of Peking and Tientsin. The mineral is conveyed by mules from the place of production to Liangkochwang, whence it is shipped to Peking by rail. The distance between the mines

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at Laishui and Liangkochwang is 180 li of mountainous road and it takes five days to complete the journey. The asbestos with long fibres is used for manufacturing cloth, that with shorter fibres for padding cushions and pillows that with the shortest fibres for making wall plaster.

The Pu Tsi Asbestos Factory was started in Peking in 1924 by Lin Pu-shen, a native of Anhwei, with a sales department at Shunchimen Ta Chieh, producing asbestos cloth, ropes, boards, (used as an outer cover for steam heat pipes) plaster, cushions, pillows and material for wadding. Asbestos cloth two feet wide is sold at 70c per foot, wadding materials of five grades at 20, 30, 40 and 50 cents per pound.

The Siang Ta Asbestos Factory is located at No. 3 Tasoliaopu Hutung, Hsichiaochang, inside Hsichimen. It is a new establishment organized by Chin Tse-ming and produces only wadding and plaster, sold thru Hwa Lu Co., at Fuchien Chieh, Peking. The plaster is of three grades at $7.5, $6.5 and $5.8 per 100 catties respectively.

The use of asbestos wallboard for the making of backgrounds and cut outs used in store windows is one which may not be known to all our readers.

The asbestos board reduces the fire hazard, particularly in rooms where window display is stored, and the store executive heads claim that it is desirable for window displays because of its durability and the fact that it lends itself readily to coloring effects.

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Don't throw anything away before getting a price on it from

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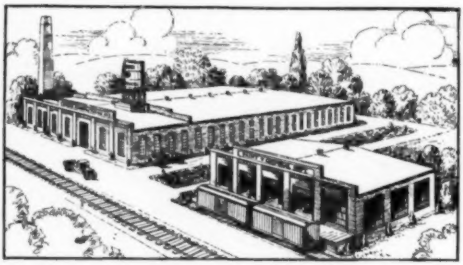
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Canadian Crude
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Yellow or Blue
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8 West 40th Street : New York City

Works: MILLINGTON, N. J.

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A New Textile Plant

The illustration at the top of this page shows the artists drawing of the very attractive plant of the Kubar Manufacturing Company at Davidson, N. C.

A. B. Kuhn, for three years Manager of the Fiber Mfg. Company at Newton, N. C., on April 1st severed his connection with that concern, and began to establish the Davidson plant of the Kubar Mfg. Company.

The new plant at Davidson is modern in every way, having modern cards, latest type Johnson & Bassett Asbestos Mules, and all other machinery with which to manufacture high grade Asbestos Textiles.

In addition to Textiles, there is a separate department (see illustration) in which will be made a complete line of asbestos paints and cements, and chemicals.

Mr. Kuhn before his connection with the Fibre Manufacturing Company was Secretary and Treasurer of the Newton Cotton Mills and Clyde Cotton Mills at Newton, N. C., and has had twenty years experience in cotton and Asbestos Textiles.

The officers of the Kubar Manufacturing Company are C. E. Barnhardt, President; A. B. Kuhn, Vice President and General Manager, and H. M. Barnhardt, Secretary, Treasurer and Sales Manager, with office at 203½ S. Tryon St., Charlotte, N. C. All the Officers of the company are widely known in Textile circles.

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Diamond N 2-Point

Insulation
Highest Efficiency
Greatest Durability

--Manufactured by--

Norristown Magnesia & Asbestos Company

Norristown, Penna.

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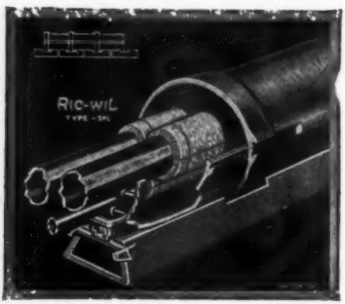
Ric-wiL Conduit and How it Fits in the Pipe Covering Contractor's Business

By CLARENCE W. LEMMERMAN.[1]

Our many years of experience in the underground conduit business has shown us several things.

For instance Underground Conduit is part of the pipe covering contractor's job and should be installed by him. The material furnished to the pipe covering contractor should be so fully engineered at the factory that the burden of a full fledged engineer will not fall on the mechanic's shoulders. And last, but by no means least, the material should be such that it will snap into place and give the owners a really efficient job at the lowest possible cost.

The particular Conduit which we will describe in this article is "Ric-wiL," and its several unique and desirable features will be of interest.



Ric-wiL SPC Underground conduit which allows the use of pipe covering insulation thereby affording double drainage.

In the first place let us consider the Interlocking Base Drain. This is a heavy, vitrified clay drain, many times stronger than any kind of farm drain. It has a drainage area at least three times more than the ordinary farm drain. The base is installed in the bottom of the trench in a line like a row of dominoes and acts as cradle for the tile conduit.

The pipe supports furnished with Ric-wiL meet all requirements for strength, durability and economy. They are

[1]This article is written at our special request, in order to give our readers the full story of Ric-wiL Underground Conduit.

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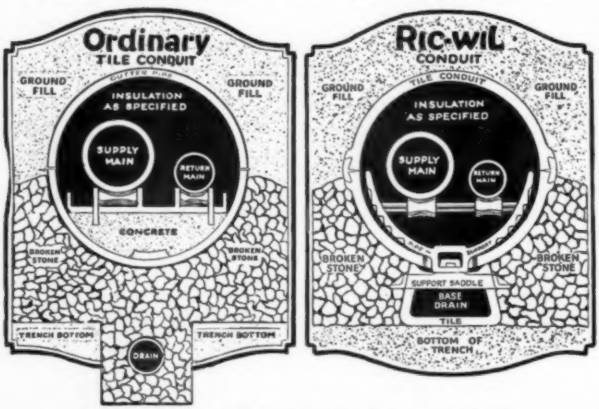
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made of special cast iron, averaging more than ten times the strength needed for the heaviest load. One big factor about Ric-wiL pipe supports is that they are external. They rest on two sections of the base drain, independent of the tile conduit. They won't break down, upset or settle, to damage conduit, disturb the insulation or get the pipes out of alignment.

