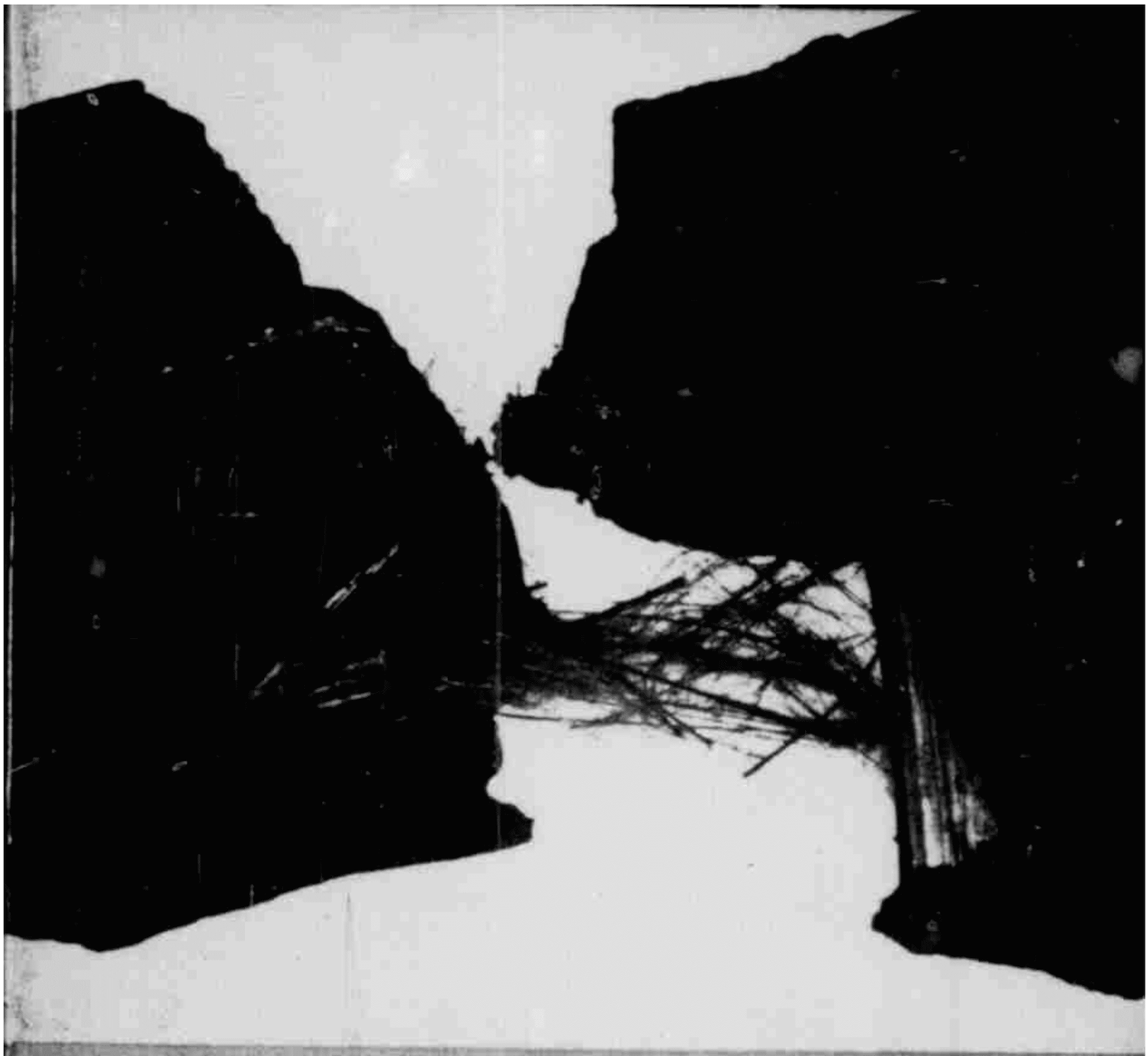


Raw Blue Asbestos Fibre (Crocidolite), Courtesy of The Cape Asbestos Company Limited

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ASBESTOS TEXTILE ELECTRICAL INSULATIONS

BY: P. O. NICODEMUS

Mr. Nicodemus is Senior Insulation Application Chemist in the Wire and Cable Department of General Electric Company, Lowell, Massachusetts. The following paper was presented by Mr. Nicodemus at the Annual Meeting of the Asbestos Textile Institute, New York City, February 9, 1968.

(Below is the third and final part of this article. The first and second parts appeared in the March and April 1968 issues of ASBESTOS.)

OTHER INSULATIONS COMPETING WITH ASBESTOS

Now let us look at the insulating materials which have been or are replacing asbestos wire and cable insulations. Most of these relatively new wires have Underwriters' Laboratories, Inc. approval or are made to military specifications. Comments on these are made roughly in chronological order with respect to the dates when each was commercially introduced, beginning in the 1940's.

The first material to challenge asbestos as a high-temperature insulating material was glass fiber. By the early 1940's, continuous filament glass fiber yarns were used for the manufacture of thin cloth and tapes which could be used in place of asbestos cloth and tapes. It was next used as exterior braids over high-temperature wire and cable insulations such as asbestos or silicone rubber. In some cases, varnished glass braids replaced asbestos braids formerly used. Next, came glass-fiber-insulated magnet wire. This double wrapped glass fiber insulation has almost completely replaced asbestos insulation for magnet wire.

Although untreated glass fiber has almost no abrasion resistance, this deficiency has been overcome to a considerable extent by treating the glass fiber insulating materials with tough, high-temperature varnishes.

While not normally considered a high-temperature insulation, the next material to make an inroad on asbestos wire insulation was neoprene. This material was approved by Underwriters' Laboratories, Inc. as the insulation for a new type of "heater cord" designated as Type HPN. This is a parallel cord, insulated with neoprene or Hypalon, which has and will continue to be used in place of the HPD cord containing asbestos. It has the same ratings as HPD cord, 90°C and 300 volts. It is now being used on most small electrically heated appliances where there is no excessive heat at the appliance

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terminals, such as toasters, warming trays, coffee makers, etc. HPN cord has the advantage of being less expensive than the HPD cord.

Two other high-temperature insulating materials introduced in the 1940's were polytetrafluoroethylene (PTFE), also known by the trade name of Teflon, and silicone rubber.

PTFE, introduced in the early 1940's, as a skived tape, has good electrical properties, excellent moisture resistance and is good for continuous use up to 250°C. It was first used in combination with both asbestos and glass fibers. Later a method of extruding it directly on conductors was developed. Extruded, unfused tapes, which could be wrapped on wire and then fused, were also made available.

Wires insulated with PTFE found immediate use as special high-temperature hook-up, aircraft, thermocouple wires, coaxial cables and control cables. Its inherent high cost has limited its use for wires and cables. It is, however, still being used in combination with asbestos and glass fibers for high-temperature aircraft, thermocouple and appliance lead wires.

Introduced at about the same time as PTFE was another high-temperature wire and cable insulation—silicone rubber. Its growth in this field has also been slow because of its high cost. During the 1950's, Underwriters' Laboratories, Inc. listed several types of silicone rubber fixture and appliance wires, i.e., Type SF fixture wire. As the price of silicone rubber decreases, its use will increase. It is now being used in many places where asbestos insulated wires were formerly used, because of its superior electrical properties, especially at high humidities.

The approval by Underwriters' Laboratories, Inc. of Type TBS Switchboard wire in 1956 was the next important inroad on asbestos wire insulations. The insulation of this wire is quite similar to Type TA Switchboard wire, with one important difference—there is no asbestos between the primary extruded insulation and the cotton braid. It has the same ratings as Type TA wire, 90°C and 600 volts. As would be expected, customers started using this wire at the expense of Type TA wire.

In 1958, the General Electric Company introduced a new wire and cable insulation—Vulkene®—a chemically cross-linked polyethylene. The cross-linking changes the polyethy-

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lene from a thermoplastic material which becomes soft and finally melts with increasing temperatures, to a thermosetting material which does not melt at elevated temperatures. This material has the excellent insulating qualities of polyethylene combined with higher temperature serviceability. Its excellent insulating properties are maintained under conditions of high relative humidities at elevated temperatures.

Since its introduction, many types of Vulkene insulated wires have been approved by Underwriters' Laboratories, Inc. Several of these wires will further curtail the use of asbestos insulations. They are:

1. Type SIS Switchboard. This wire consists of a flame-resistant extruded cross-linked polyethylene insulation which [illegible] TA and AB5 Switchboard wires and is replacing both of these products.

2. A cross-linked polyethylene insulated motor lead wire having ratings of 125°C and 600 volts. This wire is replacing asbestos- and glass-fiber-insulated wires.

