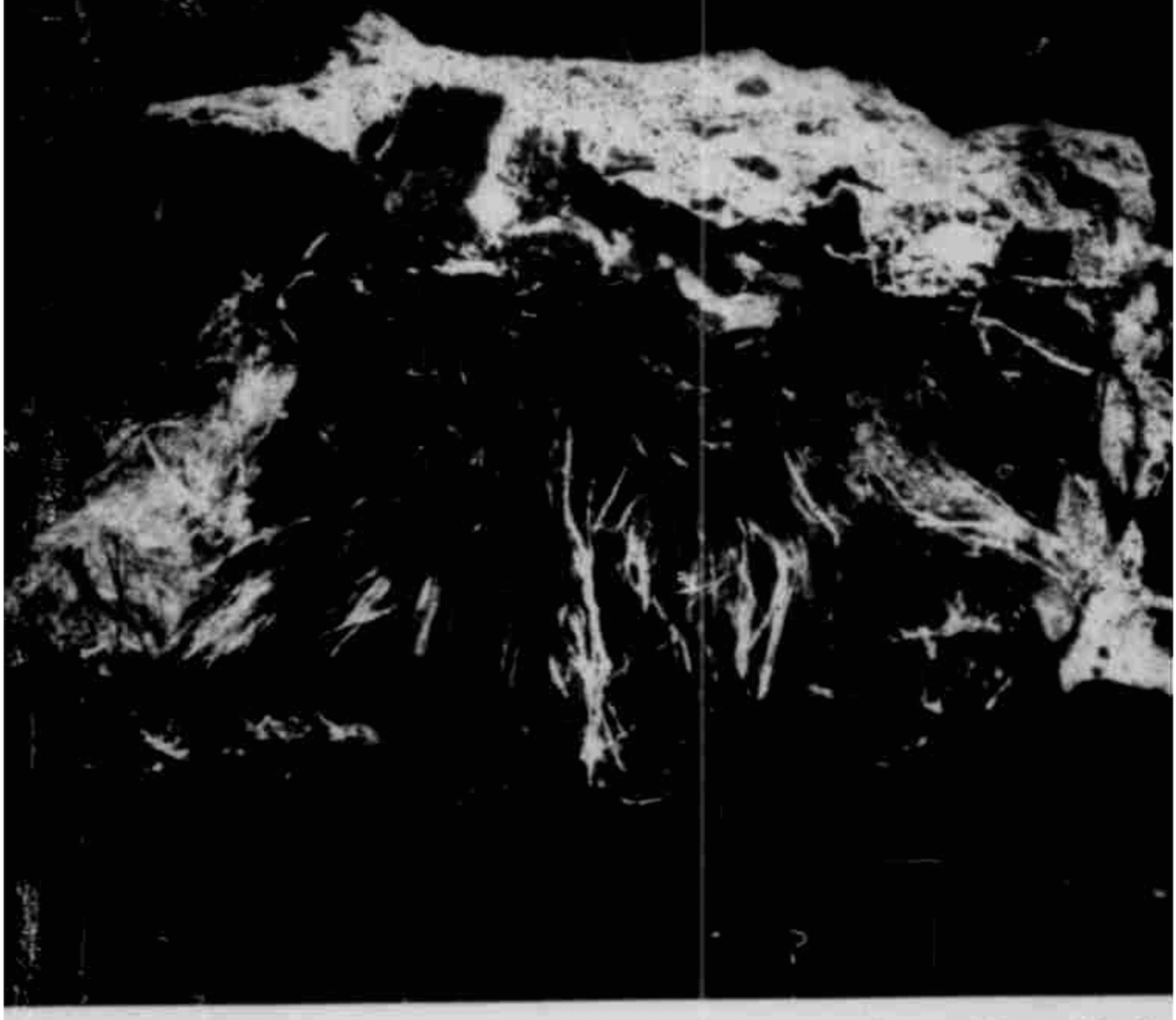
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NEW DUST CONTROL METHODS AT PENGE

Largely at the instigation of the asbestos industry the Pneumoconiosis Act of 1962 made provision for research into the problems associated with asbestos and also empowered the Minister to raise funds from the Government and the Industry for this purpose. Soon after the promulgation of the Act, in October 1962, a Steering Committee was formed to investigate the whole problem of asbestosis and to make recommendations to the Minister as to how this problem should be tackled. Two sub-committees were also formed, one Engineering and one Medical, to examine the different aspects of the problem. By January 1963, the Steering Committee had prepared its report and recommendations, many of which were put forward by the Cape Asbestos Group, and the report was submitted to the Minister in February 1963. It is interesting to note that it was considered that no less than 80% of the funds to be provided for research should be utilized in trying to solve the engineering problems of dust control and elimination.

The Steering Committee recognized that the quickest way to arrive at a solution of the asbestosis problem was for it to be tackled at source; suppress and eliminate the dust and the battle would be won.

It was easy enough to say "Suppress and eliminate the dust", but how could this be done efficiently, surely and economically? The following recommendations were made:

1. The elimination of all open discharges to atmosphere from dust collecting and air conveying fans, by interposition of an effective dust collecting apparatus.

2. The installation of an effective method of handling the highly dangerous collected dust in such a way that workers would not be exposed during the handling operation, or subsequent to disposal.

3. The disposal of dry tailings in such a manner as to ensure dust-free handling and tipping.

4. The covering or consolidation of tailings dumps in such a way as to ensure that dust could not be raised by wind.



5. The prohibition of the use of tailings for surfacing roads, playing fields, etc., and the avoidance of the creation of dust and spillage during filling, transporting and emptying of motor vehicles used to transport dry ore.

6. After solving (1) and (5), i.e. things which affect the largest number of persons, attention to be devoted to improvement of conditions in the mills themselves, where a small number of persons can be exposed to high concentrations of dust. The only feasible solution is to devise a totally enclosed, or as nearly as possible totally enclosed milling circuit.

7. The prevention of dusty conditions during the transport and handling of bagged fibre on motor vehicles, on railways, at docks, in factories, etc.

At Penge Asbestos Mine, the problems posed by Numbers 1 to 6 have been solved. Research continues on Number 7.

Dust separation is not cheap. A total of 90,000 c.f.m. of air is needed in the single new shorts plants at Penge, for aspiration and dedusting. This is equivalent to 1,350 cubic feet of air per pounds of fibre produced. The most modern mill in Canada, which is ten times larger than the new mill at Penge, uses only about half the quantity of air. The reason for this is the use of air-swept mills at Penge and the use of air for the horizontal transportation of ore and fibre, as against gravity in the Canadian mills. The total installed horsepower of this new plant is 796, of which 230 horsepower is used to generate the air for the dedusting operation. This amounts to 29% of the total horsepower. The proportion of the total capital cost employed on dust elimination is almost the same. The mill was erected at a cost of R240,000, and of this amount 27.5% was spent on the dedusting equipment.

This new shorts plant is the first step towards the complete replacement of the existing plants, which are fifteen or more years old and, by modern concepts of efficiency and dust control, are completely obsolete.

Since this plant is at the end of the milling line, the arrangements for disposing of tailings and collected dust, etc. have had to be made sufficiently large to enable them to cope with the tonnage contemplated when the whole project is complete!.

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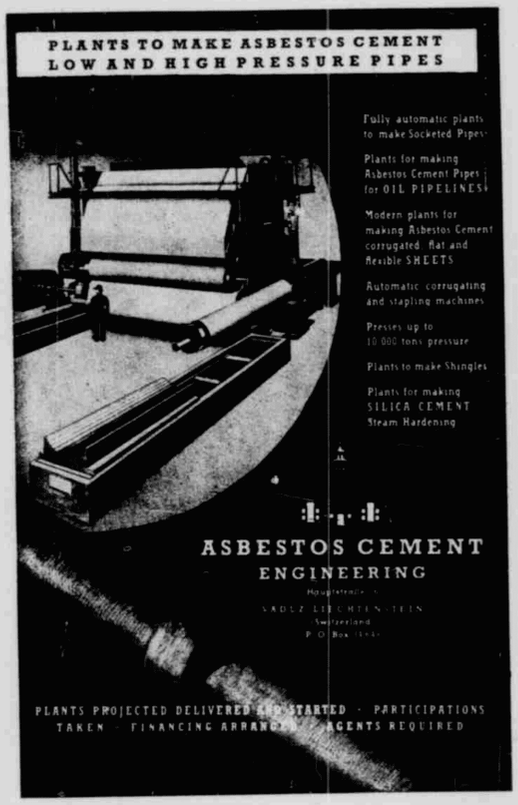
It is interesting to note that the water requirement of this plant is likely to be very large. The water is required for washing the ore and for disposal of collected dust, and will amount to possibly 800,000 to 1,000,000 gallons per day. This is the total quantity presently being pumped out of the mine. We are fortunate to have this supply because most asbestos mines are situated in arid areas, where water is always a problem.

