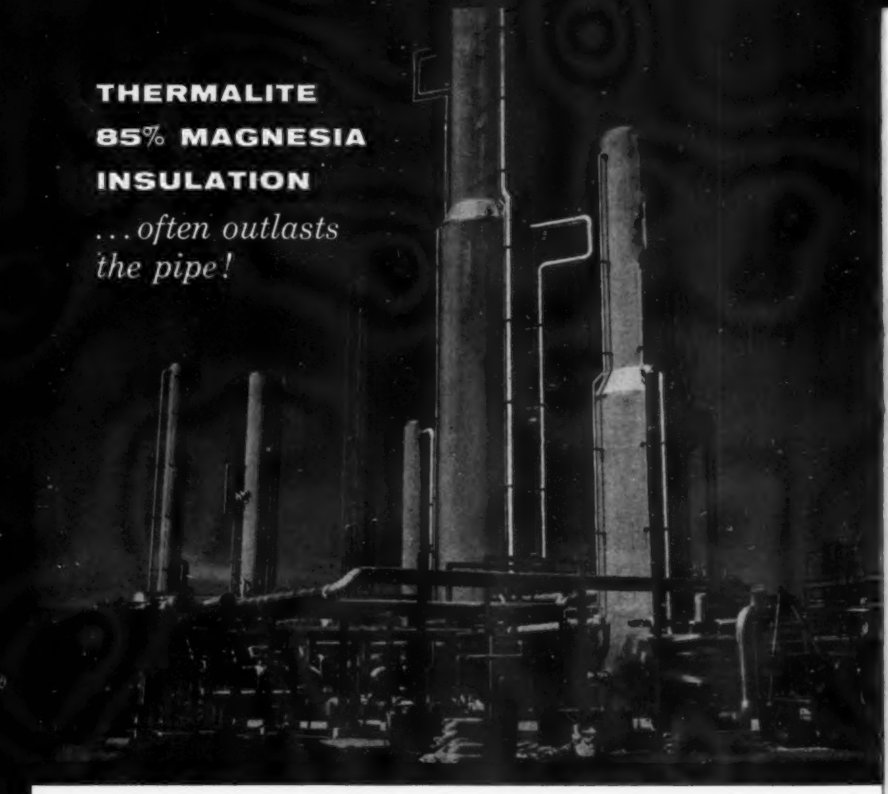
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REPORTS ON ASSOCIATION ACTIVITIES

1. Asbestos Textile Institute

The Asbestos Textile Institute with office and laboratory located at the Philadelphia Textile Institute, Philadelphia, continues to serve the affiliated members of the industry through its many specific committee activities and those projects pursued in the general interest of the industry.

The organization of the Asbestos Textile Institute is directed by the Board of Governors consisting of the following officers and members: J. A. Bettes, Raybestos-Manhattan, Inc., President; J. T. Griffis, Southern Asbestos Company, Vice President; T. C. McCluskey, Tallman-McCluskey Fabrics Company, Treasurer; M. C. Shaw, Secretary & Assistant Treasurer; A. J. Scanlan, American Asbestos Textile Corp.; D. W. Widmayer, Keasbey & Mattison Co.; R. S. Tallman, Tallman-McCluskey Fabrics Co.; and W. S. Hough, Johns-Manville Corporation. Dr. M. C. Shaw serves the Institute as Director of Research.

Much of the work of the Institute is carried out through the functioning of four committees each of which is interested in a separate phase of asbestos textile manufacturing and marketing.

The Air Hygiene and Manufacturing Committee under the chairmanship of A. E. May, Keasbey & Mattison Company, is continually engaged in important considera tions related to hygiene and safety problems, dust control and in the improvement of manufacturing methods and efficiencies. This committee has contributed much of value to the industry as it has served the membership through the years and a continuation of this valued service in anticipated.

The Sales Promotion Committee under the chairmanship of J. A. Brown, Jr., Raybestos-Manhattan, Inc., is continually engaged in efforts to promote and extend the usage of asbestos textiles and is ever investigating and applying the materials of our industry to new applications. Efforts to improve quality and serviceability of the products of our industry are being made continually and with the cooperation of the Technical Committee and the

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Research Fellow, great strides in these endeavors have been made in recent years.

The Technical Committee under the chairmanship of Edward Beale, Johns-Manville Corp., is engaged in an extensive program of endeavors designed to improve both the quality of the raw materials used by our industry as well as the products produced by our manufacturers. The consideration of asbestos textile materials as they may be applied in the newer atomic energy and air craft industries developments is of prime interest to this group at this time.

The Fibre Committee under the chairmanship of J. A. D. Marcotte, Asbestos Corporation, Ltd., is concerned with those problems directly related to the fibres consumed by our industry. Economic considerations as to the availability of the raw materials of our industry are of concern to this group as are problems concerning the grading and quality of the fibres being supplied. Although this is a relatively new group only recently established by President Bettes, several important actions have already been pursued and many problems of interest to the industry will be undertaken.

The Fellowship laboratory under the direction of Dr. M. C. Shaw serves all of the committees in their many investigations and provides technical assistance whenever necessary. In addition, there is conducted by the Fellowship an extensive research program as established by a special committee of the Institute charged with the responsibility of maintaning an up-to-date and practical program constantly in effect.

The activities of the Asbestos Textile Institute are continually expanding and the efforts exerted through the participation of the membership in the programs encompassed by the several specialized sections of the organization serve to provide the industry with an ever-increasing fund of knowledge regarding the products of the industry. With this increased understanding it is felt that the industry will be in a position to continue to expand and to meet the demand for the new and improved materials which will be required by the engineers of the future.

Dr. Myril C. Shaw, Secretary

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2. Thermal Insulation Society

The Thermal Insulation Society of Charleston held eight meetings in the year of 1957. The program for each of these meetings were as follows:

January—Insulation's Place in Fire Safety
by A. P. Dunlap, Union Carbide Chemicals Company.

February—New Developments in Cellular Insulatiin
by Jack Binder, E. J. Havlick, Pittsburgh-Corning Corporation

March—Properties and Uses of Styrofoam
by Hilton Hunter, Dow Chemicals Co. and R. J. Feagans, Seward Sales Corp.

April—Properties and Uses of Thermon
by R. L. Burdick, Thermon Mfg. Co.

May—Today's Trend in Insulation Mastics
by J. M. Veneable, Vimasco Corp.

September—Dinner-Dance
Social Meeting

October—Engineering Discussion of Glass Fibre Insulation,
by George H. Neptune, Gustin Bacon Mfg. Company

November—Use of Aluinum as Jacketing
by Al Drummon, Aljor Corp.

The officers elected for the Charleston Chapter for 1957-1958 are as follows:

President—R. E. Estep, Union Carbide Chemicals Co.

Vice President—W. R. Lickert, Asbestos and Insulating Co.

Secretary—W. H. Onks, Union Carbide Chemicals Co.

Treasurer—E. I. DuPont de Nemours Co.

Members at Large: J. C. McClarin, Union Carbide Chemicals Co.
J. M. Venable, Vimasco Corporation
Kermit Burges, E. I. DuPont de Nemours Co.

W. C. Turner, President

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The Philadelphia Chapter of the Thermal Insulation Society holds its regular meetings the second Tuesday of each month, September through May. Meetings are held at the Engineers Club, 1317 Spruce St., Phila., Pa.

The officers for 1957-1958 are as follows:

President—Harold L. Pickel, Benjamin Foster Co.
V. President—Charles A. Brown, Owens-Corning Fiberglas Corp.
Secretary—William C. Foster, Mundet Cork Corp.
Treasurer—Samuel Gass, Achenmah & Butler, Inc.

The high lights of the past programs were interesting speeches and films by Bob Sturgis, of Socony-Mobil Oil Co., James H. Layton, Jr., of Pittsburgh-Corning Co., and Jim Trexel of E. I. duPont de Nemours & Co.

New activities for 1958:

January—Joint Meeting with American Society of Heating and Air Conditionng Engineers
February—Annual Dinner Meeting
March—Joint Meeting with Society of Naval Architects and Marine Engineers
April—Film and talk on Cold Storage Insulation and Related New Products, by Mundet Cork Corp.
May—Final Meeting, election of officers and presentation of Jack High Award

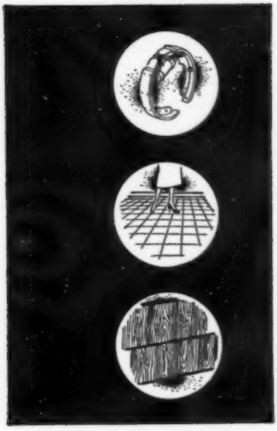
William C. Foster, Secy.

A joint meeting of the Thermal Insulation Society and the Philadelphia Chapter of the Thermal Insulation Society was held at the Engineers Club, Philadelphia, on February 5, 1957. Mr. Tom Payne, President of the Philadelphia Chapter, presided jointly with Mr. W. H. Zane, the National President of the Society.

The Nominating Committee presented its slate of candidates for election and the following officers were elected:

President—W. C. Turner
1st Vice President—E. C. Shuman
2nd Vice President—H. Porter
Secretary—J. M. Bowes
Treasurer—W. A. Michalsky
Board of Directors:
Past President—W. H. Zane
Past President—R. Thomas

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Houston—L. Endicot
Charleston—W. R. Lickert
Philadelphia—H. L. Pickel

The second meeting of the year was held October 8, 1957 in Convention Hall at the Chateau Laurier Hotel, Ottawa, Ontario, Canda. Here it was decided that a limited number of Associate Members would be admitted into the Society.

