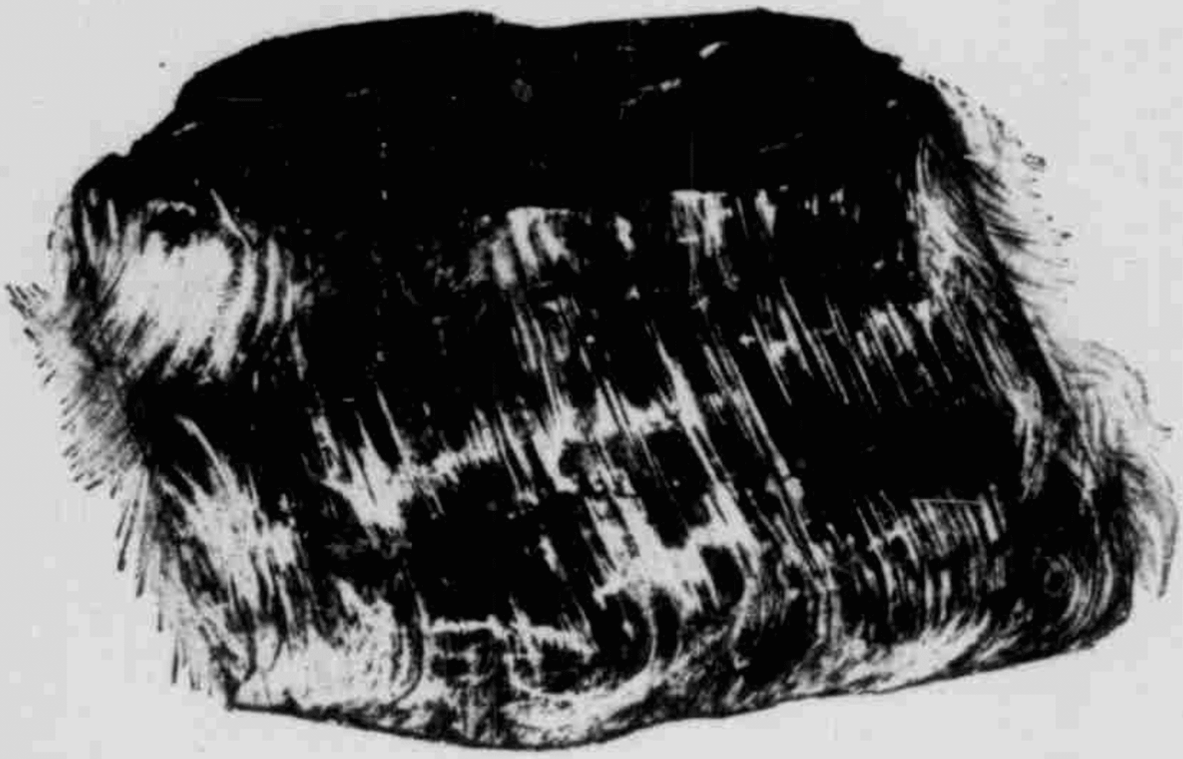
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ASBESTOS AROUND THE WORLD

Asbestos Means Big Business For Israeli Manufacturer

(This article, taken from the May 1963 issue of "The Asbestos Producer", is the fifth of a series prepared by Canadian author Jean Danard, who, in the course of a round-the-world voyage, is interviewing asbestos manufacturers.)

Going from Tel Aviv to Petah Tikva in Israel, the site of Olamit International's asbestos-cement plant, is like driving from Asbestos to Danville. The area lining the two-lane boulevard highway is so built up that it's hard to tell where one town ends and the next begins. Fluorescent lights that are over each lane of the highway are adorned with some of Olamit's hanging flower pots sprouting nasturtiums and marigolds. A quick turn off the highway onto a roadway bordered by an orange grove brings you to the 40-acre plant. There, 200 men with the help of the most modern equipment available, turn out a full line of asbestos building products to the tune of $2.5 million a year. The company has used Quebec asbestos since the factory started production in 1948.

"We produce about 200 different asbestos-cement products", says General Manager Zvi Ephron, who with his father and two brothers, founded the company. "The flat and corrugated sheets and louvres are produced by machine, but most pieces are hand-moulded. They have to be."

The Olamit line includes gutters, water storage tanks, feeding and drinking bins for domestic animals, roof-top ventilators as well as every shape and size of flower pot. One indeed is shaped like an hour-glass. Another special product is a curved, corrugated sheet for roofing that needs no supporting pillars. While most articles are usual pearl grey, colored pieces are available. "Red" is impregnated into the sheets, "white" goes on as a special layer but all other colors come from a spray gun.

The Ephron family have no trouble spotting the use of their asbestos products in Israel. People in the four major cities—Tel Aviv, Haifa, Jerusalem and Beersheba—are apartment dwellers because it is hard to find a house—any house. Each apartment has a balcony, usually the width

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of the flat, fitted with asbestos-cement louvres and painted every pastel shade available. Olamit asbestos has gone into park benches and bench chairs and helped build 18,000 houses for new immigrants. Flat and corrugated asbestos sheets are used on both sides of a wooden frame and hence the house is cooler during the deadening heat of the summer.

On many construction jobs more than asbestos sheets are supplied because a roofing service is on the Olamit agenda. They have their own trucks and about 30 teams of men working constantly throughout the country. The biggest job, and a recent one, was to supply asbestos sheets and cover the 180,000 square foot roof of a textile factory in Tel Aviv. Soon it will be turning out cotton, silk and synthetic materials to boost the Israeli economy.

But selling domestically to building contractors and agents in Israel is not enough for Olamit because its production is twice the country's present consumption. Products also go to Italy, Germany, Denmark and England as well as Iran and east and west Africa. One special product designed by company engineer will, predicts Zvi Ephron, increase the consumption of asbestos all over the world. This is a product for cooling towers on which Olamit now holds an international patent.

The next giant step in the company's production plans is to supply low and high-pressure water pipe. The new plant is already under construction and first orders, expected later this year, will be connecting lines to the 300-mile water lifeline which will take much-needed irrigation from the River Jordan in the north to the Negev desert area. In a country where there is practically no unemployment, the plant will add jobs for another 250 men. The present plant operates 24 hours a day except from noon on Friday to midnight on Saturday, the Sabbath in Israel.

Petah Tikvah, the site of the Olamit plant, means "Gate of Hope" in Hebrew. Truly a proper setting for such a thriving asbestos operation in a country born just 15 years ago.

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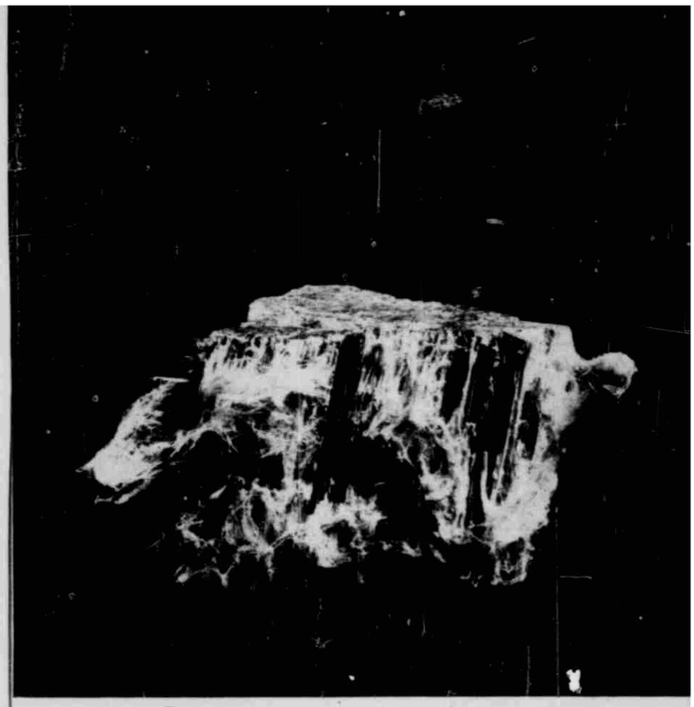
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WHAT 'S YOUR SCREEN I.Q.?

By: L. G. Moore

(Mr. Moore is Application Engineer in the Processing Machinery Department of Allis-Chalmers Manufacturing Company, Milwaukee, Wisconsin.)

Today's need for greater efficiency, more profitable use of floor space, and reduced equipment maintenance and supervision is prompting various asbestos processors to take a second look at their screening requirements.