Work on this project was undertaken by the engineers of Cape Asbestos S.A. (Pty) Limited, under the direction of the company's technical director, Mr. L. N. Kuyper. One of the greatest problems facing the designers was how to obtain a dust collecting plant which would operate continuously at an efficiency of 99.9% in respect of — 5 micron particles, and yet be able to collect approximately 20 tons of dust per day and then dispose of this in a dust-free manner.

The problem of separating the fibre and fine dust from the air was a major one. On the gold mines, where milling operations are wet and dust concentrations relatively low, dust control is a fairly simple matter. For example, if the standard for gold mines was 200 particles per c.c. and there were 2,000 particles present, the dust extraction plant could be as low as 90% efficient and still do an effective job. Applying the same standard of 200 particles per c.c. to an asbestos mill, however, where possibly up to 2,000,000 particles per c.c. may be present, indicates that the plant must be at least 99.9% efficient, particularly in the range of — 5 micron sized particles. This is the standard of the new Penge mill dust collection system.

The point of continuous operation is important. Ordinarily, cleaning of dust filters and disposal of collected dust can consume up to 25% of the available milling time, with consequent loss of production. Furthermore, the resistance of non-continuous collection is continually changing, with consequent changes in the air characteristics of the plant, leading to lowered efficiencies or even the complete malfunction of dedusting equipment.

Inside the mill everything has been arranged for almost completely totally enclosed conveying and handling.



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Belt conveyors have been eliminated. Hammer and fiberizing mills are enclosed, leak-proof and completely air swept. High wear characteristics, peculiar to the amphibole fibres, and due to the extreme hardness of the host rock, have been catered for by heavily lined ducts, cyclones, etc. Sufficient air has been provided for the prevention of build-up in ducts which lead to "chokes", the bugbear of asbestos millers, which negate the most sophisticated efforts to produce a dust-free plant. A vacuum cleaning device has also been provided to clean out individual machines when they are opened for inspection and repair, so preventing dust and fibre from getting onto the floor, where wind and sweeping would cause it to become airborne.

With the design and construction of this new shorts plant at Penge, Cape Asbestos believes that a standard has been set which can meet the most critical examination, and believe, too, that the objective of the research envisaged by the Pneumoconiosis Act of 1962 has been achieved.

Penge, the largest amosite asbestos mine in the world, is situated close to the Olifants River, in a fold of the Manoutsa Mountains, some 20 miles to the north of the main Lydenburg/Pietersburg road, in the Transvaal, Republic of South Africa. This rugged and picturesque mountain range forms part of the Drakensberg, and lies in the heart of Sekukuniland. The nearest town is Lydenburg, 65 miles away, and the distance from Johannesburg is 268 miles.

The deposit at Penge is some 20 miles long and dips at an angle of 20 degrees to the west. Most of the ore from the Penge Mine, which compares in size with a medium-sized Witwatersrand gold mine, is produced from semi-shrinkage stopes operated on the "herring-bone" system. In the stopes the face is carried on dip, the shrinkage comprising a scatter wall about 50 feet thick. It is kept at this thickness in order to give some degree of support close to the face, because the permanent supports built behind the wall are usually some distance from the working face. The ore is brought to surface up the Keep vertical shaft, the depth of which is 1,436 feet, making Penge the deepest asbestos mine in South Africa

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After milling, the bagged asbestos fibre is taken by lorry to railheads at Aapiesdoring and Burgersfort, some 22 miles from the mine, and from there it is railed for export through Lourenco Marques to virtually every manufacturing country in the world.

The early days of Penge date back to 1907, when a general dealer named C. J. Ward found outcrops of asbestos on the right bank of the Olifants River, one and a half miles from the site of the present mine. Mining started on a very small scale in 1910.

In 1916, Egnep (Pty) Limited and Amosa (Pty) Limited were registered to acquire leases of the mineral rights over the farms Penge and Streatham, and both these companies were acquired by the Cape Asbestos Company in 1925.

DUST READINGS TAKEN IN S33 PLANT, PENGE, DURING NORMAL PRODUCTION RUNS ON FEBRUARY 5 & 6, 1964.

Air Sample Points	Number of workers in area	Modified Thermal Precipitator ppcc	Modified Thermal Precipitator npcc	Konimeter ppcc	Konimeter npcc
1. Aspiration Fans—in velocity discharge to atmosphere	NIL	29	3	95	3
2. Dedusting System Fans—in velocity discharge to atmosphere	NIL	51	4	120	5
3. Primary Cobra Mills—in Plant, 5 feet above floor	NIL	24	2	24	3
4. Secondary Cobra Mills—in Plant, 5 feet above floor	NIL	38	3	47	5
5. Universal Classifiers—in Plant, 5 feet above floor	2	38	19	40	22
6. 30" H.S. Cobra Mills—in Plant, 5 feet above floor	2	38	12	59	29
7. Bagging Area—in Plant, 5 feet above floor	6	45	117	81	40
8. Mezzanine Floor	NIL	45	45	65	22

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9.	Storage Bin—outside Plant during loading	1	..	..	13	1
10.	U.B. Plant Feed Bin on weighing floor	2	156	63	17	6
11.	U.B. Plant Feed Bin on loading floor	2	..	..	20	5

Notes: 1. Weather Conditions: Fine and clear with wind Force 1 from N.W.

2. Thermal Precipitator readings shown are mean of two series taken on different days.

3. Dust counts in the Plant can be expected to improve when final bagging arrangements are completed. (Especially Points 5 to 8.)

ASBESTOS MATS—As a result of a development by the *Ontario Research Foundation*, military personnel and civilians operating in remote areas may be able to carry thick-walled rigid shelters as packrolls in the near future. Alternatively, a barracks for sleeping a dozen men might be rolled up in a pack and dropped from an airplane or transported in a canoe. The unfurled packroll would turn into a rigid, highly insulated cabin or barracks at the touch of a match to a fuse. Such possibilities are suggested by a flexible foamed-plastic sheeting which has a built-in heat source and, when ignited, foams the plastic and expands it into a rigid or semi-rigid wall more than three inches thick. The sheeting is basically a sandwich of a plastic material and a pyrotechnic heating device in the form of a thin layer. The center of the sandwich is made up of a polyethylene-coated aluminum-foil envelope which contains a powdered foamable epoxy resin. Bonded on each side of this envelope are pyrotechnic sheets, which in turn are made up of thin asbestos mats sandwiched between fibre glass fabric. The asbestos mats are impregnated with an iron powder and sulphur mixture which, when ignited, generate the heat required to foam the epoxy resin. On expansion the sheet gives a rigid or semi-rigid foamed product with densities in the range of 3 to 5 pounds per cubic foot. The material is still in an early stage of development, and much work will have to be done before it will be ready for practical application.



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ASBESTOS TEXTILE INSTITUTE has prepared a pamphlet entitled "*Method For Determining Asbestos Dust Concentration*" as approved by the members for use in their own plants and officially approved by the Institute.

This pamphlet, of approximately twenty pages, covers the procedure for determining the total asbestos dust concentration in air, also a method to differentiate particle and fiber size. It outlines the method to be used, apparatus required, procedure for sampling, method of counting dust particles, calculation of results, midget impingers, microprojection as an aid in counting microscopic dust, particle and fiber sizing, an Industrial Hygiene Work Sheet, and an Industrial Hygiene Permanent Record Survey Sheet.