Emphasis was also placed on the part the Society can play in thermal insulation work. It is particularly important in the wide division between the strictly technical specififcation end of thermal insulation and its application in the field.

J. M. Bowes, Secretary

3. Asbestos-Cement Products Association

During 1957 the Asbestos-Cement Products Association put major emphasis on its expanding program for product promotion. Under the direction of its Public Relations Committee, of which Harold D. McAneny is Chairman, Ruder & Finn, our Public Relations Counsel, have used many media to tell the story of asbestos products to the trade and the public.

In siding publicity, the great stress has been placed on application over fibreboard shingle backer which provides additional insulation, a cushion under the siding units, and a heavy shadow effect which gives emphasis to horizontal lines on contemporary homes.

The Sales Engineering Committee, under the Chairmanship of E. C. Cerny, completed the third of its Manuals on application techniques for asbestos products. These are now available in separate printed booklets covering the appication of Siding Units, Roof Shingles and Flat Sheets.

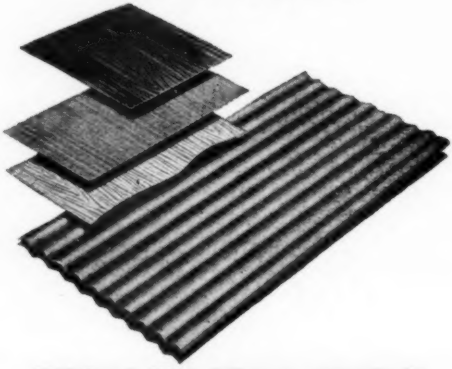
With cooperation and technical assistance from the National Paint, Varnish and Lacquer Association, a special task group under Miles V. Engelbach has completed the text for a new booklet on the various systems for painting asbestos-cement products. This pamphlet will be published early in 1958 under the auspices of both associations.

The increasing demand for lightweight corrugated sheets made it essential that physical specifications be

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adopted for this relatively new material. Carlo M. Weber and the members of the Corrugated and Panel Committee have suggested values for lightweight and standard corrugated sheets so that architects will be able to specify the correct types for various jobs.

Among the other committee activities should be included the work of the Technical Committee in the development of test methods for the evaluation of portland cement. Chairman P. S. Bettoli reports that current testing in member company laboratories indicates the validity of the proposed method, and it is expected that the procedures will be made available to those interested before the end of 1958.

The Chairman of the other active committees are: R. M. Penman, Government Committee; K. F. Netter, Manufacturing Committee; and A. J. Wallner, Traffic Committee.

The Association celebrated its twentieth anniversary at its annual meeting at White Sulphur Springs in June. Officers elected for 1957 and 1958 were R. J. Tobin, Atantic Asphalt & Asbestos, Inc., President; John W. Brown, National Gypsum Company, Vice President; H. H. Whittemore, The Flintkote Company, Treasurer; and Chester C. Kelsey, Secretary and Manager.

Chester C. Kelsey, Secy.

"ASBESTOLUX" — FIREPROOF INSULATION BOARD

Cape Asbestos Building Products Limited, one of the Cape Asbestos group of companies, recently issued a very attractive Bulletin (J-850) on Asbestolux.

The Bulletin contains information of uses, special information for architects, notes for contractors and photographs.

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THE SHOWER VACUUM CLEANING SYSTEM FOR ASBESTOS-CEMENT MACHINE FELTS

By P. T. Gates (Albany Felt Co.)

In view of the rapid trend toward higher felt speed and faster production on the asbestos-cement machines, we believe the time has come for the industry to take a good look at its felt cleaning arrangement. It is clear that the present shower-whipper combination, inherited from the cylinder board machines, was never designed to remove cement from a felt. To be sure, there are still some slow speed machines which pick up a light sheet from the cylinders and run the felts fairly slack. On these, it is possible to keep the felt clean enough with showers and a whipper so that it wears out before it fills up too much for proper operation. But this is a questionable argument in defense of that cleaning system since, obviously, the dirtier a felt is the faster it wears out. It is just a question of which happens first — wear-out or fill-up.

On the heavy pulling machines, picking up heavy laminations and running at higher felt speeds, it is a different story. On these, the showers and whipper combination simply cannot do a satisfactory job. More stock is being forced into the felt by the higher vacuum pressure and yet the felt is passing through the cleaning area faster. Added to this is the fact that in order to meet these increasingly difficult operating conditions, the "felt makers" must constantly build greater strength and more abrasion resistance into the felts.

These changes are not conducive to faster drainage or easier cleaning. The asbestos-cement industry has done much to keep up with the drainage problem with higher vacuums and increased vacuum area. But it has done little or nothing about improving the felt cleaning facilities.

Increasing shower pressure does very little good. A different and much more drastic system is required and we at Albany Felt feel that we are moving in the right direction with our suggested "shower-vacuum" cleaning arrangement described later in this article.

First, though, let us take a look at the problem as it

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affects felt. The stock which the felt picks up from the cylinders is somewhat slimy and the cement is "green" — that is, the chemical action of setting probably has not yet started and certainly has not progressed far. As the sheet passes under the couches and over the vacuum boxes, water is squeezed or drawn out of it into the felt. The water carries with it particles of the inert as well as the active stock materials. At the nip of the accumulator and drive rolls this material is pressed into the structure of the felt with great force.

Except for the cement, it is possible the shower-whipper combination could wash out or shake loose enough of the foreign material to keep the felt from filling up too rapidly. But the cement changes the picture radically. When it is hydrated, a complicated series of chemical reactions commence. These continue through the curing and setting process. Some of these reactions take place rapidly in the body of the felt while it is running, forming solid compounds which are insoluble in water and can only be broken down and removed by acid.

A microscopic examination of a cross section of a filled-up asbestos-cement felt shows a pretty clear picture of what has happened. The fibres of the felt are covered with a deposit made up primarily of calcium carbonate. Other deposits have formed on these nodular clusters. These, in turn, have caught and held particles of asbestos fibre and other inert material from the stock. The density of this build-up increases markedly from the outer surfaces toward the center of the felt section. At this point, the felt is so plugged up that the vacuum boxes cannot draw enough water through it to properly dry the sheet.

It is interesting to note that the fibres on both surfaces of the felt are usually clean. The difficulty is that the shower water loses its force before it has penetrated the felt very far and therefore cannot dislodge the deposits of carbonate which form in the body of the felt.

Here, then, is the problem. How can most of this foreign material, especially the cement, be washed out of the felt while it is still "fresh", in the few seconds it is passing through the cleaning area? One thing is certain. Any material which does not come out on the first pass, will

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surely not come out on subsequent passes.

Now let us take a look at the standard shower-whipper combination to see what it is supposed to accomplish. Properly arranged, the first shower hits the felt from the inside, slightly before the whipper. This is supposed to drive most of the dirt out of the felt and saturate the felt with water. The whipper then beats or vibrates the felt to shake out more water which should carry with it more dirt. Finally, the outside shower washes off the face of the felt.

The weakness of this system is that the inside shower does not do its job. The water is supposed to spray through the felt and take the dirt out with it. Actually, even at high pressure, it can scarcely penetrate a felt that has begun to dirty up. Instead, it just washes the surface and 90% of the water ineffectively runs down the inside of the felt and off at the edges. The only water that goes through the felt is what the whipper can beat or vibrate through it. The rest is wasted.

Obviously, the real cleaning must be done by the water. To do so, the water must pass through the felt with force. That is the principle on which our suggested "shower vacuum" system is based. It is a radical change from the present cleaning method. It is drastic and it is effective. We know this from reports received from a number of mills where the system has been installed. All have experienced a substantial improvement in felt performance. We are, therefore, glad to have this opportunity to pass on the details to the rest of the industry.

The principle involved is not new but the arrangement is somewhat novel and certainly simple. Its details are as follows:

A vacuum box with two or three rolls or bars is installed against the face of the felt at a point after the felt leaves the drive roll and preferably before it reaches the first idler roll. A fish-tail shower is then installed on the inside of the felt directly over the slot between the first two rolls or bars of this vacuum box. This shower should be oscillated to avoid streaking the felt. It can be of medium pressure, say 60 to 80 pounds, but it should be capable of fairly high volume. When properly adjusted,

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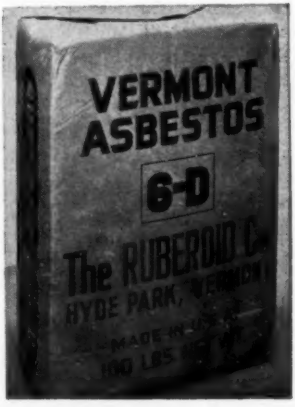
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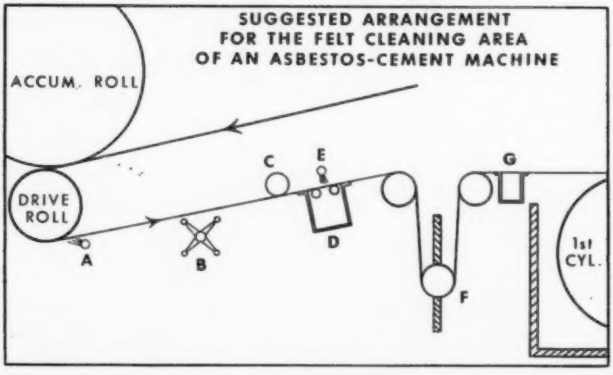
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all of this cleaning water is forced through the feet by the combination of shower pressure above and vacuum below.