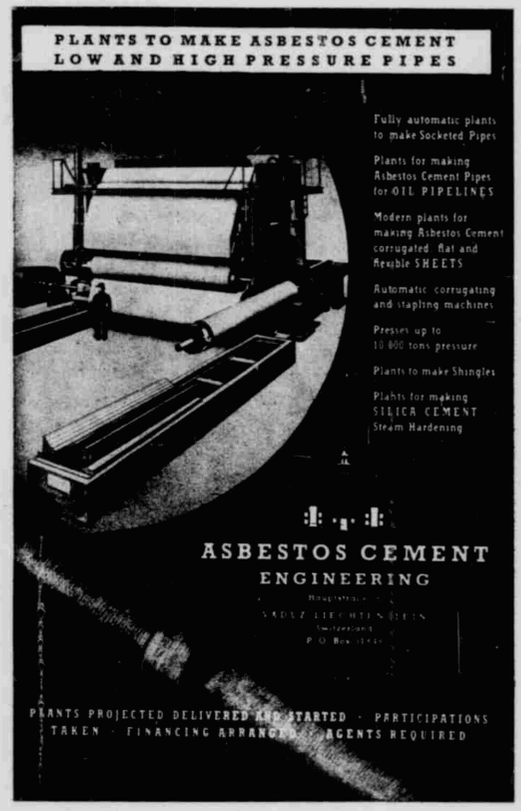
A scrutiny often prompts such questions as — What products can be screened? What is the best type of screen motion? What variables are involved in determining comparative openings of screen cloth? What capacities can one expect?

Most organic or inorganic products can be screened provided they consist of relatively dry particles. Some particles have a tendency to develop electrostatic charges. An all-metal screen will solve product stoppage due to static charge. Other particles, because of their peculiar shapes, become wedged in the screen openings. Still others are relatively free flowing but a thin coating of oil may cause them to become slightly sticky and hard to sift.

In general, screening is a continuous process. Particles enter the top of the screen, are sized to desired multiple separations, and discharge in from two to four different grades through openings in the bottom. The objective is to expose each particle to the greatest number of screen openings. To achieve this, three fundamental types of motion can be applied — reciprocating, gyratory, or a combination of the two.

A true reciprocating screen alternates back and forth in a straight line, single plane motion. A particle dropped anywhere on this type of inclined screen moves in a straight line to the lowest point with the back and forth movement overlapping to form an almost solid line path.

In a combination reciprocating-gyratory screen a spiral motion is applied to the top or feed end and becomes nearly reciprocating toward the discharge end. A particle at the head of such a screen describes a nearly circular path. In the same length of travel it is exposed not only to the same openings as before, but to many more on either side of the



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straight-line path.

As the particle moves away from the drive end of the screen, the pattern resembles a series of ever-changing ellipses until finally, over the tail end, it becomes practically a straight line. Thus, as it gets away from pure gyratory motion, it passes succeedingly fewer apertures per amplitude.

The gyratory screen develops a pure circular motion. A particle dropped anywhere on its flat surface moves in a complete circular path. Because of forward movement due to screen pitch and feed rate, the particle deviates slightly from a complete circle. However, it maintains an almost constant diameter for full course of travel across the screen, so that the particle is exposed to about 150 per cent more openings than if reciprocal motion were used and 44 per cent more than with a combination reciprocal-gyratory motion.

This screening motion handles fragile particles efficiently with a minimum of disintegration, thereby reducing undesirable fines. Power requirements are low — a 1-hp motor is ample for a three to seven deck screen.

Screen cloths are of brass, phosphor bronze, steel, stainless steel, monel, and various alloys of these materials as well as silk and nylon. The physical and chemical characteristics of the material sifted determines the most satisfactory kind of screen. Silk and nylon, for example, are sometimes substituted for metal screens to stop mechanical blinding due to undesirable product size, extra heavy layer of stock or screen cloth, or insufficient ball cleaner action.

The product and its screening characteristics nearly always determine within what range it can be separated. Some will screen readily over an entire two to 200 mesh range and beyond while others can only be screened in the coarse mesh range. Where it is intended to use the same screen for more than one product, a mesh can be selected which will satisfactorily handle various associated ingredients.

The term mesh is defined as the number of openings per lineal inch of screen surface. For example, a 72-mesh screen cloth has 72 openings per inch. A screen with square openings needs only to be checked along one side to deter-

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mine its mesh. Two standards — U.S. and Tyler — have been established to assign a definite openiag to each screen mesh. One gyratory screen may use screen cloths with several mesh sizes with the products of each being routed out of the machine for use elsewhere in the plant's process.

Three variables are involved in determining the comparative openings of screen cloth. These are the mesh or number of openings per lineal inch, the actual openings between the wires, and the diameter of the wires. It is impossible to change the mesh, wire diameters, or openings in a screen without affecting either or both of the other variables.

Screen capacity of products is determined by their penetration rates through a given mesh. These rates vary with the physical and chemical characteristics of the products screened. The screen analysis of the feed, its tendency to develop static charges, its moisture content, and other characteristics must be taken into consideration.

Since capacity is based on the percentage of open area in the screen cloth, it is possible to increase it by selecting a screen cloth with the same aperture size but smaller diameter wire. This will cause a decrease in mesh which will result in an increase in the percentage of total screen area occupied by the wire and a decrease in the percentage of open area.

Flexibility of screen combinations in a gyratory unit permits a wide range of capacities. For rescreening or scalping, a combination of deep decks makes it possible to handle a greater depth of material over each screen cloth and pan. In most cases three or four deep decks will accommodate a greater volume and capacity than will five or six shallow decks.

For grading, capacity is dependent on the total square feet of screening area. To provide the greatest flexibility for this operation, the number of screen decks can be varied from three to a maximum of seven shallow decks.

Besides operating on lower power requirements, gyratory screens need little floor space — 14 to 16 square feet per up to 55 square feet of screening surface — and are easy to clean and maintain. They are able to handle materials at temperatures ranging from below 0 to 400° F.

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ASBESTOS OCCURRENCES—NYASALAND

According to the latest Annual Report of the Geological Survey Dept., Ministry of Natural Resources & Surveys, Nyasaland, an examination was carried out, by Mr. I. M. Kirkpatrick, of asbestos occurrences in the area of Choma Hill in the Kirk Range near the southern border of the Neheu District, where there has been sporadic prospecting for this mineral since 1919. Trenching was carried out, under the immediate supervision of Mr. I. O. Williams, in the main area of earlier workings immediately east of Choma Hill and also where small scale workings exist in the Bayani area about 1½ miles to the northeast. At Choma Hill a total of over 1,100 feet of trenching was done and old workings cleaned out for inspection, with a view to outlining the outcrop of the host-rock in which asbestos veins occur. Extensive asbestos veining was encountered in only one trench, the bulk of the material being very poor quality fibre of low tensile strength (anthophyllite) although occasional bundles of reasonably strong fibre were found. The veins occur in a clay which could possibly derive from serpentine or related material but the outcrop area of this is very small.

In the Bayani area matted talcose asbestiform material outcrops sporadically over a distance of about 1,000 feet along a northeast-southwest range, but a series of five trenches (totalling 500 feet) has shown that the outcrop is not continuous, being made up of three separate roughly oval-shaped areas. There is evidence to suggest that these may represent lenticular bodies, but it is also possible that they join in depth. Their surface dimensions (long and short diameters) are 100/100, 150/65 and 280/40 feet respectively.

The material exposed by trenching, and even that occurring in the walls of an old prospecting tunnel through the nose of the ridge at the most northeasterly occurrence, is badly weathered and only occasionally is fibre of any strength encountered. Prospect drilling of this occurrence is therefore planned to determine the form of the rock bodies and whether in an unweathered state the asbestiform material is of commercial interest.

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STANLEY WOODWARD, a member of the Board of Directors and a former President of *The Ruberoid Co.*, died on September 1st, 1963, at the age of 77. A veteran of more than half a century in the building materials industry, Mr. Woodward was co-founder in 1922 of Continental Roofing and Manufacturing Company, Baltimore, Maryland, which was acquired by Ruberoid in 1928. Since that time, he was active in Ruberoid's management, serving as a vice president, executive vice president, president, vice-chairman and a member of the executive committee.

Born in Brookline, Massachusetts, Mr. Woodward was educated in schools in Maryland. He began his career in 1907 with Warren Chemical and Manufacturing Company, manufacturers of asphalt roofing products. In 1913, he joined The Barrett Company and five years later was made Assistant to the Board Chairman of that company. He was a past official of the American Hardware Manufacturers Association.

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The Evolution of the Denovan Angle Head Hammer for the Vertical Fiberizer (Patented)

By: R. A. Denovan, President, Denovan Limited

The Denovan fiberizer is a vertical shaft multi-stage machine. The shaft carries a series of spider plates with pivoted hammers carried between the plates and extending to a running clearance from the liner plates.