Ric-wiL is a real tile conduit, not just ordinary gutter pipe. It has the Loc-liP side joints which are filled with cement after the top halves are in place, thus absolutely insuring the system against breaking open. The conduit rests on the base drain and interlocks with it; this system has a good foundation. The settling of the broken stone bed has proved very disastrous to many conduit jobs. Settling is impossible with Ric-wiL.

Ric-wiL is also made of Cast Iron for runs under streets, railroads and places where you have heavy loads. This conduit fits right into the tile conduit and makes it possible to start with tile and have the center section, which might come under a road, of cast iron. The Loc-liP is also on the east iron conduit.

So far as insulation is concerned the customer can make his selections directly from the pipe covering contractor's



Contrasting Ric-wiL with ordinary tile conduit

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stock, or if preferred loose insulating filler will be supplied by the manufacturers of Ric-wiL. One of the latest additions to the Ric-wiL family is a waterproof filler that is waterproof. It does not absorb moisture like the old type fillers. Tests show that this material has a conductivity of .35,—compare this with the conductivity of some of the other insulating materials. A condensation test made at one of the large hospitals showed an efficiency of 93% on a 2" line.

Ric-wiL is shipped to the job complete; nothing else to buy; no engineering of supports, broken stone beds, etc. Service sheets and installation details sent with each shipment.

A contractor using Ric-wiL can increase his sales considerably, show black figures on his ledgers and obtain satisfied customers which means considerable for future business.

MACHINERY WANTED

Forty-eight Carrier Round Packing Braider
Address Box 6B-B, "ASBESTOS"

SOUTH AFRICAN & RHODESIAN ASBESTOS
Crocidolite, Chrysotile, Tremolite, Amosite, Etc.
CHEVERS LIMITED
(Jesse C. Chevers, Man. Dir.)
EXPORTERS OF CRUDE FIBRE AND RAW ASBESTIC PRODUCTS FOR ALL INDUSTRIES
Expert examination and supervision of Asbestos Properties — Experts in Asbestos Selection
ADDRESS ALL CORRESPONDENCE: Post Office Box 529. Cape Town
CABLES: METALGOODS CAPETOWN
Reference: The Standard Bank of South Africa, Ltd., (Long Street) Cape Town

WHITE — BLUE — AMOSITE
All Kinds of Asbestos Mines and Properties for Sale.
Asbestos and Base Metal properties always on hand for outright purchase.
Properties reported on and proved by experienced Engineers.
A special Branch deals with precious stones and metals.
All inquiries should be addressed to the Secretary.
Consolidated Asbestos & Base Metals, Limited,
33/33, Royal Chambers, Simmonds Street
P. O. Box 629
Johannesburg — S. Africa
CABLE ADDRESS: "Belcotton."
CODES: Bromhall's Bentley's, A. B. C., 5th Edition, Western Union.

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FACT AND FANCY

Following the article on page 30 of the May number on The Formation of Asbestos, we are publishing in this issue, a brief article giving the varieties of asbestiform minerals, properly classified. (See page 10).

It is our purpose in future issues to describe each of the three main groups of asbestiform minerals, and the descriptions will be written in such manner that they can be readily understood even without a knowledge of geology or chemistry.

Later we will tell you of the geological occurrence of asbestos in various countries, and also of the early history of asbestos deposits and asbestos products.

Those of our readers who do not file their copies of "ASBESTOS" for reference, should clip these articles as they are published and paste in a blank book, or place in a binder. Upon completion you will have a rather complete history of Asbestos from its formation on.

The Ninth Year.

With this issue begins the ninth year of our attempt to keep the Asbestos Industry posted concerning itself.

Our readers are better judges of our success in this endeavor than are we ourselves.

We are honestly, and constantly, striving to give to the members of the Industry a service which they could obtain in no other way. We feel that we have the very real co-operation of the entire Industry.

During this ninth year, a program has been set which, if carried to fairly successful completion, will make "ASBESTOS" even more helpful to its readers than ever before.

For one thing we want to delve as deeply as possible into the history of asbestos and asbestos products. For another we want to get in closer touch with the various divisions of the asbestos trade.

Most of all we want to help you solve your problems.

Suggestions are always welcomed—criticisms are gratefully received. Let us make this ninth year a year of real progress all along the line.

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Keasbey & Mattison Company

Ambler, Penna.

Owners of the

Bell Asbestos Mines

Miners and Shippers of

Asbestos

CRUDES and FIBRES

Yearly Capacity 50,000 Tons



Address Your Wants to

Keasbey&Mattison Company

Ambler, Penna.

U. S. A.

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The Manufacture of Asbestos Products in Canada.

Report has just been issued by the Dominion Bureau of Statistics covering the extent of the asbestos manufacturing industry in Canada during 1926.

Thirteen plants reported a total capital employed of $2,752,994; average number of employees 265, producing products to the value of $1,624,714. These figures are all slightly higher than those for 1925 for which year 12 plants reported.

Agricultural Uses for Asbestos Waste.

The experimental work on the use of asbestos waste as a soil corrective has been steadily going on, but recent experiments have developed little of interest or value.

A series of pot experiments on Canada peas has been conducted by the Agronomy Department of MacDonald College, some pots receiving no treatment, others treatment with ground limestone, fine asbestos waste and coarse asbestos waste respectively, in quantities corresponding to one-half the lime requirement as given by the Jones Method, full requirement and twice the requirement. The peas were grown in a greenhouse, the dry weights determined and the results analyzed by statistical methods.

The results show that the limestone gave a distinct increase of yield, but that the asbestos both in the fine and coarser condition gave no increase that is statistically significant. Even with the double application of the fine waste, the increase over the check pots is very much below the standard measure of significance. With the coarse waste (asbestos sand) the average yields obtained with one-half and full applications were actually lower than those in the check pots tho not sufficiently different to have any significance as indications of injurious effect. As far as these experiments show, the effect of the asbestos waste would appear to be quite indifferent.

Experiments on farms last summer have not yet been reported upon.

Everyone is interested in what others in the Industry are doing. Don't forget to send us news.

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ASBESTOS

PAPER — PIPE COVERINGS
MILLBOARD — CEMENTS



Send us your inquiries! — prompt and courteous attention assured you.