The method and apparatus set forth and described in this pamphlet is the work of the Air Hygiene & Manufacturing Committee, whose members are all actively engaged in asbestos manufacturing operations and very familiar with the occupational hazard that exists in the handling of asbestos without proper safeguards to employees. They have done a great deal of research on this subject, and a "Bibliography On Dust Counting" containing twenty-seven references is included in this pamphlet.

The pamphlet is priced at $1.00 each and orders should be sent to the Asbestos Textile Institute, P. O. Box 239, Pompton Lakes, New Jersey 07442 U.S.A.

The Institute believes this pamphlet to be a most important contribution in respect to obtaining a reduction in the occupational hazard that exists whenever asbestos dust exceeds safe working levels.

CORRECTION—In the May 1964 issue of "ASBESTOS", on page 14, it was announced that Mr. C. H. McNaughton had become Vice-President, Production for Asbestos Corporation Limited. However, the post to which Mr. McNaughton has been appointed is Vice-President, Operations.



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Inauguration of a new "custom grinding" service for Canada's fast growing process industries highlights a recently completed major expansion program by The Bauer Bros. Co., Brantford, Ontario, Canada.

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The fine grinding department is equipped with commercial size Bauer equipment, including a Hurricane(T) Pulverizer-Classifier (air attrition mill with integral classifier), attrition mills, refiners, hammermills, crushers, dust collection system, cyclone and exhauster.

Now Bauer is in a position to offer its customers not only complete service on equipment and systems, but also a choice of the most feasible and profitable methods of production to meet their own specific requirements.

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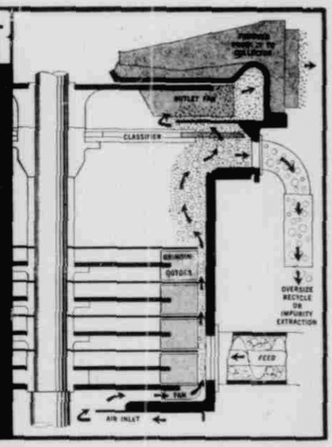
Bauer's entire program includes overall building expansion which now houses the firm's newly upgraded production facilities, the new laboratory, fine grinding department, plus new engineering facilities.

The Brantford firm designs, engineers, and manufactures individual equipment as well as complete systems for size reduction, refining, separation, classification, fluid expression, impregnation, digestion and extraction. Bauer serves the pulp and paper, asbestos, food, chemical and other major industrial processing industries.

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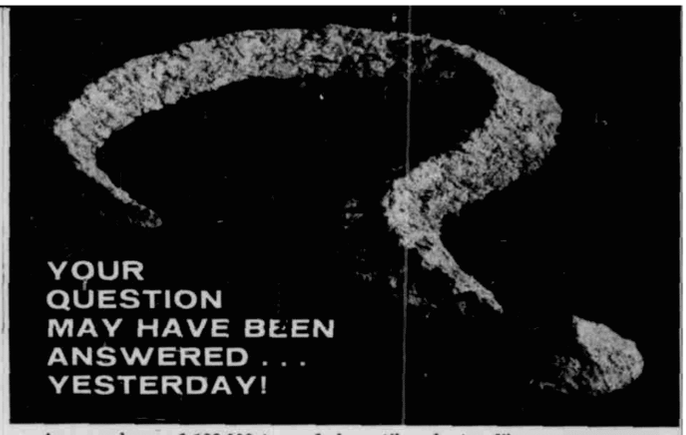
AUTOMOBILE SALES

MARCH 1964—The Automobile Manufacturers Association, Detroit, Michigan, has issued the following statistics for March 1964 of motor vehicle factory sales from plants in the United States and Canada: passenger cars 718,035, trucks and buses 142,510; total for March 1964 was 860,545 compared to 782,529 in March 1963. Total motor vehicles for the first three months of 1964 amounted to 2,534,283.

ASTM METRIC PRACTICE GUIDE has been prepared to provide both present units and their converted equivalents in the recognized international units of the Systeme International (SI). These equivalents will be included in all future ASTM standards. To serve the interests of both science and industry, ASTM has assumed a position of leadership, working with other organizations toward the development and use of a common system of measurement. The metric system is official for all nations except the British Commonwealth and the United States. Because U.S. industry faces increasingly stiff competition in countries using the system, its specifications must also include metric terms. While ASTM believes it desirable and necessary for industry to prepare for wide use of the metric system, it does not now advocate or recommend any change in presently established values or tolerances but, rather, advocates publishing both the present units and their precise metric equivalents.

A single copy, requested on company letterhead, will be sent without charge from the *American Society for Testing and Materials*, 1916 Race Street, Philadelphia, Pennsylvania 19103. Additional copies are 25c each and discounts on quantity orders are available upon request.

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BUILDING

APRIL 1964—According to F. W. Dodge Company, a division of McGraw-Hill, Inc., the value of construction contracts in the United States during April 1964 (with percentage changes from April 1963) totalled $4,359,443,000, up 9%; nonresidential building, $1,420,326,000, up 17%; residential building, $2,006,034,000, up 1%; and, nonbuilding construction, $933,083,000, up 19%.

DR. CLIFFORD F. RASSWEILER has retired as Director and Vice President of Research, Development and Engineering of *Johns-Manville Corporation*. He will continue to be active in the corporate management and industrial research field as President of Rassweiler Consultants, Inc., P. O. Box 206, Millburn, New Jersey.

In his operating capacity with J-M, Dr. Rassweiler has been responsible for planning and directing J-M's *broad program of research*, development, and engineering activities devoted to building materials, insulations and allied industrial products. An internationally known specialist on integrating scientific activities into commercial operations, Dr. Rassweiler began his career with J-M in 1941 as Director of Research and Development.

Dr. Rassweiler is a recipient of the Chemical Industry Medal from the *American Section of the Society of Chemical* Industry for outstanding contributions to the Chemical industry, and the Industrial Research Institute Medal for outstanding performance in the organization and direction of industrial research.

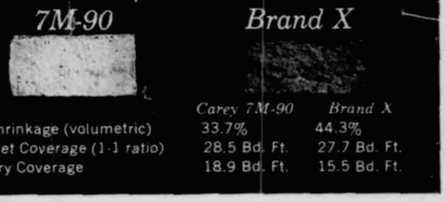
C. STANLEY manufacturers since 1906
MORGAN WOOL FELT-ASBESTOS PIPE COVERINGS
1124 OAKMAN BOULEVARD — DETROIT 38, MICHIGAN

CONTRACTORS
*save money on "BlueMud"!**

New Carey-Canadian 7M-90 has the following advantages • Trowels easier—reduces labor costs • Whiter finish • 15% less shrinkage • 10% more dry coverage • Hard, non-dusting surface • Competitively priced to save you money.

*Trade vernacular for 7M Asbestos Shorts

Note these laboratory-proven differences in shrinkage and whiteness between Carey-Canadian 7M-90 and a well known competitive 7M.



	Carey 7M-90	*Brand X*
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.

Carey®

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DR. G. RAYMOND CUTHBERTSON, Technical Director of the Textile Division of United States Rubber Company, was presented with an honorary LL.D. degree from William Jewell College in Liberty, Missouri, on May 25th, 1964.

Dr. Cuthbertson began his professional career as a *Research Chemist in 1936 with U. S. Rubber at their* Passaic, New Jersey, laboratories where he invented and patented a new method of processing expanded cellular rubber. During World War II he led U. S. Rubber's activities in developing one of the first synthetic rubber tires and represented the company on many government and industry committees. Located in Winnsboro, South Carolina, Dr. Cuthbertson is currently directing U. S. Rubber's technical efforts in the field of synthetic fibers and fabrics.

NEW R/M PYROTEX YARN *has been developed* by the Reinforced Plastics Department of *Raybestos-Manhattan, Inc.* for aircraft, aerospace, and missile applications where tape-wrapping and filament-winding fabrication techniques are commonly used. It is recommended for use as an ablation-resistant structural and thermal insulator. Designated R/M Style 41-RPD Pyrotex Yarn, the new asbestos-phenolic material was developed as a supplement to R/M Style 41-RPD Pyrotex felts and tapes and is available in 3-pound spools.

