ASBESTOS



MARCH 1952

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"ASBESTOS"

FOUNDED IN JULY 1919 AND PUBLISHED
MONTHLY SINCE THAT DATE

BY SECRETARIAL SERVICE
808 WESTERN SAVING FUND BLDG.
S. E. COR. BROAD & CHESTNUT STS.
PHILADELPHIA, 7, PENNSYLVANIA

Estate of C. J. STOVER, *Proprietor*

A. S. ROSSITER, *Editor* E. E. COX, *Circulation Manager*

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PROSPECTIVE ASBESTOS MINES

Ever since "ASBESTOS" was first founded in July 191 there has been a lot of activity in the prospecting end Many asbestos deposits have been opened up and develop ment started, some have grown into real producing mines others have had a tough time, but finally came thru, an of course, many have simply shut down with no result at all. Most of these were located in Africa. But withi the last year or two, or three ever since the shortage i shorts began to be felt the scene has shifted to Canada an work on numerous small deposits has been started. So fa has been the pace, in fact that we cannot keep up wit them. Those which are being developed by old establishe producers or sponsored by good dependable firms in th Asbestos Industry, are almost certain to be successful be cause they have enough capital at their command to carr thru, and, more important, they were probably thoroly investigated before much real development work was done.

We will not mention any of these at the present time altho short news notes have appeared in our pages fro time to time concerning most of them. With the help o others in the Industry, however, we are trying to compil a list of all these deposits and in it include data as to wha is being done or has been done.

There are, we must admit, a few which have confined their efforts to stock selling with no actual development work, and perhaps no real production.

Which are which? We would like to sort them out and the best way it can be done is for each and every likely production project to send us photographs showing the real progress which has been made. The more information we have the better can we tell our readers and others interested which mines are going to be real producers.

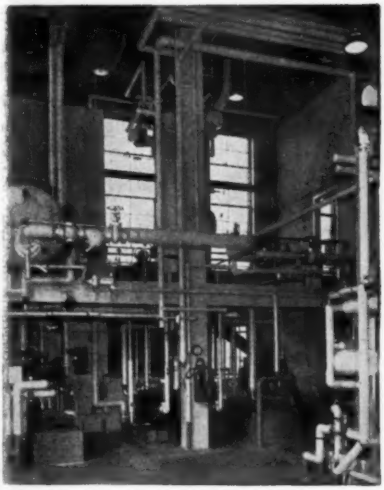
The development of an asbestos mine takes capital. A lot of people outside the Industry think asbestos is simply dug out of the ground, put in bags and shipped, and these people are likely customers for stock selling schemes.

We hope to have some real information soon, compiled in such fashion that it will be recorded and of use later on.

. . . —

That load becomes light which is cheerfully borne.

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For more than 60 years the most efficient and practical insulation up to 600° F.—

"FEATHERWEIGHT"® 85% MAGNESIA

A PROFITABLE INVESTMENT FOR—

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REPORTS OF ASSOCIATION ACTIVITIES

4 Magnesia Insulation Manufacturer's Association

In addition to the three regularly scheduled meetings of The Magnesia Insulation Manufacturers Association held in 1951, the Technical and Publicity Committees met in several extra sessions to review pertinent technical and publicity programs.

At the Eighth Annual Meeting of the Magnesia Insulation Manufacturers Association held January 1952 Ernest Muehleck, President of Keasbey & Mattison Company, was elected Chairman of the Board of Governors together with Alvin M. Ehret, Jr., President of Ehret Magnesia Manufacturing Company, as Vice-Chairman, and W. R. Wilkinson, Vice-President for Sales of the Johns Manville Sales Corporation, as Treasurer. At a meeting in April 1951, the Board employed the services of H. A. Kieselbach as Technical Consultant to the Association.

The officers of the committees of the Magnesia Insulation Manufacturers Association for 1951, who were again appointed to office in 1952, are: R. C. Parlett of Johns Manville Sales Corporation, Chairman of the Technical Committee, and Walter Dodge, Jr., of Kaesbey & Mattison Company, Chairman of the Pubilicity Committee. H. A. Kieselbach of The Magnesia Insulation Manufacturers Association, has served as Chairman of the Joint Technical-Publicity Committee.

In addition to carrying on a full program in the technical and promotional fields, the Association has worked closely with Government agencies concerned with 85% Magnesia and raw material requirements.

One of the important accomplishments of the M. I. M. A. Technical and Publicity Committees was the publication of a specification and brochure for the insulation of heating systems in commercial and institutional buildings. The Publicity Committee has been instrumental in keeping 85% Magnesia before the consuming public by means of articles appearing in magazines, and the publi and trade press. Wide distribution is being given to the M. I. M. A. NEWS, a quarterly publication of the Associa tion which features articles on insulation performance and

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The RUBEROID Co.

ASPHALT AND ASBESTOS BUILDING MATERIALS

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application techniques.

The 85% MAGNESIA INSULATION MANUAL describing the use and methods of installation of 85% Magnesia insulation, has continued in popular demand.

By Marshall F. Allen, Manager.

. . . —

A. S. T. M. SYMPOSIUM ON INSULATING MATERIALS

This symposium was sponsored by ASTM Committee C-16 on Thermal Insulating Materials at the 1951 Spring Meeting of the American Society for Testing Materials.

The five papers and discussions in the symposium provide important data on the components of thermal insulation properties such as specific heat, emissivity, diffusivity, moisture vapor transmission, and the effect of moisture on thermal conductivity, recognized as important factors by the industry.

Following an Introduction by Ray Thomas of the Carbide and Carbon Chemical Co., the papers and their authors are as follows:

Basic concepts of Water Vapor Migration and Their Application to Frame Walls—F. A. Joy, The Pennsylvania State College; Theory of, and Appropriate Methods for Measurement of Surface Emittance—L. P. Herrington, John B. Pierce Laboratory of Hygiene; Methods of Measurement and Application of the Theory of Specific Heat to Thermal Insulating materials—N. H. Spear, John B. Pierce Foundation; Interlaboratory Comparison of Thermal Conductivity Determinations with Guarded Hot Plates—H. E. Robinson and T. W. Watson, National Bureau of Standards; Experiments with a Guarded Hot Plate Thermal Conductivity Set—C. F. Gilbo, Armstrong Cork Co.