Manufacturers

SALL MOUNTAIN COMPANY

140 SOUTH DEARBORN ST.
MARQUETTE BLDG.

SCRANTON CHICAGO BOSTON

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RHODESIAN WHITE ASBESTOS

THE PRODUCT OF
NIL DESPERANDUM MINE
Shabani

TRANSVAAL WHITE ASBESTOS

SUPERFINE QUALITY
THE PRODUCT OF
THE AMIANTHUS MINE
Kaapsche Hoop

SOUTH AFRICAN BLUE ASBESTOS

THE PRODUCT OF
DOMINION BLUE ASBESTOS MINES (*Prop'y*)
LIMITED
Kuruman
(Formerly owned by Gillanders & Campbell)

All grades of Asbestos Fibre carefully prepared and free from grit, now produced at the above named properties, are offered for sale by:

THE ASBESTOS & ELECTRICAL FITTINGS CO. LTD.

5, LLOYD'S AVENUE
LONDON, E. C. 3. ENGLAND

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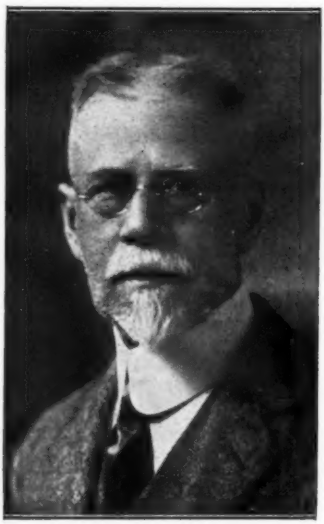
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Robert A. Keasbey

It is with great regret that we record the passing of another pioneer in the Insulation Industry.

On June 22nd, Robert A. Keasbey, President and General Manager of R. A. Keasbey Company, Insulation Contractors of New York City, crossed to the Great Beyond, his death being caused by pulmonary oedema.

Mr. Keasbey was born on January 16th, 1858, at Des Moines, Iowa. He was probably the first man to sell 85% Magnesia, and has been interested in the selling and application of insulation materials practically all of his business life.



In 1885 he founded the R. A. Keasbey Company, a firm which has always been highly respected in the Industry.

Mr. Keasbey was a Mason, and a member of the Sons of the American Revolution. His chief pleasure was in quiet life lived in the summertime at his country home in New Jersey and his winter home in Florida where he went each winter season.

Altho President and General Manager of his Company up until the time of his death he has been rather inactive in business for the last five years, due to his failing health.

Mr. Keasbey was well known in the Asbestos and Magnesia Industry, particularly by the pioneers in the

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business, and was universally liked and respected.

His reminiscences "Early Insulation Days," which appeared in the October 1925 issue of "ASBESTOS" shows his long and constant interest in the insulation field.

The Acid Resistance of Asbestos

We have been able to obtain a copy of a report made by the Laboratory of the Alfred Calmon Asbestos & Rubber Works of Hamburg, Germany, on The Acid Resistance of Asbestos, this report dealing with the acid resistance of Canadian, Rhodesian and Russian Asbestos as representing the serpentine group, and of blue and amosite asbestos as representative of the hornblende group.

The article was originally published in "Kautschuk," April 1927 issue, in the German. Our copy is an English translation and cannot fail to be appreciated by those interested in the acid resistance of asbestos fibres.

We do not expect to publish the report but a copy of it is available to anyone for the asking.

WANTED: European Agency for Asbestos Mines, with exception of Blue and Amosite, which we already handle. References.

ESTABLISSEMENTS DONNETT

47 Chaussee de Haecht, Brussels, Belgium

WANTED

3 experienced salesmen for line of Asbestos Packings, Textiles and Brake Linings, one salesman each for resident headquarters at Cleveland or Pittsburg; Birmingham or Atlanta; and Dallas or Fort Worth Drawing account basis for partial or complete time. Send complete qualifications, including age, experience, nationality, and fraternal and religious affiliations as well as last employer. All replies will be received in strict confidence by established million dollar corporation.

Address Box 6A-N, "ASBESTOS"

Steady Market For Asbestos Waste

Always in the market for all kinds of

ASBESTOS WASTE — car lots or less

Send samples stating quantity.

If you are in need of waste will mail sample of what we have to offer.

LOUIS LEONARDIS 15 Park Row NEW YORK CITY

Warehouse: Newark, N. J.

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Allbestos Corporation

Quality Brake Lining
Textile Specialties

Asbestos
Yarns, Roving
Cord and Cloth

Manufactured from the raw materials by

Allbestos Corporation

PHILADELPHIA, PA.

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TIME TICKET Week Ending ..... 19....

FRED SPRINKMANN & SONS

MILWAUKEE, WIS.

Workman's Name .....

WHERE WORK WAS DONE	FRI.	SAT.	MON.	TUES.	WED.	THURS.	TOTAL HOURS

EACH MAN'S TIME WILL BE COMPUTED FROM THESE SLIPS

ASBESTOS COVERING CO.

916 D STREET NORTHWEST

WASHINGTON, D. C.

PHONE MAIN 4470

REPORT OF .....

FOR WEEK ENDING ..... 192....

HOURS EACH DAY		WHERE SPENT
SAT		
MON		
TUES		
WED		
THUR		
FRI		
TOTAL HOURS		RATE ..... PER HR. $ .....

EXPENSES, ETC., IF ANY

KEEP THIS CLEAN AND NEAT

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CONTRACTORS AND DISTRIBUTORS PAGE

TWO TIME TICKETS

This month we reproduce time tickets used by two different contractors.

The one at the top (of the opposite page) is used by Fred Sprinkmann & Sons, of Milwaukee. Possibly its best feature is its size, 6½ in. wide by 3½ in. deep, which enables it to be easily filed, and easily located in the file afterwards if wanted.

The second ticket used by the Asbestos Covering Company is somewhat larger, 5⅜ in. wide and 8¼ in. deep, and while not quite so handy for filing purposes, gives more room in which to note the needed data.

Contractors should look these two tickets over carefully, and compare them with their own. If you think yours embodies some desirable features not contained in these two, send us specimens of yours and we will gladly reproduce them.

