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SUNSET CLOUDS

A brilliant sunset one evening not so long ago pointed up dark blue clouds in the west with an "underlay" of gold, and tinted clouds in the east with an orchid hue.

The effect lasted only a few minutes—not over half an hour—when the sun, sunk below the horizon, left only the dark blue clouds in evidence.

Had the evening been entirely clear, without the clouds, the sunset would have been very ordinary—it was the clouds that made it beautiful—gorgeous in fact.

It reminded us, as many nature effects do, that if our lives were void of troubles and hardships, they would be far from interesting and perhaps little worthwhile would be accomplished.

A great deal of the progress of this country has been made because of the urge to give, directly or indirectly, happiness, or comfort or protection to mankind; it was inspired first by necessity and later by the call for luxuries

The world might well cease progress were happiness and luxury easily obtainable.

THE SCHMIDT BELT

Our July 1949 number (Page 24) inquired about "The Schmidt Belt" a device used in Europe for checking pipe insulation for its efficiency. Our August number (page 3) reported on this but we are now further informed.

Engineer Dipl. E. Merkel, connected with Asbest-und Gummiwerke Martin Merkel K. G. of Hamburg, Germany (Wilhelmsburg 1) tells us that he is a disciple of Prof. Dr. Engineer Ernst Schmidt, of Braunschweig (Hartzburgerstr. 8) Germany, who was the inventor of the belt above mentioned, and upon reading our articles, wrote Dr. Schmidt. The result was a reply from Dr. Schmidt advising that the heat-current meter designated by us as the "Schmidt Belt" is at present produced, in collaboration with Prof. Dr. Engineer Schmidt, by Forschungsheim fur Warmeschutz, (Institute for Researches about the sources of heat loss), Lothstr. 7, Munchen, Germany.

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BRAKE LININGS OF VARIOUS TYPES
And Their Manufacture

By R. T. Halstead, Manager, Friction Materials and Packings, Johns-Manville Research Center.

This is the third part of Dr. Halstead's article. The first and second parts appeared in our August and September issues.

B. RUBBERIZED FABRIC LININGS.

Linings falling in this category are dependent upon the thermal stability of the rubber compound contained in these friction materials to provide the desired frictional and wear properties. Therefore, the development of a suitable compound for use in this connection is a major consideration in manufacturing this type of product.

The structure of linings of this basic type falls into one of the following three classes:

1. A laminated cloth construction, with each lamination or layer consisting of a wire-inserted asbestos cloth that is rubberized on both sides. These layers, each approximately 1/16" thick, are built up in a multi-layer construction of required thickness and are then cured under the effects of heat and pressure to vulcanize the rubber compound in the structure.

Linings of this laminated cloth construction are frequently referred to as "folded and compressed" type linings. Such linings offer, for all but extremely severe service conditions, exceptionally good resistance to wear and relatively high frictional qualities. Under very severe operating conditions, involving excessively high brake drum temperatures these laminated linings tend to soften to a degree that permits one or more layers of the lining adjacent to the drum to delaminate and strip off under the action of the rotating drum.

2. A loosely woven listing containing ribbons of rubber compound woven into the structure constitutes the base fabric of the second type of rubberized fabric lining; as in the previous case, wire-inserted yarns are normally employed. This listing is impregnated in a cemented rubber compound in order to cover the individual yarns and,

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when dried to expel all solvents, is cured under the effects of heat and pressure in order to consolidate the base fabric structure into a dense product and to vulcanize the rubber compound present.

In the foregoing discussion the term "listing" is employed to designate a multi-layer woven structure which has binder yarns that hold the entire woven entity together. Therefore, in this type of construction, delamination of the plies cannot readily occur due to the action of the binder yarns. This type of lining is in this respect a definite improvement over the laminated cloth construction offered by the folded and compressed type.

3. The third type of rubberized fabric friction material is a modification of that described in 2, in that a much looser and more open wire-inserted yarn structure is woven without the inclusion of ribbons of rubber compound into the base fabric. The finished product of this type usually has a higher yarn content than lining of the type covered by 2 and, in general, offers approximately similar service characteristics.

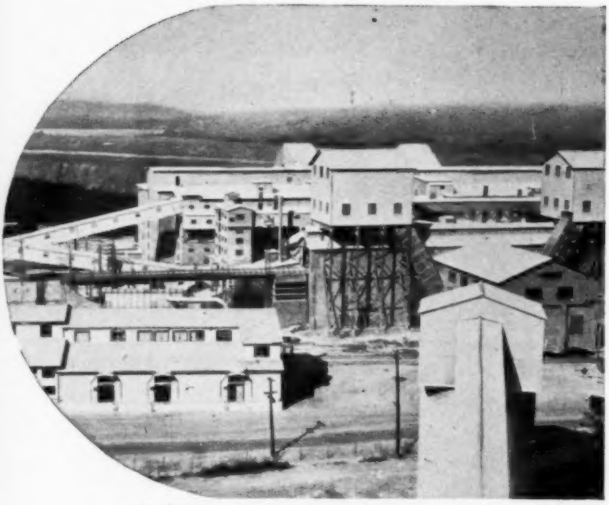
The chrysotile asbestos yarns used in all of these constructions are normally of so-called "commercial grade"; the wire inserts in these yarns are usually brass, which serves to provide improved resistance to rivet shear and also contributes in a major degree to improvement in the resistance to wear of the lining.

C. WOVEN BRAKE LININGS

Woven linings have a general utility which serves to keep this class of materials in demand, particularly in the industrial field. This type of lining can be readily manufactured to provide a relatively flexible product in roll form and in a variety of widths and thicknesses (up to approximately 1-3/8"). It is admirably suited for use in many industrial applications where its adaptability to various type brake installations permits a range of service conditions to be met with a relatively small inventory of lining.

The base fabric in this type of product generally consists of wire-inserted asbestos yarns woven to provide a substantial structure of somewhat oversized proportions. This listing is generally prepared without additives, altho

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Bird's eye view of service buildings adjoining J-M Mine at Asbestos, Quebec.

AFD

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in certain instances impregnating solutions, rubber latices and other aqueous dispersons of various compounding materials are added to the yarns while being processed on the loom.

The wire reinforcement adds to the strength of the woven lining and also contributes to the frictional and wear properties of the product. It is noteworthy that there are some woven linings available today with wire reinforcement only in the non-wearing plies, i. e., that portion nearest the brake shoe or brake band and under the rivet heads. Brass wires are most frequently employed in conventional woven linings, altho zinc wire, also lead wire, find some application where it is necessary to modify the braking action of the lining.

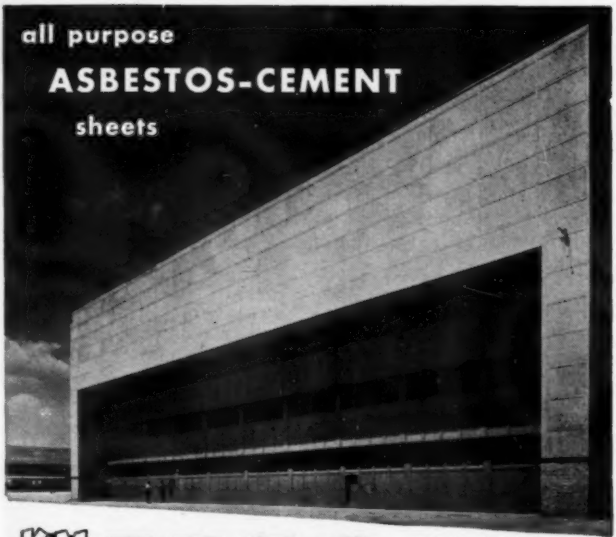
The oversize listing, after being dried, is immersed in an impregnant of such consistency that the lining is completely saturated. Drying oils, resins, bitumens and the like are normally used as saturants. With certain types of treatments, the resultant impregnated listing may be fully baked and then calendered to condense the oversize structure into a compact lining of specified dimensional cross-section; with other impregnants, it may prove necessary to calender the lining intermittently during the baking operations. In all cases, every effort is made to cure the impregnant by employing an adequately long bake at an adequately elevated temperature, thereby assuring relatively stable frictional characteristics; an over-baked condition of the lining frequently manifests itself in the form of brittleness or structural weakness of the finished product.