Copies of this 64 page book (STP No. 119) can be procured in heavy paper cover from the American Society for Testing Materials, 1916 Race Street, Philadelphia 3, Pa., at $1.50 each.

. . . —

Be not afraid of life. Believe that life is worth living and your belief will help create the fact—William James.

. . . —

A man wrapped up in himself makes a very small bundle.

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MILLING ASBESTOS ORE

By W. E. Sinclair, M. I. M. M.[1]

A critical review of milling practice in different fields, and the modern trend, as influenced by class of fibre and local experience.

Theoretically, asbestos milling appears to be one of the simplest problems of ore-dressing. In practice, however, the efficient extraction of fibre from its parent rock is a somewhat complicated undertaking, due mainly to a variety of difficult ore conditions which cause a great diversity of problems.

The fact that it has taken nearly a hundred years to reach the present stage of extraction of commercial fibre of different kinds from different ores, is a clear indication that the process is not the simple operation it would appear to be, especially when one must admit that in many cases milling is still far from perfect.

It may be interesting at this point, to consider the principal factors that are responsible for introducing difficulties into an apparently simple process. This, after all, consists simply of the comminution of the containing rock to release the fibre in a clean and natural condition with the least possible amount of attrition.

In some cases the parent rock is very hard, and attrition and damage to the fibres are the problems to be overcome. A very soft host rock introduces a different problem because of the presence, usually, of a tale-like gangue or sticky dust which clings to the fibre. It is generally found that most fibre, and the rock in which it occurs, is of the same specific gravity and usually of the same density. These and other physical conditions are characteristic of the different classes of asbestos. This means that there is an entirely different extraction problem in the treatment of chrysotile, crocidolite, amosite or anthophyllite. Indeed it is often possible that the different conditions may occur in any one deposit, which further complicates the issue.

Extraction difficulties are aggravated when the ore being treated contains a high moisture content and special consideration must be given to the average fibre lengths in the ore and how it occurs, that is, as cross-fibre or slip

[1]Consulting Mining Engineer

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Wet volume determination—one of the many tests to assure the high quality of J-M short fibres.

These ASBESTOS "Shorts and Floats" bring improvements and savings to many products

Johns-Manville's improved processing methods eliminate much undesirable material normally found in asbestos shorts. This processing advantage makes the less expensive short fibres a source of product and production benefits. Among these are: improved appearance, greater strength, broader coverage . . . increased resistance to heat, abrasion, impact, cracking and crazing . . . better viscosity control, reduced settling . . . and in plastics, faster moulding with less distortion in drying.

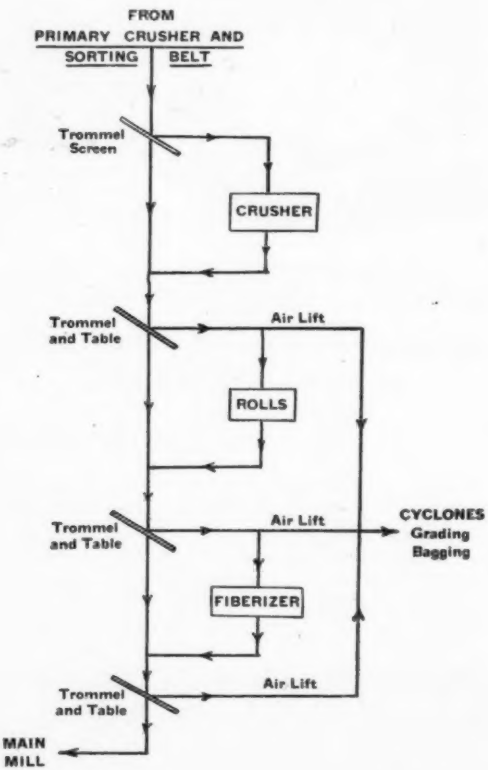
These benefits make J-M asbestos "shorts" and "floats" standard ingredients in paints, plastics, asphalt floor tile, greases, welding rods, auto underbody coatings and a growing list of other products.

For detailed information, including grade recommendations, write for Brochure AFD-4A.

ASBESTOS FIBRE DIVISION
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RECOVERY OF LONG FIBRE SPINNING GRADES
FLOW SHEET OF AUXILIARY PLANT



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fibre and whether it is hard or brittle or wiry, or alternately soft and silky.

Considering the great variance in the conditions mentioned and the not unlikely prevalence of other special local peculiarities in different deposits, it seems quite obvious that no standard conventional or orthodox plant design can be made generally applicable. On the contrary it would appear essential that a different flowsheet is strictly necessary for each ore-body in order to secure the best results, namely, to extract the fibre from the rock in its natural condition and entirely free of dust and grit.

Hand Cobbing

The most satisfactory method of recovering the fibre from its host rock in a natural and clean condition is by gently hammering away the rock from the fibre seam until the asbestos in the seam is released. Any rock particles that still adhere to the fibre are then disintegrated to a powder by further gentle hammering of the fibre bundles on a flat hard surface. This process, known as hand cobbing, results in the production of fibre which has suffered the minimum of fiberization, and in its crudy state, with length and strength fully maintained, is generally very acceptable to manufacturers. This demand for crude unmilled fibre is so strongly stressed in the case of long fibre that in many fields hand cobbing is practiced wherever possible to satisfy market requirements. Needless to say, there are few places remaining today where sufficient cheap labor is available to allow of this ideal method of extraction, and, because of this, many companies have endeavored to design special plants for the recovery of long fibre by mechanical methods as nearly like hand-cobbed fibre as possible.

Hand-cobbing was the first process ever used to recover the fibre from the ore and it has served as a guide in employing mechanical plant for the extraction of the mineral. The process is not peculiar to asbestos but was a means to clean and prepare ore and many other materials by hand for a thousand years before our present highly mechanized age. This practice originally was known as

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HAIR FELT

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Low Temperature Insulation

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Lansdale, Penna.