WAGE NOTES

In commenting on the labor situation, the American Contractor notes the fairly stable condition as shown by labor reports from sixty different cities.

True there have been some increases noted on June 1st, which do not appear to include any for asbestos workers.

Of interest to the Asbestos Industry is the raise in wage for composition roofers, in Dayton, Ohio, from 91¼ to 97½c, effective until May 1st, 1928, and for slate and tile roofers from $1.16¼ to $1.22½, same expiration date. In Milwaukee, Wis., roofers, both composition and slate and tile, have been raised from 87½c to $1.00 per hour, in St. Joseph, Mo., composition roofers from 75c to $1.00.

BUILDING STATISTICS

A further drop is noticed in building during May, as compared with April. Contracts awarded, as reported by the F. W. Dodge Corporation, during May totalled 17,291 projects, with floor space of 74,079,100, valued at $552,348,500, as compared with the April figures of 18,067 projects, 83,617,500 square feet of floor space, valued at $604,390,700.

The May figures were slightly higher than those of the same month last year, May, 1926 showing 17,243 projects, floor space 85,024,800, value $548,814,800. It will be noted that the square footage figure for May, 1927, does not compare favorably with that for May, 1926.

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ASBESTOS



This page devoted each month to the discussion of brake lining activities by O. B. Towne, Commissioner of the Asbestos Brake Lining Association

The Association has adopted the following resolution on the passing of Mr. Richard V. Mattison, Jr., of the Keasbey & Mattison Company, whose death occurred late in May:

"The passing of Richard V. Mattison, Jr., from this life has taken from us one of our outstanding figures in the development of the industry and a leader in the public affairs of his community. He was taken in the very prime of life, when his powers were at their best and his accomplishments were receiving their full recognition.

"This Association feels deeply the loss of Mr. Mattison to the Association and to the industry and extends its sympathy and condolence to the bereaved family and to the many business and personal friends of the deceased.

"A copy of this resolution will be entered upon the records of this Association and sent to the officers of the Keasbey & Mattison Company and to the members of the Mattison family."

A new pamphlet being published by the Asbestos Brake Lining Association will greatly facilitate the work of local community organizations in putting on brake testing campaigns. This will soon be off the press and in the mails. The pamphlet will be distributed by the members of the Association as well as by the office.

The whole question of the campaign is discussed. What it is, why it is and how it is handled are the points taken up and handled. The whole is in epigrammatic language and easy to understand.

On the back of the pamphlet are two cuts, one showing the layout of the streets for the testing grounds, and the other giving the details of the "stop distance" chart. These are invaluable in putting on a brake testing campaign and will greatly improve the work now being done.

The engineering details for the street and "stop distance" charts were prepared by Dr. F. C. Stanley, Chief Engineer of the Raybestos Company, who is Chairman of the Technical Committee of the Association.

As is customary, there will be no meetings of the Association during the summer months of July and August.

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AMOSITE ASBESTOS

the new long-fibred material mined in the Transvaal, South Africa

THE CHEAPEST TEXTILE ASBESTOS IN THE WORLD

SPECIAL PROPERTIES

(1) Length of fibre
(2) Tensile strength
(3) High insulating properties
(4) Lightness of weight

This Asbestos, in its various grades, has been proved eminently suitable for—

(a) TEXTILES (Yarn and Cloth)
(b) ASBESTOS-CEMENT SLATES, and corrugated roofing
(c) BLOCKS for Boiler Insulation
(d) SECTIONAL COVERING
(e) ELECTRIC STORAGE BATTERY BOXES

The Cape Asbestos Co Limited
Morley House 26-30 Holborn Viaduct London E.C.1
Factory, Barking, Essex

Telegrams: Incorrupt London
Tel: City 6937 (3 Lines)

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MARKET CONDITIONS

General Business is undergoing a period of falling prices, a somewhat new experience for this generation, and therefore not conducive to peace of mind. There is, however, no cause for alarm—business in general has learned to be conservative in all its activities.

Volume is generally good, the principal problem being to make money on a smaller margin of profit.

Building (and the asbestos trade owes much of its prosperity to the building trade) is falling off considerably; on the other hand the automobile business is good.

Automobile production for the first five months of 1927 is lower month by month than the same period in 1926. This is largely accounted for by Ford's limited production prior to the building of his new model, and there is every reason to believe that production during the last half of the year will be higher than usual. Automobile dealers find good demand.

Asbestos—The Raw Material Market. In commenting on the raw material market, E. J. Wilson, of New York says:

"All the higher grades such as crudes, spinning fibres and shingle stocks are in good demand. The shorter fibres are moving more readily than for some time past. Spinning grades are coming into the country from Rhodesia and South Africa including Blue and Amosite. It has been quite evident that the Canadian production of crude and spinning fibres for this year will hardly equal the 1926 production. There will be a larger production of shingle stocks but not more than enough to take care of the increased demands. As forecast in this column a long time ago prices for 1928 will be advanced on all grades except paper stock and shorts. There is practically no asbestos in stock at the mines anywhere except short material."

Another correspondent puts it this way: "Raw material continues in excellent demand and mines are unable to fill commitments fully and promptly, hence some slight-

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ly panicky effort on the part of some buyers to get coverage."

The Manufactured Materials. The situation in the manufacturing end of the industry is reasonably satisfactory. Textiles are in good demand with firmer price situation. 85% Magnesia Covering shows a very firm market, with demand holding up better than in 1926 at this season.

The Paper market is somewhat quiet due to seasonal falling off. Air Cell is also, naturally, experiencing seasonal quietness. Purchases by large jobbers are being made in only small quantities, due to slackness in the building trades.

The Brake Lining market is fairly good but overproductive capacity keeps prices too low for profit.

Shingles are of course in the height of the season, and while affected to some extent by the slackness of the building trade, are showing great activity.

There never was a product made,
This truth you must confess;
But what some one could make it worse
And sell his junk for less.

AUTOMOBILE PRODUCTION

Total production of automobiles during May, 1927 was 422,149, only a slight decrease from April, when 422,240 vehicles were produced. Of the May figure 296,441 (352,268 passenger cars and 44,173 trucks) were produced in the United States, and 25,708 (21,991 passenger cars and 3,717 trucks) in Canada.