So much for the basic principle of the system. To work effectively, however, certain other equipment must be added. In order to remove surface dirt—particles of stock or laminations which stick to the face of the felt—and to prevent such material from reaching the whipper or leading edge of the suction box, a "slicing" shower should be placed under the felt near the point where the felt leaves the drive roll. This again should be a fish-tail shower of fairly high pressure but low volume, placed at such an angle as to wash the face of the felt without driving the dirt back into it. This, though, does not have to be oscillated.

The vacuum box should be of good depth. This is necessary in order to take care of the amount of dirt and water which will come out of the felt. It has also been found advisable to run this box on its own pump and separator tank, otherwise it will tend to over load the regular vacuum system.

There are of course many different arrangements of this cleaning system, depending on the set-up of the machine to which it must be adapted. That shown in the chart below is perhaps the simplest.



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HAIR FELT

FOR

Low Temperature Insulation

Newark Hair Felt Co.

1000 Maple Avenue

Lansdale, Penna.

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"A" is the slicing shower. "B" is the whipper set to vibrate the felt. In many cases the whipper is not used except during a cleanup. "C" is an idler roll, needed only if the whipper is running, to hold the seal at the vacuum box. "D" is the deep vacuum box. "E" is the oscillating shower. "F" is the jack or pull-out roll. "G" is a vacuum pipe or box to take the place of wringer roll and to dry the felt before it reaches the first cylinder.

This suggested shower-vacuum installation, at first glance, may seem too radical and expensive, but it does an effective job. All of the water from the shower over the vacuum box goes through the felt and so is able to get at the inside dirt, not just wash off the surface of the felt. It all goes through and none is wasted running off the sides.

As for the initial expense of the installation, we believe the increase in felt life, the higher and more uniform production which a cleaner felt can give and a somewhat shorter felt which the suggested arrangement may permit, will more than cover the cost of the change-over in a relatively short time.

Suggestions for installation of this shower-vacuum system on a particular machine will be supplied gladly. Send a sketch of your felt travel to Albany Felt Company, Albany 1, N. Y., and we will submit our recommendations.

THE COVER

The photograph on our cover is an Aerial view of Thetford Mines, Quebec, showing in the foreground the Beaver Mine of Asbestos Corporation Limited, in the right middle ground the Johnson's Company Limited and on the left in the background the Bell Asbestos Mines Limited and the King Mine of Asbestos Corporation Limited.

The tailings dump in the far left background is that of the Flintkote Mines Limited.

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BUILDING

Construction contracts in 1957 totalled $32,173,412,000, two percent ahead of the 1956 total, according to F. W. Dodge Corporation.

While strictly comparable figures are not available for years before 1956, a Dodge official said that 1957 "undoubtedly set a new all-time record."

The 1957 figure was the first annual construction contract total ever released for the United States, since the Dodge statistics prior to 1957 covered only the 37 states east of the Rockies. Back data on the 48-state basis were compiled for 1956, in order to make possible comparisons with 1957.

December contracts, Dodge reported, totalled $1,982,342,000, a decrease of four percent below December of 1956. An increase in contracts for residential buildings was more than offset by declines in non-residential and heavy engineering contracts.

According to Dodge vice president and economist George Cline Smith, "the 1957 total undoubtedly set a new all-time record for dollar volume of construction contracts. While statistics do not exist which would absolutely prove this to be a fact, we do know that 1957 exceeded 1956, on a 48-state basis, and we can judge from the earlier 37-state contract figures that 1956 far exceeded any earlier year."

In December, residential building contracts totalled $758,580,000, an increase of nine percent over December, 1956. Non-residential building contracts amounted to $698,912,000, a decline of eight percent from the previous December, and heavy engineering contracts, at $524,850,000, were down 13 percent.

For the year as a whole, residential building contracts amounted to $13,039,005,000, one percent ahead of 1956; non-residential building, at $11,293,149,000, was up one percent; and heavy engineering, at $7,841,258,000, was up four percent.

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MARKET CONDITIONS

GENERAL BUSINESS.

Market conditions in many lines continue to be discouraging. However, in the opinion of several well known economists, the bottom of the readjustment is either at hand or has already been passed. The most recent lowering of the discount rate should result in a general easing of interest rates and provide a fillip to the general economy. Government spending for defense is rising sharply in certain areas and the effects of this increase in placement of actual orders should be felt within a matter of months. All in all, the general feeling is that we may anticipate a slight but probably halting sort of improvement for the next few months with good prospects for a pronounced upswing by mid year.

ASBESTOS — RAW MATERIALS

Shipments of asbestos fibre during January were about normal for the time of year when the movement of asbestos is at its low point.

However orders, inquiries and futures received would indicate no appreciable change in demand over the same period of 1957.

ASBESTOS — MANUFACTURED GOODS

Asbestos Textile. A slight improvement has been experienced since the first of January. Some equipment buyers have released orders that have been held up since November and December. At this moment it appears that demand for this year will be comparable to that of last year.

Asbestos Brake Lining. This market is good and has not felt the general business down-trend in automotive replacement parts. It looks like another record year in sales. The accent this year is expected to be on replacement parts rather than on o.e.m. sales.

Asbestos Paper. The present market for this material has been very slow, thus production capacity exceeds demand. Volume is expected to be about the same as last year. Adequate supplies of *Millboard* are available and

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FAST FILTERING FIBRE

FOR ASBESTOS — CEMENT

ADVOCATE MINES LIMITED has extensive reserves of slightly harsh, quick draining, chrysotile asbestos near tidewater in Newfoundland.

PRODUCTION PLANS are being made to begin large scale output of raw fibres in two years' time.

ASBESTOS-CEMENT MANUFACTURERS will find that the unusual quality of the fibre and its location permit low fabricating cost and high product strength.

MODERN MILL DESIGN will permit selective production of any fibre grade in Canadian Groups 4, 5, 6, plus shorts and floats.

We will be glad to forward samples and further information on request.

ADVOCATE MINES LIMITED

Suite 908, 330, Bay Street, Toronto,
Canada.

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volume appears slightly below same month last year. Volume for this material is expected to decrease slightly over the remaining months of the year. Orders for *Saturated Paper* are very slow and an improvement is not anticipated before April.

Insulation. High Pressure. There has been some pick up in order bookings since the first of the year. There has been little or no change in the highly competitive situation on contract work.

Insulation. Low Pressure. The market situation continues increasingly competitive. Demand for this material is about the same as last month and the production capacity is still greater than the demand.

Asbestos Cement Products. The market remains seasonally slow, but should improve if building construction improves.

Order placements to date, for *Roofing & Siding* although slightly less than for the same period last year, are low due to weather and reduction in starts on residential building. There may be some increase in 1958 due to greater activity in re-siding.

The demand for *A-C Pipes*, as of this date, is lower than for any similar period during the past several years. It is hoped this will only be a temporary condition. Inclement weather has had its effect but the general economic situation has prevented purchases for future delivery.

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

Complete Plants for making

ASBESTOS CEMENT PIPES

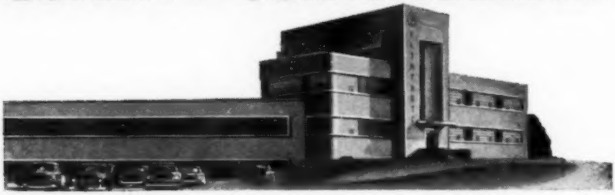
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Plants for Making Sheets, Small Cement Plants

Plants designed, equipped and financed.

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P. O. Box 34.648

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QUALITY-CONTROLLED...



Flintkote's modern research center at Whippany, New Jersey provides the facilities and technical know-how to determine the right fibres for diversified product uses.

...FLINTKOTE Asbestos Fibres

You, too, can gain from experience. The Flintkote Company stresses quality—has manufactured quality products for over fifty years—uses quality-controlled asbestos fibres produced by Flintkote Mines in many of its products.

A wide variety of asbestos fibres now available for *your* use.

For further information and descriptive brochure—Write: The Flintkote Company, East Rutherford, New Jersey.

FLINTKOTE MINES, LIMITED

(Subsidiary of The Flintkote Company) Thetford Mines, P. Q., Canada



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"ASBESTOS" has on hand copies of catalog of Asbestos-Cement Engineering Co., Vaduz - Liechenstein, Switzerland, illustrating complete plants for making Asbestos Cement Sheets and Asbestos Cement Pipe.

Asbestos Cement Engineering Co. specialize in projecting delivering and starting (and if necessary, financing) these plants.

"ASBESTOS" will be glad to send copies to interested readers.

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ASBESTOS WASTE
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26 BROADWAY
NEW YORK 4, NEW YORK

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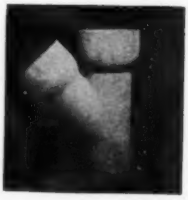
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—RESILIENT
—COMPACT
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Inquiries for Details, Quotations and References are welcome.