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"knapping", and as such today is a most valuable process to increase the value of run-of-mine ore prior to milling in small operations where labor is available. It is of particular value where the ore is hard (such as the banded ironstone in the Blue fields in the Transvaal and the Cape}) because it not only reduces attrition in milling considerably, thus preventing excessive damage to the fibres, but it prevents the otherwise heavy wear and tear on the mechanical plant and screens.

In circumstances where labor is scarce and large tonnages are being handled, knapping, like cobbing, must give way to mechanical methods in an endeavor to achieve the same results.

Mechanical Extraction

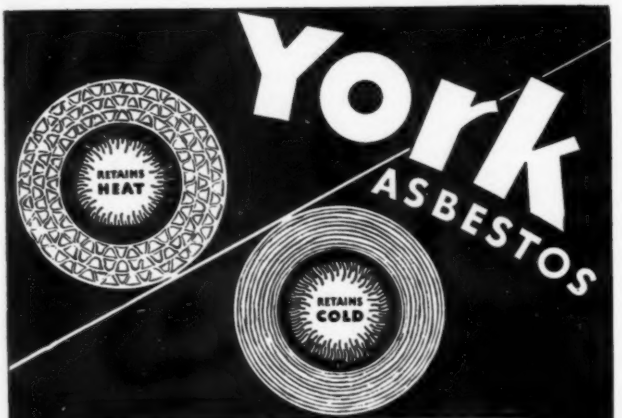
Even if it were possible to secure an adequate supply of cheap labor to produce fibre by manual knapping and hand-cobbing methods, there arises in every asbestos orebody the question of the short fibre grades which obviously cannot be extracted successfully by hand-cobbing. The fibre in this category usually constitutes a high percentage of the total fibre contained in almost every deposit.



Asbestos Mill in the Cape fields.

The first efforts to extract asbestos mechanically from the rock in which it occurred employed a crushing medium, and a process of screening, to separate the fibre from the gangue. These basic processes were successfully employed in many mills, and in fact are still in use under certain conditions, in some plants. Advancing technique in milling methods, however, very soon made use of the obvious fact that most fibre when "fluffed up" or fiberized could be easily removed from the gangue by aspiration.

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BETTER

BECAUSE THEY ARE MADE BETTER

York pipe coverings are manufactured with a white asbestos felt wrapper under the canvas or glazed jacket. The asbestos wrapper keeps the section compact, adds to the efficiency and the strength of the pipe covering and gives the finished job a clean white smooth appearance.

Write for illustrated catalogue sheet.

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Since the fiberizing effect on the asbestos is virtually the only means of creating any practical difference in the specific gravity or density of the crude fibre and the parent rock, it forms the essential basis of most mechanical plants which are designed to recover the fibre released from the encasing rock after crushing.

Unfortunately, the principle of recovery and extraction by aspiration is so satisfactory that the method is employed somewhat promiscuously in some milling plants. These make use of fans and cyclones, mainly to achieve record tonnage outputs with minor regard to the length and quality of the fibre. Suction fans will not pick up



New Rhodesian Mill

now under construction.

heavy crude fibre prills, or, if they do, then grit is also lifted into the cyclone and delivered with the fibre. This accounts for the tendency in some mills to open up the fibres by drastic fiberization which inevitably results in "over-milling" or the conversion of the asbestos fibres into a mass resembling cotton wool, or in the shorter grades a "flat" powdery product completely lacking the springiness of natural asbestos fibres.

Asbestos produced by fiberization and aspiration is classified into standard grades by subjecting a representative sample of 16 ounces to a screening process in what is known as the Canadian Test Box. [1] The violent agitation

[1] See Canadian Chrysotile Asbestos Classification.

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THETFORD MINES

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GREAT BRITAIN:	W. A. JANITCH, 37/38 Coal Exchange Building Lower Thames St., London, E. C. 3
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CLEVELAND, OHIO:	WORLD'S PRODUCTS TRADING CO., 842 Standard Bldg.
CHICAGO, ILL.:	THE STARKIE COMPANY 5461 W. Division St.,
NEW YORK, N. Y.:	WHITTAKER, CLARK & DANIELS, INC., 260 West Broadway
SAN FRANCISCO, CAL.:	L. H. BUTCHER CO., 15th and Vermont Sts.
	CANADA:
MONTREAL, QUE.:	ATLAS ASBESTOS CO., LTD. 5600 Hochelaga St.
TORONTO 1, ONT.	CANADIAN ASBESTOS ONTARIO LTD. 27 Front St., East

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shakes the sample thru a series of three screens at a rate of 300 r.p.m. for two minutes. The screens are set in the bottom of three boxes measuring 24-½" by 14¾" and 3-½" deep. These are super-imposed one above the other and are numbered 1, 2, 3, respectively. A final box at the bottom is numbered 4. The screening consists of Box 1—½" opening wire 0.105"; Box 2—4 mesh, wire 0.063"; Box 3—10 mesh, wire 0.047"; Box 4 is a closed box for fines. After a test, the material remaining on each tray is weighed and the classification for grade is adjudged by the quantity of fibre remaining on each tray. This test undoubtedly serves its purpose in classifying fiberized asbestos where the visual examination of fibre lengths and physical qualities cannot be applied. Unhappily, however, the test box classification tends to encourage excessive fiberization in some mills and in addition in other cases a possible good quality grade is spoiled by having shorter fibres forcibly mixed with the longer asbestos in an attempt to establish a good run-of-mill grade according to Test Box classification.

This position may account for the more persistent interest being shown by manufacturers today for asbestos possessing its natural crudy fibrous properties instead of the ungraded highly fiberized varieties produced to Test Box classification. In short fibre production, however, there is no doubt that, despite the disadvantage of over milling, the Test Box classification does tend to maintain a uniformity more acceptable to manufacturers than a continually changing grade of fibre.

This article will be continued in our next issue and will discuss the first crushing operations.



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

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MARKET CONDITIONS

GENERAL BUSINESS.

General business news continues to reflect a somewhat spotty situation. Financial markets are reflecting the lower trend in corporate profits which, under present tax laws, seems certain to continue. Wholesale prices are very slightly lower as are retail department store sales. The whole situation seems extremely volatile, subject as it is to so many unpredictable factors. Inflationwise things are about at a standstill and will probably remain so until the steel wage-price issue is settled.