During May, 1926 442,145 automobiles were produced, consisting of 417,211 in the United States and 24,934 in Canada.

Total production during the first five months of 1927 amounts to 1,820,825; during the same period in 1926—2,028,632.

TAPE
AND LISTINGS

Write For Samples and Prices
ATLAS ASBESTOS CO.
NORTH WALES, PA.

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Rhodesia (Rhodesia Chamber of Mines).

	March Tons (2000 lbs.)	1927 Value
Bulawayo District.		
Biltong (Vukwe Asb. Syn. Ltd.)	20	£ 266
Nil Desperandum (Af. Asb. M. Co. Ltd.)	413	6,358
Pangani (J. S. Hancock)	33	371
Shabanie (Rho. & Gen. Asb. Corp. Ltd.)	1,265	25,309
Lomagundi District.		
Ethel (Union & Rho. Tr. Ltd.)	32	800
Victoria District.		
Gath's (R. & Gen. Asb. Corp. Ltd.)	560	11,200
King (R. & Gen. Asb. Corp. Ltd.)	495	9,899
		54,203
Deduct overdeclared on adj. to 3/31/27		
Gath's £7,305		
King 870		8,176
	2,818	£46,027
Production during March 1926	2,588	58,030

Union of South Africa (Dept. of Mines & Industries).

	March Tons (2000 lbs.)	1927 Value
Transvaal (Amosite)	361	£ 3,536
Transvaal (Chrysotile)	733	12,218
Cape (Blue)	349	6,516
	1,443	£22,270
Production during March 1926	1,282	£20,058

Australia (Mines Department of Western Austrlia).

	Year 1926 Tons (2240 lbs.)	Value
Nullagine District	91.45	£2,436
West Pilbara District	13.89	292
	105.34	£2,728

Cyprus (Cyprus Abestos Co.)

Production, June 1927—1530 tons (2240 lbs.).

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Asbestos Fibre

for the manufacture

of

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

THE QUEBEC ASBESTOS CORPORATION

Office and Mines
EAST BROUGHTON, PROVINCE *of* QUEBEC
CANADA

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Rhodesia (Rhodesia Chamber of Mines).

	March Tons (2000 lbs.)	1927 Value
Bulawayo District.		
Biltong (Vukwe Asb. Syn. Ltd.)	20	£ 266
Nil Desperandum (Af. Asb. M. Co. Ltd.)	413	6,358
Pangani (J. S. Hancock)	33	371
Shabanie (Rho. & Gen. Asb. Corp. Ltd.)	1,265	25,309
Lomagundi District.		
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	105.34	£2,728

Cyprus (Cyprus Abestos Co.)

Production, June 1927—1530 tons (2240 lbs.).

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Asbestos Fibre

for the manufacture

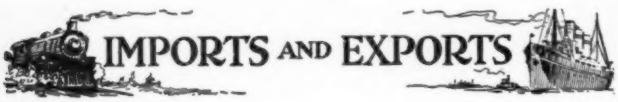
of

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

THE QUEBEC ASBESTOS CORPORATION

Office and Mines
EAST BROUGHTON, PROVINCE *of* QUEBEC
CANADA

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Imports to the U. S. A.

Unmanufactured Asbestos.

	May 1926 Tons (2240 lbs.)	Value	May 1927 Tons (2240 lbs.)	Value
Africa (Br. S.)	165	$ 27,742	295	$ 43,009
Africa (Port. E.)	2	468	267	66,529
Canada	15,992	512,568	16,261	509,931
France	1	24	...	...
Germany	25	3,025	84	25,977
United Kingdom	9	1,623	1	200
	16,194	$545,450	16,908	$645,646

Of the material imported during May 1927, all that coming from Portuguese East Africa, Germany and the United Kingdom was Crude; that from British South Africa consisted of 277 tons of Crude, valued at $40,819, and 18 tons of Mill Fibre, valued at $2,190; that from Canada consisted of 276 tons of Crude, valued at $63,890, 6,508 tons of Mill Fibre valued at $302,435, and 9,477 tons of lower grades valued at $143,606.

Manufactured Asbestos Goods:

	May 1926 Pounds	Value	May 1927 Pounds	Value
Yarn—				
Germany	440	$ 445	...	...
Italy	...	...	250	$ 280
United Kingdom	61,568	19,888	20,569	5,860
Fabrics, Woven—				
Germany	904	261	...	...
United Kingdom	2,151	784	8,982	4,561
Packing, Fabric—				
Canada	30	15	...	...
United Kingdom	17,665	9,364	1,278	768
Packing, Not Fabric—				
Austria	4,572	1,064	6,468	1,506
Canada	42	27	...	...
Germany	...	...	1,464	570
United Kingdom	...	...	741	506

Paper and Millboard—None.

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	May 1926 Pounds	May 1926 Value	May 1927 Pounds	May 1927 Value
Shingles, Slate, Wood and Lumber—				
Belgium	5,675,490	$ 80,313	7,031,532	$ 94,993
Canada	80,055	2,641	2,905	100
France	60,000	888	6,933,980	95,387
Germany	258,465	5,082	107,560	1,668
Netherlands	100,400	1,565	735,544	22,112
	6,174,410	$ 90,489	14,811,521	$214,260
Asbestos Cement—				
Belgium	186,950	3,388	...	...
Italy	63,713	917	44,530	547
Netherlands	...	...	600	22
Other Manufactures—				
Austria	210	348	6,127	1,333
Belgium	1,930,763	26,575	17,000	964
Canada	...	...	2,721	168
France	...	...	3,318	143
Germany	9,953	253	1,157	752
United Kingdom	17,598	6,672	5,811	3,315
	1,958,524	$ 33,848	36,134	6,675
Grand Total	*8,470,969*	*$160,490*	*14,932,537*	*$235,555*

Exports from U. S. A.

Exports of unmanufactured asbestos for the month of April 1927 amounted to 19 tons valued at $4,185, as compared with April 1926, when 206 tons, valued at $5,476 were exported.