ING. G. MARCHIOLI
22 Morgagni, Milan, Italy

Cable: MINITA—MILANO **Phone: 26 67 27**

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ASARCO'S NEW ASBESTOS LABORATORY NEARS COMPLETION

A new wing to house the asbestos research laboratory of American Smelting and Refining Company is nearing completion at the company's Central Research Laboratories, South Plainfield, N. J. A functional, one-story structure, the new laboratory has 22,500 sq. ft. of space, and will increase ASARCO's already large research facilities by 25 per cent.

Studies on asbestos to be carried out at the new laboratory include basic research on the mineral fibre's properties, investigations into the relation of these properties to applications of asbestos in products, and the development of new uses for asbestos. This program is aimed at assisting the production and sales departments of Lake Asbestos of Quebec, ASARCO's operating subsidiary, as well as providing essential technical data needed by its customers in putting the raw material to work.

ASARCO, a leading producer of non-ferrous metals, is entering the asbestos field as part of a company diversification program. It is developing extensive deposits of high-quality chrysotile asbestos at Black Lake, Quebec, Canada, where it is also building an asbestos mill. This $32.5 million project is progressing on schedule, and early this year, the mill will be producing asbestos fibre at a rate of 100,000 tons per year.

In commenting on the function of the new laboratory, Dr. A. J. Phillips, ASARCO Vice President and Director of Research, emphasized that, "In entering what is for us a new industry, we will follow the same research philosophy that has been basic to our position as a producer of non-ferrous metals. To us, this means knowing everything possible about asbestos—its properties and how these properties can be put to use in products. Where we study applications—both established and new ones not yet uncovered—this information is for our customer's benefit since we will not make asbestos products ourselves."

Considerable work on asbestos has already been going on for over a year in the Central Research Laboratories' present facilities as the new activity has been

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HAVE LESS MARKING

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Thomas Hardman & Sons, Ltd.
Fernhill Mills
Bury, England

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integrated into the overall program. The first major basic research project is already underway, and with the installation of special equipment for fibre evaluation studies, data needed in application research are being gathered.

This first basic research project involves a complete study of the physical and chemical properties of the chrysotile asbestos which will be produced at Black Lake. In carrying this forward, ASARCO will capitalize on the experience of its specialists in many areas of research and analysis who are applying techniques developed for the determination of physical properties of metals and minerals to asbestos problems. The knowledge and skills of these men are being blended with those of new personnel added for the asbestos laboratory to give maximum impetus to the project. Similarly, much of the Central Research Laboratories' present equipment is being used to supplement the functions of the convential asbestos-testing equipment which has been provided.

Types of special research equipment available and the data on asbestos obtained with it, include the following: an X-ray spectograph for analysis of major constituent elements; prism and grating spectograph for trace constituent element analysis; X-ray diffraction equipment for atomic structure and compound analysis; electron microscope for fibre shape and size determinations; and various light miscroscopes for analysis of size, shape and surface characteristics of the fibre. Other techniques will be used to study heat transition characteristics of chrysotile and the contribution of fibre to the properties of final products.

Investigations are underway involving the use of asbestos in paper and plastic products. Studies have been and will be made on other products which will utilize asbestos. But special attention will also be given to commercial development of new products and processes to which asbestos can contribute beneficial properties.

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In Canada: Kenwood Mills Ltd.,
Arnprior, Ontario

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AUTOMOBILE SALES

	November 1957
Passenger Cars	583,783
Motor Trucks	92,925
Motor Coaches	241
	676,949

In November 1956, a total of 667,187 motor vehicles were sold. In the eleven months of 1957 the total was 6,565,148.

These figures were supplied by the Automobile Manufacturing Association, New Center Building, Detroit, Michigan.

HERMAN HOLLANDER, INC.
154 Nassau Street
New York 38, N. Y.

RHODESIAN CHRYSOTILE ASBESTOS

regular supplies of long Spinning Grades, shorter Grades and low iron/calcium Filter grades

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Importers since 1909 of

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A natural fire barrier as workable as wood

A unique insulation board, workable as wood, Asbestolux combines more inherent advantages than any similar material. Long-fibered Amosite asbestos and a selected grade of silica with special properties are bonded under heat and pressure. Light and strong, Asbestolux is incombustible, and stable.

Write for Bulletin J-850.



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200 Bloor Street East • Toronto, Ontario

CAPE

Subsidiaries of The Cape Asbestos Company, Ltd., London

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Canada
(Dept. of Mines, Province of Quebec)

Tons 2,000 lbs.

Production for November 1957 (Quebec)	89,665	tons
Other Provinces	4,105	tons
	93,770	

Total production for November 1956 was 109,880 tons.

Africa (Rhodesia)
(Published by Rhodesia Chamber of Mines)

Tons 2,000 lbs.

Production for September 1957	11,304.32	tons
Valued at	£777,267	
Production for September 1956	9,724.95	tons
Valued at	£664,622	

UNION ASBESTOS & RUBBER CO.

Erle T. Plummer has been named general sales manager of the Union Asbestos & Rubber Company's Fibrous Products Division.

Mr. Plummer began his business career with the Wells Fargo Bank in San Francisco in 1939. He joined UNARCO in 1950 as a sales representative for the Fibrous Products Division in the San Francisco office and later served in a similar capacity in the company's Houston, Texas, office.

In March 1955, he was promoted to assistant general sales manager with headquarters at the company's Bloomington, Illinois, plant.

CANADA'S MINERAL PRODUCTION
Preliminary Report—1957

Again the value of Canada's mineral production exceeded two million dollars, in 1957 according to a preliminary estimate prepared by the Dominion Bureau of Statistics at Ottawa. After a decade of remarkable increases in the valuation of the mineral output there was only a modest gain of 2.5 per cent in 1957 compared with 1956.

The value of non-metallic minerals was $167 million which was $7 million more than in 1956. There were over a million tons of asbestos which were worth $106 million.

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ASBESTOS FIBER SALESMAN

National organization has permanent opening for salesman with knowledge of asbestos fiber products, markets, and usage characteristics. Supervise the fiber sales of our present industrial sales force. Travel in Europe. Near and Far East, South America and United States. Fluency in French and English desirable. Salary and bonus. Must be a self-starter and a man with creative ideas and considerable initiative. Employee benefits include insurance, hospitalization, retirement, stock purchase plan, etc. Please submit detailed resume to:

Charles N. Helbert, Personnel Manager

National Gypsum Company

325 Delaware Avenue, Buffalo 2, New York

TOP SALES RESULTS

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ADVERTISERS' REACTION — 140% Increase
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NATIONAL ROOFER, 315 W. Madison St., Chi., 6

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IMPORTS AND EXPORTS

Imports Into U. S. A.

Figures by Bureau of Census)

Unmanufactured Asbestos:

	September 1957 Tons (2240 lbs.)
From: Canada	58,875
Union of South Africa	2,327
Rhodesia	972
Other Countries	47
	62,221
Valued at	$6,500,682

By Grades:

Crude No. 1, Chrysotile, Rhodesia	389
Crude No. 1, Chrysotile, Other Ctys.	2
Crude No. 2, Chrysotile, Canada	13
Crude No. 2, Chrysotile, Other Ctys.	23
Crude, Other, Chrysotile, Canada	115
Crude, Other, Chrysotile, U. of S. Africa	69
Crude, Other, Chrysotile, Rhodesia	502
Crude, Blue, U. of S. Africa	638
Crude, Amosite, U. of S. Africa	1,620
Textile Fibres, Chrysotile, Canada	3,485
Textile Fibres, Chrysotile, Rhodesia	81
Textile Fibres, Chrysotile, Other Ctys.	22
Shingle Fibres, Chrysotile, Canada	5,870
Paper Fibres, Chrysotile, Canada	4,767
Other Fibres, Chrysotile, Canada	44,625
	62,221

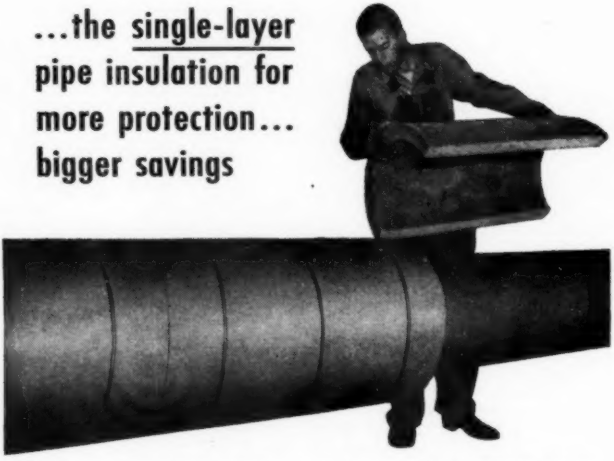
Manufactured Asbestos Goods:

	September 1957 Quantity (lbs.)	Value
Asbestos Yarn, United Kingdom	19,659	$ 14,380
Other Countries	320	472
Asbestos Packing & Lining, Israel	24,986	11,634
Other Countries	17,811	7,293
Asbestos Shingles (Impreg.)		
Canada	89,218	11,298
Other Countries	15,148	972

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TEXTILES

Cloth (plain and metallic)
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Gasket Cloth
Sheet Packings
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FLEXIBLES

Insutube—slip-on
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High Pressure Rod Packing
Blue Asbestos Packing—acid resistant
Square Braided Packing
Valve Stem Packings—twisted and braided
Joint Runners
High Pressure Packing—semimetallic

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UNION ASBESTOS & RUBBER COMPANY

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Asbestos Shingles (Not Impreg.)		
Canada	2,223,050	225,260
Italy	987,017	39,365
Japan	297,445	12,175
Other Countries	134,402	8,587
Asbestos Manufactures—Others	....	1,757
	3,809,056	$333,193

Exports from U. S. A.