Many woven linings are surface-ground; this practice often contributes to an improvement in the appearance of the product, increases the flexibility and provides a wearing surface which permits the lining, when installed, to seat more rapidly against the brake drum and to provide more constant frictional properties.

SUMMARY.

The categories of friction materials covered in the foregoing discussion include those types that are of primary commercial importance; passenger car, bus and

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truck installations, involving both clutches and brakes, are made in the great majority of instances by employing one, or a combination, of these various friction materials.

While improvements are being effected in the individual formulations, as new and improved raw materials and manufacturing techniques become available for use in the production of these products, yet it still remains for the relatively standardized conventional friction materials of today, as described in the foregoing, to assume an ever increasing responsibility in decelerating the nation's vehicles from higher and higher speeds.

A.S.T.M. STANDARDS ON ASBESTOS-CEMENT PRODUCTS.[1]

The new Specifications for Asbestos Cement Flat Sheets (C-220) and Asbestos-Cement Corrugated Sheets (C-221) are the first to come from Committee C-17.

In C-220 the composition and manufacture are described as follows:

Asbestos-cement flat sheets shall be composed of a uniform mixture of portland or portland-pozzolana cement, asbestos fibre, and not more than one per cent by weight of organic fibre, with or without the addition of a curing agent, water-repellent substance, coating, pigments, mineral granules or mineral fillers, formed under pressure and thoroly cured.

Requirements are given concerning flexural strength, water absorption, thickness, and there are details on dimensions.

The new Tentative Specification for Corrugated Sheets (C-221) covers material that is used for structural and related purposes and for decorative or other purposes.

[1]**Taken from Sept. 1949 issue of ASTM Bulletin.**

• • • —

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ASBESTOS PRODUCTION

XII. Various Countries

There is reported from time to time in the U. S. Minerals Yearbook (Asbestos Chapters) production of small quantities of asbestos in various countries which have no real status in the Asbestos Industry.

Such as Alaska, Albania, Egypt, Eritrea, Greece, India, Kenya, Madagascar, etc.

With the idea that it will be interesting to learn what information is available about these asbestos deposits, we shall cover briefly in this and one or two succeeding articles, any data we have on these countries including any production reported. Some of them report production only spasmodically.

All tons mentioned in these articles are short (2000 lbs.) tons. The U. S. Bureau of Mines reports the figures in metric tons which we have converted to short tons in all cases.

Alaska. There is without doubt some very beautiful chrysotile asbestos found in Alaska—we have specimens of it in our cabinet. There is also found in that country, and possibly in greater abundance, asbestos of the tremolite variety.

Recently we published (in our June 1949 number) Report of Investigations (R. I. 4414, dated March 1949) on the Kobuk River Asbestos Deposits. The report is quite a thoro one, and constitutes the best and latest information available about these Alaskan asbestos deposits.

The Kobuk river Asbestos Deposits are the best known and most accessible ones in Alaska, but the report tells us that the recovery of the higher grades of fibre is so low that the deposits cannot be considered as a source of spinnable asbestos. One manufacturer who made tests of the fibre from these deposits states that the material is too brittle for the making of asbestos-cement products. The material might be useful for the manufacture of filter fibre. Tables of production given in the U. S. Minerals Yearbook Chapters give no figures on production in Alaska. The re

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port above mentioned, however tells us that the Arctic Circle Exploration Company during 1945 produced 36.5 tons of tremolite asbestos and 1 ton of chrysotile slip fibre, along with *5 tons of jade boulders.*

Albania. Albania, as our readers may know, is a small country between Yugoslavia and Greece. A report reached us in the latter part of 1939 that asbestos of good quality had been discovered in the Korcha District, and that Societe Cave di San Vittore (the chief asbestos producing company in Italy) were to explore the deposit. So far as we can find no production has ever been reported by the U. S. Bureau of Mines.

Bulgaria. This country lies on the Black Sea between Romania on the north and Greece and Italy on the South. According to U. S. Bureau of Mines Bulletin No. 403 amphibole asbestos of the anthophyllite type occurs over a large area in the eastern Rhodope Mountains of southern Bulgaria. A production of several hundred tons was reported unofficially in 1933.

Czechoslovakia. "Foreign Metals and Minerals" published in 1936 by the U. S. Bureau of Foreign and Domestic Commerce, states that there was a firm in Czechoslovakia at that time by the name of "Asbest" Gewinnung und Verwertung von Asbest Gesellschaft m. b. H., located at Dobsina which produced asbestos, reporting an output as follows:

1933	1323 tons	1935	2866 tons
1934	2315 tons	1936	2976 tons

No further production has been reported (in the United States) since 1936.

Egypt. A deposit of asbestos is said to be in Wadi Hafafit in the Baramia district of the Upper Egyptian watershed, the material being described as short, of the cross fibre type but acid resistant. That report reached us in 1946 and nothing further has been heard of the deposit since that date.

An asbestos mine owned by the Egyptian Asbestos Co. is situated in the Eastern Desert of Egypt but we have no data concerning it.

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Production of Egypt has been reported to be

1943	8 tons	1945	55 tons
1944	247 tons	1946	61 tons

Eritrea (formerly Ethiopa). In our September 1943 number we reported that deposits of asbestos occur in Eritrea but are not being worked commercially. No report of production appears to be available.

France. Altho production of France has been consistently reported by the U. S. Bureau of Mines since 1923 (and probably before that date of which we have no record) little if anything is known of the deposits or who operated them. Bulletin No. 403 (U. S. Bureau of Mines) published in 1937, curiously enough reports that plans for the opening of an asbestos quarry in the Chateau-Ville-Veille-et-Chateau Queyras Commune in the Guil Valley were being made. These, however, must have been plans other than those which finally culminated in the opening of the asbestos mine by the Alpine Mining Corporation as reported in our April 1948 number.

The production figures of France from 1923 to 1946 inclusive (with the exception of the war years, were as follows:

1923	732 tons	1931	551 tons	1939	Not Available
1924	972 tons	1932	331 tons	1940	
1925	2426 tons	1933	441 tons	1941	
1926	728 tons	1934	441 tons	1942	
1927	885 tons	1935	496 tons	1943	
1928	805 tons	1936	446 tons	1944	
1929	828 tons	1937	276 tons	1945	1120 tons
1930	554 tons	1938	496 tons	1946	647 tons

. . . —

The United States uses 70% of all the oil produced on the globe and 50% of all the minerals, states a Bureau of Mines report.

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A.S.T.M. COMMITTEE D-13 MEETING

Scheduled for October 20th.

Committee D-13 on Textile Materials (of the American Society for Testing Materials) will meet on Thursday, October 20, 1949, 2 P.M., at the Benjamin Franklin Hotel, Philadelphia, Pa.

This meeting is open to non-members of the Society as well as members. An interesting program the subject of which is "Modern Techniques in Microscopy and their application in Textile Research" has been arranged.

Following are the subjects of the papers and following the presentation of each paper, there will be a question and answer period:

A New Technique for Making very thin clear Sections and its Application in Electron Microscopy.
By S. B. Newman, Microbiologist, Division of Organic and Fibrous Materials, National Bureau of Standards, Washington, D. C.

Some Applications of Modern Microscopy to the Study of Fibers and Thin Films.
By F. F. Morehead, Chief, Microscopy Group, Chemical Research Department, American Viscose Corporation, Marcus Hook, Pa.