3. The wire that will probably cause the greatest replacement of asbestos as an insulating material is the recently Underwriters' Laboratories, Inc. approved 150°C— 300 volt appliance wire. This wire consists of a primary insulation of cross-linked polyethylene over which is applied a thin wall of felted asbestos saturated with a heat- and flame-resistant compound. Note that this wire is similar to asbestos-insulated Type AI wire but has a temperature rating 25°C higher. While this wire has limited approval for specific applications, it will probably replace a considerable amount of the present Type AI wire.

In addition to these Vulkene insulated wires and cables, General Electric Company recently introduced new Vulkaflex apparatus and motor lead cable. This cable has a rating of 130°C at voltages up to 5000 volts. This cable is insulated with EPR., one of the new heat resistant synthetic rubbers. It will probably replace some of the Type AVA wires.

Other wire and cable manufacturers are now producing or will produce these types of wires within the next few years.

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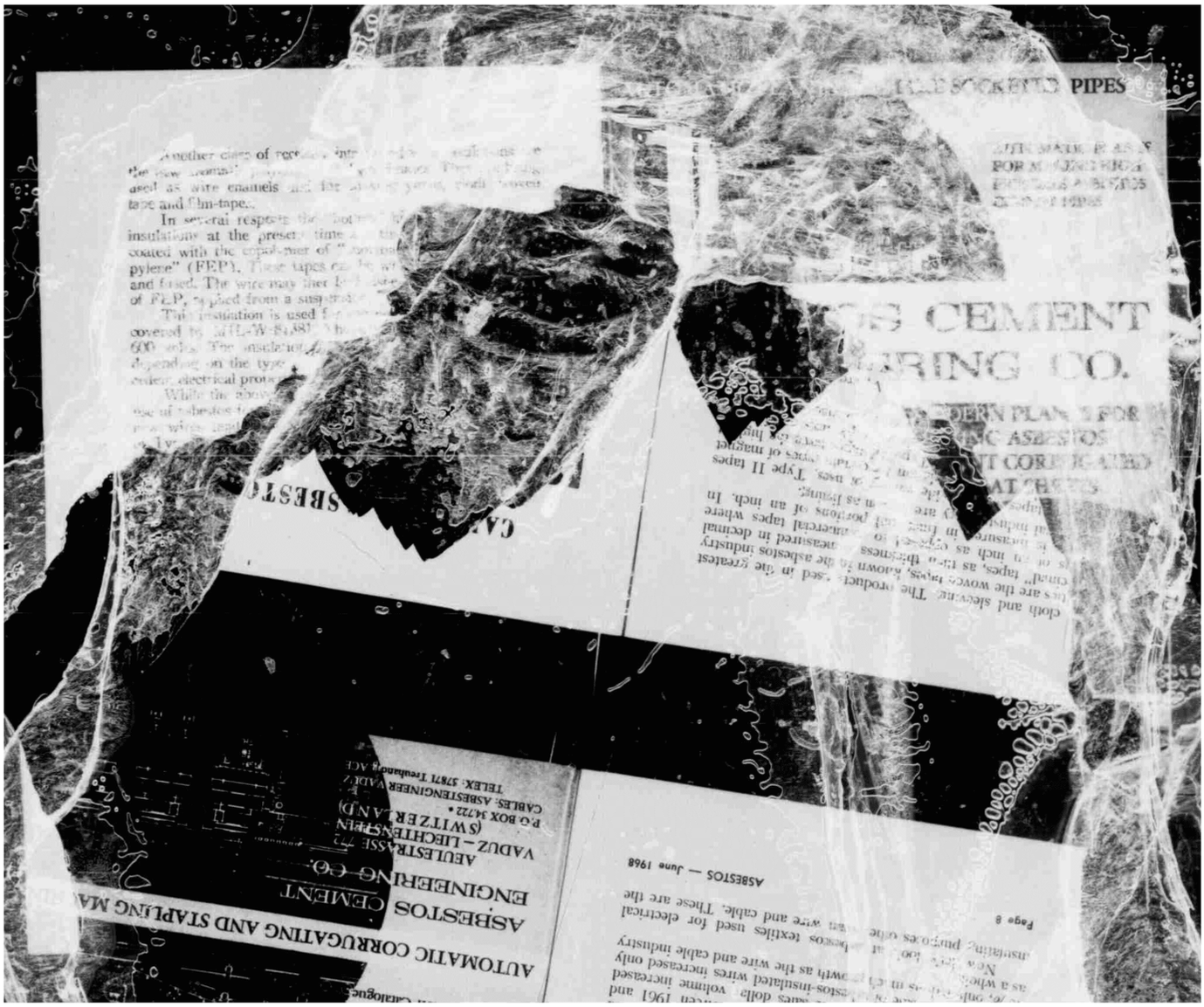
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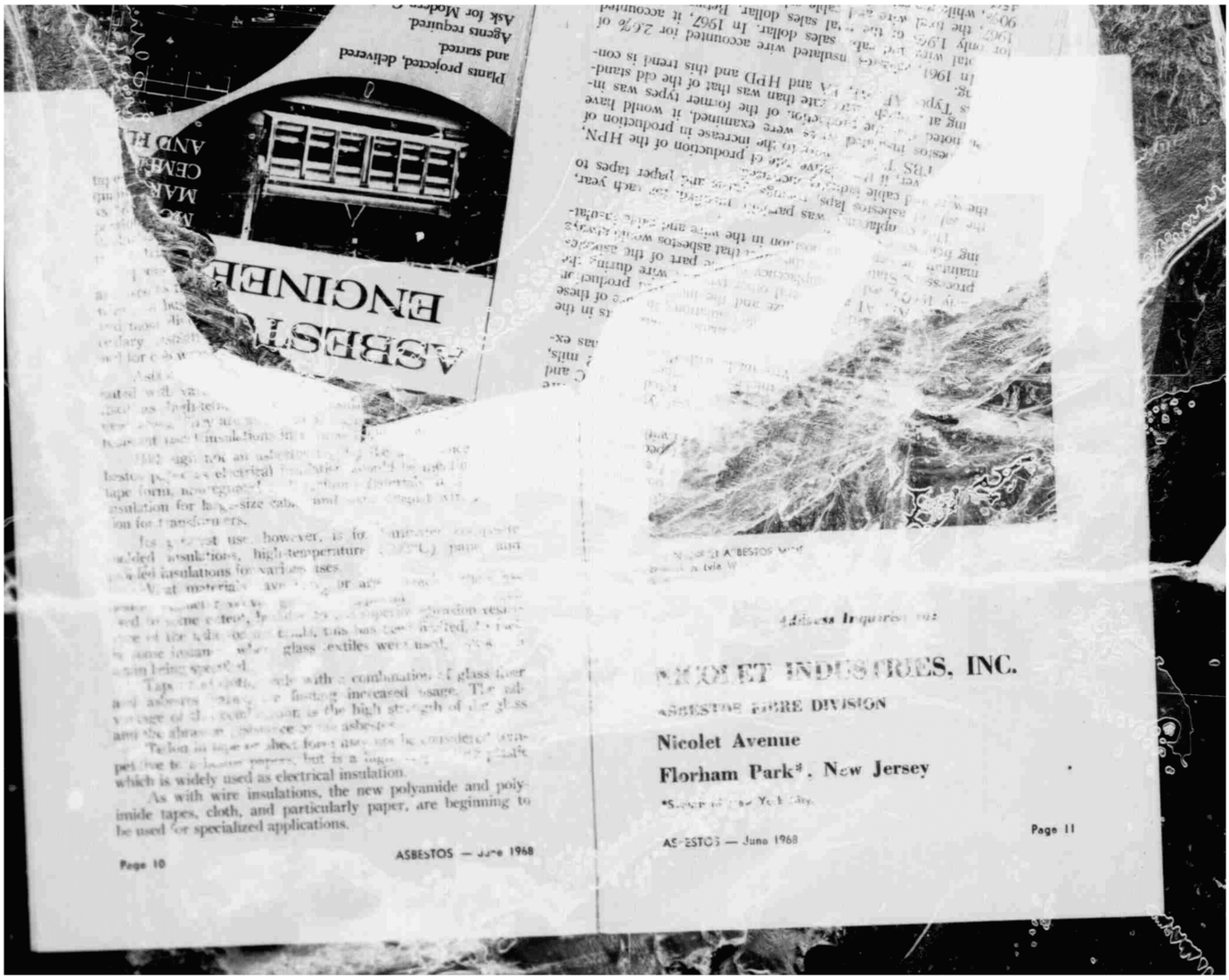
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Page 11

ASBESTOS — June 1968

While this paper is at present much more expensive than asbestos paper, it is finding specialized [illegible] barrier insulation on dry-type transformers. It can be bonded in place by pretreatment with a partially cured ("B" stage) polyimide coating. A similar paper is used for wrapping coils, thus eliminating a varnish treatment. These materials are rated up to 220°C.