NATIONAL GYPSUM COMPANY *has introduced a* new building material that looks and cuts like wood but weathers like brick or rock. The material, called *Woodrock*, is a combination of wood and asbestos fibers and portland cement. It will be used first in the form of clapboard siding for new home construction.

ROGER Q. KYLE, pioneer asbestos miner in Arizona, passed away May 20th, 1964. He operated asbestos mines in Arizona for over 60 years and was well known throughout the world in the Asbestos Industry.

NORAMITE

Versatile NORAMITE Non-Woven Fabrics Offer The Manufacturer Opportunities For Product Quality, Production Economy

Non-Woven Asbestos Fabrics

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.



NAAC

In the United States
NORTH AMERICAN ASBESTOS CORPORATION
Board of Trade Building • Chicago 4, Illinois

In Canada
CAPE ASBESTOS (Canada) Limited
200 Bloor Street East • Toronto, Ontario • Canada

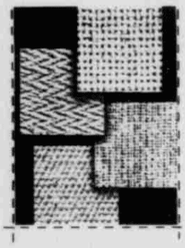
Subsidiaries of The Cape Asbestos Company Ltd. • London



J-M Asbestos Yarn —made from uniform high-quality roving. Available in any grade, cut or ply Plain, reinforced with other yarns or wire, or treated.



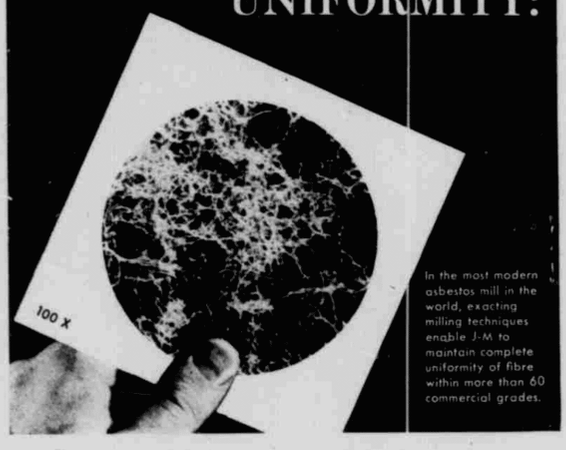
J-M Asbestos Tape uniform high-grade yarns that combine exceptional electrical and thermal insulating properties with high tensile strength.



J-M Asbestos Cloth—uniform texture from light-proof to open weave. Exceptional resistance to heat, flame, chemicals. In all standard grades.

An important "plus" in J-M Asbestos FIBRES or TEXTILES...

UNIFORMITY:



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

Whether you require raw asbestos fibres or finished textiles . . . be sure of uniform quality by dealing with asbestos headquarters . . . *Johns-Manville.*

J-M combines the production of the world's largest asbestos mine at 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 FIBRE literature write Asbestos Fibre Division, Box 1500, Asbestos, Quebec, Canada.

For TEXTILE literature write Asbestos Textiles Department, Box 14, New York 16, N.Y.

JOHNS-MANVILLE JM PRODUCTS

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MARKET CONDITIONS

GENERAL BUSINESS.

General business continues to show improvement. Automobile sales and production continue at record levels and steel production is at a very high level, although most producers feel a decline is due in the near future. New building construction awards and machine tool orders show substantial increases over the year-ago level indicating that industrial expansion is continuing at a good pace. Latest analysis of the disposition of industrial and personal savings due to the tax cut indicates that no substantial spending has resulted thus far and that the effect has been pretty much psychological up to now. If this is correct, the actual spending which has been widely predicted may well serve as a shot in the arm should the present prosperous economic situation show any signs of deterioration.

ASBESTOS—RAW MATERIAL.

Quebec asbestos fibre shipments for the Industry during April 1964 were 113,731 tons, an increase of 11,653 tons or 11% over the same period last year.

Year to date shipments at 323,695 tons exceed the same period 1963 by 40,861 tons or approximately 14%.

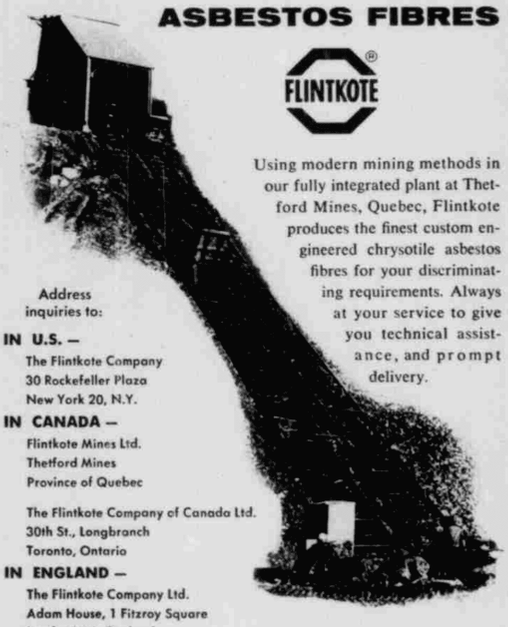
ASBESTOS—MANUFACTURED GOODS.

Asbestos Textiles. The upward trend in shipments of manufactured asbestos textile commodities as experienced by this industry in the first quarter of 1964 has continued at the same relative pace during the second quarter, to date. Beneficial to this industry is the fact that usage has been wide spread which is an indication that all phases of the asbestos textile commodity industry are sharing in the current growth of American industry as a whole.

Asbestos Brake Lining. The present market situation for this product is good and should improve during the months to come.

HIGHEST GRADE
CHRYSOTILE
ASBESTOS FIBRES

FLINTKOTE®



Using modern mining methods in our fully integrated plant at Thetford Mines, Quebec, Flintkote produces the finest custom engineered chrysotile asbestos fibres for your discriminating requirements. Always at your service to give you technical assistance, and prompt delivery.

Address inquiries to:

IN U.S. —
The Flintkote Company
30 Rockefeller Plaza
New York 20, N.Y.

IN CANADA —
Flintkote Mines Ltd.
Thetford Mines
Province of Quebec

The Flintkote Company of Canada Ltd.
30th St., Longbranch
Toronto, Ontario

IN ENGLAND —
The Flintkote Company Ltd.
Adam House, 1 Fitzroy Square
London W-1, England

Manufacturer Of
DIVERSIFIED PRODUCTS FOR HOME AND INDUSTRY

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Asbestos-Cement Siding. Generally good economic conditions plus increased promotion activity should result in an increase in the volume of business for this material.

Asbestos-Cement Pipe. The volume of orders for asbestos-cement pipe products continues to be high and is placing heavy demands on capacity. This condition indicates a good volume of business for the last half of 1964 and the total year should be one of the best years for this type of product.

Asbestos Filter Fibre. The demand for asbestos filter fiber is steady and demand is increasing for both short filter and acid washed filter fiber markets. New product developments are causing an increase in orders for low iron filter fibre. The outlook for the balance of the year is very encouraging from the supply and demand standpoint.

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

TR-375A is a new product fact sheet describing Transite Asbestos-Cement Underdrain Pipe and is available free from Johns-Manville, Pipe Division, Box JJMC-20, 22 East 40th Street, New York, New York 10016. This 6-page fold-out includes the latest data on unmachined Transite underdrain and the fluted plastic coupling with illustrations of and instructions for use in field assembly. It contains short form specifications, drawings, and dimensions of available fittings, a capsule-type explanation on the use of filter materials, how to use the flow nomograph to compute pipe requirements, and a list of recognized standards that approve Transite underdrain.

CANADIAN CHRYSOTILE ASBESTOS CLASSIFICATION, including description of method of testing on the Canadian Standard Testing Machine, January 9,1961 edition, is available at 35¢ per copy from "ASBESTOS", 807 Western Saving Fund Building, Philadelphia, Pennsylvania 19107.