Some Applications of Modern Microscopy to the Study of Chemical Phenomena and in the Dyeing and Printing of Textiles.
By G. L. Royer, Assistant Director, Application Research Department, Calco Chemical Division, American Cyanamid Co., Bound Brook, N. J.

Lantern slides will be used to illustrate these talks: the speakers are all prominent scientists, and will discuss their work informally and in "down-to-earth" language, understandable to those persons not directly engaged in the field of microscopy.

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THE FORTY-NINE YEARS OF JACK BROWN

J. H. Brown, familiarly known in the Asbestos Industry as "Jack Brown," joined the Keasbey & Mattison Company at Minneapolis just a little over forty-nine years ago. His job was that of combination bookkeeper and shipping clerk, meaning that he put up the order and helped load—the trucks? Not in those days—wagons, with a horse, or horses, attached.

This job, says Mr. Brown did not turn out to be permanent, so *after thirty-six years*, he joined G. A. MacArthur Company of the Twin Cities as Vice President. That was in 1936; in 1941 he was made President of the firm, resigning on August 1, 1949 because of ill health. He retained the Directorship, however. and his older son, Ford Brown, has become President; Win Brown (a younger son) and John G. Ordways, Jr., becoming Vice Presidents.



In thinking of the "good old days" he tells us that office hours were then from 8 a. m. to 6 p. m., with *early* closing on Saturdays—5 p. m.

Mechanics, working 10 hours a day, six days a week, got 20c an hour.

City salesmen rode bicycles to call on the trade.

It took much work with owners of the smaller power plants and heating plants to convince them that pipe covering was a good thing, sometimes it took several years to land an order.

At that time there was only one manufacturer of 85% magnesia and an imitation was made of wall plaster.

Probably the largest buyers of asbestos yarn in those days were the firms who used it for supporting gas mantles.

Mr. Brown extends a cordial invitation to all his friends in the Industry to visit him when in the Twin Cities.

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HOW MUCH WILL THAT POOR GASKET COST?

Gaskets are usually given insufficient consideration by buyers. When one stops long enough to concentrate on gaskets and considers the important role they play in the piping world, in carrying steam, water, all kinds of gases and liquids, low and high pressure, and then does a little figuring, it becomes perfectly plain that a poor gasket may be a decidedly expensive piece of equipment and a first class gasket may be a great money saver. A money saver, of course is a money maker.

Poor gaskets are likely to spring a leak very soon after installation. Some of them leak all the time, beginning immediately after they are installed. In other words, they are never tight. If a gasket's function is to seal steam pipes carrying high pressure steam it can easily lose enough steam in one day to more than pay for a good gasket of much higher price.

In an effort not to exaggerate, assume the cost of the poor gasket is 50c and the loss of steam per day is 10%. Counting 300 working days to the year, the cost of leakage of steam in the year is $30.00; and if a leaky gasket is not replaced for 15 years the total loss during that period becomes $450.00

Should conditions by the end of the first year become so bad that it is decided to put in a new gasket of the same inferior quality, every year at a renewal cost of, say, $4.00 per change for labor, the cost would be $60.00 for the labor and $7.50 for the 15 gaskets, or a total cost of $67.50. Added to the $450. this gives us $517.50 as the total cost of a poor 50c gasket.

The cost of labor also depends largely upon the gasket, often becoming an expensive proposition if the gasket should happen to stick to the flange. In some instances sticking has necessitated taking down entire sections of pipe so that the flange could be properly cleaned. Also, every mechanic has experienced a great deal of trouble in having screws twisted off and bolts

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stripped by using gaskets that require enormous pressure before they actually become tight.

Obviously it pays to invest $1.00 in a *good* gasket rather than 50c for a poor one, if the dollar gasket will stay tight for a long period of time.

Gaskets sometimes blow out completely or are ruined by superheated steam, and as a result actually cause plant shut-downs holding up hundreds or thousands of employees at a tremendous expense to the owners. Thus, such a loss might occur at the end of the 15-year period and the loss would have to be added to the $517.50 —almost unbelievable, yet entirely possible. Poor gaskets *are* expensive.

AUTOMOBILE SALES

	August 1949
Passenger Cars	557,370
Motor Trucks	99,850
Motor Coaches	444
	657,664

July sales totaled 579,048; August 1948 sales were 461,353.

Total sales for the eight months (January to August inclusive) of 1949 were 4,230,996; for the same period in 1948, they were 3,424,282.

These figures cover only cars made in the United States.

In August the domestic market absorbed 96.6% of the output.

Figures were supplied by the Automobile Manufacturers Association, New Center Building, Detroit, Mich.

• • • —

The machinery industry registered the largest increase in the past 10 years—300% in value and 140% in employment.

"Tropag"

ASBEST- & ERZIMPORT OSCAR H. RITTER K. G.

Hamburg • — • Ballindamm 7

Importers of

ASBESTOS - ORES - MINERALS

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HAIR FELT

FOR

Low Temperature Insulation

Newark Hair Felt Co.

1000 Maple Avenue

Lansdale, Penna.

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MY COMPETITOR"

A Lesson In Selling.

Today one of my good customers said "I had a nice talk with Jim Simpson of the Aurora Company today, you know him, don't you?"

"Simpson?" I said, and shook my head. "I don't seem to recall him."

My customer went on to describe him. "Nice chap" he said, "but I told him I was lined up with your company, and as long as you treated me well, I saw no reason to make a change."

I told him how much I appreciated his loyalty, and we were soon on some other subject.

Of course, out on the road as I am, I can't help but run into my competition. I know most of the men who travel my territory by name, and there have been times when I've eaten with them, but as a rule I don't try to be very close with them. I'd rather not know too much about them and about their company. Then, when a prospect tries to pry something out of me, I honestly don't know!

I'm loyal to my own company and my one line. I don't want to be weaned away from it, and I've found in the many years I've represented this company and been thrown among travelling representatives, that discontent usually begins with a salesman when another man has talked too much about *his* firm and begun an unselling process. The enthusiastic company booster, who is really interested only in making himself out a luckier man, can make another fellow dissatisfied with the commission he makes, the territory he covers, the reports he has to send in. He can even shake his confidence in the produc. he is selling.

No! I'm sold on my firm and I intend to stay sold—at least I'm not going to be unsold by any outsider. And by the same token, I'm not going to weaken my sales arguments by having seeds of suspicion concerning the product I sell, sown by my competitor.

I'm a friendly chap on the road, but not to the extent of being pally. I steer clear of close alliances. Then when

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a customer tries to tie me down to facts about a competitor, I can truthfully disclaim acquaintance with the representative, and knowledge of the company's policies and practices. It's the best way if you want to be a contented salesman—and no discontented salesman ever remained long a *good* salesman.

FACTS

The U. S. National Bureau of Standards has erected an experimental masonry wall faced with over 2000 specimens of stone from 47 states and 16 foreign countries, in order to study all phases of the weathering process on numerous varieties of stone. The complete investigation will require many years, but some parts of the study will yield results in a comparatively short time. Some of the problems to be studied are permanence of color, discoloration, effects of combining different types of stone, waterproofing, durability and dimensional stability.

• • • —

One of every 25 new permanent single-family dwellings started last year (in non-farm areas) was a prefabricated house, according to the Prefabricated Manufacturers' Institute. Members of the prefab industry shipped 30,000 permanent-type homes during 1948.

• • • —

A new exterior gypsum sheathing is now being manufactured by The Paraffine Companies, Inc., according to recent announcement by L. K. Bishop, Manager, Building Materials Division.

• • • —

Harry E. Humphreys, Jr., President of the U. S. Rubber Co., will receive the annual Commerce and Industrial award given by the Philadelphia Chamber of Commerce. The award will be made on October 17th at a luncheon opening Pennsylvania Week. Mr. Humphreys is a native Philadelphian.

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PRODUCTION STATISTICS

Canada

(Department of Mines, Province of Quebec)

Production for July 1949 ..... 64,735 tons (2000 lbs.)
Compared with July 1948 ..... 56,238 tons (2000 lbs.)

