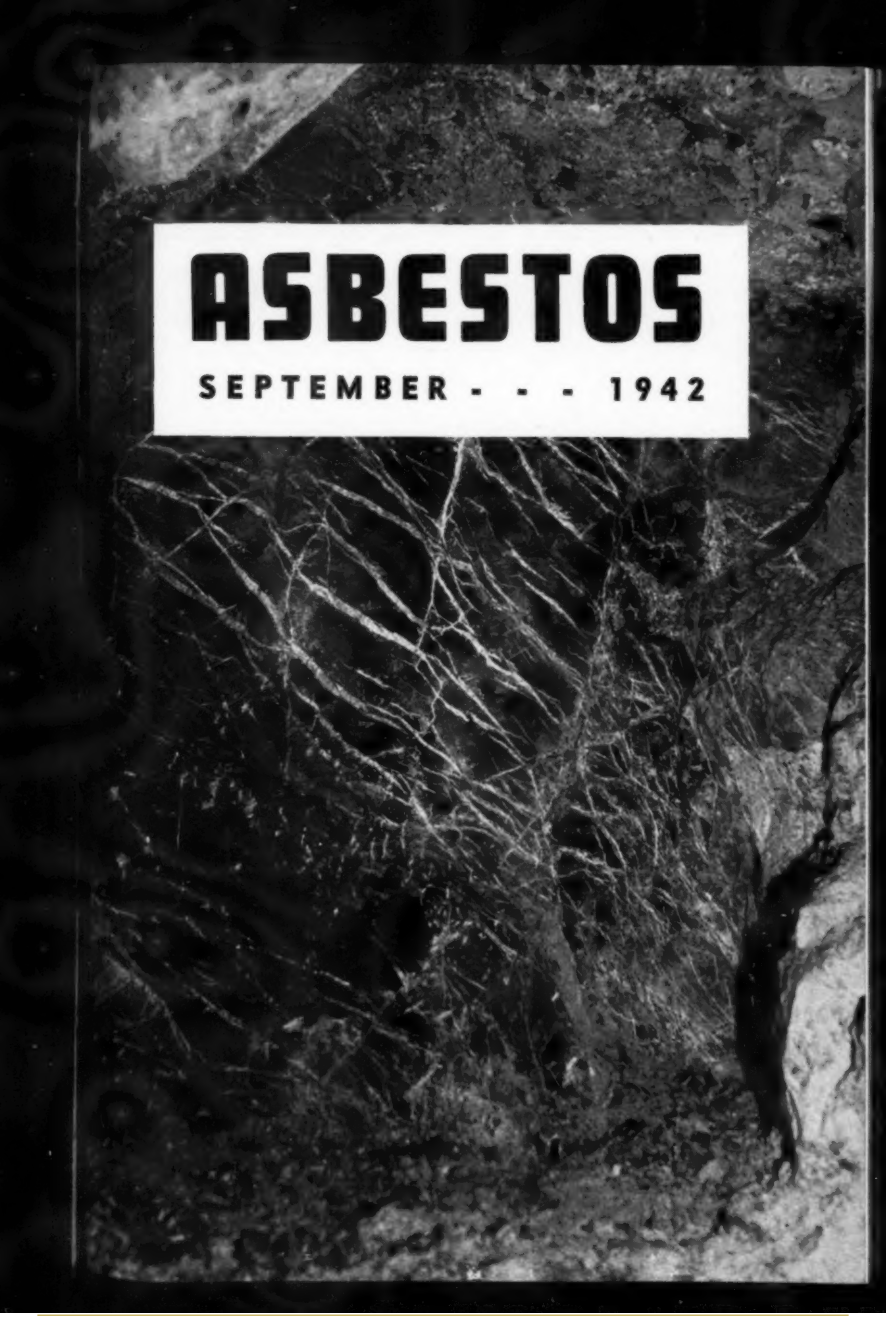


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"ASBESTOS"

FOUNDED IN JULY 1919 AND PUBLISHED
CONTINUOUSLY SINCE THAT DATE

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PLANNING FOR AFTER THE WAR

The ordinary layman has no conception of the vast amount of research work at present being devoted to materials, gadgets and appliances which may have no chance to be introduced to the said layman until after victory has been won, nor of the vast amount of planning for the after-the-war economy.

Many of the war problems, such as substitution of materials, the cutting of costs, transportation headaches, are suggesting a multitude of ideas for post-war products and methods. Materials, and processes which might not have been discovered, invented or put into practice for years, have been developed within a matter of months (in some cases days) by the urgencies of war production and war needs. Dehydration of fruits and vegetables to cut shipping and storage costs, and save shipping and storage space, is one example. Microfilming of records to save space, is another.

And need we mention synthetic rubber! So long as one could get all the natural rubber needed, with no more trouble, figuratively speaking, than writing an order and later a check, synthetic rubber, altho in process of development, certainly was not very important to the man on the street. Now it is vitally important and we are finding ways to get rubber, almost literally out of thin air. The old adage of necessity being the mother of invention certainly holds true in the case of rubber, and of a multitude of other things.

The war production problems at the moment are tremendous, and it is amazing to everyone, either he who stands in the midst of the fray, or he who is more or less on the side-lines, how miraculously they are being solved. Back of them loom the equally apparently unsolvable problems of conversion to peacetime activities after the war is over, but the miracles which have been accomplished in the conversion of plants from peacetime to war materials and equipment, should make the conversion of

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war plants back to peace time manufacture a comparatively

Planning for after the war is not to be taken lightly for a moment; it is being given serious thought, time and energy by the largest concerns and the top executives in the country. Details, of course, may change but the overall plans, the result of keen foresight on the part of our largest industrialists, will act as a guide when the Axis is a thing of the past and airplanes and armaments are required in normal, rather than war quantities.

AUSTRALIAN BULLETIN No. 100

On the Blue Deposits of the Hamersley Ranges

The Geological Survey of Western Australia has just issued their Bulletin No. 100, which contains the latest information available on the Asbestos deposits of the Hamersley Ranges, Western Australia.

This Bulletin apparently supplements Bulletin No. 49 mentioned in our April 1942 number (page 36).

Bulletin No. 100 is in two parts. Part I covers "The Blue Asbestos Bearing Banded Iron Formations of the Hamersley Ranges, Western Australia," by Keith R. Miles, B.Sc. (Hons.) Geologist. Part II treats of "The Blue Asbestos Deposits of the Hamersley Range and Their Economic Importance" and was written by J. S. Foxall, B.E. (Syd.), M.I.E. Aust., Assistant State Mining Engineer.