Dollar values are not available for asbestos textiles used for electrical insulations other than wire and cable. It is believed that there has not been the sharp downward trend which has occurred in that industry.

Now we have seen the insulating materials which are gradually but surely replacing asbestos insulation. What is being done about it?

To survive, an industry must keep up with new developments. We have mentioned many basic single-conductor wires and cables, developed roughly within the past 25 years which use insulations other than asbestos. About half of these have been developed in the past ten years.

[illegible] Table II. How many new asbestos-insulated wires have [illegible] the last 25 years? The answer is, "none". In all of these wire [illegible] old.

[illegible] industry as new [illegible] electrical insulating materials during this time? How many products employing asbestos electrical insulation in place of other materials have been developed during the past? The answer is, "very few".

During the 1940's, thin asbestos papers and tapes were introduced, which have found considerable use as electrical insulations, but these are not textiles.

The only really new development in this field is the very recently developed fine cut asbestos yarns. These will find many uses in the electrical insulating field. Can they replace glass fiber braids, cloth and tape? Only if they are promoted in an aggressive manner. Not just by showing the yarns, tapes and cloths, but by making, or having made, end-use products. Show where and how they are better. Compare technical data. Show the end product to the processors and also to the end-product users. Make them want it. Until you can sell the end-use product, you will not sell the yarn.

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After examining the many materials which are making inroads on asbestos in their [illegible], can the statement still be made that asbestos will at least maintain its present position as an electrical insulator?

It is entirely up to the asbestos processors. It will be true only if they do "as you say" they know how in two areas: development and marketing.

PHILIP CAREY HEAVY-DUTY ASPHALT TILE, manufactured by Philip Carey Corporation, is described in a new four-page brochure (Form 6827). The brochure includes details on recommended cement, preparation of subfloors, approved construction, cutting equipment, floor installation and floor maintenance.

The tile is composed of high melting point asphalt, selected mineral fillers and asbestos fibers. It is specified for comfort wherever workers walk or stand and its density and toughness provide resistance to compressive loads. The product is fire resistant with a flash point of 200°F and has a thermal insulating value equal to three inches of concrete. It is not recommended for installation in areas subject to heavy flooding or drippage of oily coolants or cutting or lubricating oils.

ERNEST MUEHLECK, well-known executive in the Asbestos industry, died April 26, 1968, at the age of 72. Mr. Muehleck retired as President of the former Keasbey & Mattison Company on March 31, 1957, having served in that capacity since October 29, 1937. Among his many activities, he was a member of the Commonwealth of Pennsylvania Job Rehabilitation Sub-Committee on Building Trades and Allied Manufacturing Industries and the National Association of Manufacturers. He also served as President of the Magnesia Insulation Manufacturers Association and the Asbestos Cement Products Association (now the Mineral Fiber Products Bureau). Mr. Muehleck will be greatly missed by his many friends and associates.

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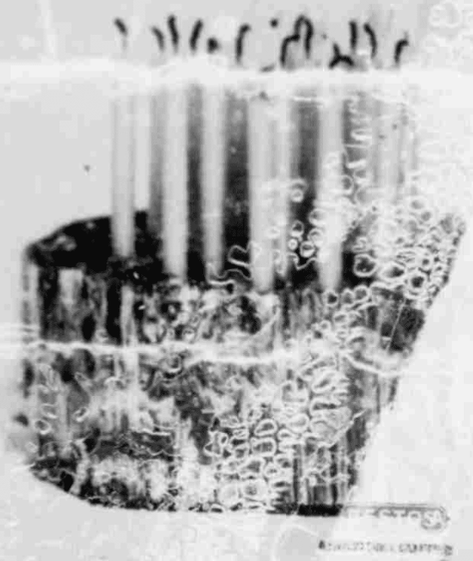
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Almost every [illegible] including amosite in the mineral [illegible] is because of the fiber's high [illegible] characteristic which makes it possible [illegible] of water from the board and [illegible] drying process.

[illegible], it is estimated that over ninety [illegible] institutional and office buildings [illegible] of acoustical ceiling treatment. Probably [illegible] percent of all new homes being erected [illegible] sound absorbing ceiling in some of the rooms. [illegible] regulations and Underwriters' requirements, [illegible] mineral-based acoustical products are taking [illegible] greater portion of the total volume of [illegible]

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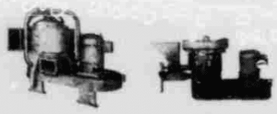
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The AC/M is a magazine devoted primarily to asbestos-cement technology. It circulates in many countries and is published in English, in Turin, Italy. Subscriptions can be obtained by writing to AC/M, 24 Via Bianzè, Turin, Italy. Subscription fee for one year in the U.S.A. is $20.00. There are reduced rates for two- and three-year subscriptions.

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NATIONAL GYPSUM COMPANY will install new *air pollution control equipment* at its Matteson, Illinois, paint plant. Since air pollution control equipment is largely custom made, new installations require considerable time from inception of initial planning to installation and operation. The company is immediately undertaking detailed engineering plans and determining equipment specifications. The extensive installation of this modern dust abatement control system is expected to be completed and in operation within about seven months.

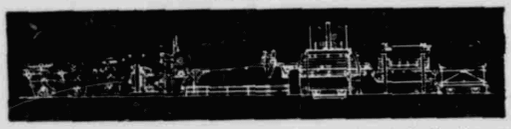
NATIONAL GYPSUM COMPANY has been awarded the Sears, Roebuck and Company *"Symbol of Excellence"* for outstanding performance as a supplier. These awards are given to only 2% of Sears' suppliers in recognition of exceptional product quality, service and product development. National Gypsum supplies Sears with ceiling tiles and luminescent panels for suspended ceilings.

ASTM NOTES—*"Guide to ASTM Consumer Standards"* has recently been published by the American Society for Testing and Materials. This publication is a guide to some 300 consumer standards selected from the 4,000 ASTM industrial and consumer standards that are revised and published annually by the Society. It will be primarily useful to those concerned with programs of consumer protection and charges.

The following *Standards on Asbestos-Cement Products were accepted December 29, 1967, and will appear in Part 12* of the 1968 Book of ASTM Standards: C-296-67—Specification for Asbestos-Cement Pressure Pipe, C428-67—Specification for Asbestos-Cement Nonpressure Sewer Pipe, C500-67—Methods of Testing Asbestos-Cement Pipe, C508-67—Specification for Asbestos-Cement Perforated Underdrain Pipe, C541-67—Specification for Linings for Asbestos-Cement Pipe and C551-67—Specification for Asbestos-Cement Fiberboard Insulating Panels.

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Copenhagen

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Oy Connector A/S
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Helsinki

FRANCE
Wambesco (France) S.A.
1, rue Volney
Paris

NORWAY
Mr. Knut Moerch
c/o A/S Polyvag
Cievre Slottsgate 4
Oslo 1

PORTUGAL
Nogueira Limitada
Apartado 2457
R. dos Douradores, 107
Lisboa 2

SPAIN
Otto G. Bunzl
Pablo Aranda 18
Madrid

SWEDEN
A. B. Industrimetoder
P. O. Box 5168
Stockholm 5

The British Metal Corp. (Canada) Ltd.
121 Richmond Street West
Toronto, Ontario, Canada

ARGENTINA
Tennant Argentina S.A.I.C.
Avenida Cordoba 333
Buenos Aires

AUSTRALIA
Sydney
The British Metal Corp. (Australia) Pty. Ltd.
Kindersley House
Bligh/O'Connell Streets
Sydney, N.S.W.

Melbourne
The British Metal Corp. (Australia) Pty. Ltd.
Pearl Assurance House
143-151 Queen Street
Melbourne C.1.

AUSTRIA
Allmetall GmbH
Porzellangasse 18
Vienna IX

BRAZIL
Sao Paulo
Tennant Importacao E. Exportacao Ltda.
Caixa Postal 7284
Sao Paulo

Rio de Janeiro
Tennant Importacao E. Exportacao Ltda.
4 Avenida Branco S. 1407/9
Rio de Janeiro

CHILE
Comex, S.A.
Casilla 9306
Santiago



FORMOSA
International Trade and Machinery Co., Inc.
P. O. Box 1235
Taipei, Taiwan

INDIA
Bombay
The British Metal Corp. (India) Private Ltd.
P. O. Box 1729
Steelcrete House—Dinsha Waccha Road
Bombay

Calcutta
The British Metal Corp. (India) Private Ltd.
United India Life Building
P. O. Box 743
22 Chittaranjan Avenue
Calcutta

ITALY
USVICO
Societa Industriale Commerciale
Via Generale Albricci 8
Milano

JAPAN
Mitsui and Company, Ltd.
Minerals & Industrial Materials Section
General Merchandise Dept.
Tokyo

PAKISTAN
The British Metal Corp. (Pakistan) Ltd.
3 West Wharf Road, P. O. Box 4910
Karachi 2

SWITZERLAND
Chemische Fabrik Schweizerhall
Elsasserstrasse 229
Basel

UNITED KINGDOM
Brandhurst Co., Ltd.
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Queen Street Place
London EC-4

VENEZUELA
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Avenida Francisco de Miranda
Caracas

WEST GERMANY
F. W. Hempel & Co.
Am. Wall 127
Postfach 1350
Bremen

Gold Bond
ASBESTOS FIBRES

asbestos fibres

For further information, write
National Asbestos Mines Ltd., Thetford Mines, P. Q., Canada. (Subsidiary of National Gypsum Company.)