The stages are divided by baffle rings (which also retain the liner plates) made with an extension inwards to direct the ore into the path of the hammers. These rings are made in sections, and each section has a stator arm extending inward to prevent any rotational velocity being carried to a following stage. There are twelve sections per stage. Their inner edge is about 38″ in diameter (out diameter is 48″). The circumference is then 120″. The twelve stator arms at 2½″ add up to 30″. Thus the net circumference is 120″ — 30″ = 90″.

The hammers throw the ore outward against the liner plates, whence it falls by gravity down through the following stages; after each stage directed by the baffle ring into the path of the following stage hammers.

The present standard double side H section hammer was developed some thirty years ago in connection with the development of the vertical fiberizer. These hammers are about six inches wide when new. They operate in a horizontal path. Their upper and lower surfaces are parallel and operate parallel to their path. This means that the falling ore falls on the hammer. Thus, instead of falling freely to be in position for the following hammer, it is hindered in its fall and disturbs the entire ore between hammers. The hammer wears with a reverse slope at the leading edge, which tends to throw the ore upward and so increases the loss in efficiency. With six hammers in the stage, 36″ of the available 90″ is obstructed; that is 40%.

The angled head hammer is designed to eliminate this trouble. We have found that an angle of 7° will raise the leading edge of the hammer high enough to give complete clearance for the body of the hammer. Only the leading edge makes contact with the falling ore. Hence the width of the hammer has no effect on the falling ore. The wear



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pattern on this hammer indicated a full elimination of the interference indicated by the wear pattern of the standard hammer. The wear pattern also indicated a more efficient use of the material in the hammer. As the width is not objectionable in the angled head, a wider and thinner flange can be used, resulting in a relatively lighter head which permits a lighter shank; all adding up to a smaller percentage of waste in the worn hammer.

An improvement in fibre is also indicated, as the obstruction caused by the old type hammers would tend to over-process the fibre. Also the small axial fan effect resulting from the angled heads will to a degree air sweep the process.

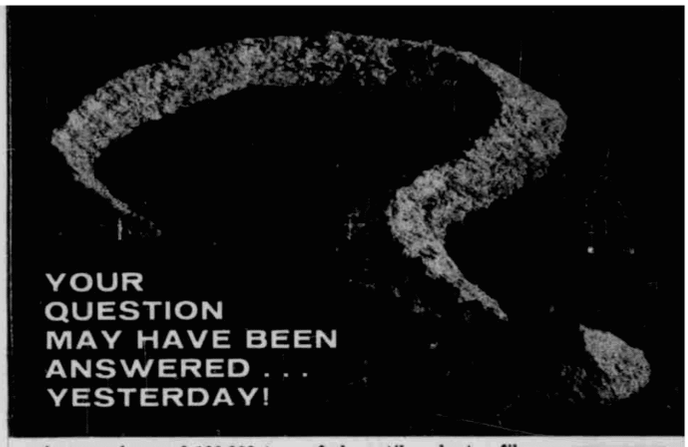
The basic objective in this revision is to obtain a hammer in which only the leading edge will have direct contact with the falling ore. Wider flanges and the angle result in increased depth from the upper leading to lower trailing edge. For this reason, we did not go beyond the 7°.

The relative vertical velocity of the falling ore and the horizontal velocity of the hammer indicates that an angle of about 3½° would give all the clearance needed. Hence, where the fan action may be undesirable the smaller angle can be used.

NATIONAL FIRE PROTECTION ASSOCIATION has issued the 1963 editions of its new and revised fire safety standards affecting a wide range of industrial, commercial and public interests. Available now in separate pamphlet form are the 52 new texts adopted at the recent NFPA Annual Meeting.

Copies of the new pamphlets may be ordered from NFPA, 60 Batterymarch Street, Boston 10, Massachusetts.

FIRE PREVENTION WEEK, October 6-12, 1963—offers a special opportunity to encourage public interest in fire safety. It was originated in 1911 as Fire Prevention Day by the Fire Marshals Association of North America and on recommendation of a *National Fire Protection Association* committee, it was extended to a week in 1922.



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NEW ASTM COMMITTEE AUTHORIZED

In The Field of Non-Metallic Inorganic Fibers

The formation of a new technical committee to be responsible for standards on non-metallic inorganic fibers was recently authorized by the American Society for Testing and Materials. The committee, using industrial definitions rather than the mineralogical, will be concerned with three general types of fibers—natural occurring; glass and slag; and manufactured, other than glass and slag. In establishing these three general types, consideration was given to the various types of fibers that would logically be involved and which generally would have common methods of tests.

The initial efforts of the new committee will be directed toward definition of terms and methods of tests.

A Steering Committee representing consumers, producers and general interest groups concerned with these various types of fibers, was selected. The members are: C. R. Hutcheroft (Chaairman)—Certain-teed Products Corporation; J. W. Axelson—Johns-Manville Research Center; F. Digesu—Southern Research Institute; W. M. Gaylord—Union Carbide Corporation; Dr. P. D. Gorsuch—General Electric Space Technology Center; J. A. Holman—Owens-Corning Fiberglas; J. R. M. Hutcheson—Quebec Asbestos Mining Association; Professor R. A. Keppel—University of Florida; and, S. Schulman—Research & Technology Division, U. S. Air Force.

The Steering Committee will meet in late October, 1963, to discuss organization and a proposed scope for approval by the ASTM Board of Directors. Anyone interested in this committee may obtain information from the Technical Department, ASTM Headquarters, 1916 Race Street, Philadelphia, Pennsylvania 19103.

WANTED

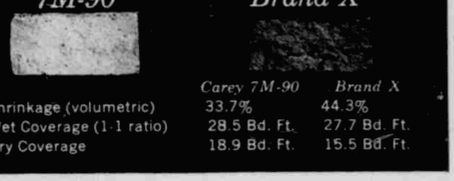
Sales Agents for Raw Asbestos in Japan and Australia. Emphasis on good connections in Plastics and Paper Industries. Confidential replies to Box No. 16-MS-RN, c/o "ASBESTOS", 807 Western Saving Fund Building, Philadelphia, Pennsylvania 19107, U.S.A.

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Shrinkage (volumetric)	33.7%	44.3%
Wet Coverage (1-1 ratio)	28.5 Bd. Ft.	27.7 Bd. Ft.
Dry Coverage	18.9 Bd. Ft.	15.5 Bd. Ft.

Information and samples may be obtained from your Carey Asbestos Fibre Sales Engineer or by contacting Carey-Canadian Mines, Ltd., P. O. Box 15095, Lockland, Cincinnati 15, Ohio, or The Philip Carey Company, Ltd., Ville St. Laurent, Montreal 9, P.Q., Canada.

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LOW PRICES

Asbestos Fibres for Use In Reinforced Plastics

Crocidolite and amosite asbestos materials for use in reinforced plastics are now available at the lowest prices—fiber length for fiber length—of any virgin reinforcement fiber, according to *North American Asbestos Corporation*. North American and the associated Cape Asbestos Group are the world's largest producers of these materials.

Crocidolite is being used increasingly for corrosion-resistant products, NAAC reported, because of its high resistance to acids, alkalies, neutral salts and organic compounds. Also, its tensile strength (average 600,000 psi and substantially higher test and calculated values) approaches the strength of synthetic metal whiskers. Amosite has comparable corrosion resistance and is used for economy where the high strength of crocidolite is not required.

North American reported on prevailing prices for crocidolite and amosite materials for reinforced plastics, the first time these figures have been issued for publication.

The prices for Noramite crocidolite fiber in standard staple from approximately ¼ inch to approximately 1¾ inch range from $0.13¼ a pound to $0.25 a pound. Special gradings refined for specific plastics applications range from $0.27 to $0.72 a pound with the 27¢ material most popular for premix use.

Standard gradings of amosite fiber are priced at $0.08½ to $0.14 a pound and special gradings are available on special order at $0.14 to $0.48 a pound.

Standard reinforcing mats and felts of Noramite crocidolite are priced at $1.42 a pound. Standard yarns, cloths and textile items of this blue asbestos range from $1.12 to $1.65 a pound.

Amosite mats and felts are listed at $0.96 a pound. Only limited items of amosite are available in other forms since crocidolite is normally used.

North American Asbestos also produces, at its Mundelein, Illinois, plant*, blends of crocidolite and amosite fibers in mat, non-woven fabrics and other forms. The asbestos fibers also are blended with a variety of natural and

NORAMITE

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These flexible new materials, based on long Crocidolite and Amosite asbestos fibers, offer an economical basic fabric suitable for a multitude of products. Insulating liners; base fabric for gaskets, for foil or coatings; plastics reinforcement – are a few of the many possible applications for NORAMITE Non-Woven Fabrics.