The report also contains two appendices: The Yampire Gorge Crocidolite Deposits (1937) by F. G. Forman, and Report on the Hamersley Range Blue Asbestos (1938) by J. S. Foxall.

Anyone interested in this report may borrow our copy, or it is probable that a copy could be obtained by addressing the Under Secretary for Mines, Mines Department, Government of Western Australia, Central Government Buildings, Perth, Australia, from whom our copy came.

BUY WAR BONDS AND STAMPS

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THE USES OF ASBESTOS AND ASBESTOS PRODUCTS

In presenting this list of uses of asbestos and asbestos products, we have included only the basic and more important uses—those which consume the largest volume of asbestos (or the product made therefrom) or those which require small quantities of material but perform a very valuable function.

We have not tried to include in this list the end use of every item, that is the place where the asbestos or asbestos product is used, or the purpose for which it is used, except where that place or purpose is most important, or unique. For instance, asbestos blankets are used for fire fighting in hotels, department stores, laundries, dry cleaning establishments, at airplane hangars, by fire departments; the one designation "Asbestos blankets for fire fighting" covers a multitude of what might be regarded as the "Uses of Asbestos Cloth" if the list were carried out to the nth degree.

There are also innumerable uses of asbestos and asbestos products which may be extremely interesting but are unimportant from the viewpoints mentioned. Most of these have been published at some time or other in the 23 volumes (276 numbers) of "ASBESTOS" so far published, and a complete list, so far as is known, is kept on file.

As an illustration, a certain actor's pockets were made of asbestos cloth[1], but we do not consider "asbestos pockets" sufficiently important to include in this printed list.

—:—

USES OF RAW ASBESTOS

Yarn
Thread
Wick packing
Rope packing
Felt
Paper (plain and corrugated)
Rollboard
Millboard
Insulating wire
85% Magnesia pipe covering, blocks and locomotive lagging
High temperature insulation (moulded) (various types)
Compressed sheet packing
Compound for encasing of motor windings

[1]See page 18, Jan. 1930 "ASBESTOS."

(Continued on Page 6)

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- FLAT & CORRUGATED SHEATHINGS
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- ASBESTOS PACKINGS, ETC.
- ASBESTOS CEMENTS, ETC.
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- ASPHALT (ELASTITE) PLANKING
- DIATOMITE POWDERS

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316-322 Youville Square, Montreal, Quebec

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Moulded composition for electrical and other purposes
Moulded brake lining and brake blocks
Automobile bodies and railway sleepers (moulded composition)
Filler in Plastics
Flooring
Pottery and sculpture
Asbestos Cement Products, viz:
- **Shingles, siding, tile**
- **Wall tile and flat sheets**
- **Corrugated roofing and sheathing**
- **Decorative panels**
- **Insulated board**
- **Floor tile backing**
- **Pipes**
- **Miscellaneous articles, such as ventilators, flower pots, louvres, etc.**

Asbestos cement for insulation of boilers
Roofing cement
Furnace cement
Plaster and stucco
Paints, varnishes and fillers
Pottery and sculpture
Sprayed asbestos (acoustical)
Filling for asbestos mattress insulation
Insulation of batteries (loose fibre)
Insulation of walls and floors (loose fibre)
Insulation in underground conduits (loose fibre)
In foundations to resist shock
Packing for explosives or other materials
Wadding in cartridges and timing devices
Filter fibres and filter pads
Platinized asbestos fibre for filtering

USES OF ASBESTOS YARN

Cloth
Tape, electrical and other
Brake lining
Clutch facings
Packing, valve stem, braided and other
Gaskets and gasket cloth
Tubing
Wick for oil burning apparatus
Rope
Twine or sewing thread

(Continued on Page 8)

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(Uses of Asbestos Yarn—Continued)

Stocking for lead cable
Electric fixture wire covering
Electric cable covering
Tying gas mantles
For spark plugs
Edges for hair felting

USES OF ASBESTOS CLOTH

Packing—sheet, high pressure, folded or wound
Brake lining, folded and stitched
Clutch facings
Gaskets
Asbestos insulation mattresses
Substitute for canvas on insulation where temperatures are high
Clothing, viz:
- Suits
- Helmets
- Gloves and mittens
- Aprons
- Leggings
- Berets

Tapestry
Hangings for firestops
Blankets for fire fighting
Blankets in electrolyzer cells
Bags and diaphragms (in oxygen producing)
Mailbags
Awnings
Rugs
Theatre curtains
Theatre scenery
Floor lining in theatres
Portable motion picture booths
Motion picture screen
In acoustical treatment
In acetylene welding
Gun grips
Asbestos faced wipers in commutators
Facing for dryer felt
Filtering (fruit juices, acids, etc.)
Filter in dust collectors
Oil filter sack (in automobiles)
Protectors for gas bags in balloons
Oven insulation

(Continued on Page 10)

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RU-BER-OID OFFERS INDUSTRY CUSTOM-BUILT HEAT INSULATIONS

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RU-BER-OID *Insulation*

For HEATING · COOLING · AIR CONDITIONING

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(Uses of Asbestos Cloth — Continued)

Lining of laboratories and other rooms
Lining in motors
Lining of automobile footboards
Padding for laundry presses and mangles
Padding prison cells
Wrapping oil tanks and oil lines in engines
Umbrellas and shields (protecting firemen)
In various medical test apparatus
Sand bags (for pressing hats)
Conveyor belting

USES OF ASBESTOS FELT

In acoustical work
Protection of underground pipes
On paper machines
Noise insulation
Padding in pianos

USES OF ASBESTOS TAPE

Wick for oil burning apparatus
Belts for conveying hot glass or other articles
Pull strings for ovens
Insulating locomotive steam pipes at bends, etc.
Insulating armatures
Winding coils
Winding buss bars
Insulating underground cables
Laboratory uses, such as insulation for flasks, test tubes, retorts; tie straps in diffusing materials
In glass manufacture for wrapping tines of forks to take bottles from ovens; reinforcing paddles for stirring molten glass

USES OF WICK PACKING

As packing
For wiping of wire, armor plate or galvanized materials

(To be continued in the October number)

—:—

Wisdom is knowing what to do; skill is knowing how to do it; virtue is in doing it well.