Exports of manufactured asbestos goods:

	April 1926 Pounds	April 1926 Value	April 1927 Pounds	April 1927 Value
Paper, Millboard	147,278	$10,247	33,138	$ 3,622
Pipe Covg. & Cement	357,743	19,442	264,446	15,883
Textiles, Yarn & Pkg.	116,620	73,757	113,864	67,673
Brake & Clutch Lin'g.	169,136	112,769	37,437	25,403
Magnesia & Mfrs. of	350,852	10,199	608,054	30,086
Asbestos Roofing	8,668 sqs.	69,417	6,711 sqs.	52,308
Other Manufactures	165,945	23,630	167,540	29,807

Imports and Exports by England.

Imports of Raw Material.

	May 1926 Tons (2240 lbs.)	May 1926 Value	May 1927 Tons (2240 lbs.)	May 1927 Value
From Rhodesia	231	£ 5,950	1,426	£41,928
From Canada	497	9,445	672	11,090
From Other Countries	569	14,768	1,251	31,293
Total	1,297	30,163	3,349	84,311

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Re-Shipments	168	5,395	475	12,026

Exports of Manufactured Asbestos Goods.

	May 1926 Tons (2240 lbs.)	Value	May 1927 Tons (2240 lbs.)	Value
To Netherlands	41	£3,446	16	£4,641
To France	18	5,390	38	6,829
To U. S. A.	56	8,788	13	3,650
To British India	833	15,933	487	11,659
To Australia	31	4,208	14	4,072
To Other Countries	1,067	47,613	930	51,186
	2,046	85,378	1,498	82,037

Exports of Raw Asbestos from Canada.

	March 1926 Tons (2000 lbs.)	Value	March 1927 Tons (2000 lbs.)	Value
United Kingdom	533	$ 41,445	1,441	$108,273
United States	8,005	483,749	6,103	408,953
Australia	200	13,750	134	9,380
Belgium	50	6,900	910	62,700
France	950	53,125	121	6,290
Germany	295	19,370	409	37,030
Italy	255	12,952	690	43,615
Japan	310	16,950	267	14,250
Netherlands	...	...	323	26,150
Total	10,598	$648,241	10,398	$716,641
Sand and Waste—				
United Kingdom	89	1,696	135	3,310
United States	12,964	180,411	10,557	157,130
Belgium	...	...	70	1,050
France	30	600	40	775
Germany	...	...	320	5,300
Netherlands	...	...	170	3,050
Other Countries	...	...	40	1,000
Total	13,083	$182,707	11,332	$171,615
Grand Total	*23,681*	*$830,948*	*21,730*	*$888,256*

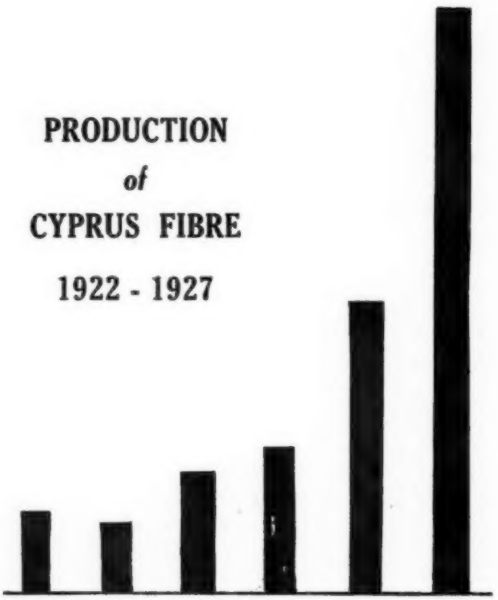
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1922 - 1927



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NEWS OF THE INDUSTRY

Birthdays. Congratulations are due E. H. Pierce, Secretary of the Plant Rubber and Asbestos Works, San Francisco, on the occasion of his birthday, July 27th, also to S. R. Zimmerman, President, United States Asbestos Company, Manheim, Pa., August 1st, and W. G. Ross, President, Asbestos Corporation Limited, Montreal, Canada, on August 6th. We extend our best wishes.

Turner & Newall, Ltd. An interim dividend of 2½% has been declared on the shares of Turner & Newall, asbestos manufacturers of Rochdale, England.—Indian Rubber Journal.

Ferodo, Ltd. The directors of Ferodo, Ltd., asbestos brake lining manufacturers, Chapel-en-le-Frith, England, report a net profit for the year of £75,991. A final dividend of 15 per cent, less tax, again making 20 per cent for the year, is proposed, and £15,000 is to be added to the reserve, making it £100,000, leaving £13,761, to be carried forward.

Lindsay Asbestos, Inc. G. G. Shackleford, formerly Vice President of Lindsay Asbestos, Inc., Rochester, N. Y., in January 1927 purchased the interest of Launt, Lindsay, President, Mr. Lindsay having withdrawn to become interested in other lines.

Mr. Shackleford is now President and Treasurer of the Company. A policy of expansion is being followed during the present year, with, so far, gratifying results.

Alpha Aids, the official organ of the Alpha Portland Cement Company has recently published an article concerning the new developments in the Asbestos Cement Industry, the article having been printed from our pages with our express permission.

Donovan Packing & Rubber Company. S. J. Donovan, formerly President of the Donovan Packing & Rubber Company has, on or about June 15th, withdrawn from the Donovan Packing & Rubber Company, Philadelphia. Mr. Donovan has been succeeded by T. Brennan as President and Treasurer. Mr. Brennan was formerly Secretary-Treasurer, and before joining Donovan was connected with other Asbestos Textile concerns, viz: Allbestos Corporation and the United States Asbestos Company.

Mr. Donovan has established a factory at 310-16 Patterson Street, Chester, Pa., at which he will manufacture steam and hydraulic packings, including all types of metal packings.

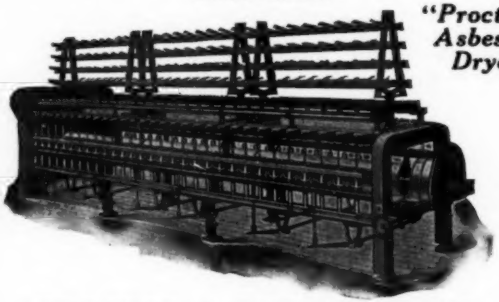
Johns-Manville Corporation. Theodore E. Merseles, newly elected President of Johns-Manville Corporation, recently sailed to Europe on a vacation trip. Mr. Merseles is expected to re-

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turn about August 15th.