Figures by Bureau of Cen~us)

Unmanufactured Asbestos:

	October 1957 Tons (2240 lbs.)	Value
To: Europe	185	$19,758
South America	6	1,710
Other Countries	26	6,096
	217	$27,564

Manufactured Asbestos Goods:

		October 1957 Quantity	Value
Asbestos Cement & Pipe Coverings	Lbs.	745,557	$ 123,912
Asbestos Textiles & Yarn	Lbs.	136,105	106,228
Asbestos Packings	Lbs.	147,142	198,692
Asbestos Clutch Facings	No.	82,723	71,709
Asb. Bk. Lng. (Mld. & S. Mld.)	Lin. Ft.	176,865	47,325
Asbestos Brake Lining, Rolls	Lin. Ft.	20,347	29,834
Asbestos Brake Lining, Other	Lbs.	426,627	354,795
Asbestos Construction Materials	Lbs.	2,528,553	324,847
Asbestos Manufactures — Others		....	34,244
			$1,291,590

Imports of Asbestos by United Kingdom

Raw Materials

Tons 2,240 lbs.

	October 1957	November 1957
From: Union of South Africa	1,686	2,086
Basutoland, Bechuanaland & Swaziland	823	1,314
Rhodesian Fed	2,542	4,769
Canada	7,041	6,558
Other Commonwealth Countries	246	491
Foreign Countries	11	90
	12,349	15,308

Note: On page 40 of our January number the quantities listed for October 1957 were in error. The correct tonnages for October are listed above.

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BELL ASBESTOS MINES LTD.

THETFORD MINES, QUE.

CANADA



Producers of

Raw Asbestos Crudes

& Fibres



Sales Representatives

for

Cassiar Asbestos Corporation Limited

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Exports from Canada

(Published by Dominion Bureau of Statistics)

	October 1957	
	Tons (2000 lbs.)	Value
Unmanufactured Asbestos:		
Crude		
United States	9	$ 6,660
United Kingdom	45	59,468
South America	....	....
Central America & Mexico	....	....
European Countries	29	22,040
Other Countries	29	25,670
	112	$ 113,838
Milled		
United States	12,967	$ 2,610,868
United Kingdom	2,769	666,790
South America	3,524	641,412
Central America & Mexico	985	191,142
European Countries	15,370	2,993,842
Other Countries	10,783	1,887,489
	46,398	$ 8,991,543
Shorts		
United States	45,884	$ 2,403,078
United Kingdom	2,600	121,136
South America	410	25,050
Central America & Mexico	63	4,645
European Countries	7,125	433,860
Other Countries	1,641	123,693
	57,723	$ 3,111,462
Grand Total—		
Unmanufactued Asbestos	104,233	$12,216,843
Manufactured Asbestos Goods:		
Brake Lining		$ 25,348
Packing		524
Other Materials		135,797
		$ 161,669

H. W. Johns, founder of Johns-Manville, first learned about asbestos fibre from a copy of the 1859 Encyclopedia Americana.

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★ WITHSTANDS HIGH TEMPERATURES

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NEWS OF THE INDUSTRY

HAPPY BIRTHDAY

C. J. Sherer, Vice President & Treasurer, Russell Mfg. Company, Middletown, Conn., February 18.

I. J. Harvey, Jr., Chairman of the Board & Chief Executive Officer, The Flintkote Company, New York City, February 20.

Clarence E. Witherspoon, President, Asbestos Construction Company, Inc., New York City, February 20.

Robert Sanderson, President, Acme Asbestos Ltd., Vancouver, Canada, February 21.

George W. Smith, President, Bell Asbestos Mines Ltd., Thetford Mines, Canada, February 22.

Robert E. Cryor, President, North American Asbestos Co., Chicago, Ill., February 23.

J. Albert Taylor, Vice President & Secretary, Wallace & Gale Company, Baltimore, Md., February 24.

Warren E. Hill, President, Thermoid Co., Trenton, N. J., February 25.

A. S. Johnson, President, Johnson's Co., Ltd., Thetford Minues, Canada, February 28.

Leonard Krez, President & Treasurer, Paul J. Krez Company, Chicago, Ill., February 28.

A. S. P. Sangster, General Works Mgr., Wunderlich Limited, Sydney, Australia, March 2.

John H. Matthews, Executive Vice President, Raybestos-Manhattan, Inc., Passaic, N. J., March 3.

A. E. Binger, Industrial Sales Mgr., The Philip Carey Mfg. Company, Cincinnati, Ohio, March 6.

Carl Bindman, Sales Manager, Johnson's Company, Thetford Mines, Canada, March 7.

M. E. Curtis, President & Treasurer, Curtis Asbestos Company, Boston, Mass., March 7.

William G. Brinker, President, The Clark Asbestos Company, Cleveland, Ohio, March 8.

T. J. Callans, Vice President & Treasurer, Southern Insulation Corp., Memphis, Tenn., March 8.

P. M. Taft, President, Taft-Jenkins Company, Holyoke, Mass., March 9.

Thomas J. Casey, Treasurer, Asbestos Corporation of America, New York City, March 10.

W. L. Markert, President, Brooks-Fisher Insulating Company, Atlanta, Ga., March 10.

M. R. Carr, President, H. W. Porter & Co., Inc., Newark, N. J., March 11.

A. Lines, Superintendent, Durabestos Works, Wunderlich Limited, Parramatta, Australia, March 11.

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CARTERS (MERCHANTS) LIMITED

SPECIALISTS SINCE **1936** IN THE SALE OF

ASBESTOS FIBRES

ON BEHALF OF **PRODUCERS** OF ALL

VARIETIES & ORIGINS

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James E. Wallace, Vice President, John W. Wallace & Co., Hoboken, N. J., March 11.

Theodore D. Wallace, Secretary & Treasurer, John W. Wallace & Co., Hoboken, N. J., March 11.

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

THE RUBEROID CO.
Changes in Personnel

The Ruberoid Co. has announced the appointment of *Phillip S. Bettoli* as the firm's director of research. Mr. Bettoli begins his new duties immediately, replacing *Mr. Clarence R. Eckert* who is retiring.

Mr. Bettoli joined Ruberoid in 1945 as a research chemist, became chief research chemist in 1948 and has been assistant director of research since 1952. In his new position, he will be responsible for all product research and development with headquarters at the company's laboratories at South Bound Brook, N. J.

Mr. Eckert, who had been Ruberoid's research director since 1945, was one of the pioneer chemists in the asphalt and coal tar buildings materials industry. For many years he was an independent consulting engineer in the field and holds a large number of patents.

Ruberoid also announces the appointment of *Charles Lloyd Sell* as the firm's general traffic manager.

Mr. Sell, who will make his headquarters at the company's plant in South Bound Brook, has already assumed his new duties. He will replace Benjamin H. Rubenstein, who retired December 31, 1957 after more than 40 years with the company.

In 1940 he began his career as a traffic clerk for Western Electric Company and worked in the same capacity for Ruberoid from 1948 to 1953. For the past four years he was traffic analyst for Union Carbide Corp.

AMERICAN BRAKE SHOE COMPANY ACQUIRES GAINES FOUNDRY INC.

American Brake Shoe Company has purchased the assets of the Gaines Foundry Inc., near Los Angeles, California.

The newly acquired facility, which will be operated as the Gaines Works of the Light Metals Department of Brake Shoe, produces aluminum and magnesium castings for the aircraft industry. *Frank Gaines* will continue to manage the operation.

The appointment of *S. Whitney Dickey*, formerly district sales manager for the Engineered Castings Division of Brake Shoe, as general manager of the Light Metal Department has been announced.

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ALL GRADES—ALL TYPES

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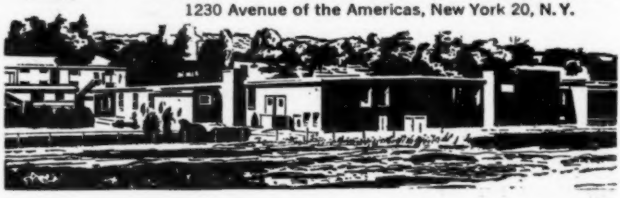
ASBESTOS TEXTILES

are manufactured in our own modern plant at Stark Mills, Hogansville, Ga. Spinning and weaving operations are closely controlled for maximum uniformity in asbestos yarns, fabrics and tapes. Specialties developed to meet customers' requirements.

Write: Asbeston® Dept., Textile Division

UNITED STATES RUBBER COMPANY

1230 Avenue of the Americas, New York 20, N.Y.



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UNIVERSAL ASBESTOS CEMENT MFG. CO.

The British U.A.M. Group of Companies, whose biggest manufacturing interests are in asbestos cement building products have two substantial plants in England, and an associated company has another factory in Uganda, East Africa.