BUY WAR BONDS AND STAMPS

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K&M best in asbestos

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ASBESTOS-CEMENT SHINGLES	ASBESTOS-CEMENT SIDING
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ASBESTOS AND MAGNESIA PIPE AND BLOCK INSULATION	ASBESTOS PAPER & MILLBOARD
	ASBESTOS TEXTILES
ASBESTOS PACKINGS	ASBESTOS LUMBER
ASBESTOS CORRUGATED	ASBESTOS ACOUSTICAL MATERIAL

Today, all of these K&M products are playing an important role in the War Program; contributing in many different ways to its ultimate success. For the duration, the Nation will continue to have first call on all K&M plants and employees.

Nature made asbestos. Keasbey & Mattison has made it serve mankind . . . since 1873.

KEASBEY & MATTISON COMPANY, AMBLER, PENNA.

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FIRE PROTECTION

A Service Tale

During 1940 (the latest year for which figures are at present available) there were 685,000 fires in the United States, with an estimated loss in dollars of $300,000,000.

Of these:

79,500 were caused by sparks on roofs.
16,500 from hot ashes and coals.
8,000 from welding torches
15,000 from combustibles near heaters.
7,500 from open lights, flames and sparks.
10,000 from electrical appliances and motors.

Asbestos products might have helped in preventing



The fire destroyed the inflammable roof but the Asbestos-Cement Siding confined it to the one house.

fires from those causes, and altho all of us who read "ASBESTOS" are constantly on the alert (or should be) to see that asbestos materials are used as fire protection, we can especially stress the use of asbestos products of various kinds during the coming Fire Prevention Week which this year will be celebrated from October 4th to 10th, inclusive.

A really good illustration of how asbestos-cement siding can prevent fire from spreading, and, at the same



Thanks to the fireproof siding, even the shrubbery was not injured

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time how the use of an asbestos cement roof might have saved the house, is shown in the photographs.

This particular home was struck by lightning. Its inflammable roof caught fire, but the siding acted as a fire-stop. Because of the asbestos siding, the flames were confined to the house and, we are told, "went straight up." The neighbors were protected, and even the trees and shrubbery were not damaged, as can be seen by the photographs.

The asbestos-cement siding on this home was the Eternit brand manufactured by The Ruberoid Company, who sent us the story and the photographs.

MOISTURE REGAINS OF FIBRES

The following table, taken from the Rayon Textile Monthly, August 1942 issue, records the approximate moisture regains of different fibres as determined at 65% relative humidity and 25 deg. C. (77 deg. F.). It will probably be of interest to the readers of "ASBESTOS" as it shows the regain of asbestos fibres compared with various other fibres.

Fibre	% Regain	Fibre	% Regain
Acetate Rayons	6	Nylon	4
Acetate Rayons, pigment delustered	6	Polystyrene	0
Asbestos	1	Ramie, bleached	6
Casein fibre	13	Rayolanda	10
Celanese FS rayon	9	Silk, degummed	10
Cotton, mercerized	8	Tussah silk	11
Cotton, scoured	6	Tussah silk, bleached	11
Cotopa	3	Vinyon	0
Cuprammonium rayon	11	Viscose, rayon	11
Hemp, bleached	8	Viscose, rayon, pigment delustered	11
Jute, bleached	10	Viscose, rayon, strong	12
Kapok	10	Wool, scoured	14
Linen, bleached	7	Wool, cholorinated	13

BUY WAR BONDS AND STAMPS

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DR. OLIVER BOWLES MADE CHIEF OF HIS DIVISION

Dr. Oliver Bowles, geologist, mining engineer and internationally known authority on non-mentallic minerals, has been named chief of the Nonmetal Economics Division of the Bureau of Mines.

Dr. Bowles, who formerly was assistant chief of the Division, has been with the Bureau of Mines since 1914. He is the author of more than a hundred Bureau of Mines publications, and has contributed hundreds of articles to technical publications in the field of non-metallics. His 500-page book "The Stone Industries" is one of the



Dr. Oliver Bowles,
Chief of the Nonmetal
Economics Division
U. S. Bureau of Mines
Washington, D. C.

most comprehensive volumes written regarding quarrying in the United States and has received widespread circulation.

For many years he has been interested, in connection with his work in the Bureau of Mines, in the subject of asbestos, and, in collaboration with others, has for the past 15 years prepared the Asbestos Chapter of the Minerals Yearbook published by the Bureau. In June 1934 he wrote U. S. Information Circular No. 6790, "Asbestos—Domestic and Foreign Deposits," following this in January 1935 with I. C. No. 6817, "Asbestos—

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3 Pipe support
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General Information'' and in December 1935 with I. C. Circular No. 6869, ''Asbestos—Milling, Marketing and Fabrication.'' In 1937 the information contained in these reports was amplified greatly and published as Bureau of Mines Bulletin No. 403 on Asbestos.

In November 1939, Dr. Bowles lectured in the College of Engineering auditorium at the University of Maryland on the subject ''Asbestos—Silk of the Mineral Kingdom.'' The lecture was given wide publicity. It was illustrated with lantern slides showing mines, quarries and mills and with actual samples of fibres, asbestos-bearing rocks and leading asbestos products. It timed in with the Diamond Jubilee of the Asbestos Industry which was being celebrated at that time.

Prior to joining the Bureau of Mines, Dr. Bowles had gained extensive experience in the field of geology, had carried on geologic field work in the wilds of Northern Ontario, and taught mineralogy and petrography at the University of Michigan and at the University of Minnesota, taking graduate work at both Universities, and had worked for the State Geological Survey of Minnesota.

He joined the Bureau of Mines as a quarry technologist and was assigned to study problems and production methods of the stone industries. Later he was appointed a mineral technologist in the Bureau, and from 1923 to 1928 was supervising engineer of the Nonmetallic Minerals Experiment Station of the Bureau at New Brunswick, N. J.

Dr. Bowles study of asbestos and collection of information on the subject has contributed much to the Asbestos Industry. We know that our readers join us in congratulations on his appointment as Chief of the Nonmetal Economics Division.



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LARGEST MOTOR REPAIR SHOP

Covers Six Acres and Uses 85% Magnesia as Insulation

There has recently been completed for the U. S. Army, the largest motor repair and maintenance shop in the world.

It covers six acres and is so huge that any of the major league baseball parks could be set down inside it with room to spare.

In this giant building, equipped with all the latest automobile repair devices, will be overhauled damaged trucks, tanks, jeeps and other U. S. Army vehicles. The entire plant will serve the northeastern area of the country and will serve as an experiment for other sections of the country, where great army camps are located. If it comes up to expectations the layout will be duplicated at other strategic spots across the country. Close beside it is a huge warehouse, in which are stored spare parts and accessories. This building covers 2½ acres.