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In Canada

CAPE ASBESTOS (Canada) Limited

200 Bloor Street East • Toronto, Ontario • Canada

Subsidiaries of The Cape Asbestos Company Ltd. • London

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synthetic materials including exotic fibers for aero-space applications.

*See April 1962 "ASBESTOS", page 24.

ORANGEBURG MANUFACTURING COMPANY, a division of The Flintkote Company, has announced the availability of its new line of Flintite asbestos-cement building sewer pipe. Flintite asbestos-cement building sewer pipe, produced in 4", 5" and 6" ID sizes and in 5' and 10' lengths, has a minimum crushing strength of 1500 pounds per lineal foot, using the ASTM 3-edge bearing test method. The company's Weld-Tite couplings assemble quickly and easily, accommodate deflections up to 5 degrees at each joint, and virtually eliminate problems of infiltration, exfiltration and root penetration. A complete line of fittings and adaptors is available.

BENJAMIN FOSTER COMPANY, one of the country's leading manufacturers of adhesives, coatings and sealers for thermal insulation, will open its second plant within the past two years, with manufacturing facilities scheduled to begin operation by October 15th, 1963. The new plant is located at 5841 West 66th Street, in Chicago, Illinois' Clearing Industrial District near Midway Airport. The new plant consists of 11,000 square feet of floor space on approximately one acre of ground, with a railroad siding.

Lowell Protz, formerly Plant Manager at Foster's plant in Houston, Texas, will be Plant Manager of the new Chicago plant. He is being succeeded at Houston by *W. Daniel Friend*, previously in charge of the Quality Control Department at the Foster Technical Department Laboratories, Ambler, Pennsylvania. Mr. Friend has been in Houston since early May taking over the duties of Plant Manager.

In addition to Philadelphia, Houston and Chicago, Foster Products are manufactured in Niles, California; Windsor, Ontario, Canada; and, by licensees in principle foreign countries.

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Flintkote Mines Ltd., Thetford Mines, P.Q., Canada
In England — The Flintkote Co., Ltd., Adam House, 1 Fitzroy Square, London W-1, England

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AUTOMOBILE SALES

	July 1963
Passenger Cars	660,915
Trucks and Buses	129,053
	789,968

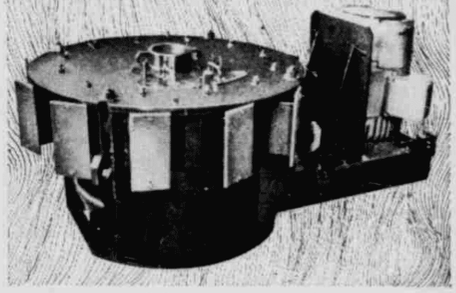
In July 1962 a total of 687,706 motor vehicles were sold. In the 7 months of 1963 the total was 5,549,409.

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

ASBESTOS MINING METHODS, by C. V. Smith, a 16-page pamphlet describing the various methods employed in mining asbestos, and, MILLING ASBESTOS, by J. C. Kelleher, companion article to Asbestos Mining Methods, 16 pages, are available at 25¢ each from "ASBESTOS", 807 Western Saving Fund Building, Philadelphia, Pennsylvania 19107.

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NEW SIMPLICITY D'CENTEGRATOR



Produces longer fibres with fewer fines

On-the-job performance has proved that the new Simplicity D'centegrator will produce longer fibres. The horizontal impeller action fibrizes so thoroughly that the longer fibres are not "dirtied." Tests to date also indicate a higher recovery rate and a lower percent of fines. Basic design permits lower initial cost and exceptionally low maintenance costs.

Model 24-A has 12 fibrizing bars and will take up to 60 t.p.h. of 2" cubical feed. Simplicity D'centegrators are now producing higher profits for mills in the U.S., Canada and South Africa. Write or call for literature and your own test at our plant.

312

OTHER MINING INDUSTRY EQUIPMENT: vibrating screens, feeders, grizzly feeders, scalpers, crushers, conveyors.

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ENGINEERING COMPANY • Durand 18, Mich.

CANADA: Simplicity Materials Handling Ltd., Guelph, Ont.
EXPORT: Brown & Sites, 50 Church St., New York 7, N.Y.

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In the most modern asbestos mill in the world, exacting milling techniques enable J-M to maintain complete uniformity of fibre within more than 60 commercial grades.

assured by Johns-Manville

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J-M combines the production of the free world's largest asbestos mine in Asbestos, Quebec, with the facilities of the world's largest asbestos mill. Highly skilled asbestos technicians use the latest equipment to provide a precise control of production that assures uniformity, correct grading and maintenance of quality standards.

For free literature, write to Canadian Johns-Manville Co., Ltd., Box 1500, Asbestos, P.Q., Canada, or to Johns-Manville Asbestos Fibre Sales, Research and Engineering Center, Manville, New Jersey.

JOHNS-MANVILLE

THE NAME TO THINK OF FIRST FOR ASBESTOS FIBRE

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ASTM has now made standard, *Designation C 460-63*, its list of definitions of terms relating to *asbestos-cement products* previously published as tentative. This list of definitions contains approximately 50 terms which are in common use throughout the industry.

A typical definition is for "head lap" which is defined as—For singles that provide double coverage, head lap is the shortest distance between the lower edge of a course of shingles and the most proximate underlying area of roof deck not covered by the preceding courses of shingles.

These definitions serve to augment and clarify many terms appearing in the several ASTM Specifications for Asbestos-Cement Products such as corrugated sheets (C 221) and pipe (C 296).

Copies of this new standard as well as others in the asbestos-cement products field may be obtained from the American Society for Testing and Materials, 1916 Race Street, Philadelphia, Pennsylvania 19103.

ASTM—Dedication of the cornerstone for a new $3-million headquarters for the internationally renowned American Society for Testing and Materials was hailed September 16th, 1963, by participating federal and local officials as an event symbolizing "cooperative progress in our free-enterprise economy" and strengthening Philadelphia's reputation as "America's most resurgent city". The new building is scheduled to be completed and occupied by ASTM early in 1964 and dedication of the building is planned for mid-May.

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BAUER BROS. CO., Springfield, Ohio, manufacturers of a wide line of equipment for size reduction, separation and classification, have developed a new centripetal classifier designed for one pass operation and extra-high throughput. Identified as the *Centri-Sonic (T) Classifier*, the new Bauer machine incorporates several unique, patented features to provide high capacity and accurate control of particle size. It is expected that almost any dry, finely powered material, including non-metallic minerals, requiring precise classification can be successfully processed in the unit. It is a heavy duty machine, built for continuous service and is compact, measuring 86" in height, 64" in width, and 104" in length (Measurements do not include coarse cyclones). A remote starter-control system is available from Bauer as optional equipment. Coarse fraction cyclones and drive motor are furnished as standard equipment.

CALIFORNIA ASBESTOS INDUSTRY, by Salem J. Rice, Staff Geologist for the California Division of Mines and Geology, is a very informative article which appears in the September 1963 issue of "Mineral Information Service". This article is concerned with the mineralogy of asbestos and deposits and economic basis of recent developments of asbestos in California.

Copies may be obtained by writing Mary Hill, Editor, Mineral Information Service, California Division of Mines and Geology, Ferry Building, San Francisco 11, California.

"ASBESTOS BULLETIN"

Keeps you abreast of all developments. Each issue contains over 100 abstracts relating to the manufacture of asbestos-based products. Special chapters on asbestos mining, asbestos-cement, friction and asbestos-reinforced plastics. Annual Subscription £9.15.0d.

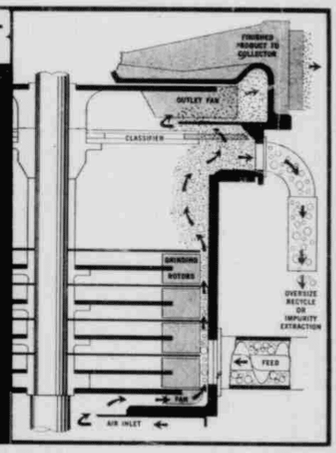
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by C. Z. Carroll-Porczynski

This valuable new book deals with numerous new aero-space materials, including several chapters on asbestos and asbestos composites. About 1,000 references. Price £2.18.6d.

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Heavy duty, high capacity air attrition mill. Designed for sub-sieve processing of asbestos, filler clays, technical ceramics, rare earth oxides, pigments and other friables. Provides particle reduction to any desired average size from 150 microns to less than one micron. Plus extraction of such impurities as silica, sand, mica, iron, etc.