NEEDLED FELTS

FOR

ASBESTOS CEMENT

PRODUCTS

SIDING
SHEETS
PIPES
ASBESTOS PAPER
MILLBOARD

Balanced synthetic contents

WORLD'S FIRST MANUFACTURER

OF NEEDLED

FELTS

Greater durability — Uniform quality — Rapid delivery



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U.A.M.—The Universal Asbestos Manufacturing Company Limited has announced that negotiations are advancing rapidly with Johns-Manville Corporation of America whereby they would license U.A.M. to produce asbestos-cement products by the ACE (Asbestos Cement Extrusion) Process, and would make available to U.A.M., technical information in the general field relating to the manufacturing of asbestos-cement. The Directors of U.A.M. consider that such an association would be of material and lasting benefit to the future expansion and progress of the Company.

AIR KING, manufactured by *Carl Drescher Company*, Burbank, California, is a new protective headgear with a controlled air unit designed to give maximum protection in environments of chemicals, dust, pollens and toxic vapors. The unit, with lightweight but sturdy helmet, can be fed from a stationary or portable power source through a non-collapsible ten-foot hose. The air is filtered to eliminate dust, can be filtered to remove chemicals and odors and cooling or warming the air is possible. The basic helmet affords more protection than a hard hat and some models give total impact protection. The protective shroud can be removed in two seconds for washing and replaced as quickly.

Other applications are being found for ground and air personnel in crop dusting operations, mines, quarries and wherever the face, head and respiratory system of workers need protection from contaminates or air-borne particles.



PIPE COVERING PROTECTORS

The "Royal" All Aluminum Adjustable and Permanent Protector for Pipe Covering-ends. Easy to Apply . . . Prompt Shipment.

THE PROTECTOR CO. • **GRANT WILSON, INC.**
SO. BOSTON 27, MASS. CHICAGO 4, ILL.



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.

Simplicity
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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T&N EXHIBIT—A few months ago Turner & Newall Limited set up a central Building Development Department to develop composite materials and systems based on the asbestos, plastics and insulation products of its ten United Kingdom subsidiaries. T&N will have a stand at the *Industrialized Building Systems and Components Exhibition* (Crystal Palace, June 23rd thru July 4th, 1964) and will demonstrate the application of existing and experimental T&N products to housing.

CAPE BUILDING PRODUCTS EXHIBIT—Cape Building Products Limited will exhibit at the *Industrialized Building Systems and Components Exhibition*. The special design of the company's Stand B34 and the products displayed and demonstrated, combine to illustrate the high degree of compatibility between Asbestolux and industrialized systems.

RUBBER RINGS "IDEAL" TRADE MARK 134939

snc *L'ideal Gomm*

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Specialized manufacture of

RUBBER RINGS FOR ALL TYPE OF JOINTS

for pipes of asbestos cement

plastic material - metals

Suppliers of the most important

Italian and Foreign manufacturers of pipes

ARIZONA ASBESTOS

Mined and Milled by

JAQUAYS MINING CORPORATION

1219 S. 19th Avenue

PHOENIX, ARIZONA



Producers of Soft, Low Iron, White Chrysotile Crudes and Filter Fibre

MINES AND MILL IN GILA COUNTY

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PRODUCTION

Canada—The Dominion Bureau of Statistics has issued the following for the month of February 1964 in short tons: Producer's Shipments totalled 70,554 (Quebec—63,882 and Newfoundland, Ontario, British Columbia 6,672). Total shipments for February 1963 were 64,537.

Canada—The Dominion Bureau of Statistics has issued the following for the month of March 1964 in short tons: Producer's Shipments totalled 82,153 (Quebec—75,813 and Newfoundland, Ontario, British Columbia—6,340). Total shipments for March 1963 were 74,984.

Cyprus—The Ministry of Commerce & Industry has issued the following statistics (production in short tons & exports in long tons) for the 1st quarter of 1964: January—Production 5; Exports 56, valued at £806; February—Production 10; Exports 1,240, valued at £72,974; and, March—Production none; Exports 643, valued at £35,835.

Southern Rhodesia—The Ministry of Mines, Salisbury, has issued the following statistics on asbestos: March 1964—Production 11,421.86 short tons, valued at £538,770.01.00.

Republic of South Africa—The Department of Mines has issued its Quarterly Information Circular for the 4th quarter of 1963 and the year 1963 containing the following statistics on asbestos: Production during the 4th quarter of 1963 totalled 53,473 short tons (Amosite—20,256, Chrysotile—7,798, Cape Blue—22,739, and Transvaal Blue—2,680); production for the year 1963 totalled 205,744 short tons (Amosite—77,618, Chrysotile—28,928, Cape Blue—87,965, Transvaal Blue—11,205 and Tremolite—28).

ASBESTOS FIBRES
ASBESTOS WASTE
Frank G. Ruggles Co. Inc.
19 RECTOR STREET
NEW YORK 6, NEW YORK

MORE MILLS PREFER
THE PROVEN NEEDLED FELTS FOR A LOWER REJECT RATE

They last longer and start faster . . . thus improving production and reducing felt cost.

ASK YOUR MAN FROM
HUYCK



IMPORTS & EXPORTS

Imports by United Kingdom

Raw Materials

Tons 2,240 lbs	March 1964
From: Republic of South Africa	3,334
Basutoland, Bechuanaland & Swaziland	179
Rhodesia & Nyasaland	5,398
Canada	2,954
Other Commonwealth Countries & Irish Republic	..
Foreign Countries	46
	11,911

Exports From U.S.A.

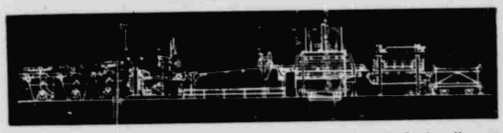
(Figures by Bureau of the Census) January 1964

Unmanufactured Asbestos:	Short Tons	Value
To: Australia	203	$ 28,500
Canada	10	1,140
India	35	3,638
Italy	16	1,600
Japan	112	18,364
Korean Republic	94	7,913
West Germany	9	1,760
Other Countries	2	493
	481	$ 63,408

Manufactured Asbestos Goods:	Production	Value
Cement & Pipe Covering	Lbs 1,071,977	$ 212,547
Textiles & Yarn	Lbs 137,481	91,462
Packing	Lbs 144,520	213,086
Clutch Facing	No 153,056	165,899
Brake Lining (Mld & S.Mld)	Lin Ft 97,217	45,185
Brake Lining, Other	Lbs 551,651	362,466
Construction Material	Lbs 1,150,212	145,507
Asbestos Manufactures—Other	..	109,375
		$1,345,527

WEHRHAHN

Machinery for the asbestos - cement industry is the result of more than a man's age of experience in the development, construction and erection of machines for asbestos-cement.



More than 50 asbestos-cement plants all over the world are successfully producing:

pressure pipes
socket pipes
flat sheets
corrugated sheets
shingles **on machines of**

WEHRHAHN

for your asbestos-cement project you are invited to contact:

GEBR. WEHRHAHN
287 Delmenhorst/Germany
Linoleumstr. 3 / P. O. Box 209
Tel. 45 91 / Telex 024 4874

Exports From U.S.A.