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Automobile Sales

MARCH 1968 motor vehicle factory sales from plants in the United States totaled 967,968 (passenger cars — 800,666, trucks and buses — 167,302). The total for March 1967 was 833,432. The total for the first quarter of 1968 was 2,752,999 which compares with 2,290,961 for the first three months of 1967.

Motor vehicle factory sales from plants in *Canada* totaled 74,288 for March 1968 compared to 88,275 in March 1967. The total for the January through March 1968 period was 236,221 against 234,224 for the same period in 1967.

MATT SHEET is a new acrylic-silicone emulsion color finish being applied to asbestos-cement sheeting manufactured by *Universal Asbestos Manufacturing Company Limited*. The new process offers a non-porous alkali-resistant surface and good weathering and non-fading properties.

THE KOEGAS MINE of *Cape Blue Mines (Pty.) Limited*, a subsidiary of Cape Asbestos South Africa (Pty.) Limited, is described in an interesting article which appeared in the March 1968 issue of *Mining Magazine*. ASBESTOS will be glad to lend its copy to interested readers.

AMOSITE IN ASBESTOS-CEMENT is the title of a booklet recently published by *The Cape Asbestos Company Limited* which deals with the use of Amosite in association with Chrysotile fibers in asbestos-cement sheet and pressure pipes. The leaflet is presently available in the English language and will shortly also be available in Japanese, Russian, Italian, German and French.

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ESTABLISHED 1912
Manufacturer of Cloth, Tape, Yarn and Brake Lining
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SUPPLY the felts best suited for your asbestos-cement production... Batt-on-Base... Needle Reinforced... Scapa Needled ... whether you require smooth surface or the greatest knuckles
DELIVER the felts you require anywhere in the world ... and deliver ON TIME
ENSURE that the Scapa felts you use are stable and consistent in quality
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Building

From: McGraw-Hill Information Systems Company

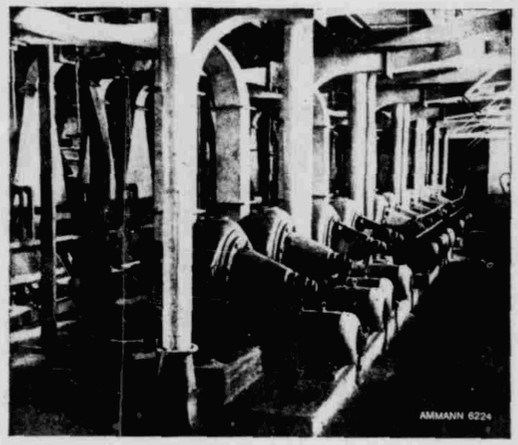
APRIL 1968—The Dodge Index of April construction contract activity fell to 146, the lowest point in the past year and 17% below the record attained during March. April value of contracts for future construction was $4,877,920,000, 7% higher than the year-ago amount. On a seasonally-adjusted basis, however, the Dodge Index was down sharply from the record 176 it attained a month earlier. Conditions affecting the near-term future of the construction market are very unstable right now and the statistics on new contracting seem to bear this out. After a period of steady improvement during most of 1967, recent activity has been especially volatile. During these past few months, the building industry has had to cope not only with the return of very tight money but with the on-again, off-again surtax and the prospect of sharp cutbacks in Federal construction programs.

Residential building contracts were valued at $2,311,576,000, 30% higher than the amount recorded during April 1967. Apartment building has been the source of most of the recent change in residential contracting. With single-family building holding steady, a sharp increase in multi-family contracts gave the residential total a strong lift in March. During April, housing contract value weakened and apartment building dropped back to its earlier level.

Nonresidential building contracts were valued at $1,522,305,000, 17% below last year's April total. Both industrial and commercial building dipped well below last year's levels. Manufacturing plant contracts declined 30% and contracts for stores, offices and other commercial buildings fell 23% below last April's value. Institutional building projects helped support the nonresidential building total in the latest month as contracts for new schools and hospitals held close to the year-ago level.

Nonbuilding construction contracts totaled $1,044,039,000 and showed a year-to-year gain of 12%. Highway construction, ahead by 34%, continued to run well above last spring's abnormally low volume (when Federal funds were being withheld). Electric utility construction also showed a large increase in April as several new generating units were started.

AMMANN Asbestos Mill



The *ONLY DISINTEGRATOR* treating the asbestos fibres without brecking them. Disintegrator used so to say by the most important Asbestos Mines of the whole world.

The above illustration shows a large plant comprising several *AMMANN* disintegrators. This plant works in an asbestos mine in South Africa.

U. AMMANN Ltd.

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Amosite in asbestos cement i es
drainage giving faster felt sp and
increased production rates. duced
water retention improves co olidation
between laminates and incre ses
strength in pressure pipe ma ufacture.
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to reinforced cement and insu ation
material manufacturers from world's
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Cape Asbestos F es Limited
114 Park Street London · England · Telex 23759
North American Asbesto orporation
200 South Michigan Ave nicago · Illinois 60604 · USA
Telephone: (312) 922-7
(Members of the Cape Asbes Group of Companies)
TW2733

MARKET CONDITIONS

General Business.

According to Government statistics, the growth rate of the overall economy showed signs of slowing somewhat during April but all types of income except farm income and rents showed measurable increases. Business inventories continued to increase at a lower rate than previously but this reflects efforts of many companies to reduce inventories which had reached excessively high levels. On the other hand, the steel industry is now experiencing the anticipated heavy demand from users who are building up their inventories, hedging against a possible steel strike.

Talks between the United States and North Vietnamese negotiators have just started in Paris. The time consumed in agreeing on a mutually satisfactory site for these talks may well be indicative of the time which will pass before anything in the way of real progress in the negotiations may be expected. Regardless of the anticipated long-term nature of these talks, it is indicated any major escalation of expenditures by this Country for the Vietnam war will be deferred unless and until the talks seem completely unproductive. This means that no additional inflationary pressures will be generated by increased war spending at the moment.

As noted last month, the pressures for increased "anti-poverty" spending continue to rise and there is little doubt such spending will eventually have to be of such magnitude as to present the Government with continuing fiscal headaches.

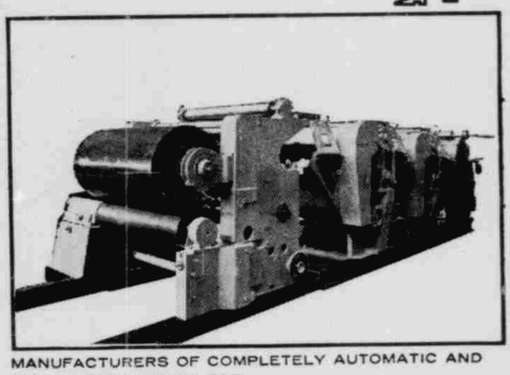
In summary, while the rate of growth of the economy has slowed, general business is good and promises to continue at current levels for some time to come.

AUSTRALIA—According to the Commonwealth Bureau of Census and Statistics, Canberra, 7,910,000 square yards of non-acoustic asbestos-cement sheets were produced in Australia during the Third Quarter of 1967.

ABP/HAC/19

asbestos cement plants





MANUFACTURERS OF COMPLETELY AUTOMATIC AND UP-TO-DATE PLANTS FOR
asbestos cement
- PRESSURE PIPES
- CORRUGATED SHEETS
- FLAT SHEETS
- SOCKET PIPES

HYDERABAD ASBESTOS
CEMENT PRODUCTS LTD.
PLANT MANUFACTURING DIVISION HYDERABAD-18 INDIA

MERIT OIL/CASTLE TIN MERGER — Shareholders of *Merit Oil Ltd.* and *Castle Tin Mines Limited* endorsed a Directors' recommendation to merge the two companies. The two companies, which have other assets, are equal partners in the Woodsreef asbestos property in New South Wales, Australia. Both companies believe that the merger will speed the efforts to bring the Woodsreef property into production.

BRITISH STANDARDS—The following two British Standards for asbestos-cement boards for electrical purposes have been revised and are available at 10/-each (postage 9d extra to non-subscribers): BS3497:1967, Specification for unimpregnated asbestos-cement boards (incombustible) for electrical purposes; and, BS3503:1967, Specification for bitumen-impregnated asbestos-cement boards (self-extinguishing) for electrical purposes.