B. Marcuse. There recently appeared in the Journal of the Canadian Institute of Mining and Metallurgy of Montreal, an article entitled "Asbestos Mining and Milling," written by J. G. Ross, Consulting Mining Engineer of the Milton Hersey Company, Limited of Montreal.

This article has been reprinted in booklet form by B. Marcuse, of New York City, the booklet being issued by him to readers of his house organ "Asbestology".

"ASBESTOS" is glad to add this small volume to its collection of publications on Asbestos.

Excelsior Asbestos Syndicate, Ltd. .According to the South African Mining Journal of recent issue, the Excelsior Asbestos Syndicate Ltd., registered on December 7th, 1920, has been struck off the register and dissolved under Section 196 of the South African Companies' Act of 1926.

Cape Asbestos Company, Limited. Report for the year ending December 31, 1926, has just been published by the Cape Asbestos Company, Limited. This report shows a profit, after provision for taxation and bad and doubtful debts, and including income from Capamianto S. A. I. Turin, of £36,766, to which is added balance brought forward to £10,491, making £47.257. To Reserve Fund (thereby increasing amount to £90,000) has been placed £15,000 and to Staff Benefit Fund £2,500. Directors recommend a dividend of 10 per cent per annum (less income tax) on ordinary shares, amounting to £7,200, and a dividend to preference shareholders of an amount equivalent to dividend (less income tax) on ordinary shares, under terms of issue dated December 15, 1910, which will require £7,200, carrying forward £11,757. Despite adverse conditions caused by coal strike and by increased competition, the year's profits show a substantial advance, with the result that altho the same dividend as last year, 10 per cent, is payable on an increased capital, the reserve fund is augmented by £15,000, thus bringing that fund to 50 per cent of issued capital.

Following is a comparative table for the past three years.

	1924	1925	1926
Net Profit	£18,324	£26,485	£36,766
Ordinary Dividend	10%	10%	10%
To reserve	2,250	7,000	15,000
Forward	6,238	10,491	11,757

Meeting, 26 Holborn Viaduct, E. C., June 24th, at 12 noon.

Freight Rates. Docket No. 31 of the Consolidated Classification Committee contains notice of proposed changes in freight classification on the following materials; Asbestos and Infusorial Earth Combined; Asbestos Building, Roofing or Sheathing Felt or Paper; Asbestos Lumber; Asbestos Roofing; Asbestos Corrugated Roofing or Sheathing, hard; Asbestos Felt or Magnesia Boiler Covering; Corrugated Paper Boiler Cover-

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WOVEN BRAKE LININGS
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GASKETS, SEAMLESS AND JOINTED
PACKINGS, STEM AND HIGH PRESSURE
WICK AND ROPE

ASBESTOS FIBRE SPINNING COMPANY
NORTH WALES, — PENNA.

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ing; Brake Lining, fabric; and Gaskets, Copper and Asbestos Combined.

Meetings are to be held at Plymouth, Mass., Chicago, Ill., and Atlanta Ga., on July 12th, July 19th and July 29th, respectively. Further data concerning these proposed changes will be supplied any of our readers upon request.

Gillespie Sons, 220 First Street, San Francisco, have recently been selected by Hall & Nielson, Ltd., Bury, England, as distributors for their "Bramec" Brake Lining thruout the United States, meaning eventually the opening of offices in New York and the appointment of agents for the Atlantic Coast States and interior business. A notice to this effect appearing in the May, 1927 number was incorrect in name and address.

J. Alfred Fisher, Chairman of Bell's United Asbestos Co., Limited, sailed on June 16th, for Canada and expects to visit New York for a few days. Some of our readers may have had the pleasure of a call from Mr. Fisher even before they have opportunity to read this news item.

Bell's United Asbestos Company, Limited. Thru a printer's error, the news item appearing in the June issue of "ASBESTOS" was slightly confused. It has been decided by the Directors of Bell's United Asbestos Company, to issue 140,000 6½% Cumulative Preference shares at £1 each at 21/- per share, and 56,468 ordinary shares at £1 each at 27/6 per share. Of the 56,468 new ordinary shares, 9,802 are reserved for issue to Employees, Customers and others who, in the opinion of the Directors, are able to advance the interests of the Company. Later advices inform us that this stock issue has been heavily oversubscribed by the shareholders and over 500 have been received from employees.

Diamonds & Asbestos. The development of mineral wealth in parts of Bechuanaland is foreshadowed by prospecting operations now proceeding for diamonds and asbestos within a few miles of Kanye, 78 miles northwest of Mafeking and about 20 miles from Ostsi, the nearest railway station. It is understood on very reliable authority that at a spot not far from the district where diamonds are believed to be lying, an asbestos mine has been located in which 8 veins of asbestos have been discovered in one stoping width. A Mr. Rolland is conducting the prospecting operations.

Becker & Haag of Berlin, Germany, is about to publish a book on mining, manufacturing and uses of Asbestos, this in celebration of the twenty-fifth anniversary of the establishment of their firm.

Richard V. Mattison, M. D., President, of the Keasbey & Mattison Company, is spending the summer at his estate, "Bushy Park," Newport, R. I.

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L. Scheerders-Van Kerchove, St. Nicholas-Waes, Belgium, has just issued a forty-eight page booklet advertising their S. V. K. roofing slates, corrugated and flat sheets. The booklet is attractively illustrated and contains numerous charts showing methods of application, together with prices and other useful information.

Dominions Blue Asbestos Mines, Ltd. is the name decided upon for the new company formed for the operation of the group of twenty-four blue asbestos mines, recently purchased by the Turner interests from Gillanders and Campbell. Mr. Roland Starkey has been appointed consulting engineer and general manager to the entire Turner group of African Asbestos Mines, which comprises, besides Dominions Blue Asbestos Mines, Ltd., the New Amianthus Mines, Ltd., and the African Asbestos Mining Company, Ltd.