(Figures by Bureau of the Census)

Unmanufactured Asbestos:	February 1964 Short Tons	Value
To: Australia	100	$ 10.157
Canada	50	5.175
Italy	32	6.000
Japan	458	47.046
Korean Republic	425	31.326
Mexico	196	28.726
Republic of South Africa	6	1.565
Switzerland	5	2.000
West Germany	55	7.394
Other Countries	13	1.094
	1.340	$ 140.483

Manufactured Asbestos Goods:	Production	Value
Cement & Pipe Covering ..... Lbs	497.141	$ 80.579
Textiles & Yarn ..... Lbs	129.500	66.105
Packing ..... Lbs	110.451	168.377
Clutch Facing ..... No	122.975	123.120
Brake Lining (Mld & S.Mild) ... Lin Ft	124.819	49.580
Brake Lining, Other ..... Lbs	411.855	288.171
Construction Material ..... Lbs	1.143.045	160.132
Asbestos Manufactures—Other	..	117.062
		$1.053.126

Exports From Republic of South Africa

(Quarterly Information Report—Dept. of Mines)

	4th Quarter 1963 S. Tons	Value	Year 1963 S. Tons	Value
Amosite	20.394	R1,978.930	72.899	R 7.051.183
Chrysotile	3.922	285.275	16.109	1.506.680
Cape Blue	24.800	3.460.190	85.535	11.738.177
Transvaal Blue ...	3.408	420.307	9.309	1.145.941
Tremolite	..	..	9	375
	52.524	R6,144.702	183.861	R21.442.356

BURGDORF K.G.
Importer of **Raw Asbestos**
P. O. Box 1131, BREMEN, GERMANY



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INDUSTRY NEWS

HAPPY BIRTHDAY

Melvin F. Cerruti, Executive Vice President & Director, National Gypsum Company, Buffalo, New York, June 19.
Alexander S. Basil, President, Rockbestos Wire & Cable Co., Division of Cerro Corp., New Haven, Connecticut, June 20.
E. B. Poulin, Secretary-Treasurer, Asbestonos Corporation Limited, St. Lambert, Montreal, Canada, June 20.
Ladd, L. Wilson, Vice President, Nicolet Industries, Inc., Florham Park, New Jersey, June 20.
J. W. Weber, President & Treasurer, American Asbestos Textile Corporation, Norristown, Pennsylvania, June 22.
C. Branton Wheatley, President, Philadelphia Asbestos Company, Philadelphia, Pennsylvania, June 22.
Malcolm Meyer, President, Certain-teed Products Corporation, Ardmore, Pennsylvania, June 23.
F. Pearson, Managing Director, British Belting & Asbestos Limited, Cleckheaton, Yorkshire, England, June 26.
Thomas J. Walters, Sales Manager, Asbestos Products Division, Smith & Kanzler Corporation, Linden, New Jersey, June 27.
Milton R. Maddux, Director of Purchases, The Philip Carey Manufacturing Company, Cincinnati, Ohio, June 28.
F. E. Lewis, Senior Vice President & Director, Jefferson Lake Asbestos Corporation, San Francisco, California, June 30.
I. C. Campbell, Vice-President & Secretary-Treasurer, Asbestos Corporation Limited, Thetford Mines, Canada, July 3.
Arthur I. Rank, Jr., President & Treasurer, Universal Insulation Company, Philadelphia, Pennsylvania, July 3.
Howard E. Walker, Director of Research, The Flintkote Company, New York City, July 5.
C. L. Hoshaw, Manager, Insulation Technical Service & Construction, The Philip Carey Mfg. Co., Cincinnati, Ohio, July 7.
Capt. W. A. Janitch, R.E., Vice President, Asbestos Corporation Services Limited, London, England, July 10.
Alvin M. Ehret, Jr., Chairman of the Board, Baldwin-Ehret-Hill, Inc., Trenton, New Jersey, July 11.
Irving McCormick, President, The McCormick Asbestos Company, Baltimore, Maryland, July 13.
John F. Sullivan, Jr., President & Treasurer, Asbestos & Magnesia Materials Company, Chicago, Illinois, July 13.
Carlo M. Weber, Manager, Careystone Corrugated Department, The Philip Carey Mfg. Co., Cincinnati, Ohio, July 14.

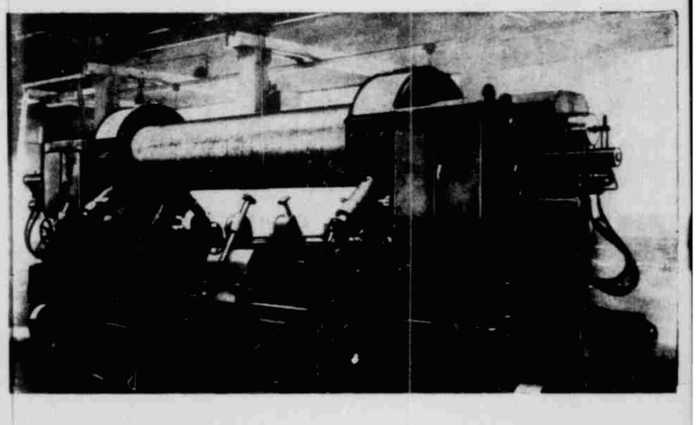
To all these gentlemen we extend congratulations and best wishes on the occasion of their birthdays.

J.M.VOITH A.G.

one of the oldest manufacturers of asbestos-cement machinery are proud to have at their disposal a team of first-class engineers and technicians who are continually engaged in the development, design and construction of the complete machinery for the production and testing of all kinds of asbestos-cement sheets and pipes.

Our engineering staff shun no effort to promote an increasing economy of manufacturing operations in the asbestos-cement industry by continually improving the design of the individual machines and by making their operation largely automatic.

We invite you to avail yourself of the experience of our staff of expert engineers and highly-skilled craftsmen!



Full-automatic pipe turning lathe IIIh
turning a pipe of nom. width 800
on the workshop test bench

J.M.VOITH A.G.

St. Poelten-Austria, P.O.B. 168 Tel. 2501, Teletype 01510

Arthur C. Smith has been appointed Vice President of Research, Development and Engineering of JOHNS-MANVILLE CORPORATION, succeeding **Dr. Clifford F. Rassweiler,** who retired following a 23-year company career. Mr. Smith will be responsible for planning and directing J-M's broad program of research, development and engineering activities devoted to building materials, insulations and allied industrial products. He began his career with J-M in 1940 as Assistant Plant Engineer at the Waukegan, Illinois plant.

Clark A. Bailey has been appointed as a Vice President of JOHNS-MANVILLE SALES CORPORATION and General Sales Manager for J-M's Pipe Division Distributor Sales. He joined J-M as a salesman in 1946, was appointed Manager of the Oil Industries Section of the Special Industries Department in 1949, was made Manager of Industrial Pipe and Pipe Protection when the Pipe Division was formed in 1956, and became Manager for Industrial, Irrigation and Plastic Pipes when the Distributor Sales Department was created in 1961, which position he has since held.

Richard H. Cipolla, Merchandise Manager of J-M's Celite Department, has been appointed a Vice-President of JOHNS-MANVILLE PRODUCTS CORPORATION. Mr. Cipolla began his career with J-M as a Sales Engineer in Cincinnati, Ohio, in 1949, and has been Merchandise Manager since 1961.

George R. R. Wahl has been appointed to the newly-established position of Assistant General Manager for the Pipe Division of JOHNS-MANVILLE CORPORATION. Mr. Wahl joined J-M in 1933 as a testing engineer at the J-M Research Laboratory at Manville, New Jersey and is currently a Vice-President of the J-M Sales Corporation.

POLYREZ®
Phenolic & Cashew Resins
Cashew Dusts & Polymers
POLYREZ COMPANY, INC.
RAILROAD & SO. COLUMBIA WOODBURY, N.J.

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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ALL GRADES—ALL TYPES

C. J. PETROW & COMPANY (PTY.) LTD.

P. O. BOX 11000

RAND CENTRAL — 165 JEPPE STREET

JOHANNESBURG - SOUTH AFRICA

OFFICES ALSO IN: TOKYO (JAPAN) AND BULAWAYO (SO. RHODESIA)

INDUSTRIAL SERVICE COMPANY

Builders of

ASBESTOS CEMENT MACHINERY

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.

For the beneficiation of asbestos ore,

Modern HAZEMAG Impact Crushers

(Andreas System)



- Fiber-length protective opening of ore and crude.
- Opening of pressed asbestos.

Modern HAZEMAG Rapid-Dryers

(Andreas System)



for drying pre-crushed asbestos-ores of various moisture-contents with fibre-selecting effect.

HAZEMAG mbH., Münster/Germany, P.O.B. 576

Our New York Office:

HAZEMAG USA Inc., New York 17/N.Y.