The parent organization, The Universal Asbestos Manufacturing Co., Ltd., Tolpits, Watford, Hert, England, is one of the leading makers of asbestos cement in the United Kingdom, and is foremost in the development of new products and techniques. One example is the range of "sandwich" constructions they have designed to provide a high degree of structural insulation in buildings; full details are given in an attractive leaflet.

With the ever-increasing complexity of the construction industries, detailed advice on the applications of various building materials is essential. The U.A.M. Group Advisory Service has recently been introduced to meet this and parallel needs, and has issued a brochure on the service and aims of the group.

Copies of the leaflet and brochure are available by writing "ASBESTOS".

ASBESTOS CHAPTER
Preprint from 1955 Minerals Yearbook

The 1955 Chapter on Asbestos from the U. S. Minerals Yearbook, published annually by the U. S. Bureau of Mines, has just arrived. All "ASBESTOS" readers who have collected an Asbestos Library, will want a copy. Send 10c (in coin) to the Superintendent of Documents, U. S. Government Printing Office, Washington 25, D. C.

It contains salient statistics of the Asbestos Industry in the United States, including a table of World production of Asbestos, (by countries) 1951 to 1955 inclusive.

Other information on the Asbestos Industry in 1955 which the pamphlet contains will, no doubt, be of interest to our readers.

CAPE ASBESTOS COMPANY LIMITED
Opens New Office

The Cape Asbestos Company Limited *(Mr. F. S. Page)* and their subsidiary Cape Building Products Limited *(Mr. M. W. Brodie)* have opened a new office at Newcastle-upon-Tyne. The address is: 19 & 20 Exchange Buildings, Quayside, Newcastle-upon-Tyne — telephone. Newcastle 20488.

The Newcastle office is part of the Cape Asbestos Northern Area which is served by *Mr. J. F. Callaghan*, Northern Area Manager, from Manchester. The Cape Building Products Northern Area Manager is *Mr. J. A. Fitzpatrick*. The new office will enable both companies to provide an improved service to customers on the North East Coast.

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CABLE ADDRESS METABEST

METATE ASBESTOS CORPORATION

Producers of

ARIZONA CHRYSOTILE CRUDES

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FILTERATION FIBRE

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Our experienced engineers and machinists offer the industry entire machines built to deliver maximum production.

Your Inquiries Are Invited

1-51 Paterson Avenue E. Rutherford, N. J.

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JOHNS-MANVILLE CORPORATION
Annual Report

Johns-Manville sales of $308,293,000 in 1957 were slightly lower than the record high of $310,390,000 set in 1956.

Consolidated net earnings of Johns-Manville Corporation in 1957 were $17,782,000 or $2.48 per share of stock on an average of 7,155,427 shares outstanding, compared with $25,003,000 or $3.79 per share on an average of 6,594,415 shares outstanding in 1956. The 1957 earnings were equivalent to 5.8 cents in the sales dollar.

Of the decrease in net earnings about $2,000,000 is due to underground development in advance of production at the Munro asbestos mine in Northern Ontario and to start-up expenses at eight new plants and plant additions. The latter expenses include costs incurred at new plants before they produce, such as cost of training new crews and the extra cost of production before new processes are working smoothly.

Higher depreciation caused a decrease of about $400,000. Net earnings were also affected by lower sales of some of the more profitable items and intense competition, which prevented recovery of increases in salaries, wages and other costs through price adjustments.

New projects authorized during 1957, all of which are expected to be completed in 1958, call for expenditures of $9,000,000.

ASBESTOS CORPORATION LIMITED
New Appointments

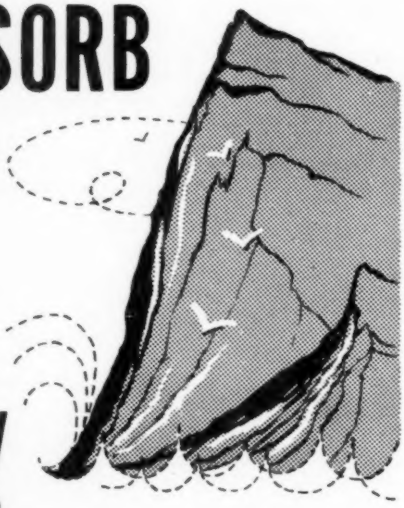
Recent changes in the sales and traffic organizations resulted in the appointment of *Mr. A. C. Steele* as assistant general sales manager, *Mr. J. P. Lafontaine* replaced Mr. Steele as sales office manager and was in turn replaced by *Mr. G. R. Biron* who now heads the traffic department with title of traffic manager.

Mr. W. A. Janitch continues as representative in Great Britain and *Mr. P. E. McLeclere* as regional sales manager for the United States and Canada.

PHILLIPS ASBESTOS MINES
Producers of
CRUDES
and
FIBERIZED ASBESTOS
The World's Finest Fibres
DRAWER 71 GLOBE, ARIZONA
Mines and Mills in Gila Co., Arizona

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DURASORB FELTS give better stability because . . .



Albany's new method of needled construction provides an extremely stable felt which will not alter size or wander on the machine. This factor, together with excellent uniformity, gives you a new advantage in felts for asbestos-cement shingles, siding and sheets. In addition, DURASORB felts are meeting demands for finish, drainage and long life.

Ask your Albany Felt Sales Engineer for full details and case histories on this outstanding performer.

AF

ALBANY FELT COMPANY

Main Office & Plant, Albany, N. Y.
Other plants: Hoosick Falls, N. Y., N. Monmouth, Me.
St. Stephens, S. C., Cowansville, P.Q.

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NATIONAL GYPSUM COMPANY
Adds to Staff

The promotion of *Dion T. Rahill, Jr.* to the position of Sales Promotion Manager and two additions to its Advertising and Sales Promotion Department staff has been announced.

Mr. Rahill has served as Advertising Manager for the Company's Paint Products since 1955.

Gordon E. Fagan replaced Rahill as Advertising Manager for the Company's Paint Products and *Theodore W. Crouch* was named to the position of Advertising Manager for Acoustical Products.

Before coming to National Gypsum Company, Mr. Fagan served as Assistant Advertising Manager for the O-Cel-O Division of General Mills Inc.

Mr. Crouch worked with several advertising agencies and was the advertising manager for Joy Manufacturing Company of Pittsburgh, before joining National Gypsum's Advertising and Sales Promotion Department.

NERSICA SHOW KICKS OFF 25th YEAR CELEBRATION

Marking its 25th year as an organization of repair, service and improvement contractors, NERSICA is about to celebrate its Silver Anniversary starting with the Annual Convention in Atlantic City, N. J., February 23-25, 1958.

Joseph I. Sargon, president of NERSICA, predicted intensive year-long activity on the part of regional councils in celebration of the Silver Anniversary year.

Zenn Kaufman, authority on sales training, will constitute the "Creative Selling" springboard. His training sessions embrace newly developed forms of audience participation, and the employment of the "laboratory technique" for making his teachings altogether practical.



TEST

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

AMERICAN ROOFER and SIDING CONTRACTOR

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View of Kuruman Main Mill

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Chrysotiles, Blues, Amosites

Agent in the United States for

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NATIONAL GYPSUM CO.

A major reorganization of National Gypsum Company's Sales Department has been announced.

To further improve the competitive aspects of the Company, they have added a new Product Division and a separate Paint Sales Division.

Al H. Fay was promoted to the position of Products Director. Prior to his new appointment, Mr. Fay had been the Company's General Commodity Manager. He has been with National Gypsum since 1953 and has more than 20 years experience in the building materials industry.

Joseph E. Seguine was promoted to the position of Paint Sales Manager. He formerly served the Company as Paint Merchandising Manager and has been with National Gypsum since 1954.

Paint District Managers are located at the Company's paint plants in Raritan, N. J., Matteson, Ill., and Good Hope, La.

ROBERT A. KEASBEY COMPANY
New Officers

At the annual meeting of the Board of Directors of the Robert A. Keasbey Company, held January 15, 1958, the resignation of Mr. Harry Dulfon as Secretary-Treasurer was tendered and accepted with regret.

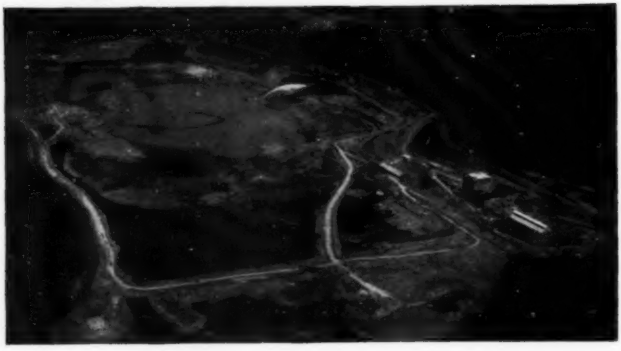
The following officers were duly elected: *A. P. Keasbey, Sr.*, President and General Manager; *Aertsen P. Keasbey, Jr.*, Vice President; *Thomas T. Keasbey*, Vice President in Charge of Construction; *Edwin J. Butterly*, Secretary and Treasurer.