ARMSTRONG CORK COMPANY is distributing, to Approved Gasket Fabricators, a series of monthly pocket reminders including a calendar, note pad and information on applications where its *gasket materials* are being used successfully. The first two pocket reminders contain information on successful applications for Armstrong's new *Accobest* heavy duty gasket materials.

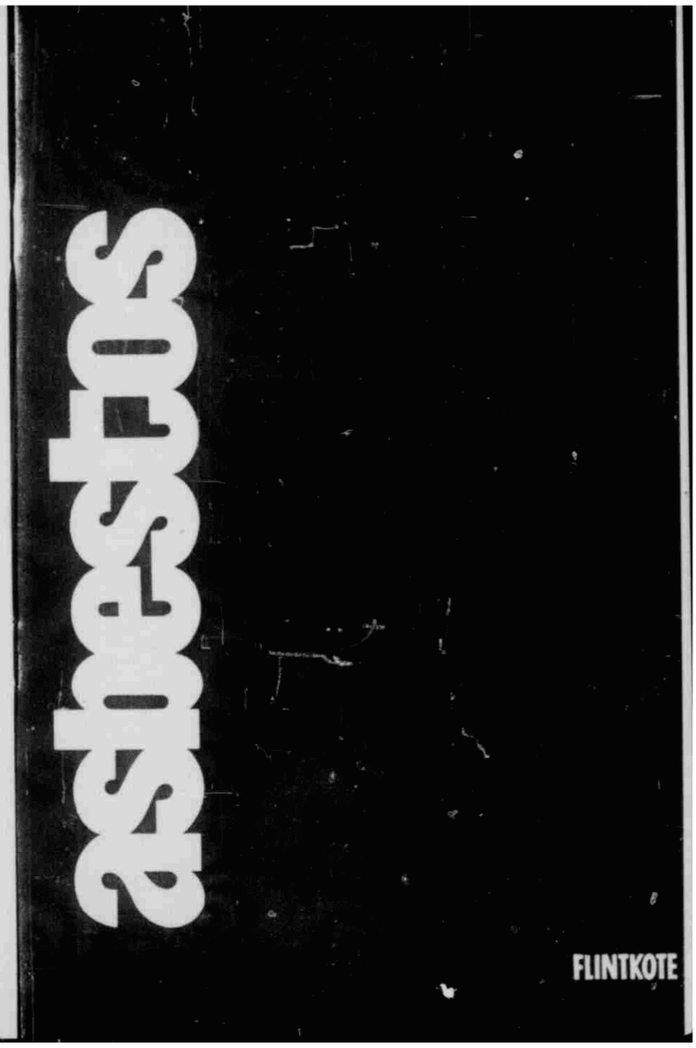
"ASBESTOS BULLETIN"

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. Back copies half-price.

"ADVANCED MATERIALS"
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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R/M ASBESTOS-TFE LINER—A composite clamp-lining material of woven wire-inserted asbestos and impregnated with tetrafluorethylene (TFE) fluorocarbon suspensoid has been developed by the Packing Division of *Raybestos-Manhattan, Inc.* The lining material, RL-816, is used for cushioning metal clamps in aerospace and industrial applications where broad temperature ranges and chemical resistance are required. The TFE fluorocarbon suspensoid provides low co-efficient of friction as well as resistance to the corrosive effects of hydraulic fluids, fuels, oils and chemicals. RL-816 is furnished in rolls to specific dimensions in a U-channeled shape to fit snugly within the inside diameter of the metal clamp. The liner can also be supplied in tube form to be slit and crimped over the clamp assembly.

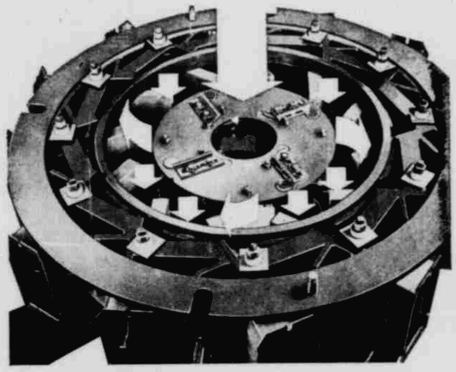
INDEX OF STANDARDS AND SPECIFICATIONS as of January 1968 is now available from the *Canadian Government Specifications Board*. Included in this Index are listings for Group No. 34-GP on Asbestos-Cement Products and Group No. 51-GP on Thermal Insulation for Boilers, Piping, Machinery and Associated Uses.

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Simplicity fibrizes longer, cleaner fibres faster with far fewer fines

Simplicity's D'CENTEGRATOR fibrizes so thoroughly, the longer fibres are not "dirtied". The break-up action is pictured above schematically (our asbestos fibrizers actually have 12 bars). On-the-job performance also indicates a higher recovery rate and lower percent of fines. Both lower initial and maintenance cost make this 60 t.p.h. unit (2" cubical feed) an outstanding producer. Write or call about a test.



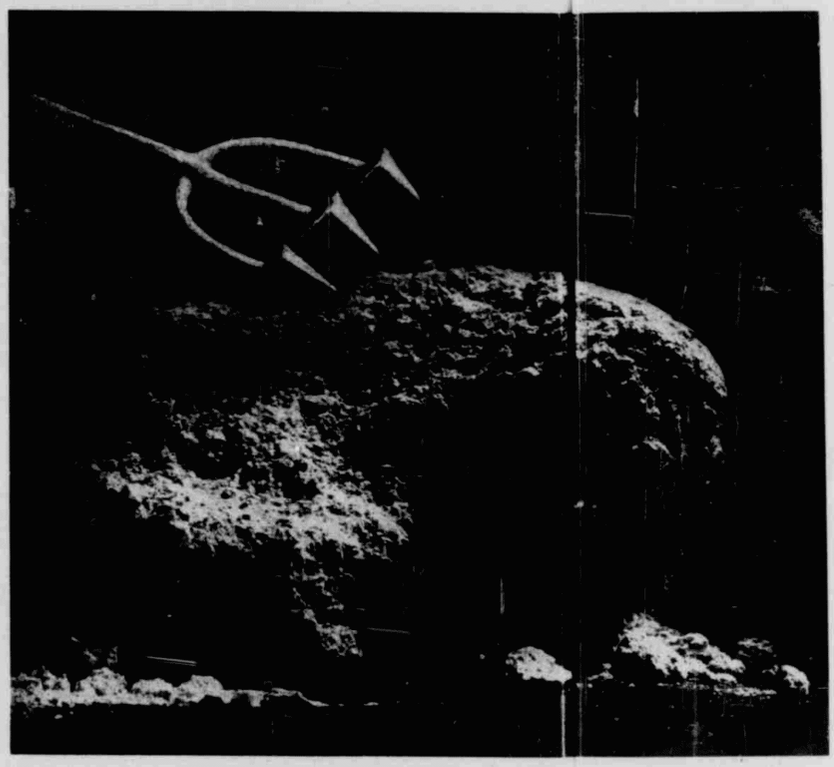
Model 24 Asbestos D'CENTEGRATOR

Simplicity
ENGINEERING COMPANY
Dept. 18, Durand, Michigan

Dealers and licensees throughout the world.

OTHER MINING EQUIPMENT: Vibrating Screens, Feeders, Grizzly Feeders, Scalpers, Crushers and Conveyors. 48R

How the devil's asbestos cuts floor tile cost.



High in the Diablo Mountains, the new Johns-Manville Coalinga mill produces a very special grade of asbestos. Diablo, of course, is Spanish for devil. And the unusual asbestos mined in this central California range is proof some devils are really good guys.

Coalinga fibers are short and strong. Which makes them ideally suited to floor tile use. And they are exceptionally bright and clean. Which enables tile manufacturers to cut pigment cost substantially.

Still more proof the Diablos are good guys: this range promises an almost unlimited supply of short, bright, floor-tile-perfect asbestos fiber. Utilizing the most modern production methods, the J-M Coalinga mill assures their usefulness to our friends in the flooring industry.

For asbestos fiber literature, write Canadian Johns-Manville Co., Ltd., Box 1500, Asbestos, P.Q. Or Johns-Manville, Asbestos Fiber Sales, Research and Engineering Center, Manville, N.J.