122 East 42nd Street

Canada: Joy Manufacturing Company Ltd.
75 Beverly Street, Galt, Ontario

USA: Joy Manufacturing Company
333 Oliver Building, Pittsburgh 22, Pennsylvania

Australia: Noyes Bros. Pty. Ltd.
P.O.B. 1587, G.P.O. Sydney

South Africa: Industrial Machinery Supplies Pty. Ltd.
P.O.B. 9653, Johannesburg

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CURRENT RANGE OF PRICE

As of June 10, 1964

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

No. 1 Crude	$1,410.00 to	$1,495.00
No. 2 Crude	610.00 to	875.00
Group No. 3 (Non-Ferrous Filtering & Spinning)	425.00 to	550.00
Group No. 4 (Non-Ferrous Plastic & Filtering)	385.00 to	500.00
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)	..	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.

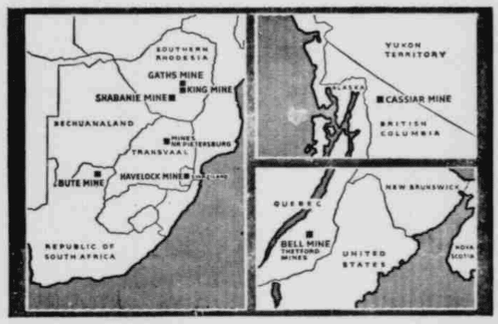
(As of January 1, 1964) Canadian Currency

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
AD grade (asbestos-cement—Canadian Group 4)	260.00
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)	160.00

asbestos

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ASBESTOS STOCK QUOTATIONS

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

	Par	May 1964 Low	High	Last
Advocate Mines Ltd	1	$6.25	$6.60	$6.30
American Brake Shoe	np	52¼	54¼	54
Asarco	np	93½	98½	94¾
Armstrong Cork (Com)	1	121½	127	121½
Armstrong Cork (Pfd)	np	86¼	89½	87
Asbestos Corporation	np	19½	20	20
Philip Carey	10	27⅝	30⅝	29⅛
Cassiar Asbestos	np	10⅝	11½	11
Certain-teed	1	15⅜	17	15⅞
Flintkote (Com)	5	25½	27⅛	25¾
Flintkote (Pfd)	np	87½	90½	88½
Johns-Manville	5	55½	58¼	56¾
National Gypsum (Com)	1	49⅛	52¼	49½
National Gypsum (Pfd)	np	98	101	100
*Pacific Asbestos	1	2¼	2⅞	2¼
Porter, H. K.	100	99½	101½	99½
Raybestos-Manhattan	np	45¾	47	46½
Ruberoid	1	31½	32⅛	32
Seagrave	2½	9⅝	11⅜	10⅝
Unarco Industries	5	13	14	13⅜
United Asbestos	1	$2.71	$3.00	$2.72
U. S. Rubber (Com)	5	49¼	52⅝	49¼
U. S. Rubber (Pfd)	100	162½	166½	162½

*New name of the former Jefferson Lake Asbestos Corporation.

George Barge has been elected Executive Vice-President of ATLAS ASBESTOS COMPANY responsible for general management of the company effective May 1st, 1964. Mr. Barge transferred from an affiliated company to Atlas Asbestos on May 1st, 1963, to become Vice-President of Finance. He had previously worked for over twenty-five years for the Keasbey & Mattison Company where he had been a Vice-President and a Director.

N. Gritzuk has been appointed as Manager-Operations of CASSIAR ASBESTOS CORPORATION LIMITED and will headquarter in Toronto. He will be responsible for the operations of Cassiar's mines, the Transport Division operating out of Whitehorse, Yukon Territory, and the Wharf operations in North Vancouver, British Columbia. Mr. Gritzuk has been Assistant to the General Manager since 1961.



LAGGING IN FRONT

This is B.B.A. Asbestos Fibre-Filled Rope Lagging for Steam Pipe Insulation, one of many of asbestos products, from yarn and rovings to cloth, tapes and jointings of all types and the world-famous MINTEX friction materials made by B.B.A. In production, as in research, we are in the front of our field. To all intents and purposes, B.B.A. *is* Asbestos.

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Lee Wilkins has been named Marketing Analyst for BALDWIN-EHRET-HILL, Inc., Trenton, New Jersey. He was former Marketing Specialist with the State of North Carolina and his past professional record lists a wide variety of experience in the executive sales and marketing field.

Henry E. Auricchio has been appointed Corporate Director for Industrial Relations for BALDWIN-EHRET-HILL, Inc. Prior to his present position, Mr. *Auricchio served as Director of* Industrial Relations with Cooper Alloy Corporation and Personnel Director for the General Instrument Corporation.

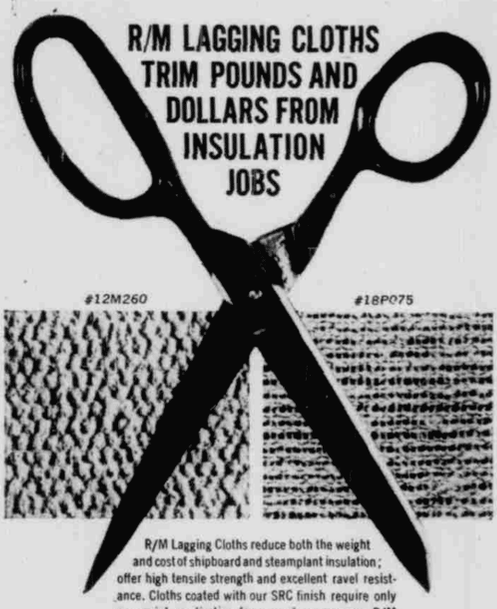
William P. Paulson has been named Product Manager, Flintite Distributor Sales, in charge of Flintite building sewer pipe, air duct and electrical duct, for ORANGEBURG MANUFACTURING COMPANY, a division of The Flintkote Company. Mr. Paulson, who will be headquartered at the company's Orangeburg, New York, plant, has been with Orangeburg Manufacturing Company since 1950.

L. C. Hickman has been appointed Supervisor of Division Buying for the Textile Division of the UNITED STATES RUBBER COMPANY. Mr. Hickman joined U. S. Rubber in 1952 and in his new position will be located at the Textile Division's new headquarters in Winnsboro, South Carolina.

Mr. Hickman succeeds **A. G. Quattlebaum,** who is retiring from the company after more than 30 years of service.

Theodore O. Yntema was elected a Director of HUYCK CORPORATION, Stamford, Connecticut, a diversified manufacturing company. Mr. Yntema is vice-president, member of the Board of Directors, the Executive Committee and the Operating Policy Committee, and chairman of the Financial Committee of the Ford Motor Company. He also serves on various other boards of directors, and is a trustee of the Committee for Economic Development.