• • • —

Italy

(From U. S. Mineral Trade Notes)

In 1946 ..... 8,800 metric tons or 9,700 short tons
1947 ..... 10,500 metric tons or 11,574 short tons
1948 (estimated) .. 11,000 metric tons or 12,125 short tons

Africa (Swaziland)

Production for July 1949 ..... 2,850 tons (2000 lbs.)

ASBESTOS CHAPTER OF U. S. MINERALS YEARBOOK PUBLISHED.

The Preprint of the Chapter on Asbestos from the U. S. Bureau of Mines Minerals Yearbook for 1947 has just reached us. This has been compiled by Lawrence G. Houk and F. M. Barsigian. It contains the usual statistics as to production of Chrysotile and Amphibole Asbestos in the U. S. A., sales, apparent consumption. Also a review by states, and various data on new uses, consumption, foreign trade and world production.

Copies can be obtained from the Superintendent of Documents, U. S. Government Printing Office, Washington 25, D. C., for 15c (in coin).

This 1947 preprint combines the subjects of Antimony, Arsenic, Asbestos and Asphalt in one pamphlet.

The chapter seems to be unusually comprehensive and well worth adding to your library on asbestos subjects.

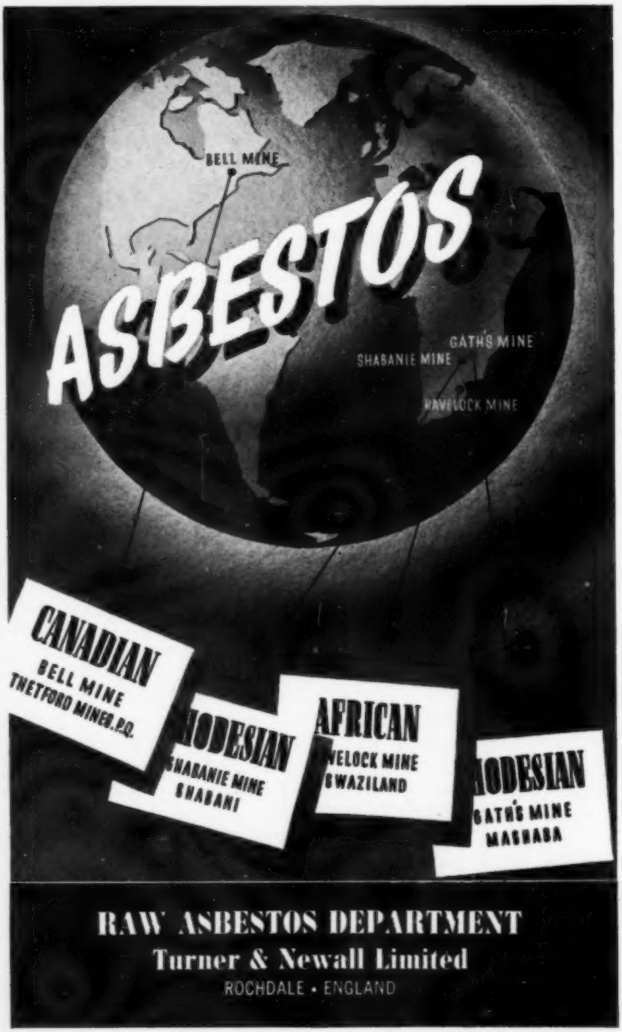
• • • —

You can tell the character of every man when you see how he received praise.

OFFICE POSITION—SALES—ESTIMATING

Asbestos background, Knowledge of Machine Shop Practice —Ability to type Production Orders rapidly. Interesting position in small but expanding company. Willing to locate in New York City. Submit detailed application and starting salary requirements. Address Box No. 9L-B, "ASBESTOS", 808 Western Saving Fund Bldg., Philadelphia 7, Pa.

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MARKET CONDITIONS

GENERAL BUSINESS.

In the general business world the events requiring most thoughtful consideration on the part of executives are: the Russian atom explosion, the steel and lesser strikes, the devaluation of currencies and increasing expenditures by the Federal Government.

Building activity is keeping up fairly well, and inventories in many lines are at such low levels that a buying movement is fairly certain unless the steel strike is prolonged.

ASBESTOS — RAW MATERIAL.

One correspondent tells us that the demand for asbestos fibre is as great as ever and he does not believe that the devaluation of currency in many countries will have any ill effects on the importation of asbestos by those countries.

Another thinks it too early (the date of his writing is about the first of October) to determine what effect the devaluation of the Canadian dollar and other currencies will have on the exportation of asbestos fibre from Canada, but goes on to say that in the American markets requirements for shorts, waste and paper stock still exceeds supply. As manufacturers are attempting to build up inventories and take care of their normal requirements as well, this condition should continue thruout October and probably for the balance of the year.

Altho the Canadian mines are working full capacity and production is back to normal (See production statistics on page 24) arbitration is still going on between the producing mines affected by the recent strike and no contract has been as yet formally signed.

ASBESTOS — MANUFACTURED GOODS.

Asbestos Textiles. According to our correspondents a definite upward trend is noticeable in textile lines, especially in cloth, roving and lap. Yarn inquiries lag behind, and tape business variable.

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Since most distributors and equipment buyers have almost depleted stocks, there is expectation of replacement orders from those customers very soon.

According to a third reader, September business in the textile line was the highest in the past six months.

Brake Lining. The replacement market is still running about 15% off last year's figures, and since jobbers usually allow their inventories to run low toward the end of the year it is not expected that this market will improve much until after the first of next year.

Equipment business is continuing on a high level and will probably keep that level for the balance of the year but may show some falling off the first quarter of 1950.

Asbestos Paper. This market is reported as below normal for the period but with firm prices.

In *Saturated Paper* production at present is able to take care of demand, but since industry is releasing some orders for re-roofing it is probable that good volume may be expected for the next two months with a slacking off thereafter.

Asbestos Millboard. Reports show little difference from those on Asbestos Paper, altho calls are steady and may increase slightly.

Insulation. High Pressure. Altho there is indication of some pickup in business, until recently orders have been at the lowest point in years. With general improvement in business sentiment now prevailing, it is expected that this will ultimately be reflected in new industrial construction and repair work, which should mean more insulation business later on. Rehandlers continue to order only for immediate needs but this too should change as they recognize that high production costs preclude price reductions.

Prices on material sales are firm, but some very low prices have been quoted on contract work.

Insulation. Low Pressure. There is some increase in demand for low pressure materials—probably seasonal. Prices appear to be holding firm.

Asbestos-Cement Products. Demand for shingles and

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PHILLIPS ASBESTOS MINES

Producers of

CRUDES

and

Fiberized Asbestos

The World's Finest Fibre

DRAWER 71 **GLOBE, ARIZONA**

Mines and Mills in Gila Co., Arizona

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siding is strong, in fact it far exceeds current productive capacity. This will probably continue during the current month (October) but may drop (seasonally) about the middle of November.

Shipments of Corrugated are behind orders, mainly due to loss of production during the recent fibre strike. Demand should take care of production for the balance of this year and may carry over thru the first quarter of next year.

A resumption of demand for pressure and sewer pipe has been noted in the past thirty days. Most manufacturers of *various* types of water and sewer pipe are promising reasonably prompt deliveries. There is a marked seasonal increase in flue pipe requirements and demand for house connection sewer pipe and electrical conduit remains at a fairly high level.

The above comments have been made by various executives in close contact with field conditions. All comments on market conditions are always welcome.

• • • —

THE AMERICAN SOCIETY FOR TESTING MATERIALS will hold national meetings in Pittsburgh and Atlantic City in 1950. The Committee Week and Spring Meeting will be held in Pittsburgh, and the 53rd Annual Meeting will be in Atlantic City, in conjunction with which is to be held the Ninth Exhibit of Testing Apparatus and Related Equipment.