ASBESTOS — RAW MATERIAL.

The situation this month parallels very closely that of last month, and demand is still good in all grades down to 6 and the drop off in groups 6 and 7 is not as heavy as was expected after the preshipments due to the price increase.

ASBESTOS — MANUFACTURED GOODS.

Asbestos Textiles. The situation in the asbestos textile market continues about the same as it has been for several months. The demand for all forms of textiles is heavy with emphasis still on the demand for asbestos cloth. It appears that heavy demand will continue to exist thruout 1952 as there is every evidence that our present defense program will extend beyond that time and much of the cloth business particularly is keyed directly to the defense program. Prices are firm with a tendency toward increases when and if increases are approved by OPS.

Brake Lining. The replacement market is holding closely to the 1951 level. It is expected that the 1952 overall replacement market (Industry) will be at least as good as 1951. At present, the outlook for the equipment market is optimistic.

Asbestos Paper and Millboard. There is very little change in the paper and millboard situation. *Saturated Paper.* The demand has slowed up except on government orders.

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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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Insulation. High Pressure. The market for Magnesia is spotty. Industrial processing work predominates, necessitating heavy thickness and large sizes of material. Present demand is not taking complete output but backlog of orders for future shipment makes it desirable to continue producing at high level and accumulate inventory. High demand is expected for the balance of the year but this will depend largely on the availability of steel for piping and industrial construction. The demand for large sizes of insulation is greater than that for small size, due probably to shift from commercial to industrial demand.

Insulation. Low Pressure. The situation on low pressure materials remains steady with fair demand.

Asbestos Cement Products. The market has improved slightly since January 1st in some areas but generally the market on asbestos-cement products is much lower than at the same time last year. Manufacturers' stocks are ample and dealers and distributors seem to be conservative in ordering. The outlook for 1952 is somewhat hazy and it is well to watch operations in this market from day to day. Because of bad weather conditions, especially in the northern section of the country, December and January asbestos cement siding business fell off compared with the same period in 1951. However, we can expect good spring demand and volume in 1952 should approximate the volume for 1951.

There is a continuing demand for Pressure Pipe. Electric Conduits are in steady demand. The market for other pipe still reflects reduced residential construction.

Asphalt Tile. The asphalt tile market is slightly off, but that is to be expected during the winter months. The industry sales for 1952 should about equal that of 1951 volume with approximately 580 million square feet.

The above comments have been made by various informed executives in the Industry. All comments are welcome.

W. E. SINCLAIR, M.I.M.M.
Consulting Mining Engineer
Specializing in asbestos production in
South and East Africa and Rhodesia
P. O. BOX 1183, JOHANNESBURG, S. A.

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To search constantly
for new and better uses
for basic Asbestos,
while maintaining
highest manufacturing standards,
has been the cornerstone
of our policy
for over 68 years.



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PRODUCTION STATISTICS

Canada

(Department of Mines, Province of Quebec)

Tons 2000 lbs.

Production for December 1951	64,060 tons
Compared with December 1950	73,272 tons

Dominion Production for December 1951 is 66,118 tons, a difference of 2,058 tons from the Quebec figure.

By Grades:

	Year 1951	Year 1950
Crude	708	903
Fibre	306,488	295,280
Shorts	638,214	568,642
	945,410	864,825

Africa (Rhodesia)

(Published by Rhodesia Chamber of Mines)

Tons 2000 lbs.

Production for October 1951	7,032.75 tons
Valued at	£541,878
Production for October 1950	6,045.52 tons
Valued at	£389,062

Africa (Swaziland)

Production for December 1951	3,470 tons

Australia — Statistics

(Published by Bureau of Mineral Resources, Geology and Geophysics, Ministry of National Development)

Tons 2240 lbs.

	Quarter ending June 30, 1951
PRODUCTION	
Chrysotile	191 tons
Crocidolite	230 tons
	421 tons
IMPORTS	
Chrysotile	3,926 tons
Crocidolite	1 ton
Amosite	1,310 tons
Other	1,718 tons
	6,955 tons
EXPORTS	
U. S. A.	13 tons
U. K.	22 tons
Other Countries	90 tons
	125 tons

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Carey
ASBESTOS

Since 1873 Carey has been manufacturing products of which asbestos is an integral part.
And Carey research is constantly working to make those products work better and to develop new products which will utilize the outstanding qualities of asbestos.

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Asbestos Corrugated Roofing and Siding
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THE PHILIP CAREY MANUFACTURING CO.
CINCINNATI 15, OHIO

In Canada: The Philip Carey Co., Ltd., 277 Duke Street, Montreal 3, P. Q.

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IMPORTS AND EXPORTS

Imports of Asbestos by United Kingdom

Raw Material

	December 1951 Tons (2240 lbs.)	Year 1951 Tons (2240 lbs.)
From Union of S. Africa	1,399	19,675
Southern Rhodesia	2,014	33,795
Bechuanaland, Basutoland & Swaziland	1,250	14,779
Canada	7,525	51,558
Other Commonwealth Countries and the Irish Republic	208	2,317
Foreign Countries	....	268
	12,396	122,392

Of the December figures 11,309 tons is Chrysotile; of the total for the year 90,863 tons is Chrysotile.

Imports into U.S.A.