Ask for our help on processing problems. Remember, we supply a wide range of crushers, hammer mills and attrition mills for preliminary size reduction. Send for literature.

The Bauer Bros. Co. Springfield, Ohio

In Canada: The Bauer Bros. Co. (Canada) Ltd., Brantford, Ont.

$10,000 RUBEROID AWARD—E. J. O'Leary, President of The Ruberoid Co., presented a check for $10,000 to Thomas H. Hodne of Hodne Associates, a Minneapolis, Minnesota, architectural firm. Mr. Hodne and six of his associates submitted the top winning design in Ruberoid's Fifth Annual Architects' Competition which was sponsored on behalf of New York City's urban renewal program.

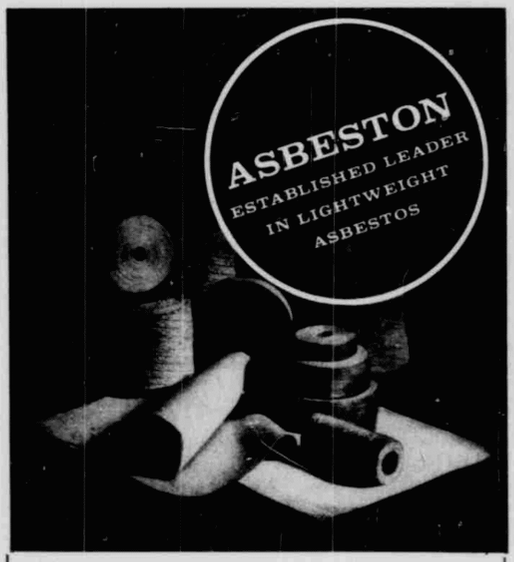
U.A.M.—The Sheeting Division of the Universal Asbestos Manufacturing Company Limited, Watford, Hertfordshire, England, is supplying more than 1,700,000 square feet of insulated roofing for Europe's largest shoe warehouse. The 15-acre store is under construction at Braunstone, Leicestershire, for the British Shoe Corporation. This is the largest order for the roofing material—Fortsandwich construction asbestos-cement sheeting—ever awarded to U.A.M. and it is valued at more than £80,000.

ARMSTRONG CORK COMPANY has published a four-page illustrated pamphlet outlining complete procedures for the care and maintenance of *acoustical ceilings*. The pamphlet describes in detail how to clean all types of acoustical materials; includes specific instruction on repainting; and, explains what type of paint to use, how to prepare the surface, and how to apply the paint so as not to reduce the acoustical efficiency of the ceiling.

Copies may be obtained without charge from Armstrong Cork Company, Department P.I., Lancaster, Pennsylvania.



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UNITED WAY



When you need asbestos in any textile form, specify ASBESTON...for more than twenty years the leader in lightweight asbestos textiles.

And when unusual or special high-temperature conditions must be met, call on our experienced technicians to adapt the unique ASBESTON spinning process to the special yarns or fabrics you need.

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BUILDING

Construction contract activity moved ahead again in August 1963 as all major categories registered gains, F. W. Dodge Corporation reported. Contracts for future construction in the United States totaled $4,061,492,000, an increase of 12% compared to August 1962.

Nonresidential building contracts, at $1,322,180,000, were 12% ahead of August last year. Commercial building advanced 3%, but manufacturing plant contracts were down 13%. Industrial building is currently much stronger than the August-to-August comparison would indicate. There was a strong rise from July in manufacturing contracts, after seasonal adjustment, and the year's cumulative total stands 7% ahead of 1962's at the end of 8 months.

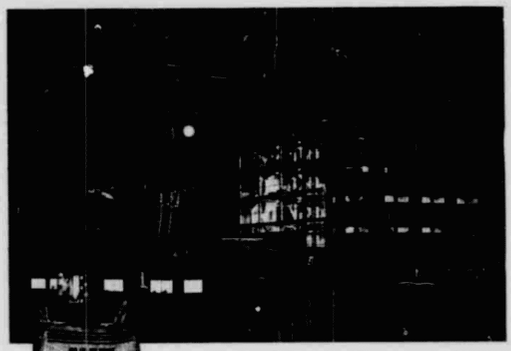
The large educational building category was up 26% and contracts for public buildings were more than double their year-ago volume. Hospital contracts were ahead by 55% while religious buildings dropped 21% below the August 1962 contract value.

Residential building contracts topped August 1962 by 14% with a value of $1,882,533,000. Apartment building posted another large gain—43%—while one- and two-family housing advanced 6%.

Public works and utilities, with a combined total of $856,779,000, both showed gains in contract value during August. Streets and highways advanced 5% and contracts for sewer systems were up 55%. Total public works contracts, lagging 1962 volume in the early part of this year, are now 2% ahead on a cumulative basis.

Contracts for utilities construction exceeded August 1962 for only the second time this August. The modest 3% gain was concentrated in electric and water utilities and left a deficit for the year-to-date of 13%.

Cumulative totals of construction contracts for the first 8 months of 1963 with percentage changes for the same 1962 period, are: non-residential building, $9,794,136,000, up 9%; residential building, $13,888,926,000, up 12%; and, non-building construction, $6,829,758,000, down 2%—total construction, $30,512,820,000, up 8%.





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MARKET CONDITIONS

GENERAL BUSINESS.

General business continues to show a slow but steady improvement. Steel production is slightly higher and a further, substantial improvement is expected in October. Auto production is picking up as most producers have completed their model changeovers and attainment of full scale production should soon occur provided the public demonstrates its acceptance of the new models. The stock market reached a new, all-time high in September, sentiment being heavily influenced by the near certainty that the President's tax cut proposals will soon be adopted by the Congress. The only pronounced soft spot is in the oil industry where a gasoline oversupply has led to substantial price reductions by refiners in some areas.

ASBESTOS—RAW MATERIAL.

Quebec asbestos fibre shipments for the Industry during August 1963 were 117,944 tons and exceeded the same period last year by 9,170 tons or approximately 8%.

Year to date shipments at 716,286 tons are running 22,943 tons or roughly 3% ahead of the same period 1962.

ASBESTOS—MANUFACTURED GOODS.

Asbestos Textiles. Manufacturers of asbestos textiles are continuing to operate their plants at a high level of production in spite of the generally unsatisfactory prices which have prevailed in the past months. Recent price increases of specific items, however, are expected to lead to general price improvement throughout the industry. The high rate of automotive production, reminiscent of 1955, the industry's peak, is expected to contribute to a high fourth quarter demand for asbestos textiles.

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ASBESTOS CEMENT MACHINERY

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Asbestos Brake Lining. The market for this product is still running in advance of the 1962 market both in Original Equipment (O.E.M.) as well as in Replacement and sales totals in both divisions of market should be at near record levels for the year. Prices in the Brake Block Market are not firm due to intense competitive activities.

Asbestos Paper & Millboard. The demand for these products continues to be good with strong activities in the Auto and Steel Industries. This situation should continue through the fourth quarter of this year.

Asbestos Saturated Paper. The present situation of this market is seasonally good and sales for the remainder of 1963 should be better than average.

High Pressure Insulation. Prices are very firm and business is, at present, running 10% higher than during the first six months of this year. This condition should remain good for the rest of the year.

Low Pressure Insulation. The demand for this material continues to be strong and the outlook for the rest of the year is good. The volume of sales for this industry seems to be at a new all-time high.

Asbestos Cement Shingles—Roofing & Siding. Present orders for this material are coming in at a slower rate than this time last year and this condition is expected to continue for the rest of the year.

Asbestos-Cement Pipes. The demand for all pipes continues to be very high with new construction activity. The future market appears likely to continue at this current level.

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

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Producers of Soft, Low Iron, White Chrysotile
Crudes and Filter Fibre
MINES AND MILL IN GILA COUNTY

PRODUCTION

AFRICA (Southern Rhodesia)

(Published by Rhodesian Mining and Engineering) *Tons 2,000 lbs.*

	Production	Value
Asbestos: July 1963	10,940.74	£448,003*
July 1962	11,576.00	£610,121*

*Corrected to the nearest £.

CANADA

(Dominion Bureau of Statistics) *Tons 2,000 lbs.*

Producer's Shipments in July 1963 (Quebec)	103,460
Ontario & British Columbia	8,821
	112,281

Total shipments for July 1962 were 96,856 tons.