This transaction will undoubtedly result in increased activity in the Kuruman fields and the mining industry be much improved by the application of capital, skill and experience to that district.

The Asbestos Shingle, Slate & Sheathing Company, have just issued a well illustrated, forty page catalog describing Asbestos building materials, including Ambler Asbestos Shingles, roofing tile, corrugated sheets, imitation tiling and Asbestos Lumber. Complete instructions and diagrams are given for applying the various styles of Asbestos Shingles, with tables, etc. Photographs, some in color, show effects obtainable with these shingles, including tapered English thatch style, both in regular and irregular widths; methods of using Asbestos Wallboard for wainscoting and tiling effects also are illustrated. One section is devoted to ebonized Asbestos Lumber and its uses for electrical switchboards and similar purposes. Copies of the catalog can be had by writing the Asbestos Shingle, Slate & Sheating Company, Ambler, Pa.

The Cyprus Trading Corporation, Limited, has recently been organized, with capital of £100,000, to handle the sales of the business of the Cyprus Asbestos Company Limited. The address of the new corporation is the same as that of Cyprus Asbestos Limited, 49 St. James's Street, London, S. W. 1.

The new firm is closely connected with Cyprus Asbestos Company, Limited, the Managing Director of the Cyprus Asbestos Company being Chairman, and the Cyprus Manager of the Cyprus Asbestos Company, a Director of the new concern. A. S. Runacres, Sales Manager of Cyprus Asbestos Company, is Director and Sales Manager of Cyprus Trading Corporation, Limited.

Cyprus Trading Corporation, Limited, will naturally handle all correspondence connected with the sales of Cyprus Asbestos fibres, and will, naturally, execute all existing contracts.

PATENTS

Gasket. No. 1,626,110. Granted on April 26th, to Claude B. Bailey, William W. McCord and Charles Wilkins, Wyandotte,

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Mich., assignors to McCord Radiator & Mfg. Co., Detroit, Mich. Filed February 15, 1923. Serial No. 619,121.

Described as a gasket comprising a body portion of outer layers of sheet metal and an interposed layer of asbestos or like material, said layers having a row of registering port holes therein, spaced apart lengthwise of the gasket, tubular guide members formed from sheet metal and carried by the gasket body about said holes, said guide members projecting outward from the gasket body to one side thereof and having double flanges for reinforcement against bending.

Friction Lining and Method of Forming Same. No. 1,626,403. Granted on April 26th to Thomas L. Gatke, Oak Park, Ill. Filed August 15, 1923. Serial No. 657,590.

Described as a strip of friction lining composed of a plurality of relatively non-flexible portions of friction material connected by a plurality of flexible webs of wire mesh, covered with the friction material.

Asbestos Crown Type Packing. No. 1,626,436. Granted on April 26th to Elmer E. Switzer, Beaumont, Texas. Filed January 26th, 1926. Serial No. 83,910.

Described as the combination of a circular Asbestos body, rings embedded in said body and having their inner faces contacting thruout their length, each ring comprising segments curved thruout their length and portions of said asbestos body between the contiguous ends of the segments in each ring.

Apparatus for the Manufacture of Tubes of Cement Asbestos or Similar Substances. No. 1,627,104 Granted on May 3rd to Diego Mattei and Adolf Mazza, Genoa, Italy. Assignors to Eternit Pietra Artificiale, Societa Anonima, of Genoa. Filed Feb. 18, 1921. Serial No. 446,046, and in Italy Mar. 2nd, 1920.

Described as a machine for the manufacture of pipes of the character described, means for forming a pulp layer comprising a pair of squeezing rollers, an endless band for protecting from the pulp the upper roller of said pair, a main pipe forming cylinler for receiving the layer of pulp after the latter has passed between said squeezing rollers, a flexible band partially encircling the periphery of the pipe forming cylinder for compressing pulp thereon, a set of heavy driven rollers distributing along the periphery of the pipe forming cylinders to compress the pulp during the manufacture of the pipe and means for guiding the latter rollers to permit their displacement and for gradually decreasing their process on the pipe forming cylinder as the thickness of the pipe is increased.

Heat Insulating Wall. No. 1,626,655. Granted on May 3rd, to James C. Woodson, Pittsburgh, Pa., assignor to Westinghouse Electric & Mfg. Co., a Corporation of Pennsylvania. Filed August 30, 1923. Serial No. 660,083.

Described as a heat insulating wall comprising means having alternate layers of metallic and heat insulating materials for obtaining a uniform variation of temperature thruout the thick-

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ness of the wall.

Fireproof Composition. No. 1,628,171.. Granted on May 10th to Abe McIntyre, Billings, Mont. Filed Feb. 15, 1926. Serial No. 88,461.

A fireproof composition comprising a reaction product formed from a mixture of Asbestos, flour, lye and salt, the flour being affected by the chemical action of the lye.

Shingle Fastening. No. 1,629,558. Granted on May 24th to Henry R. Wardell, Daytona, Fla., assignor to Johns-Manville Corporation. Filed Nov. 3, 1925. Serial No. 66,524.

Described as a roof covering composed of pointed shingles comprising in combination a plurality of courses of substantially square shingles each course arranged with one side of the diagonal dimension of its constituent shingles horizontal and with the corners of adjacent shingles touching each such course slightly overlapping the next lower course, the lower corner of each shingle being bent under from exposed position and forming a flap placed under it in the vertex of the angle between two adjacent shingles and the next lower course and a thin quadrangular plate of stiff material having one corner clipped off to an extent such that the cut edge approximates in length the line on which said flap is bent, fastened to said folded flap and extending beyond the point of both sides of said flap and under said adjacent shingles of the next lower course; whereby said flap and the lower portion of the shingles to which it is connected are firmly anchored in position

Insulating Section for Pipes. No. 1,630,657. Granted on May 31st to Mark V. Croker, Newtown Upper Falls, sleeve and said couplings. Mass. Filed Oct. 29, 1924. Serial No. 746,701.

Described as an insulating section for pipes comprising a tube of insulating material, a coupling secured to each end of said tube and forming therefor a self-contained liquid conduit, a metal protecting sleeve surrounding and spaced from said tube and insulating material interposed between said tube and sleeve and betwen the ends of said coupling.



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