JM

Johns-Manville

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PRODUCTION

Canada—FEBRUARY 1968 asbestos production amounted to 99,399 tons (Quebec—75,505; Newfoundland, Ontario and British Columbia—23,894). This compares with the February 1967 total of 82,541. (Dominion Bureau of Statistics, Ottawa)

South Africa—FOURTH QUARTER 1967 production of asbestos totaled 66,013 short tons: Amosite—23,266, Cape Blue—30,773, Chrysotile—10,212 and Transvaal Blue—1,762. (Department of Mines, Johannesburg)

South Africa—YEAR 1967 production of asbestos totaled 268,483 short tons: Amosite—94,898, Cape Blue—126,823, Chrysotile—39,296 and Transvaal Blue—7,466. (Department of Mines, Johannesburg)

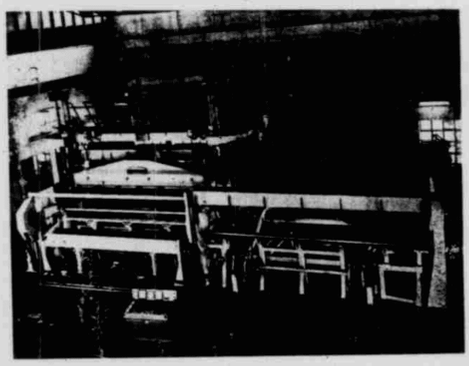
Asbestos Products Manufacturers 1966 (Annual Census of Manufacturers—Catalog No. 44-203) is now available from the Dominion Bureau of Statistics, Ottawa, Canada, at a cost of fifty cents. This report covers the operations of Canadian establishments primarily engaged in manufacturing asbestos textiles, packings, brake linings, gaskets, asbestos building materials and other commodities composed wholly or chiefly of asbestos. Value of shipments and other revenue amounted to $58.4-million in 1966. Other pertinent data covered in this report include statistics on employment and payroll, inventories, amount of fuel and electricity used, quantity and cost of materials and supplies and value of shipments of goods of own manufacture. Also included is a list of the establishments which are classified in this specific Industry.

Asbestos Mines 1964 (Catalog No. 26-205) is now available from the Dominion Bureau of Statistics, Ottawa, Canada, at a cost of fifty cents. This report includes statistics pertaining to Canadian esablishments which are primarily engaged in mining and milling asbestos fiber. It contains data on employment and payroll, amount and cost of fuel and electricity used, taxes, value of materials and supplies, drilling, production and shipments of asbestos fiber, tonnage of asbestos rock mined and milled, imports and exports of asbestos fiber and products and world production.

Asbestos Mines 1966 is now available from the Quebec Bureau of Statistics as Publication No. 3-1M. This report includes statistical data concerning establishments primarily engaged in the mining and milling of asbestos fiber in the Province of Quebec.

50 YEARS OF EXPERIENCE

in the field of machinery for asbestos-cement products



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Company's Capital: 3.000.000.000 Lire

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CALZONI

IMPORTS & EXPORTS

Imports Into U.S.A.

(Figures from U.S. Bureau of the Census)

Short Tons

Unmanufactured Asbestos:	JAN. 1968	FEB. 1968
Amosite, Crude, Cyprus	..	16
South Africa	1,434	1,740
Crocidolite (Blue), Crude, South Africa	846	1,037
Chrysotile, Crude, Canada	7	..
Finland	55	..
Chrysotile, Spinning Fibers, Canada	1,466	1,247
Yugoslavia	..	827
Chrysotile, Other, Canada	55,262	50,871
Portugal	15	..
Rhodesia	800	1,674
Asbestos, Other, Canada	1,891	1,285
Finland	69	314
Italy	1	..
Mozambique	203	454
South Africa	..	280
	62,049	59,745

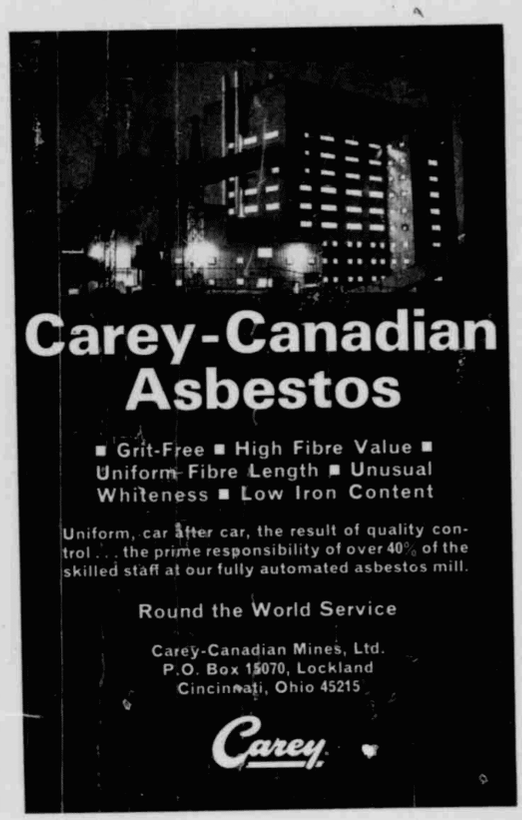
January 1968 valued at—$6,705,029

February 1968 valued at—$6,417,009

Manufactured Asbestos Goods:		JANUARY 1968	
Asbestos Yarn, Slivers, etc.	Lb	117,338	$ 89,293
A-C Pipes, Tubes & Fittings	Lb	3,523,380	168,414
Asbestos-Cement Articles, Other	Lb	1,328,145	188,906
Asbestos Articles, Other		..	7,201,908
			$ 7,648,521

		FEBRUARY 1968	
Asbestos Yarn, Slivers, etc.	Lb	84,407	$ 58,840
A-C Pipes, Tubes & Fittings	Lb	2,431,728	100,059
Asbestos-Cement Articles, Other	Lb	1,159,871	137,675
Asbestos Articles, Other		..	6,786,063
			$ 7,082,637

South Africa Exports—FOURTH QUARTER 1967 exports of asbestos totaled 53,345 short tons, valued at R6,019,542: Amosite—22,499, R2,203,288; Cape Blue—26,385, R3,405,093, Chrysotile—3,009, R212,613; and Transvaal Blue—1,452, R198,548. (Department of Mines, Johannesburg)



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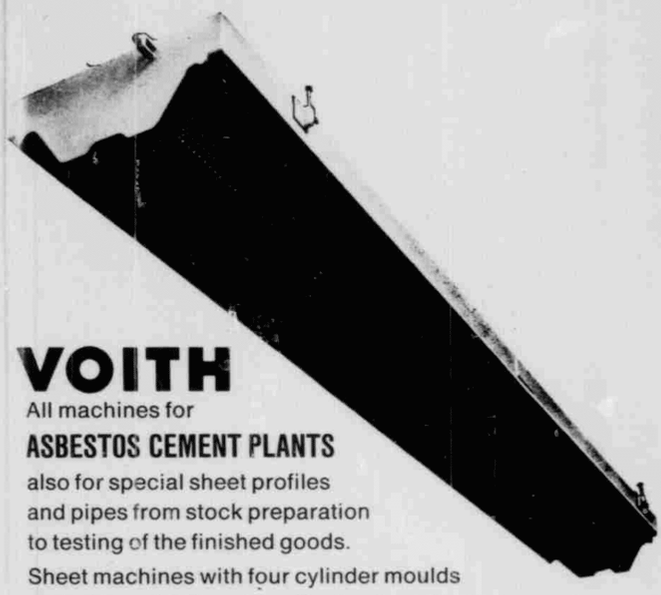
Exports From U.S.A.

(Figures from U.S. Bureau of the Census)

Short Tons

Unmanufactured Asbestos:		JANUARY 1968	
Crude & Spinning Fibers	s.tons	12	$ 3,175
Non-Spinning Fibers	s.tons	934	137,631
Waste & Refuse	s.tons	718	83,720
		1,664	$ 224,526
Manufactured Asbestos Goods:			
A-C Shingles & Clapboard	Lb	539,515	$ 53,704
Other A-C Articles	Lb	201,329	37,265
Gaskets & Packing	Lb	337,020	476,579
Textiles & Yarns	Lb	448,018	133,072
Mfrs. Other than Friction Materials			483,196
Clutch Facings & Linings for auto. use	No	158,695	150,297
Clutch Facings & Linings, Other	No	286,649	87,340
Brake Linings for automotive use	Lb	437,385	299,396
Brake Linings, Other	Lb	131,978	123,901
			$ 1,844,750
Unmanufactured Asbestos:		FEBRUARY 1968	
Crude & Spinning Fibers	s.tons	96	$ 15,805
Non-Spinning Fibers	s.tons	936	114,289
Waste & Refuse	s.tons	2,161	205,763
		3,193	$ 335,857
Manufactured Asbestos Goods:			
A-C Shingles & Clapboard	Lb	1,285,305	$ 107,907
Other A-C Articles	Lb	2,287,898	192,789
Gaskets & Packing	Lb	291,370	410,351
Textiles & Yarns	Lb	375,379	130,997
Mfrs. Other than Friction Materials			389,960
Clutch Facings & Linings for auto. use	No	233,408	152,605
Clutch Facings & Linings, Other	No	115,455	30,958
Brake Linings for automotive use	Lb	428,058	270,820
Brake Linings, Other	Lb	178,765	141,606
			$1,827,993

South Africa Exports—YEAR 1967 exports of asbestos totaled 218,599 short tons, valued at R24,650,586: Amosite—86,276, R8,446,002; Cape Blue—111,393, R14,380,417; Chrysotile—15,507, R1,102,650; and Transvaal Blue—5,423, R721,517. (Department of Mines, Johannesburg)



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All machines for

ASBESTOS CEMENT PLANTS

also for special sheet profiles
and pipes from stock preparation
to testing of the finished goods.