Mr. Dulfon felt that having reached seventy-four years of age and served the Company for fifty-eight years with the Founder of the Company, and two generations of Keasbeys following—he was entitled to be relieved of his duties and responsibilities. He will continue to be available for consultation and will continue as a Director. The Robert A. Keasbey Company has represented the Philip Carey Manufacturing Company in New York and New Jersey as Distributors and Contractors since 1903.

ACE ASBESTOS MANUFACTURING CO.
Importers, Exporters, Processors
of All Varieties of
RAW ASBESTOS
for
Every Use
451 COMMUNIPAW AVE. JERSEY CITY, N. J.

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Coming in Mid-1958:



New Source of Quality Chrysotile

ASBESTOS

ASARCO and Lake Asbestos of Quebec, Ltd., are dredging and draining a 500-acre lake to convert it into one of the richest sources of high quality, longer fibre chrysotile asbestos in the world today.

This year ASARCO's new major open-pit asbestos mine and newly constructed, modern mill will begin to produce 100,000 tons of asbestos annually. ASARCO has no plans for fabricating asbestos products, so this entire supply will be at your disposal.

If you manufacture or use any of the hundreds of products containing asbestos, you'll want to get acquainted with this dependable new source of supply soon.

ASARCO **Lake Asbestos of Quebec, Ltd.**

A Subsidiary of

AMERICAN SMELTING AND REFINING COMPANY

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RAYBESTOS-MANHATTAN INC.

Raybestos-Manhattan, Inc., announces the appointment of *S. R. Zimmerman, Jr.* as General Manager of its U. S. Asbestos—Grey Rock Division located at Manheim, Pa.

Mr. Zimmerman has been with the Division for the past twenty-five years, recently as Assistant General Manager. He is also a Vice-President and Director of Raybestos-Manhattan.

O. H. Cilley, whom Zimmerman succeeds, continues as a Vice-President and Director and Director of the Corporation, and also in an advisory and consulting capacity.

CURRENT RANGE OF PRICE

As of February 10, 1958

ARIZONA—	Per Ton of 2,000 lbs., f.o.b Globe, Arizona	
No. 1 Crude (soft)	$1,500.00 to	$2,000.00
No. 2 Crude (soft)	1,000.00 to	1,350.00
No. 3 Crude (soft)	400.00 to	675.00
Filter Fibre (soft)	250.00 to	475.00
No. 1 Crude (semi-soft)	1,200.00 to	1,500.00
No. 2 Crude (semi-soft)	900.00	
No. 3 Crude (semi-soft)	400.00	

CANADA—	Per Ton 2,000 lbs. f.o.b. Mine Canadian Currency	
Group No. 1 (Crude No. 1)	$1,475.00 to	$1,850.00
Group No. 2 (Crude No. 2); Crude Run-of-Mine and Sundry	790.00 to	1,200.00
Group No. 3 (Spinning Fibre)	370.00 to	650.00
Group No. 4 (Shingle Fibre)	180.00 to	245.00
Group No. 5 (Paper)	120.00 to	150.00
Group No. 6 (Waste, Stucco or Plaster)	.....	86.00
Group No. 7 (Refuse or Shorts)	40.00 to	80.00

VERMONT—Per ton of 2000 lbs. f.o.b. Hyde Park or Morrisville, Vt.

Group No. 3 (Spinning & Filtering)	$ 381.00 to	$ 440.00
Group No. 4 (Shingle Fibre)	185.00 to	205.00
Group No. 5 (Paper Fibre)	123.00 to	155.00
Group No. 6 (Waste, Stucco or Plaster)		88.00
Group No. 7 (Refuse or Shorts)	42.00 to	77.00

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F. M. S. I. TO COMPILE BRAKE SHOE DRAWINGS

The Friction Materials Standards Institute, Inc., plans to release in the Spring of 1958, information relating to the identification of brake shoes. This compilation is being made possible through the cooperation of three brake shoe companies (and possibly a fourth) who have consented to furnish silhouette drawings of the brake shoes together with the model applications.

The Automotive Industry has always looked to the Institute for accurate information on brake linings and clutch facings — and found it in the Automotive Data Book — knowing that all such information was obtained from the original equipment manufacturers.

Up to the present time, the Institute could not, and would not, go ahead with brake shoe identification because accurate information was not available. Now, through the courtesy of three original equipment manufacturers, authentic information will be received and released by the Institute.

THE RUBEROID CO.
Annual Report

The Ruberoid Co. reported that net sales for the year ending December 1, 1957 were second highest in company history and 6.2% over sales in 1956. Net income was 12% higher than in 1956.

Net sales in 1957 totaled $81,073,947 compared with $76,359,632 in 1956. Net income amounted to $4,808,267, or $3.25 per share, in 1957, compared with $4,292,143, or $2.90 per share, in 1956.

In 1957 provisions for federal taxes on income were $4,364,674 and $3,824,979 a year earlier.

Commenting on the year's operations, Chairman Herbert Abraham and President Stanley Woodward said the improved performance was "a result of an expanded sales organization, more intensive advertising and sales promotion, increased productive efficiency, and careful control of operating expenses".

The National Safety Council has announced two "Safety Management Techniques" training courses for safety men. One-week courses, they are scheduled for February 24-28 and May 19-23.

Additional particulars and information on enrollment may be obtained from the Director of Industrial Training, National Safety Council, 425 N. Michigan Ave., Chicago 11, Ill.

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CAREY RECEIVES CITATION — —

The Philip Carey Mfg. Company of Lockland, Ohio, has been cited for its "excellent management" in 1957 by the American Institute of Management, New York City.

ASBESTOS STOCK QUOTATIONS

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

		January 1958		
	Par	Low	High	Last
Amer. Br. Shoe (Com.)	np	35	37¾	37¼
Amer. Br. Shoe (Pfd.)	100	....	....	....
Armst. Ck. (Com.)	1	23	24⅞	24¼
Armst. Ck. (Pfd.)	np	87	89	88¼
Asbestos Corp. (Com.)	np	28½	30	29
Carey (Com.)	10	24	26⅞	26¼
Cassiar Asb. Corp.	np	$5.40	$6.90	$6.85
Celotex (Com.)	1	29⅜	31⅞	31⅝
Celotex (Pfd.)	20	17½	18½	18¼
Certainteed (Com.)	1	8¾	9⅝	9⅜
Fibreboard Paper Prod. (Com.)	np	20¾	26	26
Fibreboard Paper Prod. (Pfd.)	100	83¾	88	88
Flintkote (Com.)	5	37½	41¾	41¼
Flintkote, (Pfd.)	nu	87⅜	91	91
Johns-Manville (Com.)	5	37¼	42	39⅝
Natl. Gypsum (Com.)	1	42¾	46	45¾
Natl. Gypsum (Pfd.)	nu	90	93½	92
Ray-Man (Com.)	1	49½	51½	52
Ruberoid (Com.)	1	32	34	33¾
Thermoid (Com.)	1	10¾	14¼	13½
Thermoid (Pfd.)	50	42¾	50	49½
Union Asb. & Rub. (Com.)	5	5⅝	6⅞	6⅞
United Asb. (Com.)	1	$5.75	$5.20	$5.50
U. S. Gypsum (Com.)	4	65½	74	71½
U. S. Gypsum (Pfd.)	100	167¼	170	170
U. S. Rubber (Com.)	5	32⅝	34¾	34½
U. S. Rubber (Pfd.)	100	146	154	152

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AMERICAN BRAKE SHOE CO.

American Brake Shoe Company devoted the entire Christmas issue of its employee magazine to Christmas topics, completely omitting mention of any regular company news or "commercials". The magazine, which is published monthly for employees and friends of the company, included articles on the Story of the Nativity, Christmas Giving, St. Nicholas and Santa Claus, Christmas Recipes of various nations, Christmas Music, and drawings of Christmas themes by children of the employees. The articles were illustrated by original woodcut drawings in two colors and the magazine was printed on a special antique stock paper.

This was the first time Brake Shoe devoted the entire issue to the Christmas theme and one of the few of the nearly 6,000 publications produced by American companies which emphasized the real meaning of Christmas, rather than holiday tie-ins with their company's people, products or business. The issue met with such a favorable approval by its readers that the company plans to make it an annual issue. Copies of this issue are available from the Editor, American Brake Shoe Company, 530 Fifth Ave., New York 36, N. Y.

CASSIAR ASBESTOS CORPORATION LIMITED
Annual Report

The Sixth Annual Report, dated September 30, 1957, of the Cassiar Asbestos Corporation Limited (of Toronto, Ont., Canada) has been received from F. M. Connell, President.

The net profit for the year was $2,811,295 equal to 74c a share, an increase of over 25% from net profit of $2,225,088 equal to 59c per share in the previous year.

The Company has an option to purchase from Conwest Exploration Company Limited all its rights and interest in three asbestos properties (the Letain, the Caley and the Clinton Creek). Initial development work by Conwest had indicated important showings of asbestos ore on each property. The ore body on the Clinton Creek property is being developed by open cuts and two adits. Mill tests of the ore will be made during the current year.

The sale of spinning fibre remained steady throughout the year, and there was a marked increase in the sale of asbestos cement fibres. A price increase of 5% on all grades was made effective October 1, 1957. It is anticipated that the volume of sales for the coming year will remain at about the same level as the year under review.