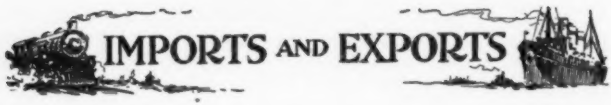
• • • —

The Thermoid Company has released a motion picture under the title "The Safest Thing on Wheels", designed to help brake service mechanics to do a better job. It's an instructive talking movie and answers pictorially many questions which frequently come up in brake service work.

WANTED

Mining Superintendent. With asbestos mining and milling experience. Must speak French, be willing to work in Europe. Single or married; good working and living conditions. Address: Box 10A-N, "ASBESTOS", 808 Western Saving Fund Bldg., Phila., 7, Pa.

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Imports into U. S. A.

(Figures by Bureau of Census)

Unmanufactured Asbestos—By Countries

	June 1949 Tons (2240 lbs.)
From Canada	18,812
Bolivia	31
Mozambique	67
S. Rhodesia	450
U. of S. Africa	1,557
	20,917
Valued at	*$1,739,818*
By Grades	
Crude No. 1, Chrysotile—S. Rhodesia	174
Crude No. 2, Chrysotile—S. Rhodesia	254
Crude—Other—Chrysotile	
S. Rhodesia	22
U. of S. Africa	759
Crude—Blue	
Bolivia	31
U. of S. Africa	405
Crude—Amosite	
Mozambique	67
U. of S. Africa	393
Textile Fibres—Chrysotile, Canada	482
Shingle Fibres—Chrysotile, Canada	2,952
Paper Fibres—Chrysotile, Canada	1,534
Fibres—Short Grades, Canada	13,844
	20,917

Manufactured Asbestos Goods:

	June 1949 Quantity (Lbs.)	Value
Asbestos Yarn		
United Kingdom	8,860	$ 7,825
Asbestos Packing—Fabric		
United Kingdom	2,543	2,529
Asbestos Packing—Not Fabric		
United Kingdom	2,510	1,623

(Continued on page 32)

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LIGHT DENSITY TYPE
PABCO
PRECISION MOLDED
85% MAGNESIA INSULATION
"THE DEPENDABLE STANDARD — MODERNIZED"
REG. U. S. PAT. OFF.
U. S. Patent Nos. 2,131,374 — 2,209,752 — 2,209,753 — 2,209,754
PIPE COVERING MADE IN SECTIONAL FORM
UP TO AND INCLUDING 18-INCH PIPE SIZE
COMPLETE RANGE OF SIZES AND THICKNESSES
IN BLOCKS AND PIPE COVERING
THE PARAFFINE COMPANIES, INC., Insulation Division
(Formerly Plant Rubber & Asbestos Works)
475 Brannan Street, San Francisco 19, California · Engineering Service Units In Principal Cities
PABCO

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Imports Manufactured Asbestos Goods Continued

	June 1949 Quantity (Lbs.)	Value
Asbestos Woven Fabrics—Other		
Canada	849	250
United Kingdom	1,281	987
Asbestos Cement Products—Not Impreg.		
Canada	93,775	4,344
Mexico	749.468	46,457
Asbestos Brake Lining (Molded)		
Canada	10	12
Asbestos Manufactures—Other		
United Kingdom	..	120
	859,296	$64,147

Exports from U. S. A.

(Figures by Bureau of Census)

Unmanufactured Asbestos

	June 1949 Tons (2240 lbs.)	Value
To Canada	44	$ 2,279
Mexico	22	2,875
Belgium	461	29,789
Denmark	402	137,299
Germany	166	28,534
Norway	45	9.210
United Kingdom	103	19,408
Belgian Congo	127	49,584
Other Countries	12	720
	1,382	$279,698

Manufactured Asbestos Goods:

	June 1949 Quantity	Value
Asbestos Pipe Covg. & Cement ..... Lbs.	1,016,132	$130,783
Asbestos Textiles and Yarn ..... Lbs.	37,740	32,711
Asbestos Packing ..... Lbs.	179,615	143,500
Asbestos Brake Lng. (Mld.&S.Mld) Lbs.	310,162	266,065
Asbestos Brake Lng. (Woven) ..... L.Ft.	45,187	29,206
Asbestos Clutch Facings ..... No.	67,728	38,910
Asbestos Brake Blocks ..... Lbs.	21,199	20,481
Asbestos Construction Materials ..... Lbs.	3,034,188	165,619
Asbestos Manufactures—Other	....	33,849
		$861,124

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JOHNSON'S COMPANY LTD.

ESTABLISHED IN 1875

Head Office

Thetford Mines, P. Q. Canada

Mines

Thetford Mines, Quebec
Black Lake, Quebec

Producers of All Grades of

RAW ASBESTOS

REPRESENTATIVES

GREAT BRITAIN ..... A. A. BRAZIER & CO.
"Avenue Lodge"
65a Bounds Green Road,
LONDON, N. 22, England.

CHICAGO 4, ILL. ..... GRANT WILSON, INC.
141 West Jackson Boulevard

NEW YORK, N. Y. ..... CONNELL ASBESTOS MFG. CO.
117 Martense Street,
Brooklyn, 26, New York

SAN FRANCISCO, CALIF. ..... LIPPINCOTT CO., INC.
461 Market Street

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Exports from Canada

(Published by Dominion Bureau of Statistics)

Unmanufactured Asbestos

	First Six Months 1949 (Jan. to June)	
	Tons (2000 lbs.)	Value
Crude		
United States	77	$ 45,300
United Kingdom	51	34,214
Australia	..	..
S. America	..	..
European Countries	19	13,560
Other Countries		
	147	$ 93,074
Milled Fibres		
United States	35,154	$4,157,065
United Kingdom	5,327	552,066
Australia	1,182	144,647
S. America	431	56,407
European Countries	2,984	426,823
Other Countries	973	120,431
	46,051	$5,457,439
Waste, Refuse, Shorts		
United States	93,181	$3,435,795
United Kingdom	1,982	89,327
Australia	30	1,309
S. America	61	2,078
European Countries	4,024	193,089
Other Countries	33	1,239
	$99,311	$3,722.837
Grand Total Unmanufactured Asbestos	**$145,509**	**$9,273,350**

Manufactured Asbestos Goods:

	1st 6 Mos. 1949—Value
Brake Lining	$117,121
Packings	9.521
Other	110,267
	$236,909

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FAMOUS FIRSTS

! CARTONED COVERINGS
! FLEXIBLE BOILER JACKETS
! NON-CANVAS PIPE COVERING
! DUAL LINER WOOLFELT
! IMPROVED CRIMP WOOLFELT

PROVING NORRISTOWN LEADERSHIP IN LOW PRESSURE FIELD

NORRISTOWN
MAGNESIA & ASBESTOS CO.

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Imports into Italy
(From U. S. Mineral Trade Notes)

	First *half* of 1948
From United Kingdom	71 Metric tons
Union of S. Africa	631 Metric tons
Canada	104 Metric tons
United States	83 Metric tons
	889 Metric tons

Exports from Italy
(U. S. Mineral Trade Notes)

	First *half* of 1948
To Austria	280 Metric tons
Luxembourg	319 Metric tons
United Kingdom	21 Metric tons
Switzerland	87 Metric tons
Argentina	100 Metric tons
United States	7 Metric tons
	814 Metric tons

— . . .

Imports of Asbestos
By the United Kingdom

The following figures have reached us thru the courtesy of the Mining Journal, Ltd., of London. These, it will be noted cover imports by the United Kingdom for the first eight months of 1949 (January to August inclusive).[1] We expect to publish the figures for each month in the future.

	January to August 1949 Tons (2240 lbs.)
From Union of S. Africa	10,809
Southern Rhodesia	21,862
Bechuanaland, Basutoland and Swaziland	12,911
Canada	11,248
Other British Countries	1,576
Foreign Countries	654
	59,060

Of this 44,831 tons were of the chrysotile variety, 14,228 tons of other kinds.