Both buildings are heated from a central boiler plant located in one corner of the maintenance shop. This is equipped with four Fitzgibbons boilers, each of 178 horsepower. Steam for the warehouse building is conveyed by underground pipes from the larger building. Insulation consists of 4500 feet of steam piping and 2700 feet of boiler and flue surfaces, installed by Hinman Asbestos Company on a sub-contract. The heating contractor was M. H. Flaherty & Company. The insulation material used is 85% Magnesia, made by the Ehret Magnesia Manufacturing Company.

In addition there are two hot water tanks, each of 1,000 gallons capacity, covered with 300 square feet of Keasbey & Mattison 85% Magnesia Cement.

About 500 trained motor mechanics work in the maintenance shop, under officers, and 160 others are on duty in the warehouse. The boiler room crew, however, is made up of civilians.

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Looks LIKE THE BURMA RAD

It's the Long Winding Road the

Asbestos is a vitally important mineral which Nature has hidden in remote parts of the world. Yet it is so important to industry that no problem of mining or transportation can be permitted to handicap its journey from the mines. For example, a great highway was built over difficult, mountainous terrain, in order to transport the relatively small supply of Arizona asbestos — a supply which meets but a fraction of our country's needs.

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Road the Arizona Asbestos Mines

asbestos from every known source. Overcoming difficulties of geography and the hazards of war-torn sea routes, continuous shipments arrive from Australia, Canada, China, Cyprus and Bolivia; from India, Russia, Rhodesia and South Africa.

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Spotland

ROCHDALE, Lancs., England.

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NO FACE NAILS FOR SIDING

The War Production Board's order of July 22 forbade the use of items made of copper and copper base alloy in building construction, and so eliminated the use of plated bronze face nails usually employed in applying asbestos-cement siding shingles.

Manufacturers of asbestos-cement siding were therefore faced with a problem, one of the first solutions of which is the new asbestos-cement siding shingle developed by Johns-Manville and recently released to its dealers. This new siding shingle, known as the 205-U, requires no face nails at all. The manufacturers claim it is thoroly practicable, and in field tests has been found to be very satisfactory in application. Moreover, the owners of the buildings to which these new shingles have been applied are particularly pleased with the improved appearance because of the absence of face nails.

The new 205-U Asbestos Siding Shingle is a wavy butt shingle, and has been placed on the market only after thoro testing and research, and actual application of the shingles on a large number of re-siding and new jobs. The result leads J-M engineers to believe that this new shingle will not only solve wartime difficulties, but will become a standard item even after the war.

The success of the 205-U encouraged the manufacturers to design a staggered butt shingle and a straight butt shingle, numbered 207-U and 209-U, respectively, neither of which require face nails.

Editor's Note: Readers are asked to advise us of the development of substitutes of all kinds, necessitated by the war program, in the manufacture or installation of asbestos materials. We are willing to devote space every month to information of this kind.



TEST

. . . the added sales volume awaiting you among the nation's roofing and siding contractors. Write to . . .

AMERICAN ROOFER and SIDING CONTRACTOR
425 Fourth Avenue, New York City

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MARKET CONDITIONS

GENERAL BUSINESS

In adjusting itself to the uncompromising economy of total war, American Industry has undergone many changes. It still has to undergo many more. We are rather proud of the miracles of adjustment from a peacetime to a war economy which have been made by our great (and small) manufacturing industries.

The Asbestos Industry is also to be congratulated on its rapid stepping up of production of various items, *indeed almost all items,* to the present tempo. The majority of mills and factories are running to capacity.

ASBESTOS - RAW MATERIAL

The United States Government has allocated $200,000 for a detailed study of potential asbestos deposits in the United States. (See July "ASBESTOS," page 13.) This does not indicate any serious shortage of asbestos, as Canadian mines together with imports from other parts of the world are taking care of our requirements. It does appear, however, that a shortage of spinning fibres will be felt in the near future. Prices on all grades of asbestos are very firm.

ASBESTOS—MANUFACTURED GOODS

Textiles. Demand for asbestos textiles is increasing rather than decreasing. Under those conditions, prices are naturally firm under price ceilings of March, 1942. Every indication is that the Asbestos Textile Industry will run at capacity for an indefinite period.

Brake Lining. Sales for domestic consumption during July increased as well as those for export over the same month last year.

Paper. The Asbestos Paper market is firm, demand good.

Millboard. The same comment can be made on Asbestos Millboard as on paper—prices steady with excellent demand.

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For Use With

Asbestos Board
Mill Board
Transite and
Similar Materials

IN FABRICATING

NON-METALLIC DUCTS

ATLAS ADHESIVE #1770

(Manufacturers of Adhesives #16 - #75, #20 and #1203 for Fastening All Types of Insulation)

ATLAS SUPPLY CO.

4520 HIGH ST.

Manayunk, Phila., Pa.

Insulation. High Pressure. The War Demand continues high and with frozen OP prices manufacturers are pressed to make ends meet, what with wages constantly on the *up, up, up.*

Insulation. Low Pressure. This commodity is much used in cantonment work, and a great deal of this work is coming into the market at the present time. Since, however, defense housing uses mostly warm air furnaces, that market does not very greatly affect the demand for low pressure covering. Prices are firm.

Asbestos - Cement Products. Government requirements continue to dominate the market for asbestos-cement products. Seemingly endless quantities of pipe, corrugated and flat sheets are in demand, while there are many inquiries for asbestos siding.

Sales of asbestos siding for private construction are somewhat hampered by recent restrictions on the

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use of copper alloy face nails, but considerable progress has been made in securing suitable substitutes and there appears to be no danger that the asbestos siding kingdom will be lost for the want of a nail.

The above comments are made by executives in close touch with the respective markets. Opinions are welcomed from all sources.

REPRINTS OF ASBESTOS USES

On page 4 of this issue begins the promised List of Uses of Asbestos and Asbestos Products. The list will be finished in our October number and after that the reprints will be made up and issued.

We have decided, however, to go just a little further and include with the reprint other facts about Asbestos, such as a list of the countries in which it is found and the types found in each country; pertinent facts about asbestos and the Asbestos Industry; perhaps other items. The pamphlet will in fact constitute a brief handbook on Asbestos.

The price of these reprints has been announced as 10c each and that price still stands. Orders for quantities (10 or more) should be sent promptly as on orders received will depend the number of pamphlets printed.