AUSTRALIA

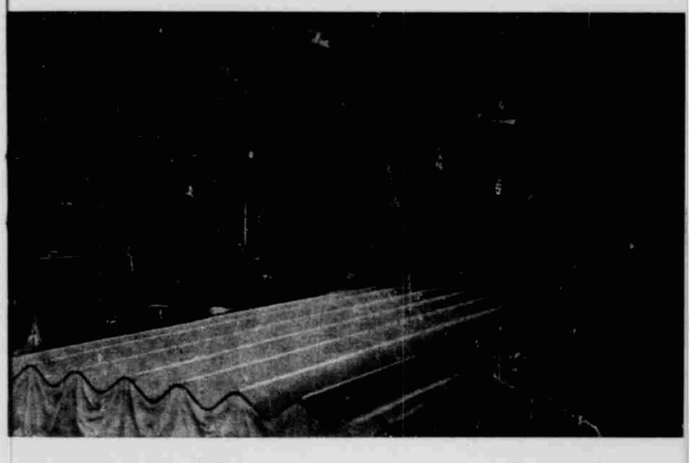
(Published by Bureau of Mineral Resources) *Tons 2,000 lbs.*

4th Quarter 1963	Production	Imports	Exports
Amosite	..	1,515	..
Chrysotile	274	8,626	2
Crocidolite	3,754	11	2,605
Other	..	975	28
	4,028	11,127	2,635
Year 1962			
Amosite	..	7,079	..
Chrysotile	901	29,707	2
Crocidolite	17,491	19	9,685
Other	..	2,300	51
	18,392	39,105	9,738

Total apparent consumption of all types of asbestos in 1962 was 47,800 short tons compared with 45,587 tons in 1961.

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Importer of Raw Asbestos
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plants for producing asbestos - cement corrugated sheets



Machines for producing asbestos-cement sheets directly corrugated, having constant thickness or variable thickness with the lower profile equal to the upper one.
The sheets are obtained using as the starting material a thick slurry, deposited in superposed layers on corrugated moulds and compressed by means of mechanical vibrations.
With this type of machines short and very short asbestos fibres can be employed.

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MACHINES FOR ASBESTOS-CEMENT PRODUCTS
VIA ROMA 27 BRONI (PAVIA) ITALIA TEL. 51024

IMPORTS & EXPORTS

Imports Into U.S.A.

(Figures by Bureau of the Census) — May 1963

Unmanufactured Asbestos: — Short Tons

From: Canada	58,155
Republic of South Africa	2,977
Rhodesia & Nyasaland	450
United Kingdom	295
Other Countries	100
	61,977

Valued at: ..$5,377,140

By Grades:

Crude, Blue, Republic of South Africa	305
Rhodesia & Nyasaland	105
Crude, Chrysotile, Canada	101
Rhodesia & Nyasaland	130
Crude, Amosite, Republic of South Africa	2,552
Textile Fiber, Canada	1,501
Other Fibers, Canada	56,553
United Kingdom	295
Republic of South Africa	120
Rhodesia & Nyasaland	215
Other Countries	100
	61,977

Manufactured Asbestos Goods:	Quantity (lbs.)	Value
Asbestos Yarn, United Kingdom	33,406	$ 25,584
Other Countries	6,707	7,792
Asbestos Packing, United Kingdom	18,439	10,647
Other Countries	5,188	6,923
Asbestos Shingles (Impreg), Belgium	1,678,871	264,543
Other Countries	239,370	9,112
A-C Pipe & Fittings (Not Imp), Mexico	1,235,950	98,285
Belgium	3,366,432	198,228
West Germany	2,109,458	84,716
Italy	1,245,082	54,428
Israel	1,356,701	56,278
Japan	1,776,535	77,913
A-C Mfgs., Other (Not Impregnated)	93,663	7,128
Asbestos Manufactures—Other	..	5,225
	13,165,802	$906,802

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pressure pipes
socket pipes
flat and corrugated sheets

Projecting — Erecting — Handing over in ready-for-operation condition

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Imports By United Kingdom

Raw Materials

Tons 2,240 lbs.	July 1963
From: Republic of South Africa	2,251
Basutoland, Bechuanaland & Swaziland	723
Rhodesia & Nyasaland	3,869
Canada	6,937
Other Commonwealth Countries & Irish Republic	281
Foreign Countries	22
	14,083

Exports From U.S.A.

(Figures by Bureau of the Census) May 1963

Unmanufactured Asbestos:	Short Tons	Value
To: Argentina	8	$ 2,513
Australia	44	3,332
Canada	7	2,010
France	25	8,620
Indonesia	480	57,942
Italy	129	25,900
Japan	280	30,464
Korean Republic	13	1,050
Netherlands	63	4,834
United Kingdom	20	1,880
West Germany	83	9,430
Other Countries	14	2,213
	1,166	$ 150,188

Manufactured Asbestos:	Production	Value
Asbestos Cement & Pipe Covering ..Lbs	1,177,084	$ 176,467
Asbestos Textiles & Yarn .....Lbs	121,849	81,438
Asbestos Packing .....Lbs	240,550	285,263
Asbestos Clutch Facing .....No	207,341	138,017
Asbestos Bk Lng (Mld & S.Mld) ..Lin Ft	115,361	38,676
Asbestos Brake Lining, Other .....Lbs	590,004	368,402
Asbestos Construction Material ....Lbs	1,092,689	197,253
Asbestos Manufactures—Other	..	180,488
		$1,466,004

WOVEN AND NEEDLED

ASBESTOS CEMENT

SHINGLE, PIPE AND

CORRUGATING FELTS

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Exports From Canada

(Published by Dominion Bureau of Statistics)

	July 1963	
Unmanufactured Asbestos:	Short Tons	Value
Crude		
United States	1	$ 1,404
United Kingdom	..	..
South America	..	..
Central America & Mexico	..	..
European Countries	1	228
Other Countries	4	3,030
	6	$ 4,662
Milled		
United States	15,689	$ 2,987,373
United Kingdom	4,023	726,789
South America	5,098	941,418
Central America & Mexico	1,653	288,923
European Countries	19,279	3,430,805
Other Countries	11,271	1,810,120
	57,013	$10,185,428
Shorts		
United States	39,298	$ 2,109,540
United Kingdom	4,692	248,110
South America	1,117	78,451
Central America & Mexico	146	8,142
European Countries	8,339	660,399
Other Countries	5,906	486,910
	59,498	$ 3,591,552
Grand Total—		
Unmanufactured Asbestos:	116,517	$13,781,642
Manufactured Asbestos:		
Brake Linings Facings		$ 19,354
Asbestos-Cement Building Materials		69,507
Asbestos-Cement Products, Other		32,758
		$ 121,619

William H. Parker has been appointed as General Manager, Building and Cold Storage Insulation Division, of CANADIAN ASBESTOS COMPANY. He was formerly District Manager of Armstrong Contracting Canada Limited and prior to this was Manager of the Insulation Division, Armstrong Cork Canada Limited.

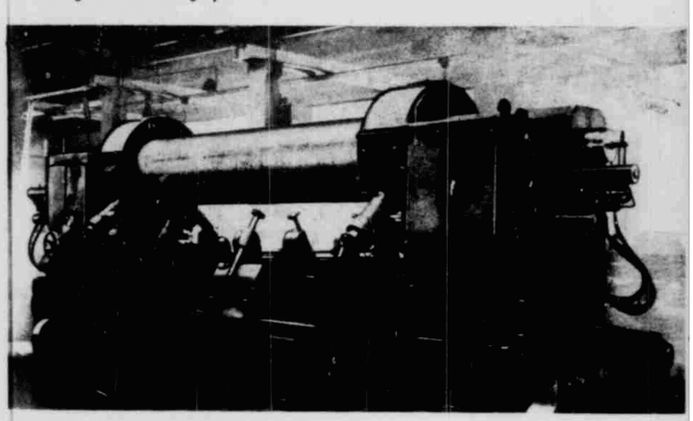
The above appointment was announced by Walter F. Marcuse, President of Canadian Asbestos Company.