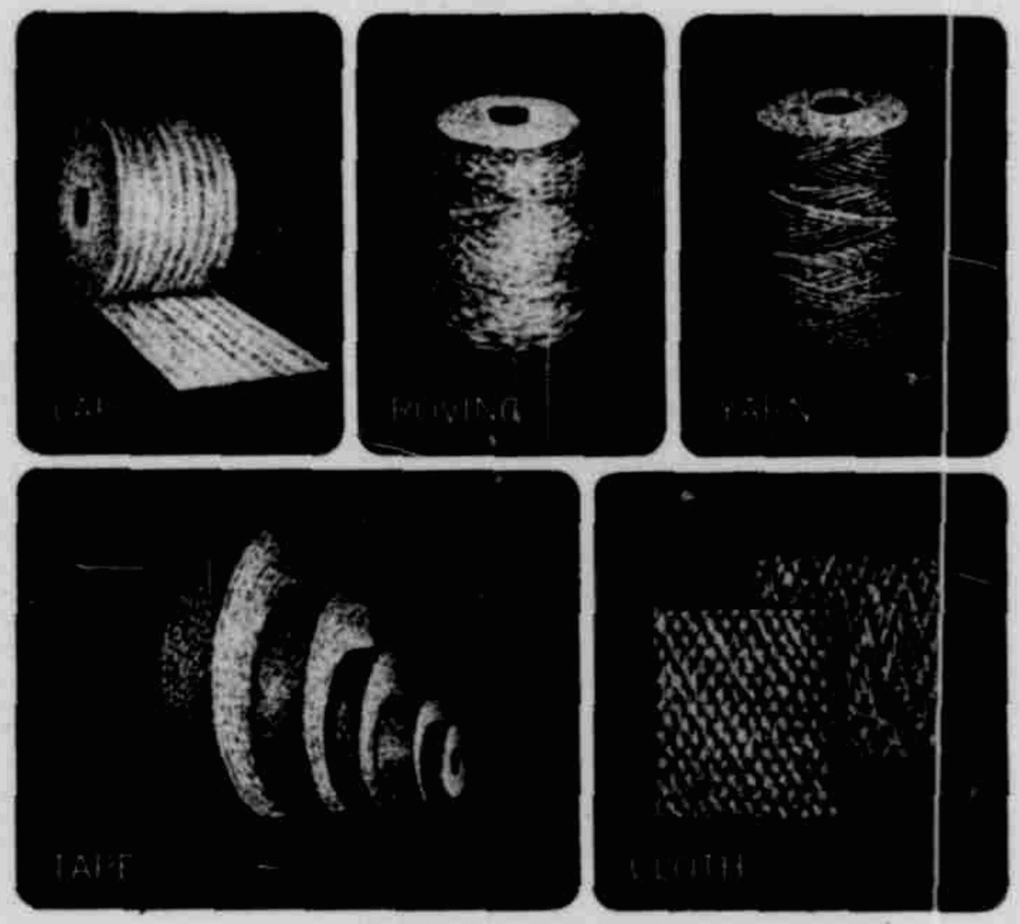
Everite Limited—H. R. Benecke, Managing Director of the South African firm of Everite Limited, manufacturers of asbestos-cement products, will be overseas for approximately four months. During this period he will be met in Europe by Everite's Business Manager, R. J. Lambson, and Research and Development Manager, H. Guettinger, for the purpose of jointly investigating the purchase of further new plant and machinery to meet the ever-increasing demand for the company's products, both locally and in the export market. As the South African representatives, they will also attend the International Standards Organization congress to be held at The Hague in June 1964, and thereafter Mr. Benecke and Mr. Guettinger will be attending the International Water Congress at Stockholm.



R/M Lagging Cloths reduce both the weight and cost of shipboard and steamplant insulation; offer high tensile strength and excellent ravel resistance. Cloths coated with our SRC finish require only one paint application for a good appearance. R/M weaves all of the asbestos cloths described by Federal Specifications SS-C-00466d (Navy-Ships). Write for samples and complete information.

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whether it is plain or metallic cloth in herringbone or other weaves, or any of the more basic asbestos forms illustrated above, Porter Asbestos Textile products are available in all types, grades and forms.

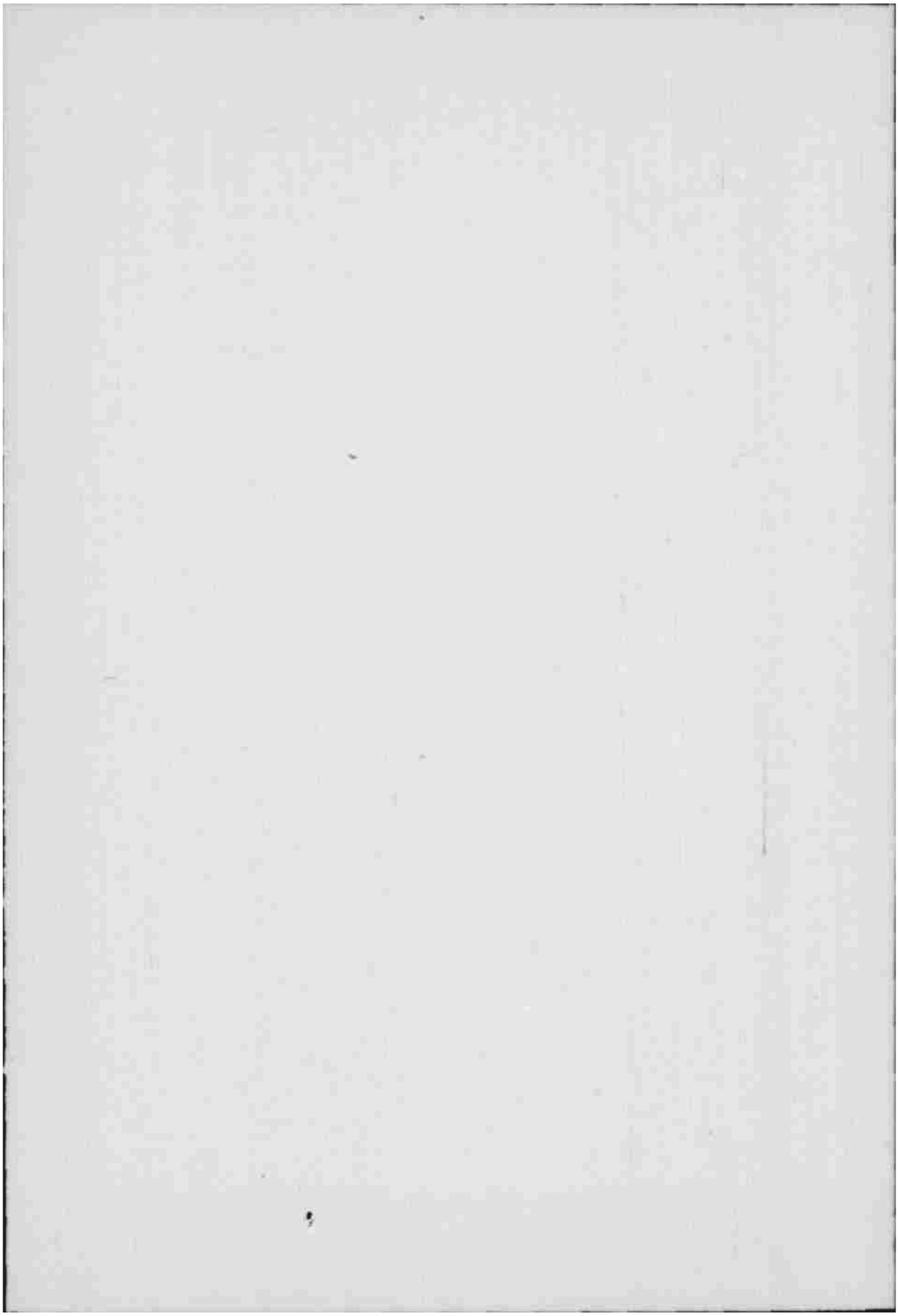
For detailed information on any kind of asbestos textile product to meet the most exacting demands for heat, friction and acoustical problems, call or write Thermoid Division, H. K. Porter Company, Inc., 1000 Seaboard Street, Charlotte, North Carolina 28206, or Porter Building, Pittsburgh, Pa. 15219.

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100 MILLIMETERS

INSTRUCTIONS Resolution is expressed in terms of the lines per millimeter recorded by a particular film under specified conditions. Numerals in chart indicate the number of lines per millimeter in adjacent "T-shaped" groupings.

In microfilming, it is necessary to determine the reduction ratio and multiply the number of lines in the chart by this value to find the number of lines recorded by the film. As an aid in determining the reduction ratio, the line above is 100 millimeters in length. Measuring this line in the film image and dividing the length into 100 gives the reduction ratio. Example: the line is 20 mm. long in the film image, and 100/20 = 5.

Examine "T-shaped" line groupings in the film with microscope, and note the number adjacent to finest lines recorded sharply and distinctly. Multiply this number by the reduction factor to obtain resolving power in lines per millimeter. Example: 7.9 group of lines is clearly recorded while lines in the 10.0 group are not distinctly separated. Reduction ratio is 5, and 7.9 x 5 = 39.5 lines per millimeter recorded satisfactorily. 10.0 x 5 = 50 lines per millimeter which are not recorded satisfactorily. Under the particular conditions, maximum resolution is between 39.5 and 50 lines per millimeter.

Resolution, as measured on the film, is a test of the entire photographic system, including lens, exposure, processing, and other factors. These rarely utilize maximum resolution of the film. Vibrations during exposure, lack of critical focus, and exposures yielding very dense negatives are to be avoided.

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