Sheet machines with four cylinder moulds and adjacent fully automatic sheet production lines and pre-curing means.

Pipe machines with one or two cylinder moulds for pressure and non-pressure pipes of nom. widths 50 to 1600 mm and maximum pipe lengths of 6 m.

All pipe finishing and testing machines.

Complete electrical installations for semi-automatic or fully automatic operation.

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Exports From Canada

(Published by Dominion Bureau of Statistics) JANUARY 1968

Unmanufactured Asbestos: Short Tons

	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
United States	23	1,557	18,291	35,268
United Kingdom	..	212	4,053	4,284
South America	..	11	3,123	2,378
Central America & Mexico	..	134	2,390	515
Europe	..	1,324	19,911	9,200
Japan	11	63	2,342	6,983
Other Countries	..	119	21,526	2,625
	34	3,420	71,636	59,253

Total Unmanufactured Asbestos—134,343 Valued at—$18,228,000

Manufactured Asbestos Goods:

Asbestos Brake Linings & Facings	$113,000
Asbestos-Cement Building Materials	72,000
Asbestos Basic Products, Other	70,000
	$255,000

Unmanufactured Asbestos: FEBRUARY 1968

Short Tons

	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
United States	..	1,303	23,906	35,947
United Kingdom	..	105	2,642	6,078
South America	..	..	2,951	275
Central America & Mexico	..	25	1,755	284
Europe	2	496	16,810	5,515
Japan	7	191	1,520	2,144
Other Countries	..	..	5,057	1,350
	9	2,120	53,741	51,593

Total Unmanufactured Asbestos—107,463 Valued at—$14,105,000

Manufactured Asbestos Goods:

Abestos Brake Linings & Facings	$ 31,000
Asbestos-Cement Building Materials	140,000
Asbestos Basic Products, Other	76,000
	$247,000

ARIZONA ASBESTOS

Mined and Milled by

JAQUAYS ASBESTOS CORPORATION

1219 S. 19th Avenue

PHOENIX, ARIZONA



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

MINES AND MILL IN GILA COUNTY

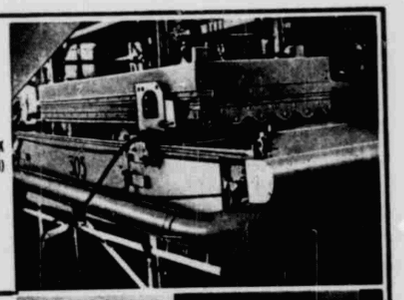
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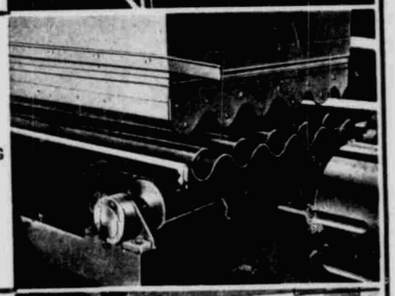
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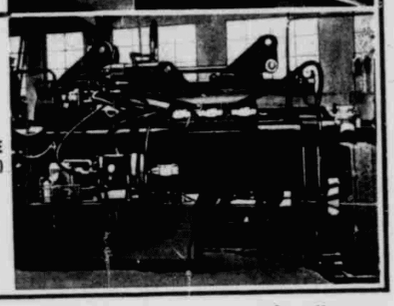
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INDUSTRY NEWS

HAPPY BIRTHDAY

John B. Jobe, Vice President for Industrial Divisions & General Manager—Industrial Insulations Division, Johns-Manville Corporation, New York City, June 16.

Gordon D. Parker, Chairman & Managing Director, British Uralite Limited, Higham, Rochester, Kent, England, June 17.

Erwin C. Gutzwiller, Director of Manufacturing, Roofing Granules, Building & Industrial Products Division, General Aniline & Film Corporation, New York City, June 20.

Ladd L. Wilson, President, Protective Papers, Inc., Hollister, California, June 20.

Lee R. Anderson, President, Asbestos Products, Inc., St. Paul, Minnesota, June 22.

J. W. Weber, President & Treasurer, American Asbestos Textile Corporation, Norristown, Pennsylvania, June 22.

C. Branton Wheatley, President & Treasurer, Philadelphia Asbestos Corporation, Philadelphia, Pennsylvania, June 22.

Malcolm Meyer, President, Certain-teed Products Corporation, Ardmore, Pennsylvania, June 23.

F. Pearson, Managing Director, BBA Group Limited, Cleckheaton, Yorkshire, England, June 26.

Dr. Gordon Taylor, Executive Director, The Flintkote Company Limited, London, England, June 26.

Edward F. Briggs, General Marketing Manager-Aerospace, Industrial Insulations Division, Johns-Manville Corporation, New York City, June 27.

J. W. McCarvill, Vice President—Administration, Asbestos Corporation Limited, Thetford Mines, Quebec, Canada, June 27.

Julien O. Heppes, Vice President, heads Floor Products Division, General Aniline & Film Corporation, New York City, June 28.

G. F. A. Brink, Manager, Product Research & Development Department, Asbestos Corporation Limited, Thetford Mines, Quebec, Canada, July 2.

I. C. Campbell, Vice-President & Secretary-Treasurer, Asbestos Corporation Limited, Thetford Mines, Quebec, Canada, July 3.

Arthur I. Rank, Jr., President, Universal Insulation Company, Philadelphia, Pennsylvania, July 3.

Donald H. Lyons, Director of Purchasing, Johns-Manville Corporation, New York City, July 5.

Howard E. Walker, Director of Research, The Flintkote Company, New York City, July 5.

S. David Skinner, Vice President-Engineering, National Gypsum Company, Buffalo, New York, July 6.

C. L. Hoshaw, Manager of Insulation Technical Service and Construction, Philip Carey Corporation, Cincinnati, Ohio, July 7.

Gordon Read, Director for Far East Operations, Johns-Manville Corporation, New York City, July 7.

Donald L. Andrew, Assistant Secretary, Philadelphia Asbestos Corporation, Philadelphia, Pennsylvania, July 11.

Alvin M. Ehret, Jr., Chairman of the Board, Baldwin-Ehret-Hill, Inc., Trenton, New Jersey, July 11.

Jack R. Paulson, Vice President, Asbestos Products, Inc., St. Paul, Minnesota, July 11.

August D. Becht, Area Supervisor of Industrial Relations, General Aniline & Film Corporation, New York City, July 12.

John F. Sullivan, Jr., President & Treasurer, Asbestos & Magnesia Materials Company, Chicago, Illinois, July 13.

Carlo M. Weber, Marketing Manager of Industrial Asbestos-Cement Products, Philip Carey Corporation, Cincinnati, Ohio, July 14.

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

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PERSONNEL NEWS

ATLAS ASBESTOS COMPANY

H. LEONARD FALLE—Vice President—Marketing.

BELL ASBESTOS MINES LTD.

Wm. J. W. SMITH—Director (is also Vice President & Sales Manager), OCTAVE MOUSSEAU—Vice President (is also Secretary-Treasurer).

CAPE ASBESTOS GROUP

C. M. FOX—Director of The Cape Asbestos Company Limited, R. D. C. HUBBARD—Secretary of The Cape Asbestos Company Limited, J. MILNE—Managing Director of Marinite Limited, G. B. GUSH—Director of Kismet Limited.

PHILIP CAREY CORPORATION

JAMES A. SUDDETH—Assistant to Vice President—Marketing, HERBERT H. ANDERSON—Vice President- Research and Engineering, ELMO A. DiSALVO—Vice President—Manufacturing, BORIS A. STERN—Corporate Director of Quality Control, J. GLEN YOUNG—Director of Engineering, NALDO PRATI—Director of Manufacturing, ROBERT A. CHRISTOPHER—Director of Manufacturing, J. W. ADAMS—Manager of the Asbestos-Cement Department.

R. A. DODGE & ASSOCIATES PTY. LIMITED

R. A. DODGE—Chairman and Managing Director of this newly formed mining consulting firm in Sydney, Australia.

G A F CORPORATION

The following appointments are within the Building & Industrial Products Division: JOSEPH G. HALL—General Manager of Building Products, WARREN DARRELL—Director of Manufacturing, WILLIAM C. O'BRIEN—Director of Marketing, DAVID L. NEIL—Director of Manufacturing for building products, ERWIN C. GUTZWILLER—Director of Manufacturing for roofing granules, GEORGE C. ANDERSON—Director of Marketing for roofing granules.