—:—

In the August 15th issue of Mining & Industrial News (published at 381 Bush St., San Francisco, Calif.), is an article "Asbestos in California" by George L. Gary, Mineral Technologist of the California Division of Mines. The title of the article, however, is somewhat misleading as it treats generally of the subject of asbestos without giving any specific information on Californian asbestos.

At the end of the article is a list of "possible buyers" which, putting it mildly, is about the oddest list we have ever had the pleasure of reading.

Writers of articles on asbestos are urged to send their manuscripts to us before publishing, so that errors may be corrected. No charge is made for such service—we are glad to perform it for the sake of accuracy and the cause of publicity on asbestos.

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KEEP YOUR MIND ON YOUR JOB:

The psychological "problem of the hour" in selling, thruout America today, arises from the stupendous events which have occurred in recent months, and which portend future happenings of an extraordinary nature. The customers and prospects want to talk, not about merchandise they need, but about Hitler, national defense, a two-ocean navy, hemisphere solidarity, war. And with most such conversation is anything but conducive to sales.

In his hotel room, after a particularly bad day, a salesman analyzed his time—found he actually had spent 75 per cent of it, when in the presence of prospects, in conversation about the war situation!

He reported to his salesmanager, "A fellow can't sell goods these days—everybody is nuts over war threats!" His manager replied: "Irrespective of Hitler and his campaigns, this company has to go on selling goods. Your job is to meet such problems and overcome them. If you aren't equal to the task, we'll get somebody else."

They were harsh words—so it seemed to the salesman. But he performed a little operation in personal analysis.

The first thing he had to admit was that he was spending far too much of his own time thinking, uselessly, about the plight of the democracies. He decided to spend less time listening to the radio, and reading war news.

That is where control of the present "problem" begins. Let the salesman immunize himself to the infectious near-hysteria which is around him. Let him bring up the subjects of war threats under no circumstances whatever. If customers insist on talking about the war, he can be polite, engaging. But he should be careful to throw no fuel on the conversational fires. He should say nothing to prolong conversation about war. In fact, he should cultivate the knack of easing onto some related subject, of a cheerful nature, over which to pass, as a bridge, to some normal conversation.

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CONTRACTORS AND DISTRIBUTORS PAGE

L-41 Amended

Conservation Order L-41, issued by the WPB on April 9th, stopping non-essential construction, was amended on September 2nd (effective September 7th).

By this Amendment, or perhaps a better term is *revision*, the types of construction have been reclassified. Those of our readers interested in anyway in the construction industry should immediately obtain a copy of this Revised Order L-41, if they have not already received it. Write the Office of War Information, War Production Board, Washington, D. C., not only for a copy of the Order L-41 as amended, but also of WPB Release 1788 which explains the revised order.

The new classes of construction, established by this revision of L-41 with their former and present cost limits, follow:

Type of Construction	Former Limit	Present Limit
Residential	$ 500	$ 200
Multiple residential	500	1,000
Agricultural	1,000	1,000
Industrial	5,000	5,000
Certain types of Commercial[1]	5,000	200
Other types of Commercial[2]	5,000	1,000

[1]Such as buildings designed for use as clubs, lodges, associations, fraternity or sorority houses, auditoriums or assembly halls.

[2]Including highway, sub-surface and utilities construction.

It was explained in the revised order that repair work, on which there is no limit, does not include reconstruction or restoration of construction damaged or destroyed by fire, flood, tornado, earthquake, act of God or the public enemy.

Building

Record-breaking construction volume continued thru July, according to F. W. Dodge Corporation.

Building and engineering contracts awarded last month in the 37 Eastern States amounted to $943,796,000. While this was 21 per cent under the all-time high of June, 1942, it was far larger than any other contract total ever recorded. Compared with the figure for July of last year, $577,392,000, there was an increase of 63 per cent.

Ninety-three per cent of the large July, 1942, total was for publicly owned projects, indicating the extent to which war

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construction has blacked out private work. Industrial building contracts were nearly three times as large as in July, 1941; heavy engineering contracts more than doubled the July, 1941, figures; residential building contracts ran 38 per cent behind the corresponding month of last year.

The cumulative total of construction contracts for the first seven months of this year has amounted to $4,667,521,000, compared with $3,127,354,000 in the corresponding period of 1941, an increase of 49 per cent. This year's seven-month contract total is the largest ever recorded for the first seven months of any year.

—:—

Some of our readers have been confused by the term "Asbestos Workers" used in connection with the wage rates on page 27 of August "ASBESTOS".

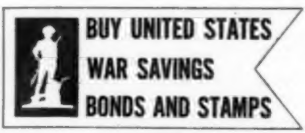
"Asbestos Workers" is the term used by The International Association of Heat and Frost Insulators and Asbestos Workers and means, more specifically "Pipe Coverers". It does not in any way refer to workmen in asbestos textile plants, nor in plants manufacturing asbestos paper or any other asbestos product.

—:—

Do not overlook the brief *Installation Story* on page 18, nor, for that matter the *Service Tale* on page 12. If you know of instances where an asbestos product withstood unusual conditions, tell us about them.

—:—

Short cuts in figuring save your estimators' time. The *Twelve Tables for Estimating* areas of pipe covering, flange areas, hair felt, Anti-Frost insulation, etc. (see July 1942 "ASBESTOS", page 30 for complete list) are available at $1.00 per set. Send your order to "ASBESTOS", 16th Floor, Inquirer Building, Philadelphia, Pa.



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NEWS OF THE INDUSTRY

BIRTHDAYS

Walter G. Benner, Vice President and General Manager, The Nicely Corporation, Philadelphia, Pa., September 17.

W. N. Bolster, President and Treasurer, General Insulation Company, Boston, Mass., September 20.

J. W. Ledeboer, Second Vice President, Keasbey & Mattison Co., Ambler, Pa., September 20.

M. William Bray, Secretary, Mohawk Asbestos Shingles, Inc., Oneida, N. Y., September 25.

C. Stanley Morgan, Detroit, Mich., September 25.

R. H. Temple, Treasurer, Thermoid Company, Trenton, N. J., September 25.

W. J. Moeller, Vice President, Philip Carey Mfg. Co., Cincinnati, O., September 26

E. R. Teubner, Jr., President and Treasurer, Philadelphia Asbestos Co., Philadelphia, Pa., September 26.

O. H. Cilley, Assistant General Manager, U. S. Asbestos Division, Manheim, Pa., September 27.

W. H. Fehrs, Plant Manager, Union Asbestos & Rubber Company, Cicero, Ill., September 28.

J. M. High, The Ruberoid Co., New York City, N. Y., September 28.

O. P. Hennig, President, Hennig Asbestos & Packing Co., Chicago, Ill., October 3.

John H. Victor, President, Victor Mfg. & Gasket Co., Chicago, Ill., October 9.