(Figures by Bureau of Census)

Unmanufactured Asbestos—By Countries

	November 1951 Tons (2240 lbs.)
From Canada	45,013
Union of S. Africa	3,223
S. Rhodesia	152
U.S.S.R.	304
Australia	64
Bolivia	25
Other Countries	102
	48,883
Valued at	$4,414,206
By Grades:	
Crude, No. 1, Chrysotile, Union of S. Africa	18
Crude, No. 1, Chrysotile, S. Rhodesia	18
Crude, No. 1, Chrysotile, Other Countries	4
Crude, No. 2, Chrysotile, S. Rhodesia	36
Crude, No. 2, Chrysotile, Other Countries	17
Crude, Other, Chrysotile, U.S.S.R.	304
Crude, Other, Chrysotile, Union of S. Africa	502
Crude, Other, Chrysotile, S. Rhodesia	98

Continued on Page 28

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CANADIAN ASBESTOS FIBERS



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**One of the NICOLET Industries*

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Imports into U.S.A. (Continued)

	November 1951 Tons (2240 lbs.)
Crude, Other, Chrysotile, Other Countries	3
Crude, Blue, Bolivia	25
Crude, Blue, Australia	64
Crude, Blue, Union of S. Africa	1,064
Crude, Amosite, Union of S. Africa	1,639
Textile Fibres, Chrysotile, Canada	1,852
Textile Fibres, Chrysotile, Other Countries	42
Shingle Fibres, Chrysotile, Canada	6,348
Paper Fibres, Chrysotile, Canada	5,836
Paper Fibres, Chrysotile, Other Countries	36
Other Fibres, Chrysotile, Canada	30,977
	48,883

Manufactured Asbestos Goods:

	November 1951 Quantity (lbs.)	Value
Asbestos Yarn		
Canada	19,435	$ 16,311
United Kingdom	29,308	18,167
Asbestos Packing—Fabric	1,150	2,475
Asbestos Packing—Not Fabric	3,076	1,629
Asbestos Woven Fabric—Other		
Canada	17,689	20,077
Other Countries	7,398	5,082
Asbestos Brake Lining (Mld.)	111	45
Asbestos Cement Products (Not Impreg.)		
Canada	558,881	31,604
Mexico	401,766	23,590
Italy	613,321	39,521
Asbestos Cement Products (Impreg.)	11,904	1,984
Asbestos Shingles (Not Impreg.)		
Mexico	160,370	10,431
Asbestos Manufactures—Others	....	57
	1,824,409	$170,973

WANTED

Any grade or quantity Asbestos Waste, including wire inserted material.

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CHICAGO 16: 1001 Cottage Grove Avenue
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DALLAS 1: 601 Second Avenue

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DETROIT 21: 14401 Prairie Street
HOUSTON 1: Commerce and Palmer Streets
INDIANAPOLIS: 15 E. Washington Street
JACKSONVILLE 4, FLA.: 800 E. Bay Street
KANSAS CITY 7, MO.: 1401 St. Louis Avenue
LOS ANGELES (Maywood): 6116 Walker Ave.

NEW ORLEANS 16: 315-35 N. Front Street
NEW YORK 17: 331 Madison Avenue
PHILADELPHIA 39: 856 N. 48th Street
ST. LOUIS 9: 3176 Brannon Ave.
SAN FRANCISCO 7: 440 Brannan Street
In Canada: Mundet Cork & Insulation, Ltd. 35 South Avenue, Toronto

Write us for name of our nearest representative if there is no Mundet office in your city.

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Exports from U.S.A.

(Figures by Bureau of Census)

Unmanufactured Asbestos:

	November 1951 Tons (2240 lbs.)	Value
To Europe	309	$ 43,97
S. America	361	99,22
Other Countries	265	57,05
	935	$200,25

Manufactured Asbestos Goods:

	November 1951 Quantity		Value
Asbestos Pipe Covg. & Cement	Lbs.	173,434	$ 20,65
Asbestos Textiles & Yarn	Lbs.	53,857	48,79
Asbestos Packing	Lbs.	192,857	185,37
Asbestos Bk. Lng. (Mld.&S.Mld.)	Lbs.	547,038	524,75
Asbestos Bk. Lng. (Woven)	Lin. Ft	127,989	65,23
Asbestos Clutch Facings	No.	191,686	99,79
Asbestos Brake Blocks	Lbs.	121,405	99,94
Asbestos Construction Materials	Lbs.	3,283,504	253,72
Asbestos Manufacturers—Others			48,06
			$1,343,35

MATERIAL WANTED
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SMITH & KANZLER CO.

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Air Cell

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Established 1920

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Exports from Canada

(Published by Dominion Bureau of Statistics)

Unmanufactured Asbestos

	November 1951	
Crude	Tons (2000 lbs.)	Value
United States	15	$ 11,181
United Kingdom	....	....
South America	....	....
Central America & Mexico	....	....
European Countries	....	....
Other Countries	....	....
	15	$ 11,181
Milled		
United States	14,256	$2,197,396
United Kingdom	2,335	268,447
South America	526	90,017
Central America & Mexico	472	64,755
European Countries	1,950	284,801
Other Countries	2,145	279,357
	21,684	$3,184,773
Shorts		
United States	34,741	$1,618,135
United Kingdom	4,930	246,216
South America	352	28,344
Central America & Mexico	....	....
European Countries	2,866	193,196
Other Countries	1,006	87,975
	43,895	$2,173,866
Grand Total—Unmanufactured Asbestos	65,594	$5,369,820

Manufactured Asbestos Goods:

Brake Lining	$ 63,829
Packing	9,793
Other Materials	57,750
	$ 131,372

ASBESTOS FIBRES

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NEWS OF THE INDUSTRY

BIRTHDAYS

John H. Balch, Vice President, Treasurer and Director, Unio Asbestos & Rubber Co., Chicago, Ill., March 22.

Paul G. Charbonnet, Vice President, Asbestone Corporation, Nev Orleans, La., March 23.

Grady B. Gulledge, President and Director, Apache Asbesto Mines, Inc., and Globe Asbestos Co., Vice President and Di rector, Arizona Chrysotile Co., Globe, Ariz., March 23.

George Barge, Treasurer, Keasbey & Mattison Co., Ambler, Pa March 27.

A. R. Fisher, President, Johns-Manville Corporation, New Yor City, March 27.

J. A. O'Brien, Vice President, Johns-Manville Corporation, Nev York City, March 28.

Lord Elton, Director, The Cape Asbestos Co., London, England March 29.

F. V. S. Smith, Director and Secretary, Hodgson and Hodgson Ltd., Carrington, Nottingham, England, March 29.

W. C. Bowman, District Manager, Philip Carey Mfg. Co., Phila delphia, March 30.

George E. Grimshaw, Adviser on Industrial Insulation, M. W Kellogg, New York City, March 31.

H. F. McFarland, Jr., President, Smith Asbestos Products, Inc. Millington, N. J., April 2.

G. M. Williams, President, Russell Mfg. Co., Middletown, Conn. April 6.

Herbert D. Harris, Asbestos Corporation of America, New York City, April 12.