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INDUSTRY NEWS

HAPPY BIRTHDAY

W. F. Marcuse, President, Canadian Asbestos Company, St. Laurent, Montreal, Canada, September 18.
Joseph N. Kuzmick, Vice President & Director, Manhattan Rubber Division, Raybestos-Manhattan, Inc., Passaic, New Jersey, October 15.
David E. Kelley, President, Kelley Asbestos Products Company, Kansas City, Missouri, October 16.
Wm. F. Reed, President & Treasurer, Asbestos Distributors Inc., Port Chester, New York, October 17.
Charles T. Limerick, Vice President—Manufacturing, Building Products Division, The Ruberoid Co., New York City, October 18.
Walter A. RuKeyser, Consulting Engineer, Montreal, Canada, October 19.
Charles P. Miller, Treasurer, Scandura, Inc., Charlotte, North Carolina, October 20.
E. J. Buczkowski, Certain-teed Products Corporation, Ambler, Pennsylvania, October 22.
Francis E. Dutcher, Vice President for Building Products Division, Johns-Manville Corporation, New York City, October 24.
Harry E. Humphreys, Jr., Chairman, United States Rubber Company, New York City, October 24.
H. C. Morton, Vice President, Friction Division, The Russell Manufacturing Company, Middletown, Connecticut, October 28.
Kenneth T. Dawes, Vice President, General Counsel & Director, Asbestos Corporation Limited, Thetford Mines, Canada, November 2.
Antoinette Ozurovich, Secretary-Treasurer, Atlantic Asbestos Corporation, New York City, November 3.
Ernest S. Sprinkmann, President, Sprinkmann Sons Corporation, Milwaukee, Wisconsin, November 3.
Kazaburo Nozawa, President, Nozawa Asbestos Industrial Company Limited, Kobe, Japan, November 4.
Charles B. Purcell, President, Western Asbestos Company, San Francisco, California, November 4.
William P. Barry, Assistant Secretary, Smith & Kanzler Corporation, Linden, New Jersey, November 5.
Dirk Salomons, Director, Asbestcementindustrie—"Asbestona" N.V., Amersfoort, Holland, November 5.
Charles W. Hanslip, General Manager, Standco Brake Lining Company, Los Angeles, California, November 8.
Dr. Richard Gaze, Director, The Cape Asbestos Company Limited, Barking Essex, England, November 9.

BELL ASBESTOS MINES LTD.
THETFORD MINES, QUE.
CANADA

Producers of
Raw Asbestos Crudes
& Fibres

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for
Cassiar Asbestos Corporation Limited

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Willis G. Sullivan, Secretary, Asbestos & Magnesia Materials Company. Chicago, Illinois, November 12.
Don L. Hinmon, Vice President for Industrial Divisions, Johns-Manville Corporation, New York City, November 14.
Karl V. Lindell, Chaairman, Canadian Johns-Manville Company Limited, Asbestos, Quebec, Canada, November 14.

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

A. B. Davidson has resigned as President and Director of UNITED ASBESTOS CORPORATION LIMITED. He has been associated with the Company for many years and his retirement from the Board has been necessitated by the pressure of business.

Philip M. Malouf, founder and Vice-President of UNITED ASBESTOS CORPORATION LIMITED, has been appointed President; **Richard F. Dooley,** of Chicago, Illinois, has been elected Vice-President; and, **J. Arthur Dupont,** of Montreal, Canada, has been elected a Director.

Dr. Allan W. Stoner has been appointed Manager of Fiber Research and Development for the Textile Division of UNITED STATES RUBBER COMPANY and will report to Dr. G. R. Cuthbertson, Division Technical Director. He will be responsible for all fiber research and development.

Dr. Stoner was Manager of the Synthetic Fiber Research Department at U. S. Rubber's Research Center in Wayne, New Jersey, where he will continue to make his headquarters.

He joined the company in 1956 as a Research Scientist in the application of atomic energy to the rubber field and in fundamental chemical research.

GUMMI ASBEST KUNSTSTOFFE

is the asbestos periodical in Europe which covers editorially in each issue the production, processing and application of asbestos. Therefore, it is read by all firms connected with the importing and processing of asbestos in 60 countries and is used for advertising by the asbestos mines all over the world.

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CURRENT RANGE OF PRICE

As of October 10, 1963

ARIZONA— Per Ton of 2,000 lbs., f.o.b. Globe, Arizona

No. 1 Crude (soft)	$1,475.00 to	$1,650.00
No. 2 Crude (soft)	800.00 to	1,000.00
Group No. 3 (Non-Ferrous Filtering & Spinning)	425.00 to	500.00
Group No. 4 (Plastic & Filtering)	385.00 to	420.00
Group No. 5 (Plastic & Filtering)	250.00 to	400.00
Group No. 7 (Refuse & Shorts)	58.00 to	90.00

CANADA— Per Ton 2,000 lbs. f.o.b. Mine
Canadian Currency

Group No. 1 (Crude No. 1)	$1,410.00 to	$1,475.00
Group No. 2 (Crude No. 2); Crude Run-of-Mine and Sundry	610.00 to	875.00
Group No. 3 (Spinning Fibre)	350.00 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)	.. to	86.00
Group No. 7 (Refuse or Shorts)	40.00 to	80.00

VERMONT— Per ton of 2,000 lbs. f.o.b Mine
(U.S. Dollars—converted to Canadian equivalent)

Group No. 3 (Spinning & Filtering)	$ 345.00 to	$ 402.00
Group No. 4 (Shingle Fibre)	181.00 to	320.00
Group No. 5 (Paper Fibre)	120.00 to	142.00
Group No. 6 (Waste, Stucco or Plaster)	.. to	86.00
Group No. 7 (Refuse or Shorts)	40.00 to	75.00

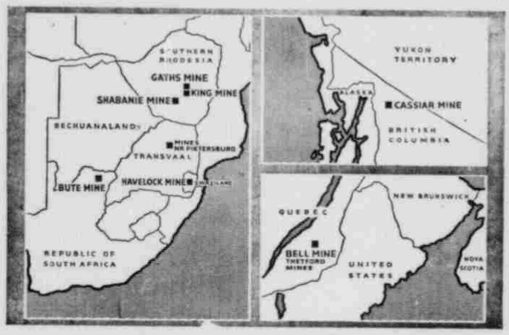
CASSIAR— Per Ton of 2,000 lbs., f.o.b. Vancouver, B. C.
Canadian Currency

AAA grade (non-ferrous spinning fibre)	$ 787.00
AA grade (non-ferrous spinning fibre)	625.00
A grade (non-ferrous spinning—Canadian Group 3)	470.00
AC grade (asbestos cement—Canadian Group 4)	325.00
AK grade (shingle fibre—Canadian Group 4)	220.00
AS grade (shingle fibre—Canadian Group 4)	181.00
AX grade (shingle fibre—Canadian Group 5)	142.00

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ASBESTOS STOCK QUOTATIONS

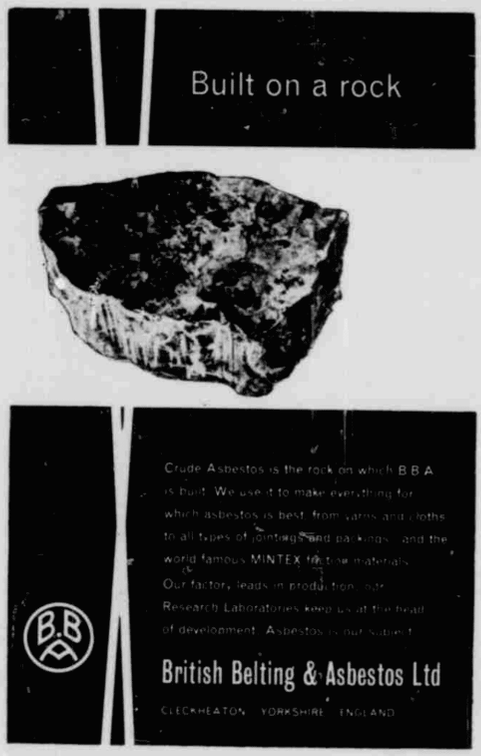
These figures are compiled from the Commercial & Financial Chronicle. No guarantee as to their correctness.

	Par	September 1963 Low	High	Last
Advocate Mines, Ltd.	1	$6.40	$7.65	$7.30
American Brake Shoe	np	52	54⅜	52
Amer. Smelting & Refining (Com)	np	78⅝	87⅞	79½
Amer. Smelting & Refining (Pfd)	100	170½	177⅝	175⅛
Armstrong Cork (Com)	1	96½	102	98½
Armstrong (Pfd)	np	87½	90	88
Asbestos Corporation	np	24	25⅜	25
Philip Carey	10	24⅜	25⅛	24¾
Cassiar Asbestos Corp.	np	10¾	11¾	11⅜
Certain-teed	1	14¼	16⅝	14¾
Fibreboard	np	28½	33⅜	30½
Flintkote (Com)	5	21⅛	23¾	21¼
Flintkote (Pfd)	np	86	88⅛	87½
Jefferson Lake Asbestos	1	3⅜	5¼	4½
Johns-Manville	5	47¼	49½	48
National Gypsum (Com)	1	45	47¼	46⅜
National Gypsum (Pfd)	np	99¾	101¾	100¼
Porter, H. K.	100	99½	100½	100½
Raybestos-Manhattan	np	40	41¾	40
Ruberoid	1	27½	29⅜	27½
Seagrave Corp.	2½	9½	11	9⅝
Unarco Industries	5	13½	16¾	15⅝
United Asbestos	1	$2.70	$3.05	$2.75
U. S. Rubber (Com)	5	47½	49⅞	47½
U. S. Rubber (Pfd)	100	165¼	169¼	168¼

Dr. Myril C. Shaw has been appointed as Fiber Research Specialist for the Pipe Division of CERTAIN-TEED PRODUCTS CORPORATION, Ardmore, Pennsylvania. He will be engaged in research activities relating to the asbestos fibers used in asbestos-cement pipe products and will be able, in these endeavors, to continue studies of asbestos fibers, a project he has been concerned with over the past seventeen years.