Russell E. Crawford, Secretary, Ehret Magnesia Mfg. Co., Valley Forge, Pa., October 9.

A. L. Penhale, Sales Manager, Asbestos Corporation Limited, Thetford Mines, P. Q., Canada, October 11.

C. P. Brockway, Vice President, Worldbestos Corp., Paterson, N. J., October 12.

R. Tomlinson, President, Pacific Asbestos Supply Co., Portland, Ore., October 12.

W. W. F. Shepherd, Chairman of Board, Keasbey & Mattison Co., of Ambler, Rochdale, England, October 13.

Thomas D. Stone, President, Stone Industrial Equipment Co., Springfield, Mass., October 14.

R. H. Shainwald, President, Plant Rubber & Asbestos Works, San Francisco, Calif., October 15.

David E. Kelley, President, Kelley Asbestos Products Co., Kansas City, Mo., October 16.

(Continued on Page 32)

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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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(Birthdays — Continued)

Thomas Lehon, Vice President and General Manager, The Lehon Co., Chicago, Ill., October 17.

Wm. F. Reed, President and Treasurer, Asbestos Distributors, Inc., Port Chester, N. Y., October 17.

Congratulations and best wishes are extended to all these gentlemen on the occasion of their birthdays.

—:—

ASBESTOS DISTRIBUTORS, INC., of Port Chester, N. Y., and Bridgeport, Conn., insulation contractors and distributors, representing the Philip Carey Mfg. Co., announce the election of Harry C. Redstone as secretary of the corporation. Mr. Redstone has been associated with the company since its founding in September, 1932.



Harry C. Redstone

The other officers of the corporation are William F. Reed, President and Treasurer, and L. V. Reed, Vice President.

—:—

GEORGE F. STONE. Many of our readers will be interested to know that George F. Stone, who some years ago was General Sales Manager of the Keasbey & Mattison Company, is now Chief of the Asbestos Section, Cork and Asbestos Branch, Materials Division, of the War Production Board (Washington, D. C.).

AN ARTICLE, "Asbestos—Miracle Mineral of The Ancients Doing Lots of War Chores," appeared in the August 29th issue of the Wall Street Journal. The author is Francis M. Bogert, Staff Correspondent of the Journal. Mr. Bogert has written an excellent article, bringing to the attention of the public mind the many interesting facts concerning asbestos.

CLARENCE F. COWAN, of Sonora, Calif., received a prize of $40.00 for an exhibit of Asbestos specimens at the Fair held in connection with the Jumping Frog Jubilee at Angeles Camp. The specimens were from a large deposit of asbestos near Sonora, and is typical California asbestos—chrysotile type, short. The deposit is four miles from railroad and has not been developed to any extent.

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GENERAL INSULATION CO-Round the Clock Service

General Insulation Co., formerly the Asbestos Covering & Textile Co. of Cambridge Mass., is operating a general service practically around the clock, handling calls at night as well as daytimes, Sundays and holidays. Most of the off-hour service is, of course, emergency or hurry-up work, including a large amount at present for the U. S. Navy. Speed is highly developed in this service, often an asbestos gasket being ready for mounting within an hour after the order is received.

The firm is making a specialty of custom-made gaskets in any size, shape or style, as well as standard sizes.

Four of the executives in this company total 125 years in the insulation business: W. N. Bolster, 32 years; William S. Sullivan, 38 years; H. G. Esslen, 36 years, and William J. Anderson, Jr., 21 years.

Thomas Dare, for many years with the Keasbey & Mattison Company, has recently joined the firm. Mr. Dare became associated with the Asbestos Industry in 1905—37 years in the service.

ADVISORY COMMITTEE-Asbestos Textile Industry

In August the WPA announced the formation of the following advisory committee of the Asbestos Textile Industry: Government presiding officer—Fred W. Gardner, chief, cork-asbestos branch. Members: C. H. Carlough, Carolina Asbestos Co., George S. Fabel, Southern Asbestos Co., Robert D. Fox, Asbestos Fibre Spinning Co., G. W. Marshall, Jr., Raybestos-Manhattan, Inc., F. J. Wakem, Johns-Manville Corp., George L. Abbott, The Garlock Packing Company.

JOHNS-MANVILLE-Dedicates Service Flag

A service flag for the 1,792 Johns-Manville men now serving in the armed forces of the United Nations was dedicated by Lewis H. Brown, President of Johns-Manville Corporation, at a ceremony held in New York on August 24 and attended by 800 J-M home office employees.

Of the 1,792 men in service, 1,623 are with the American forces and 169 with the Canadian forces.

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ROBERT H. ANDERSON, JR. - Asbestos Veteran Dies in 65th Year

Robert H. Anderson, Jr.. for many years connected with the Keasbey & Mattison Company at Ambler, Pa., and later with Asbestos Limited, Inc., of New York City, passed away on August 23rd at his home in Ambler, after a long illness.

Mr. Anderson was born in Fort Washington, Pa., attended the Ambler schools and was graduated from the Drexel Institute of Technology.

Practically his first job was with the Keasbey & Mattison Company, where he rose from messenger boy to General Superintendent and Vice President.

Leaving that company about 1934 he became General Superintendent of the factory of Asbestos Limited, Inc., Millington, N. J., holding that position until his death.

Mr. Anderson was President of the Ambler Trust Company for the past fifteen years, a 32nd Degree Mason, member of Fort Washington Lodge, F. and A. M., No. 306, and the Benjamin Franklin Consistory of Philadelphia, and held a membership in the Engineers Club.

He was thoroly familiar with manufacturing practices in the Asbestos Industry, having been connected with the Industry for over forty years.

—:—

UNION OF SOUTH AFRICA is the subject of an article appearing in the August 22, 1942, number of Foreign Commerce Weekly, published by the U. S. Department of Commerce. Harold T. Goldstein, the author, gives in this article a most comprehensive view of the Union and her natural resources, including mention of asbestos.

THE RUBEROID CO. announce the development of an "armored texture" in its line of "Tite-On" asphalt shingles. The "Tite-On" shingle derives its name from the fact that each shingle, in addition to being nailed to the roof deck, is further secured by being locked at four points with the adjacent shingles.