J. M. Weaver, Textile Research and Development Engineer Raybestos-Manhattan, Inc., Manheim, Pa., April 14.

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

. . . —

H. C. MEARS
Appointed Assistant Sales Manager Carey

H. C. Mears has been appointed Assistant Sales Manager of the Industrial Insulation Department of The Philip Carey Mfg. Company.

Mr. Mears joined Carey in 1944 as Manager of the company's Perth Amboy, N. J. building materials plant. In 1948 he became a sales representative in the Akron, Ohio area, which position he held until his new appointment.

Mr. Mears entered the building materials field as a research chemist for Johns-Manville. Subsequently with U. S. Gypsum he became manager of the research laboratory and later plant superintendent.

A graduate of the University of Iowa, Mr. Mears serves as an alternate on the Technical Committee of the Magnesia Insulation Manufacturers Association. He resides in Cincinnati, Ohio.

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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:

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ROVINGS **POWDER** **CLOTHS**
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THREE PABCO EXECUTIVES CELEBRATE ANNIVERSARIES



R. S. Shainwald *Dozier Finley* *Arthur H. Silverstone*

The first two months of 1952 mark important milestones for three Pabco executives—a fortieth, a fiftieth and a sixtieth anniversary will be celebrated before February has passed.

Richard S. Shainwald, **Chairman of the Board of Pabco Products Inc., joined the company (then the Paraffine Paint Company) in 1892, eight years after its founding, as an accountant. Before long, his ability to obtain financial backing for the growing enterprise was apparent and he became secretary-treasurer; then assistant manager; vice president and general manager; president; and finally chairman of the Board of Directors on which he has served since 1917. Pabco's policy of continuing growth and expansion along related products lines is a reflection of the vision of this pioneer of Western Industry who in February celebrated his Sixtieth Anniversary—sixty years of active service with and for his company!**

Dozier Finley, **now Pabco's research consultant, after graduating from the University of California in 1902, joined the Paraffine Paint Company as an engineer. In those days, the chemical engineer not only had to develop the products but also was required to design the machinery and even the buildings to house the machines. Mr. Finley designed the first reinforced concrete building in the San Francisco Bay area—the Pabco felt mill at Emeryville. This building, still an integral part of the Emeryville plant, withstood the earthquake of 1906 and became the prototype of quake-resisting buildings all over the West Coast. Mr. Finley later became Pabco's director of technical research and today continues his association with Pabco's progress as research consultant. During his career, Mr. Finley has been awarded 47 patents, many of them of prime importance to Pabco.**

Arthur H. Silverstone, **Pabco's director of purchases, joined the company as city salesman in 1912. A year later he came into the office as assistant purchasing agent under W. H. Lowe (now president of Pabco Products Inc.) and in 1917 he was appointed**

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purchasing agent and remained in that responsible position unt 1946 when he was made director of purchases.

Pabco's program of continuing improvement and expansion s dependent on the interest, efforts and loyalty of men such as thes —a mutual effort of men for the company—and of the compan for the welfare of its men. It is a real-life example of America free enterprise!

W. A. RuKEYSER
To Appraise Yugoslav
Asbestos Deposits

Walter A. RuKeyser, internationally-known consultant in min ing and processing asbestos, left for Belgrade on February 23r in answer to a Yugoslav request for technical assistance to ap praise the value and uses of that country's asbestos deposits.

The United Nations Technical Assistance Administration which has appointed Mr. RuKeyser, sent a Quebec Asbestos Test ing Machine to Yugoslavia several months ago. This machine wil be used by Mr. RuKeyser to sort out the quality of asbestos yields No time limit for the mission has been set as yet.

In an interview at United Nations Headquarters, the asbesto expert pointed out that the prices of asbestos fibres range from $4 to $1200 a ton, a principal factor being the fibre length, which other qualities being equal, is also the major factor in determin ing its uses. Long fibres are, for example, needed for spinning it is, therefore, of vital importance to lay out the correct produc tion program in terms of the fibre available.

Mr. RuKeyser pointed out that great changes have taken plac in the asbestos industry during the last ten years. He mentione particularly the increased use of shorter fibres and combining asbestos with cement, in asbestos-cement sheets, pipes, etc. The latter combination gives much greater tensile strength and make it possible to use cement piping in many fields. As a result o these changes, Yugoslavia has asked that Mr. RuKeyser devote th final period of his mission to training Yugoslav technicians.

Mr. RuKeyser maintains offices in New York and has worked or traveled in 61 countries. He has been consulted by the Govern ments of the USSR and Peru and has designed and built asbestos beneficiation (process of extracting pure asbestos) plants in several countries.

He holds a degree in geology from Princeton University and an Engineer of Mines degree from Columbia University. He is a member of the American Institute of Mining and Metallurgy and a fellow of the Royal Meteorological Society, London.

PABCO PRODUCTS, INC.
Fourth Quarter Report

The report of Pabco for the three months ending December 31, 1951, shows Net Sales of $8,362,826 compared with $8,341,81 for the corresponding period in 1950; Net profit for the period was $426,043 compared with $762,539 for 1950, or 26c per share for the 1951 period and 50c per share for 1950, after provisions for Preferred Dividends.

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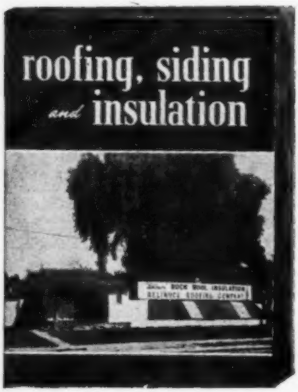
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PRECISION MOLDED
85% MAGNESIA INSULATION
"THE DEPENDABLE STANDARD — MODERNIZED"
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475 Brannan Street, San Francisco 19, California
Engineering Service Units In Principal Cities

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UNARCO — John F. Corcoran
Made Director of Sales

John F. Corcoran has been appointed Director of Sales o Union Asbestos & Rubber Company.