Dr. Shaw was formerly Executive Director and Research Fellow of the Asbestos Textile Institute where his activities related to the manufacture and utilization of asbestos textiles. In this capacity he worked closely with many governmental agencies and the American Society for Testing and Materials preparing specifications for asbestos textiles used by the Navy and Army Ordinance Departments as well as civilian users of these materials.

The above appointment was announced by M. Stanley Davis, Vice President and Division General Manager for Certain-teed.



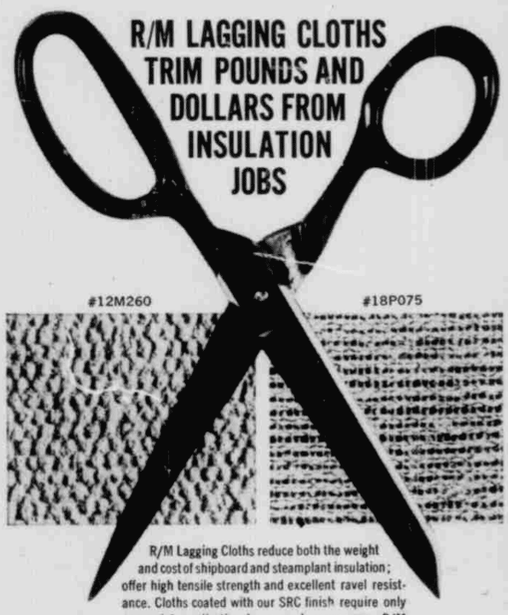
Joseph H. Clark has been named, for ORANGEBURG MANUFACTURING COMPANY, a division of The Flintkote Company, as Sales Engineer in charge of Flintite asbestos-cement pressure pipe, gravity sewer pipe, building sewer pipe and irrigation pipe in the company's Chesapeake Sales District (Delaware, Maryland and Virginia).

James A. Main has been elected as Vice President of FLINTKOTE MINES LIMITED, a subsidiary of The Flintkote Company. Mr. Main, Assistant Secretary of The Flintkote Company, is headquartered in Flintkote's New York office at 30 Rockefeller Plaza.

Flintkote Mines Limited operates an asbestos mill and quarry at Thetford Mines, Quebec, Canada, where it produces a broad line of high quality chrysotile asbestos fibres. The Company also owns an asbestos deposit in Ham Township, Quebec.

Harold E. Beard has been appointed Manufacturing Manager of gypsum and asbestos products for the Flintkote Division of THE FLINTKOTE COMPANY. He will be headquartered at the company's main office at East Rutherford, New Jersey. Mr. Beard will have full responsibility in the manufacturing and mining operation at Flintkote's gypsum plants in Sweetwater, Texas, Camden, New Jersey and the plant scheduled to be built in Savannah, Georgia, next year; will supervise the company's gypsum quarry at Flat Bay, Newfoundland and the asbestos mine and mill at Thetford Mines, Quebec, Canada; and, will be responsible for the operation of Flintkote's asbestos-cement plants at East Rutherford, New Jersey, Chicago Heights, Illinois, and New Orleans, Louisiana, as well as its Van Packer chimney and stack plants at Buda, Illinois and Carbon Cliff, Illinois.

Kenneth McLarty has been appointed Manufacturing Manager for building, industrial and flooring products of THE FLINTKOTE COMPANY's Flintkote Division. Mr. McLarty will be headquartered at the company's main office at East Rutherefore, New Jersey, and will be responsible for the manufacturing operations of the Flintkote Insulation Board plant in Meridian, Mississippi, its Insulrock plants in Richmond, Virginia, and North Judson, Indiana, the floor tile plants in Chicago Heights, Illinois and New Orleans, Louisiana, and felt mills located in Lockport, New York, Mt. Carmel, Illinois, Little Ferry, New Jersey and New Orleans. Mr. McLarty will also oversee the company's asphalt roofing plants in Chicago Heights, Illinois, East Rutherford, New Jersey, New Orleans, and Ennis, Texas, its industrial products plant in Whippany, New Jersey and its adhesive plant in Philadelphia, Pennsylvania.

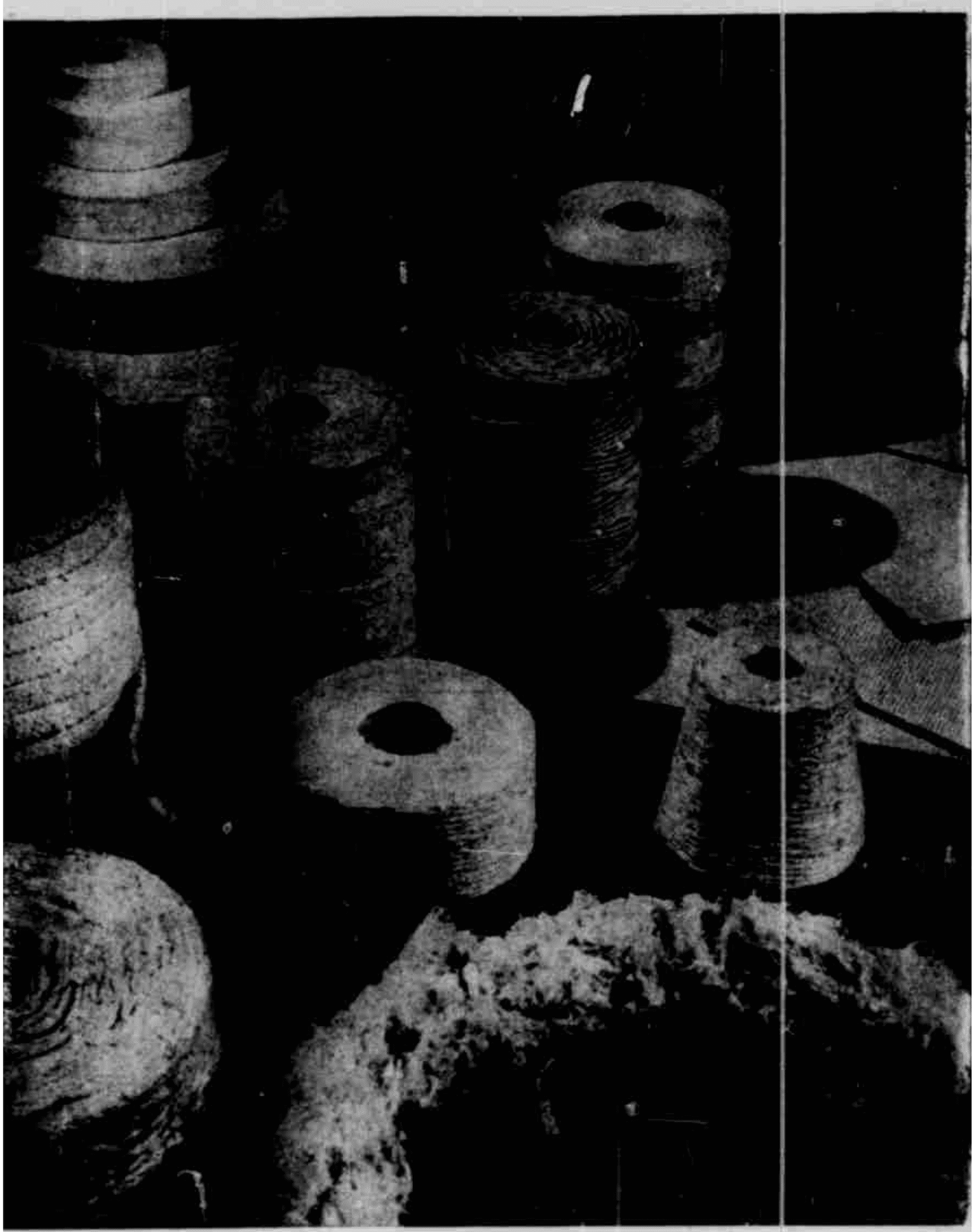


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