ASBESTOS CORPORATION LIMITED, of Thetford Mines, Canada, Directors have declared the regular quarterly dividend of 20 cents a share, plus a bonus of 10 cents a share, payable September 30 to shareholders of record September 1.

THE INTERNATIONAL ASSOCIATION OF HEAT AND FROST INSULATORS AND ASBESTOS WORKERS held its Sixteenth Annual Convention during the week of September 15th at Hotel Hollenden, Cleveland.

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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 10c (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.

Covering Unit. No. 2,289,298. Granted on July 7 to Paul A. Voigt, Bellerose Manor; Cortlandt F. Ames, Jr., Larchmont, and Walter G. Sullivan, Elmhurst, N. Y., assignors to Johns-Manville Corporation, New York City. Application May 31, 1940. Serial No. 338,184.

A covering unit composed of a hardened, compressed, asbestos-cement composition, said unit comprising a surface to be exposed divided into a plurality of laterally adjacent individual shingle simulating areas, each of said areas having its lateral edge portions at different elevations than the edge portions of the contiguous areas, said edge portions of less elevation being more compressed than contiguous edge portions of greater elevation, the faces of said areas including relatively shallow depressions.

Gasket Construction. No. 2,291,709. Granted on August 4, 1942, to Frederick W. Goetz, Plainfield, N. J. Application October 9, 1940. Serial No. 360,376. Description upon request.

Duct Turn. No. 2,292,246. Granted on August 4, 1942, to Richard B. Steffens, Wyoming, Ohio. Assignor to The Philip Carey Manufacturing Company. Application August 29, 1938. Serial No. 227,247.

A duct turn or vane comprising a multiple angular body with two adjacent plies spaced apart to provide opposite faces and a securing means conforming to the general angular contour of the body and readily inserted between the plies with a portion projecting from one end of the body structure.

Rigid Building Elements. No. 2,292,774. Granted on August 11 to Carlisle K. Roos, Wheaton, Ill., assignor to U. S. Gypsum Company, Chicago, Ill. Application August 31, 1938. Serial No. 227,614.

The process of manufacturing weatherproof and shock absorbing shingles comprising continuously advancing a stream of aligned, closely adjacent rigid asbestos shingles in transverse relation in said stream, slipping a narrow strip of adhesive along one edge of said advancing stream, applying a coating of resilient granular material to said adhesive under pressure, successively inverting said advancing shingles in said stream in a manner to retain their alignment, applying a second narrow strip

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of adhesive to the same set of said stream and applying a coating of resilient granular material to said second strip of adhesive.

Machine for Separating Asbestos Cement Pipes from Mandrels. No. 2,292,866. Granted on August 11, 1942, to John Arthur Cann, Bickley, England, assignor to Turner & Newall, Limited, Spotland, Rochdale, a British Company. Application May 23, 1942. Serial No. 394,911; in Great Britain, June 12, 1940.

In a machine for treating mandrels bearing asbestos cement or like coatings, track means along which coated mandrels can roll, means adjacent a part of said track means for separating a mandrel and its coating and means for intermittently deforming said part of said track means adjacent said separating means so as to reshape said part and transform it from a track means into a supporting cradle for said mandrel and coating.

Pipe Fitting. No. 2,293,392. Granted on August 18, 1942, to Henry Herzog, Cleveland, Ohio. Application September 9, 1940. Serial No. 356,017. Description upon request.

Wall Construction. No. 2,293,743. Granted on August 25, 1942, to William S. Miles, Hastings-on-Hudson, N. Y., and Paul A. Voigt, Bellerose Manor, N. Y., assignors to Johns-Manville, New York. Application November 26, 1940. Serial No. 367,198.

A method of erecting a wall comprising applying sheathing having low nail-holding properties, to spaced supporting members, laying facing elements on the sheathing, driving a headed fastener thru the elements and sheathing to extend a substantial distance therebeyond, applying force to the extending shank of the fastener to draw said elements into tight engagement with said sheathing and simultaneously forcing a locking member against said sheathing and into interlocking engagement with said shank.

Wall Construction and Means for Making. No. 2,293,744. Granted on August 25, 1942, to William S. Miles, Hastings-on-Hudson, N. Y., and Paul A. Voigt, Bellerose Manor, N. Y., assignors to Johns-Manville, New York. Application March 17, 1941. Serial No. 383,688.

A wall assembly including fiber board sheathing and a surface covering of rigid cementitious shingles, and locking clips securing certain of said shingles in said assembly, said clips including a flange extending behind a shingle of a lower course, a shoulder resting upon the upper edge of said shingle of a lower course and a nail receiving aperture defined in part by spring locking lips, nails passing through pre-formed nail holes in said certain shingles and thru said apertures, said lips biting into said nails and retaining them against withdrawal.

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Friction Lining. No. 2,293,914. Granted on August 25, 1942, to William Nanfeldt, Clifton, N. J., assignor to Worldbestos Corporation, Paterson, N. J. Application June 4, 1940. Serial No. 338,696.

A process of making a friction unit comprising placing raw backing materials in a mold, covering the backing with a layer of friction material, compressing the combined layers of friction and backing material cold to a slab having a thickness approximately five times greater than that of the finished unit, placing sheets of cellophane on both sides of said slab, compressing the slab at a pressure above 500 pounds per square inch in a heated mold at a temperature between 250° F. and 320° F. to bring about partial curing and a further reduced thickness, removing the slab from the heated mold after one minute or before the contained resin of the material begins to polymerize, curving the slab over a form, applying pressure to the curved slab without heat, applying pressure of over 1000 pounds per square inch at a temperature above 250° F. for about one-half hour to effect the final cure of the resinous element, forming the final cured slab into units of the desired dimensions and subjecting the units to a backing operation at a temperature in excess of 150° F. for over one hour.

Pipe Joint. No. 2,294,142. Granted on August 25, 1942, to Lionel Alfred Turner, Old Bexley, England, assignor to Keasbey & Mattison Company, Ambler, Pa. Application December 11, 1940. Serial No. 369,576. In Great Britain December 21, 1939.