Mr. Corcoran was born in 1915 in New Albany, Pennsylvania After leaving Columbia University he was associated with New York firms engaged in the investment and construction business

In 1940 he joined the American Locomotive Company in New York, was transferred to Washington, D. C. in 1942, and to Atlanta in 1947 as District Sales Manager. In 1948 he was transferred to the Chicago office as Assistant to the Vice-President.

He left the American Locomotive Company in 1950 to open his own office in Washington, D. C. where he has been representing several firms in the railway supply industry including Union Asbestos & Rubber Company, Standard Railway Equipment Manufacturing Company, Spring Packing Corporation, Peerless Equipment Company, Pyle-National Company, Despatch Shops and others.

Mr. Corcoran will be located at the general offices of Union Asbestos & Rubber Company, 332 South Michigan Avenue, Chicago 4, Illinois. In addition to directing the company's sales in other industries, he will be in immediate charge of railroad sales, previously headed by W. H. Fehrs, now Vice-President of the Company's Dromgold & Glenn Division.

ASBESTOS CORPORATION LIMITED
Annual Report—1951

The Annual Report of Asbestos Corporation Limited has just reached us and profit for the year (ending December 31st, 1951), after charging all expenses including taxes, and after making a transfer of $100,000 to the Pension Trust Fund, but before providing for depreciation amounted to $5,101,094.

Operations at the Company's four producing mines, King, Beaver, British Canadian and Vimy Ridge, continued at capacity thruout 1951. The total rock milled, 3,683,000 tons, represented a 10.7% increase over the previous year's figure of 3,327,712 tons. This increease is mainly attributable to operations at the British Canadian Mine which completed its first calendar year of production at its expanded milling rate. Production of asbestos fibre was up 7.6% in volume over last year. This increased production can be attributed to all mines except King where, in order to conserve ore reserves and because of the need to control surface subsidence, the mill feed rate of 130 tons an hour was reduced to 110 tons an hour on June 1st, and maintained at that rate for the balance of the year with a consequent decrease in production.

At the Beaver Mine an experimental unit of a new type of milling equipment known as the Aerofall Mill was installed and placed in operation at the end of the year. In order to assess the efficiency of this new unit large scale comparative tests are being conducted and results so far are said to be encouraging.

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WET MACHINE FELTS

FOR

ASBESTOS CEMENT PRODUCTS

ASBESTOS MILL BOARD

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DRYCOR FELT COMPANY

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F. W. Cocker Dies Suddenly

Frederick W. Cocker, former Secretary of Keasbey & Mattison Company, died suddenly on February 28th. He had been with the Company for more than twenty years; was 61 years old when he passed away, in Abington Hospital. Mr. Cocker retired from the Company in October 1951.

Mr. Cocker was a member of several Masonic organizations and the sons of St. George. He lived in Jenkintown, Pennsylvania.

W. L. Steffens Passes Away

Walter L. Steffens, well known to everyone in the Insulation Industry, passed away on February 7th, after a long illness.

Mr. Steffens was a native of Kansas, was educated in St. Louis and received a degree in Mechanical Engineering at Purdue University. The first two years of his career he spent in the Engineering Department of the Gary Works of the United States Steel Corporation.

He became associated with the Philip Carey Manufacturing Company in 1911 in an engineering capacity, acted as sales manager for several different departments involving asbestos and insulation products, and was elected Vice President and made a Member of the Board of Directors of The Philip Carey Company in February 1931.

On May 28, 1940, he was made Vice President of The Philip Carey Mfg. Company, having been elected to the Board of that Company on March 28, 1938. In addition since 1945 he handled the sales of insulation and asbestos products groups of the Company until his retirement on December 31st, 1951.

Mr. Steffens was recognized as an authority on insulation both in The Philip Carey Company (where he was affectionately and officially introduced as "Mr. Insulation") and thruout the Industry.

Because of his knowledge and close association with the Mellon Institute he assisted in compiling most of the data on insulation which is still in use.

His many friends in the Industry wil greatly regret his passing.

N. D. CUNNINGHAM, ACTING PLANT MANAGER

Carey's Perth Amboy Plant

N. D. Cunningham has been appointed Acting Plant Manager of the Perth Amboy plant of The Philip Carey Mfg. Company.

Mr. Cunningham joined Carey in 1948 as Paper Mill superintendent. Prior to that time he was associated with Globe Roofing Products Company.

A veteran of the Air Force he attended West Virginia University where he majored in engineering.

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ASSOCIAZIONE MINERARIA ITALIAN
Reprints of Article

The Associazione Mineraria Italian has sent us a copy of reprint of the article which appeared in the November issue of L'Industria Mineraria" the Italian Monthly Magazine of Mining ndustry, published under the sponsorship of the Association. It lescribes the Canary Mine (Corsica), whose plants have been lanned by Italian engineers and built with a large support of talian personnel.

We would be glad to lend this reprint to anyone interested. t is printed in Italian.

Stabilimenti Di Amianto & Comma Elastica gia Bender & Martiny Rofole Canavese (Italy)

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They make yarns—rovings—asbestos, cotton and hemp braided packings—bonded asbestos compressed sheet packing for steam, fuel, chemicals, etc.—automobile brake and friction linings—special packings for most modern applications—hemp hose pure and with inner layer—hemp and cotton conveyor beltings—textile driving belts—motor gaskets—rubber goods—etc.

In its eighty-second year, the firm extends to friends and customers the best wishes of ever increasing success.

U. S. BUREAU OF STANDARDS ISSUES NEW PUBLICATION

A new publication has just been issued by the U. S. Bureau of Standards entitled, "Fire Tests of Wood-Framed Walls and Partitions with Asbestos-Cement Facings", by Nolan D. Mitchell, National Bureau of Standards Building Materials and Structures Report 123, iv, 14 pages, 2 tables, 12 figures and half-tone illustrations. A copy can be obtained by sending 15c to the Government Printing Office, Washington 25, D. C.

Fire resistance data on asbestos-cement shingles and wall facings become increasingly significant as the demand grows for low— or moderate— cost constructions. This report provides information derived from recent tests. Such information will aid building authorities and regulatory agencies in evaluating the fire-resistive characteristics of wood-stud walls and partitions having facings of asbestos-cement and will give the prospective builder a basis for the selection of constructions to meet given fire-resistance requirements.