[1]See July 1949 "ASBESTOS", (page 36) for similar figures for 1946, 1947 and 1948.

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ASBESTOS FIBRE SHINGLE GRADES

A NEW MODERN ASBESTOS PLANT WITH REVOLUTIONARY EQUIPMENT

Your inquiries are invited.

•

ASBESTOS FIBRES, INC.

Preparation Plant:

33 AVENUE P, NEWARK, N. J.

Main Office:

56 CRITTENDEN ST., NEWARK, N. J.

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NEWS OF THE INDUSTRY

BIRTHDAYS

Harry E. Humphreys, President, United States Rubber Co., New York City, October 24.

A. K. Burgstresser, formerly Vice President of Norristown Magnesia & Asbestos Co., Norristown, Pa. (now retired); October 26.

L. R. Hoff, Consultant, Johns-Manville Corporation, New York City, October 27.

A. L. Wade, President, Asbestos Insulations, Regd., Montreal, P. Q., Canada, October 28.

Geo. L. Abbott, President & General Manager, Garlock Packing Co., Palmyra, N. Y., October 31.

F. E. Byrnes, Vice President and Director, The Ruberiod Co., New York City, October 31.

V. A. Spina, Treasurer, Scandinavia Belting Co., Newark, N. J., November 1.

Ernest S. Sprinkmann, President, Sprinkmann Sons Corp., Milwaukee, Wis., November 3.

Kozaburo Nozawa, President, Nozawa Asbestos Industrial Co., Ltd., Kobe, Japan, November 4.

William P. Barry, General Manager, Smith & Kanzler, Corp., Linden, N. J., November 5.

Charles W. Hanslip, President, Standco Brake Lining Co., Houston, Texas, November 8.

G. M. Righter, Export Manager, Raybestos-Manhattan, Inc., New York City, November 10.

G. A. Rentschler, Chairman of Executive Committee, Philip Carey Mfg. Company, Lockland, Cincinnati, Ohio, November 14.

To all these gentlemen we extend best wishes and congratulations on the occasion of their birthdays.

TURNER & NEWALL LIMITED AND ITS
Raw Asbestos Department — New Address

The Raw Asbestos Department of Turner & Newall Limited formerly located at Rochdale, England, moved its headquarters on October 1st to Asbestos House, 77/79 Fountain St., Manchester 2, where the Registered Office of Turner & Newall Limited is now located. In future therefore all correspondence should be addressed to the Manchester office. Cable address is "Vulbeston" Manchester.

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• BLUE ASBESTOS

The Cape Asbestos Company, Ltd., is the world's largest supplier of acid-resistant blue crocidolite asbestos, and the only manufacturer operating its own mines. Inquiries solicited on:

MILLBOARD **YARNS**
ROVINGS **POWDER** **CLOTHS**
PROCESSED FIBRES

Unexcelled for use in
ASBESTOS CEMENT PIPES

• AMOSITE ASBESTOS

This fibre owing to its great length and bulk is unrivalled for use as an insulating medium in:

Asbestos mattress filler
85% Magnesia Insulation

The CAPE ASBESTOS CO. Limited

Morley House, 28-30 Holborn Viaduct, London, E.C.1.
FACTORY, BARKING, ESSEX

United States Sales Agent:
ARNOLD W. KOEHLER
415 LEXINGTON AVE. **NEW YORK CITY**
TELEPHONE—VANDERBILT 6-1477

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THE FLINTKOTE COMPANY

Wins Awards

In the final ratings of an independent board of judges for the Financial World Annual Report Survey, released on September 15, the Flintkote Company was judged as having the best 1948 annual report of the building materials industry. More than 4500 corporation annual reports were submitted in the survey and these were judged in one hundred industrial classifications for "Best of Industry" awards. The Company won a similar "Best of Industry" award for its 1946 Annual Report.

On September 21st announcement was made at the 32nd Annual Convention of the Direct Mail Advertising Association in Chicago that the 1949 Direct Mail and Sales Promotional Campaign of The Flintkote Company had been selected for a "Best of Industry" tie award with the Celotex Corporation. The Flintkote Company has been a consistent winner of these "Direct Mail Leaders" awards.

L. W. CLARKE MADE

Director of Carey

L. W. Clarke, Vice President in charge of sales, has been made a Director of the Philip Carey Mfg. Company.

Mr. Clarke joined Carey in 1935, having been sales manager of Robert A. Keasbey Co. previously; was made General Sales Manager in 1946, and elected Vice President last April.

CAREY DECLARES DIVIDENDS

The board of directors of the Philip Carey Mfg. Company, Cincinnati 15, Ohio, at its regular quarterly meeting held September 15 at the company's general offices declared quarterly dividends on both preferred and common stocks: $1.25 on Carey 5% preferred stock; 40c on the common stock. Both dividends were payable September 30th to holders of stock of record on September 16th.

ROLAND STARKEY RETIRES

Roland Starkey, C.B.E., who has for many years been Consulting Engineer to the Turner & Newall Mining Companies in Rhodesia and South Africa, has retired from that position and his Assistant, E. G. Harding, has been appointed.

Mr. Starkey retains the position of Chairman of Directors and Technical Adviser to the Turner and Newall Mining Companies.

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ASBESTONE
CORPORATION

Manufacturers
Asbestos-Cement
Building Products

●

CORRUGATED SHEETS
FLAT SHEETS
ROOFING SHINGLES
SIDING SHINGLES

●

Factory and Sales Office

5300 ITCHOUPITOULAS STREET
NEW ORLEANS 15, LA.

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DR. MARTIN S. MAIER TO HEAD PHYSICS SECTION IN U. S. ASBESTOS LAB.

The U. S. Asbestos Division of Raybestos-Manhattan, Inc., has established a Physics Section of their Research and Development Laboratory with Dr. Martin S. Maier in charge.

Dr. Maier received his Ph. D. degree from Ohio State University and was recently employed by Eastman Kodak Co. The Physics Laboratory will conduct basic research relative to asbestos textiles and friction materials.

C. R. DONAGHY — Obituary

Charles Raymond Donaghy, Superintendent of the British Canadian Mine (Asbestos Corporation Limited) died on August 10th.

Mr. Donaghy was born in the Eastern Townships of Quebec in 1883 and first became associated with the asbestos mining industry in its early days at Black Lake, Quebec, when he joined the staff of the Reed Asbestos Mine in 1900. He was on the staff of several other asbestos mining companies before becoming Superintendent of Mining at the Black Lake Asbestos & Chrome Company in 1913.

In 1923 he left Black Lake to become Assistant Superintendent of Cross Brothers Granite Quarries at Northfield, Vermont. He returned to Black Lake in 1937 becoming Superintendent of the British Canadian Mine in 1941, which position he held at the time of his death.

ARTICLE RE: GASKETS
In A. S. T. M. Bulletin

An article by F. C. Thorn, Research Director, The Garlock Packing Co., Palmyra, N. Y., appeared in the September 1949 number of the A. S. T. M. Bulletin under the title "Creep and Relaxation in Compressed Asbestos Gaskets". The article was read at the March 3rd meeting of Subcommittee VI on Packings of A. S. T. M. Committee D-11 on Rubber and Rubber-like Materials and is quite technical in character. The A. S. T. M. Bulletin is published by the American Society for Testing Materials, at 1916 Race St., Philadelphia, Pa.

RUBBER & ASBESTOS CORP. MOVES

Rubber & Asbestos Corporation, manufacturers of rubber cement for asbestos packings, on September 26th moved their general offices and factory to 225 Belleville Avenue, Bloomfield, N. J. Their New Jersey telephone number is Bloomfield 2-1300; their New York number is Rector 2-6121.

They were formerly located at 25 Cornelison Ave., Jersey City.