A pipe joint for pipes made of material consisting essentially of fibrous matter and a hydraulic binder, comprising socket means for receiving an end of at least one of the pipes to be joined, said socket means being composed of the said material and formed with an internal annular recess having at its entrance end first receiving the inserted pipe a substantial radial surface, a peripheral bottom surface of said recess disposed at an angle to said entrance end surface with inward inclination from one end to the other in the direction of insertion of said pipe end, a deformable ring-like gasket divided into an outer portion disposed in said recess and having a peripheral surface with a similar inward inclination and an inner portion connected at an angle to said outer portion connected at an angle to said outer portion and protruding inward from said recess and having an inner face similarly inclined inward toward the axis of the joint, said connected portions being of a radial thickness sufficiently greater than the depth of the said recess so that the incoming pipe end brings the dividing surface of said portions into contact with each other and causes said gasket to be deformed entirely to fill said recess and with the gasket radial thicker at its entrance end, whereby excess outside pressure against said end produces a holding effect on said gasket in said recess.

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TERSE ASBESTOS FACTS

¶ "Asbestos" is not the name of a distinct mineral species, but is a commercial term applied to fibrous varieties of several minerals differing widely in composition, the fibres being diverse in strength, flexibility and consequent usefulness.

¶ The properties of asbestos that give it commercial value are fibrous structure and fire resistance.

¶ Grading of asbestos is on the basis of length rather than quality. Fibres of the same *quality* range in price according to length.

¶ The three varieties of asbestos most used commercially are Chrysotile, Amosite and Crocidolite (blue); the bulk of world production and use, both long and short fibres, is Chrysotile.

¶ The earliest use of asbestos known to the world was over 2,000 years ago by the Romans for the wrapping of their dead.

¶ Canadian Asbestos (chrysotile variety) was first "discovered" near St. Joseph, Que., in 1860; the deposits at Thetford and Coleraine were found in 1877; but, according to the story of Benjamin Franklin's purse[1], asbestos was actually known in Canada, probably by the Indians, as early as 1724.

¶ Blue asbestos was discovered near the Orange River, South Africa, in 1815; the name "crocidolite," meaning "flakey" or "woolly" stone, was applied to it in 1831; exploitation of the material began in 1893.

¶ Amosite (in Central Transvaal) was first known in 1907; the name was given to it in 1918, being taken from the initials of the company most interested in its production—Asbestos Mines of South Africa. Commercial production started in 1916.

¶ Rhodesia first reported production of asbestos (chrysotile variety) in 1908—55 tons.

[1]See March, 1939, "Asbestos," page 2, for this story.

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THIS and THAT

CANADA 1942, The Official Handbook of Present Conditions and Recent Progress, published by the Dominion Bureau of Statistics, Department of Trade and Commerce, Ottawa, Canada, contains much of interest to anyone and everyone. Altho asbestos is mentioned only once or twice, our readers will find that the book gives a very comprehensive description of Canada's natural resources, national policies, government, trade, etc., etc. The price is 10 cents.

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The Chrysler Corporation Airtemp Division is marketing an air conditioning duct under the trade name of Formdux. It is non-metallic (saves metal). The Chrysler Corporation describes it as a hard surfaced board made of a high percentage of short fibre asbestos.

—:—

The A. S. H. & V. E. plans to investigate one of the causes of rust in steam pipes and equipment, the particular phase of the problem to be studied being the process by which carbon dioxide, entering with the steam, becomes dissolved in the condensate. The research work will be carried on in the Chemical Laboratory of the Carnegie Institute of Technology at Pittsburgh, in an apparatus especially designed to represent types of equipment in actual service.

—:—

In August the Censorship Bureau asked us to delete certain patents from that issue. Our list of patents hereafter may therefore be incomplete.

However full record is being made of these and will be available after the war.

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Don't take your freedom for granted—guard it with War Bonds.

—:—

Burns and fires in homes killed 5,500 in 1941.

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CURRENT RANGE OF PRICE

As of September 10, 1942

Canadian—	Per Ton (2000 lbs.) f.o.b. Mine (In U. S. Funds)
Group No. 1 (Crude No. 1)	$650.00 to $750.00
Group No. 2 (Crude No. 2; Crude Run-of-Mine and Sundry)	165.00 to 385.00
Group No. 3 (Spinning or Textile Fibre)	124.00 to 233.50
Group No. 4 (Shingle Fibre)	62.50 to 82.50
Group No. 5 (Paper Fibre)	44.00 to 49.50
Group No. 6 (Waste, Stucco or Plaster)	33.00 to 34.00
Group No. 7 (Refuse or Shorts)	14.50 to 29.50

Vermont—	Per Ton (2000 lbs.) f.o.b. Hyde Park, Vt.
Shingle Fibres	$62.50 to $65.50
Paper Stock Fibres	44.00 to 53.00
Waste	33.00
Shorts	14.50 to 28.50
Floats	19.50

Note: Crude Run-of-Mine (Canadian) refers to a crude asbestos produced in certain mines where Crude Fibre is not graded into regular No. 1 and 2 Crude. Crude Sundry refers to certain odd lots of off grade material which do not conform to the regular standards of No. 1 Crude or No. 2 Crude.

ASBESTOS STOCK QUOTATIONS

(These figures are compiled from the Commercial and Financial Chronicle. No guarantee made as to their correctness.)

		August 1942		
	Par	Low	High	Last
Armstrong Cork Co. (Com.)	np	25	27	25¾
Asbestos Corp. (Com.)	np	16½	17¾	17
Celotex (Com.)	np	6⅛	6¾	6¼
Celotex (Pfd.)	100	69½	71	70¼
Certainteed (Com.)	1	1¾	2⅛	2
Certainteed (Pfd.)	100	25	26¾	25½
Flintkote (Com.)	np	10⅛	11⅝	11¼
Flintkote (Pfd.)	100	90	100¾	100¾
Johns-Manville (Com.)	np	55	58	57⅛
Johns-Manville (Pfd.)	100	125¾	130	126½
Raybestos-Manhattan (Com.)	np	17¼	18⅞	18
Ruberoid (Com.)	np	17	18	18
Thermoid (Com.)	1	3¼	3¾	3¾
Thermoid (Pfd.)	10	30	35	34
U. S. Gypsum (Com.)	20	50¼	52	51
U. S. Gypsum (Pfd.)	100	169	176	172

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EHRET'S VALLEY FORGE PACKINGS

Standardization by EHRET packing experts has produced a line of packings that has been held to a minimum number of items consistent with service, economy and good practice. Dealers and Distributors can materially reduce inventories and, at the same time, maintain stocks to cover a broad range of service requirements.

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EHRET MAGNESIA MANUFACTURING COMPANY

VALLEY FORGE • PENNSYLVANIA

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