To secure data on the fire-resistance of both interior and exterior facings, asbestos-cement materials were subjected to the tests which are described and illustrated in the NBS report. Re-

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commendations based on the results obtained should prove of value in building construction.

(Note: Foreign remittances must be in U. S. exchange and should include an additional one-third the publication price to cover mailing costs.)

BUILDING

Construction contracts awarded in the 37-states east of the Rockies were off 14 per cent in January compared with January 1951 it has been reported by F. W. Dodge Corporation. The January 1952 figure was $902,091,000 as against $1,043,248,000 in January 1951.

Non-residential awards for the first month of the new year totaled $357,676,000 or 22 per cent less than the $461,016,000 total for January a year ago.

Residential contracts of $337,721,000 were down 20 per cent from the $420,918,000 of January last year.

Public and private works and utilities totaled $206,694,000 which was a gain of 28 per cent over January 1951. That total was $161,314,000.

. . . —

The 1952 British Industries Fair will be held in London and Birmingham, England, May 5th to May 16th, 1952.

Sir Frank Lee, permanent head of the Board of Trade, reported Britain's National Trade Show in 1951 as attracting "the record number of 19,266 overseas visitors".

. . . —

F. R. Hormann & Company, Inc., 17 Stone Street, Newark 4, N. J., have recently issued a catalog H-5 on Filters and Filter Pads. The 20 page book contains a lot of information, including the advantages of the *Horm* asbestos pad filter and pictures of the various filters which they make.

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Tradeway International Corporation
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As of March 10, 1952

	Per Ton (2000 lbs.) f.o.b. Min
Canada—	
Group No. 1 (Crude No. 1)	$1,100.00 to $1,500.0
Group No. 2 Crude No. 2; Crude Run-of-Mine and Sundry	500.00 to 1,000.0
Group No. 3 (Spinning Fibre)	300.00 to 525.0
Group No. 4 (Shingle Fibre)	150.00 to 200.0
Group No. 5 (Paper Fibre)	100.00 to 140.0
Group No. 6 (Waste, Stucco or Plaster)	77.0
Group No. 7 (Refuse or Shorts)	35.00 to 70.0
Vermont— Per Ton of 2000 lbs. f.o.b. Hyde Park or Morrisville Vt	
Group No. 3 (Spinning & Filtering)	321.00 to 348.0
Group No. 4 (Shingle Fibre)	156.00 to 173.0
Group No. 5 (Paper Fibre)	110.00 to 132.0
Group No. 6 (Waste, Stucco or Plaster)	78.0
Group No. 7 (Refuse or Shorts)	37.00 to 68.5

ASBESTOS STOCK QUOTATIONS

(These figures are compiled from the commercial & Financial Chronicle. No guarantee as to their correctness)

		February 1952		
	Par	Low	High	Last
Amer. Br. Shoe (Com)	np	39⅛	40⅞	39⅞
Amer. Br. Shoe (Pfd)	100	104½	106¾	106¼
Armst. Ck. (Com)	np	50¼	56½	51
Armst. Ck. (Pfd)	np	92½	94	94
Ormst. Ck. (Conv. Pfd)	np	111¾	117¼	111¾
Asb. Corp. (Com)	np	23½	27	25¼
Asb. Mfg. Co. (Com)	1	1⅜	1½	1⅜
Carey (Com)	10	17¾	18⅞	17¾
Celotex (Com)	np	17¾	19⅜	17⅞
Celotex (Pfd)	20	16⅛	17¼	17
Certainteed (Com)	1	14½	15¼	15¼
Flintkote (Com)	np	28⅞	30⅞	29½
Flintkote (Pfd)	np	100	101½	101½
Johns-Manville (Com)	np	62¾	69¼	65
Pabco Products (Com)	np	14½	16¼	14¾
Pabco Products (Pfd)	100	95	98½	96
Ray-Man (Com)	np	41	45¼	41
Ruberoid (Com)	np	55¼	57½	56
Thermoid (Com)	1	10¾	12⅛	10⅞
Thermoid (Pfd)	50	46¾	48⅞	47
Union Asb. & Rub. (Com)	5	12⅞	13⅝	13
United Asb. (Com)	1	$3.75	$4.40	$4.20
U. S. Gypsum (Com)	20	101¼	108½	108½
U. S. Gypsum (Pfd)	100	169½	175	172
U. S. Rubber (Com)	10	76¼	82⅞	76¾
U. S. Rubber (Pfd)	100	139	146½	139¾

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BOOK LIST

The Asbestos Factbook, 16 pages: Information in compact form on origin, facts, locations, uses of 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 textile for cotton content. 10c per copy.

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

Brake Linings of Various Types. By R. T. Halstead. Reprint (12 pages) from August, September and October 1949 "ASBESTOS." Price 25c per copy.

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

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

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AFTERTHOUGHTS

¶ In this issue we print the fourth and last report of Association Activities. This one is from the Magnesia Insulation Manufacturers Association. The other three appeared in our February number, and were from the Asbestos Cement Products Association, the Thermal Insulation Society and the Asbestos Textile Institute. All of these associations are doing good work in their respective fields and will be increasingly helpful as the year goes on.

¶ We think you will find Mr. Sinclair's article on "Milling Asbestos Ore" quite informative; this first chapter is a fair indication of the interesting part to come.

¶ A new use for asphalt shingles was reported recently by the National Roofer. Those with granules (small bits of stones on the surface) are recommended. Carry a few in your car and you'll find them handy if you get stuck in snow or on ice. One of the shingles slipped under the wheel will provide traction and very likely get you out of a tight place as they stop the wheel from spinning.

¶ Decorated Gypsum Wallboard has just been added to the extensive line of building products manufactured by Pabco Products Inc. The new board is 3/8" in thickness and comes in sheets four feet wide and in lengths from seven to ten feet. The exposed surface shows a faithful reproduction of fine woods in a choice of three colors—knotty pine, dark walnut and bleached walnut.

¶ If you know one of those stu lents who has aspirations of becoming a great creative engineer — better tell him to start boning up on his geometry.

One of the nation's top-ranking inventors says that ability to solve geometry problems is the best intelligence test for creative engineering ability.

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