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ARIZONA ASBESTOS

Widely used for Chemical Manufacture

Also for filtration, electrical insulation, spinning, as mixture with other fibers, and other industrial purposes, etc.

•

Buy direct from the mine.

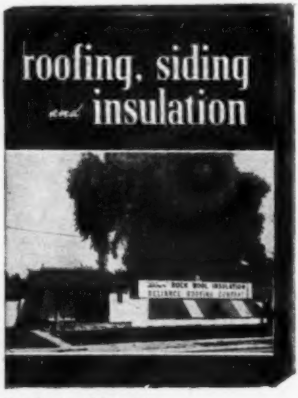
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New York 19, N. Y.

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NEW ASBESTOS-CEMENT FACTORY IN
Portuguese West Africa

Fabricas Ermove S. A. R. L. has built in Benguela, Angola, Portuguese West Africa, a plant for the manufacture of asbestos-cement flat and corrugated sheets and pipes. Machinery for this plant has already been purchased, and when in operation the plant will have an annual capacity of 10,000 tons of flat and corrugated sheets and 5,000 tons of pipes.

ASBESTOS EXHIBIT AT
CHEMICAL INDUSTRIES EXPOSITION

The Arizona Chrysotile Asbestos Company plans an exhibit of various grades of asbestos fibres as a part of the exhibit of the Hercules Filter Corporation (an affiliate) at the Exposition of Chemical Industries to be held at Grand Central Palace in New York City, November 28th to December 3rd.

Last year at a similar exhibit they displayed a large piece of asbestos bearing rock and were kept busy chipping off pieces as souvenirs for interested visitors at their booth.

ASBESTOS FIBRES, INC.,
Doubles Capacity

Asbestos Fibres, Inc. (subsidiary of Sprayed Insulation, Inc., of Newark, N. J.) has leased the building at 501 Straight St., Paterson, N. J. The building contains 22,000 square feet of floor space and has enabled the firm to double their capacity. They have four times as much space as in their former plant at Newark, together with the most modern equipment in the asbestos processing field.

THERMOID AWARDS PLAQUE
TO 10 YEAR DISTRIBUTORS

For those distributors of Thermoid automotive products for 10 years or more, the Thermoid Company recently started a program of awarding bronze service plaques. Fred Schluter, President, personally inaugurated this program when he presented a 30 year service plaque to W. Coakley Thompson, President and Founder of the Motor Supply Co., Inc., of Savannah, Ga., one of Thermoid's leading distributors.

S. A. ASBESTOS TRADING (PTY) LTD.

The present address of this firm is 206/7 Commercial Exchange Building, cor. Frederick & Harrison Streets, Johannesburg. Our August number, page 40, gave a former address. Herman Becker is manager of this company.

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Cable Address "REGALINTER" New York

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THE TWELVE ESTIMATING TABLES

Estimators find the Twelve Estimating Tables (mentioned in our Book list on page 50) very useful in figuring various areas. Some of our readers may not be familiar with these tables, and for those we list below the areas covered. The price of the tables is $1.00 a set.

Sq. Ft. Areas of Pipe Covering.
Mean Sq. Ft. Areas Standard Screwed Fittings.
Mean Area Standard Weight Flanged Fittings.
Standard Weight Flange Areas, Permanent Type.
Standard Weight Flange Areas, Removable Type.
Figuring Hair Felt, 1″, 1½″, 2″.
Anti-Frost Insulation.
Cork Pipe Covering, Outside Area in Sq. Ft.
Ice Water Thick Cork Moulded Fittings Screwed, Outside Area in Sq. Ft.
Brine Thickness Cork Molded Fittings, Screwed, Outside Area in Sq. Ft.
Special Thickness Cork Moulded Fittings, Screwed, Outside Area in Sq. Ft.
Ducts and Flue Perimeters.
The chart gives an easy way to figure Curved Cylindrical Surfaces.

The tables are printed on paper which will wear well under handling. Orders can be filled immediately upon receipt.

EASY REMOVAL OF STEAM PIPE FITTINGS

Here is a method for dimensioning lengths of steam pipes in such a way that they can be removed easily in case of repairs.

It is common practice where a straight steam pipe is installed in an average plant, to make little if any allowance for pipe expansion when under steam. The expansion is permitted to "take care of itself" which often is the cause of creating dangerous stresses in the pipes and auxiliary connections. To take care of these elongations in

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425 Fourth Avenue, New York City

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a place where bends are impractical or are to be avoided as much as possible, the pipe should be made initially short, purposely,—a small fractional part of an inch for every ten feet of pipe length. The longitudinal stresses in the pipe, when cold, are therefore tensional stresses. Hence should it be desired to take out any length of the pipe, a bolted flange pipe can be dropped out with the utmost ease.

Calculations should be made so that when the pipe is under steam pressure the shortage is taken up by expansion. Then there are no longitudinal stresses in the pipe whatever. So, in addition to convenience this method possesses safety advantages of value.

PATENTS

This information obtained from the Official Patent Gazette, published weekly by the U. S. Patent Office, Washington, D. C.

Copies of patents can be obtained by sending 25c (in coin) to The Commissioner of Patents, Washington, D. C., giving the patent number, date it was issued, name of patentee and name of invention.

Process for the Manufacture of Magnesium Oxide. No. 2,480,904. Granted on September 6, 1949 to Robert E. Clarke, Palo Alto and Neil R. Collins, Los Altos, Calif., assignors to Marine Magnesium Products Corp., South San Francisco, Calif. Application June 25, 1946. Serial No. 679,050. Description upon request.

Rolling Device. No. 2,481,021. Granted on September 6 to James Kempthorne, Montclair, N. J. Application April 10, 1946. Serial No. 661,170. Description upon request.

Dryer for Thermal Pipe Insulation. No. 2,481,130. Granted on September 6, 1949 to Ralph L. Lindemuth, Joplin, Mo., assignor to Eagle-Picher Co., Cincinnati, Ohio. Application May 5, 1945. Serial No. 592,228.

COMPLETE PLANTS
for making PRESSURE PIPES and CORRUGATED SHEETS
Plants designed, equipped and started. Short deliveries.
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Cable address: Durite - Trieste

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ACE ASBESTOS MANUFACTURING CO.

Importers, Exporters, Processors of Asbestos Fibres of All Varieties

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Every Use

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CHRYSOTILE
AMOSITE
AMPHIBOLE FIBRES

originating in

U. S. A. (ARIZONA)
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Large Capacity Fiberizing and Grading Plant

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BUILDING

Building and engineering contracts awarded in August in the thirty-seven states east of the Rocky Mountains amounted to $905,748,000, a decrease of 4% from July, and a gain of 6% over August of last year, according to F. W. Dodge Corporation.

Investment commitments for residential building in the eastern states in August amounted to $393,434,000, being 16% higher than July and 17% higher than in August of last year.

BOOK LIST

The Asbestos Factbook, 16 pages. Information in compact form on origin, facts, locations, uses, analyses, qualities, 10c per copy.

Asbestos Mining Methods. By C. V. Smith. (Reprint) 16 pages. 25c per copy.

Milling Asbestos. By J. C. Kelleher. (Reprint) 16 pages. Companion article to Asbestos Mining Methods. Both should be in every Asbestos Library, 25c per copy.

Recovery of Raw Asbestos. By Roland Starkey. (Reprint) 6 pages. Supplement to Milling Asbestos. 25c per copy.

Canadian Chrysotile Asbestos Classification. Including latest Quebec Testing Method. January 1, 1949 Edition. 4 pages. 25c per copy.

Processing Asbestos Fibres. 8 pages. (Reprint) 25c per copy

Tests for Cotton Content. 4 pages (Reprint) Describing several methods of testing asbestos textiles for cotton content. 10c per copy.

Chart—Dollars Cost of Uninsulated Pipe. (Reprint) 20c each

Twelve Estimating Tables, with Chart. Convenient in figuring flange fittings and other areas. $1.00 per set.