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Drastic reduction of heat loss with

PABCO PRECISION-MOLDED CALTEMP

a Calcium Silicate Insulation

When vapors or liquids are conveyed or held at temperatures up to 1900° F.—when equipment is operated to high heat levels—Pabco insulations cut heat losses to absolute minimums. "Precision-Molded" by a patented process, Pabco's Caltemp and 85% Magnesia pipe and block insulations control temperatures within close tolerances. For data on technical advantages, case histories, or engineering consultation, write . . . or call a Pabco insulation engineer.

INSULATION GUIDE

Temperature	Recommended Pabco Insulation
to 550° F.	85% Magnesia pipe covering • block • cement
to 1200° F.	Caltemp pipe covering • block • cement
to 1500° F.	Prasco 15 C pipe covering • block • cement
to 1900° F.	Prasco 19 C block

PABCO

INDUSTRIAL INSULATIONS DIVISION

Fibreboard Paper Products Corporation
San Francisco 19 • Chicago 54
Houston 4 • New York 16 • Los Angeles

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PATENTS

Abstracts of U S. Patents on Asbestos and Asbestos Products by Oliver S. North.

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

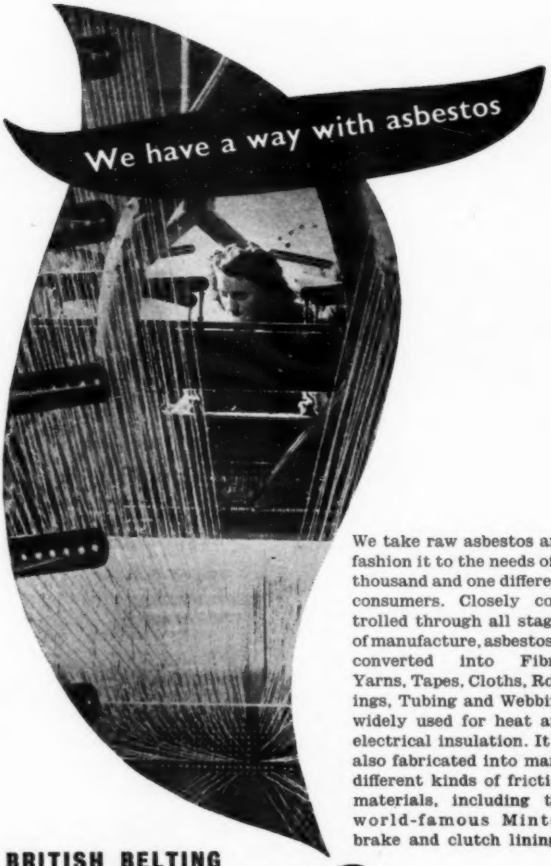
Dynamite Charge Holder, No. 2,818,809. Granted on January 7, 1958 to I. Roy. Dynamite charge holder of a type adapted for holding charge in "hard to get at" positions in asbestos mines, to avoid contamination of fibre with foreign materials from the blast. Holder is formed of magnetizable light gauge sheet metal. In use, as many holders as required are assembled in end-to-end relationship to support dynamite charge in proper position. Shattered holders, being magnetizable, can be easily separated from the fibre.

Asbestos-Cement Board, Siding and Shingle, No. 2,818,824. Granted on January 7, 1958 to C. I. Read and F. H. Reilly (assignors to Tilo Roofing Co., Inc., Stratford, Conn.). Manufacture of improved building products from asbestos fibre and portland cement. Contrasting coloring materials are added in the body of the product, which is provided with embossed ridges and grooves. Products are fireproof, waterproof and highly attractive.

Process of and Apparatus for Separating Asbestos Fibre From Rock and for Cleaning the Fibre, No. 2,819,846. Granted on January 14, 1958 to C. V. Smith. Improved apparatus and high-speed process for crushing and separating asbestos fibre from ore without the use of air blasts or suction. Ore is crushed by being projected at high velocity against a roughened disintegrating surface. Fiberized material is fed to inclined screening belts which move the fibre upwardly while simultaneously being vibrated, to effect gravity separation of fibre from gangue. This apparatus requires less power than conventional devices. Dust is more readily and completely removed than when the material is subjected to air blasts or suction.

Friction Material, No. 2,819,987. Granted on January 14, 1958 to T. Maierson, R. A. Todd and H. W. Schultz (assignors to General Motors Corp., Detroit, Mich.). A friction facing material used in connection with wet clutches consists of a felted combination of comminuted cotton stock, leather dust, red iron oxide, 6D asbestos fibre, and an absorbent inorganic filler such as fuller's earth.

Asbestos Magazine, 1958, February 1958 Published by AsbestosClaims.Law
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We take raw asbestos and fashion it to the needs of a thousand and one different consumers. Closely controlled through all stages of manufacture, asbestos is converted into Fibre, Yarns, Tapes, Cloths, Rovings, Tubing and Webbing widely used for heat and electrical insulation. It is also fabricated into many different kinds of friction materials, including the world-famous Mintex brake and clutch linings.

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THE TWELVE ESTIMATING TABLES

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

These tables have been found very useful by estimators in figuring areas, but since we have not for some time published the detailed list, it occurred to us that many would like to know exactly what the tables cover, and order them before the fall work begins. Following is the list.

Sq. Ft. Areas of Pipe Covering.

Mean Sq. Ft. Areas Standard Screwed Fittings.

Mean Area Standard Weight Flanged Fittings.

Standard Weight Flange Areas, Permanent Type.

Standard Weight Flange Areas, Removable Type.

Figuring Hair Felt, 1", 1½", 2".

Anti-Frost Insulation.

Cork Pipe Covering, Outside Area in Sq. Ft.

Ice Water Thick Cork Moulded Fittings Screwed, Outside Area in Sq. Ft.

Brine Thickness Cork Moulded Fittings, Screwed, Outside Area in Sq. Ft.

Special Thickness Cork Moulded Fittings, Screwed, Outside Area in Sq. Ft.

Dusts and Flue Perimeters.

The chart gives an easy way to figure Curved Cylindrical Surfaces.

The tables are printed on paper which will wear well under handling. Orders can be filled immediately upon receipt, write Asbestos 807 Western Savings Fund Bldg., Philadelphia 7, Pa.

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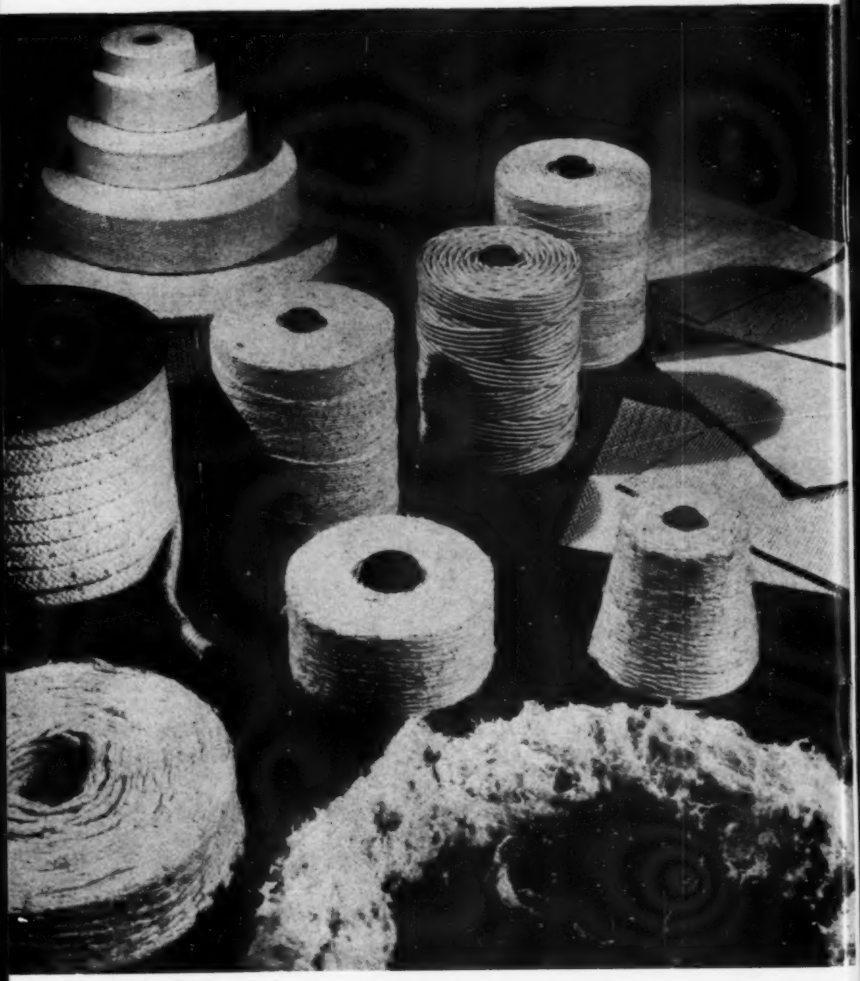
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ASBESTOS TEXTILE DIVISION, Manheim, Pa.

FACTORIES: Manheim, Pa.; Bridgeport, Conn.; Paramount, Calif.; No. Charleston, S.C.; Passaic, N.J.; Neenah, Wis.; Crawfordsville, Ind.; Peterborough, Ontario, Canada

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New Executive Offices and Research Laboratories of Nicolet Industries, Florham Park, New Jersey

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