Manual of Unit Prices (for figuring pipe covering and blocks) 35c per copy postpaid.

Asbestos: A Magic Mineral, by Lilian Holmes Strack. Written for school children but should be in every Asbestos library. $1.00 per copy.

Asbestos—The Silk of the Mineral Kingdom, by Oliver Bowles. 40 pages about asbestos, from mine to finished product, in plain language, illustrated, 25c a copy.

Order any of the above from "ASBESTOS", 17th Fl., Inquirer Bldg., Philadelphia 30, Pa. Postage stamps acceptable for amounts less than $1.00.

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AFTERTHOUGHTS

¶ Note (on page 24) that production of asbestos in Canada during July was 64,735 tons—evidently back to, and beyond, normal, after the strike, as production in July 1948 was only 56,238 tons.

¶ A few of our foreign subscribers think so well of "ASBESTOS" and the information it gives that they pay the quite considerable extra postage to have it sent to them by airmail each month.

¶ The Asbestos cloth suit has a rival. A recent issue of NEWSWEEK described a fire fighting suit as "14 layers of gleaming white glass fabric, three of aluminum foil and one of nylon. The suit was to be tested in late September or early October, the tester braving a pit filled with burning gasoline and oil. Laboratory tests have shown that the suit can endure 2000 deg. F. for several minutes. So far we have seen nothing in the news concerning the result of the tests.

¶ Mr. G. A. Kimber, Director of James Hardie & Co., Pty., Ltd., of Sydney, Australia, called on us in September, and told us many interesting things about his country, among which was the fact that his Company which has several large asbestos-cement plants, does not manufacture shingles for roofing. In Australia they use terra cotta tile for roofing which is less expensive than asbestos-cement and, they claim, more beautiful.

¶ The final part of Dr. Halstead's article on Brake Linings appears in this issue, beginning on page 3. It is probable that we shall have the article reprinted, in limited quantity. Price to be nominal. If you wish reprints better order at once.

¶ The Fact Finder, published by Hercules Filter Corporation at 204—21st Ave., Paterson, N. J. (August 1949 number) contains an article—It's Safer to Discard Used Filter Mediums".—which mentions several desirable attributes of asbestos filter pads. Write Hercules Filter Corporation on your business letterhead, for a copy of that number if interested.

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CURRENT RANGE OF PRICE

As of October 10, 1949

Canada—	Per Ton (2000 lbs.) f.o.b. Mine
Group No. 1 (Crude No. 1)	$960.00 to $1,050.00
Group No. 2 Crude No. 2; Crude Run-of-Mine and Sundry	400.00 to 550.00
Group No. 3 (Spinning Fibre)	232.00 to 425.00
Group No. 4 (Shingle Fibre)	95.50 to 141.00
Group No. 5 (Paper Fibre)	78.50 to 88.00
Group No. 6 (Waste, Stucco or Plaster)	58.00
Group No. 7 (Refuse or Shorts)	28.00 to 52.00

Vermont—	Per Ton of 2000 lbs. f.o.b. Hyde Park or Morrisville, Vt.
Group No. 4 (Shingle Fibre)	$111.50 to $124.00
Group No. 5 (Paper Fibre)	79.00 to 96.50
Group No. 6 (Waste, Stucco or Plaster)	59.00
Group No. 7 (Refuse or Shorts)	28.50 to 52.50

ASBESTOS STOCK QUOTATIONS

		September 1949		
	Par	Low	High	Last
Armstrong Cork (Com.)	np	46⅞	48¼	48¼
Armstrong Cork (Pfd.)	np	98½	99⅝	98⅝
Armstrong Cork (Conv. Pfd.)	np	108	109¾	109¼
Asb. Corp. (Com.)	np	23	24½	24
Asb. Mfg. Co. (Com.)	1	1⅛	1¼	1¼
Celotex (Com.)	np	15	17⅜	16¾
Celotex (Pfd.)	20	16	17	16⅞
Certainteed (Com.)	1	11⅞	14⅛	14
Flintkote (Com.)	np	25½	27⅝	27⅜
Flintkote (Pfd.)	np	101	104	103
Johns-Manville (Com.)	np	39½	42⅛	42
Johns-Manville (Pfd.)	100	108½	113	113
Paraffine (Com.)	np	18½	19½	19½
Paraffine (Pfd.)	100	102½	103½	103½
Ray-Man (Com.)	np	26	27½	26¾
Ruberoid (Com.)	np	48	53	53
Thermoid (Pfd.)	1	4¾	5¼	5
Thermoid (Pfd.)	50	38	40	39⅞
Union Asb. & Rub. (Com.)	5	11	12⅜	11½
United Asb. (Com.)	1	45c	68c	55c
U. S. Gypsum (Com.)	20	94½	99¾	98½
U. S. Gypsum (Pfd.)	100	182	188	188
U. S. Rubber (Com.)	10	32⅝	35	33⅛
U. S. Rubber (Pfd.)	100	118	125¼	119½

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RESEARCH

Atom bombs . . . radar messages to the moon . . . magnetized ink . . . "flocked" rugs . . . pants that never wrinkle or shine . . . these are just a few of the new products of American research.

Research is now the country's fifth biggest industry, costing more than a billion dollars a year and producing more revolutions per minute than you'd think possible.

At the Raybestos-Manhattan plants research has been a major project for more than 50 years. Today, R/M research is expanding the uses of asbestos and asbestos textiles more rapidly than ever before.

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Factories: Manheim, Pa.; No. Charleston, S. C.

RAYBESTOS-MANHATTAN, INC., Manufacturers of Asbestos Textiles Packings • Mechanical Rubber Products • Abrasive and Diamond Wheels Brake Linings • Brake Blocks • Clutch Facings • Fan Belts • Radiator Hose Rubber Covered Equipment • Powdered Metal Products • Bowling Balls

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SOUTHERN ASBESTOS

TAPE

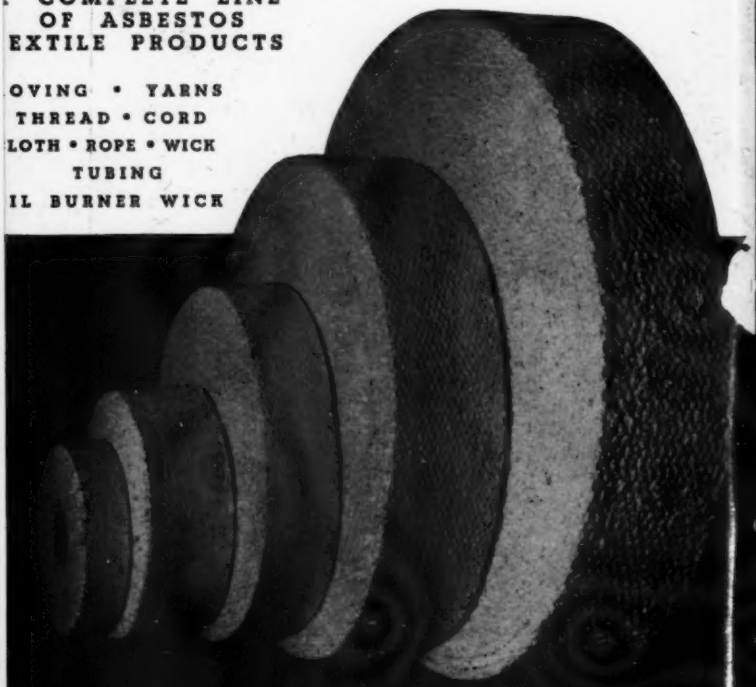
Southern Listing Tapes are flame proof. Flexible, uniform weave, width and thickness assures superior service and insulation. High tensile strength insures efficient application.

Two types—Ferrous for general insulating purposes and Non-Ferrous where a material with very low iron content is essential. Write for illustrated Folder No. 1008.

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