UNIROYAL, INC.

WALTER D. BALDWIN—Director (is Vice President—Administration), GEORGE W. CHANE—Director (is Financial Vice President), A. JOSEPH FONTANA—Director of Industrial Relations.

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NOTES FROM 1967 ANNUAL REPORTS

THE CAPE ASBESTOS COMPANY LIMITED

The Cape Asbestos Company Limited reports that Group profit after taxation reached £845,273 in 1967 compared to £1,292,198 in 1966. Sales of the Manufacturing Division totaled £26,887,000 and of the Mining Division totaled £7,662,000. Direct exports from the United Kingdom amounted to £2,497,000 against £2,560,000 the previous year. Fiber from the Mining Division is sold partly to the Manufacturing Division and partly to other manufacturers, principally for products supplied to the building and construction fields.

Cape Insulation Limited closed its factory at Barking, England, and reorganized its operations. It now has plants at Stirling, Hebden Bridge and Kentmere. *M. A. Boylan Limited*, Dublin, Ireland, maintained a successful record as a thermal insulation contractor. *Cape Asbestos Insulations (Pty.) Limited and Caposite Applications (Pty.) Limited*, Benoni South, Transvaal, South Africa, achieved satisfactory results during the year. *Cape Building Products Limited*, Uxbridge, Middlesex, England, recorded a strong volume of sales and contributed a satisfactory return on the amount of capital invested. Operations of *C.B.P.L.* and *The Universal Asbestos Manufacturing Company Limited* are to be fully integrated during 1968, under the name *Cape Universal Building Products Limited. Small & Parkes Limited* succeeded in finishing the year with a very good sales and trading profit. *Don International S.A.* opened its brake and clutch linings factory near Brussels, Belgium, in November. In South Africa, the sale of brake and clutch linings manufactured by *Cape Asbestos Insulations (Pty.) Limited* is now carried on by *Don International (Pty.) Limited*.

The Amosite mine in South Africa is in good condition. A circular shaft has been sunk to a depth of 900 feet and the main haulage way on 26 level from the *Penge Mine* has been connected through to the shaft. There continues to be a steady demand for both Blue and Amosite fibers and contracts have been entered into for the sale of the entire amount of fiber expected to be available during 1968.

MSAULI ASBESTOS MINING & EXPLORATION CO. LTD.

An extraordinary general meeting of the shareholders of Msauli Asbestos Mining & Exploration Company Limited was held in February, 1968, to consider an increase in the authorized share capital of the company, to pass resolutions concerning the allotment of shares and to change the name of the company to **Msauli Asbes Beperk.**

In his reviews of the financial years since 1964, the Chairman, Mr. W. B. Coetzer, mentioned the problems experienced in regard to obsolete and inefficient vehicles, machinery and equipment and the backlog in removal of overburden. These problems led to high maintenance costs and capital expenditure which resulted in adversely affected profits.

During the past two years a final and very intensive investigation was conducted. The main points in the findings of this investigation were: in a new modern plant, fiber recovery can almost be doubled; there are sufficient ore reserves to indicate a life of mine of more than 30 years; no difficulty is foreseen in selling the increased production; and the new plant, including incidental costs and services, is estimated to cost approximately R4.25-million and its erection and installation can be completed in about 18 months.

The rights issue and the change of name were successfully carried through and plans have been made toward the erection of the new mill which will utilize the most modern and efficient equipment available.

Merit Oil/Castle Tin—Merit Oil Ltd. and Castle Tin Mines Limited now have the results of assaying four drill hole cores from the northern part of their Woodsreef asbestos property in New South Wales, Australia. Three of the holes are located 900 feet north of all previous drilling and the fourth is 1,600 feet north of all previous drilling. The object of the drilling was to illustrate that the overall 90-million ton potential was reasonable and that the grades of the fiber zones in the north zone could be economic. Two of the four cores have now been mill tested and eight of the ten samples have been found to be of higher value than the visual values.

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ASBESTOS STOCK QUOTATIONS

Close—May 31, 1968

Abex	34¾	G-Alden (pfd 3.15)	127
Advocate	*$2.70	G-Alden (pfd 3)	116
Asarco	70½	G-Alden (pfd 2.25)	58
Armstrong Cork	69	Grace	37⅛
Arm. Cork (pfd 3.75)	63	Gulf & Western	49
Asbestos Corp	*18⅝	G&W (pfd 1.75)	158
Bendix	39¾	G&W (pfd 3.50)	196
Bendix (pfd 3)	68	G&W (pfd 3.87)	81½
Cassiar	*$15.375	G&W (pfd 5.75)	75¼
Certain-teed	28½	Johns-Manville	67¾
Certain-teed (pfd .90)	28⅜	McAdam	*$.75
Conwest	*$10.625	National Gypsum	57¼
Fiberboard	47½	Nat. Gypsum (pfd 4.50)	74¼
Flintkote	29	Porter (pfd 5.50)	79⅞
F-kote (pfd-A 4.50)	86½	Raybestos	56¾
F-kote (pfd-B 2.25)	43¾	Unarco	12⅛
GAF Corp.	23½	Union Carbide	41¾
GAF (pfd 1.20)	31¼	Uniroyal	54
Garlock	22⅝	Uniroyal (pfd 8)	123½
Glen-Alden	16⅝	United Asbestos	*$10.50

*Canadian currency

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ASBESTOS PRICES

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

(As of July 10, 1964)

No. 1 Crude	$1,410.00 to	$1,650.00
No. 2 Crude	610.00 to	900.00
AAA	..	800.00
Group No. 3 (non-ferrous filtering & spinning)	425.00 to	750.00
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 of 2,000 lbs. f.o.b. Mine

(As of April 1, 1968) Canadian Currency

Crude No. 1	$ ..	$1,410.00
Crude No. 2	..	760.00
Group No. 3 (spinning fiber)	367.00 to	600.00
Group No. 4 (shingle fiber)	201.00 to	341.00
Group No. 5 (paper fiber)	143.00 to	169.00
Group No. 6 (waste, stucco or plaster)	.. to	104.00
Group No. 7 (refuse or shorts)	45.00 to	87.00

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

(As of January 1, 1968) Canadian Currency

AAA	grade (non-ferrous spinning fiber)	$ 810.00
AA	grade (non-ferrous spinning fiber)	643.00
A	grade (non-ferrous spinning—Canadian Group 3)	484.00
AC	grade (asbestos-cement—Canadian Group 4)	345.00
AK	grade (shingle fiber—Canadian Group 4)	241.00
CP	grade (shingle fiber—Canadian Group 4)	220.00
AS	grade (shingle fiber—Canadian Group 4)	200.00
CT	grade (shingle fiber—Canadian Group 4)	195.00
AX	grade (shingle fiber—Canadian Group 5)	177.00
CY	grade (shingle fiber—Canadian Group 5)	126.00
AY	grade (shingle fiber—Canadian Group 5)	126.00

VERMONT— Per Ton of 2,000 lbs., f.o.b. Morrisville, Vermont

(As of April 1, 1968) U. S. Dollars

Group No. 3 (spinning & filtering)	$ 319.00 to	$ 342.00
Group No. 4 (shingle fiber)	186.00 to	296.00
Group No. 5 (paper fiber)	132.00 to	156.00
Group No. 6 (waste, stucco or plaster)	..	96.00
Group No. 7 (shorts & floats)	44.50 to	80.00
Group No. 8 (shorts)	..	27.50

BUILT ON A ROCK

Crude Asbestos is the rock on which our business is built. In the Scandura Factories at Cleckheaton and West Auckland it is used to manufacture everything for which asbestos is best, from yarns and cloths to all types of jointings and packings. Our Research Laboratories keep us at the head of development; Asbestos is *our* subject.

THE ASBESTOS DIVISION OF **SCANDURA LIMITED**

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ASBESTOS PATENTS

U.S. Patents on Asbestos and Asbestos Products, by Oliver S. North.

U.S. Patents may be purchased from The Commissioner of Patents, Washington, D.C. 20231, at a cost of 50c each. Remittance should be in coin, currency, or check and the number of the patent, name of inventor and date of issue should be shown.

U.S. Patents issued from April 16 through May 7, 1968.

3,380,542—Restoring Lost Circulation in a Well Drilled With an Oil Base Drilling Fluid, E. E. Clear (assigned to Phillips Petroleum Company, a corporation of Delaware), April 30, 1968.

3,382,119—Method of Plastering Wall Surfaces and Joint Sealing Compound Used Therein, W. W. Henkel (assigned to The Valspar Corporation, Rockford, Illinois), May 7, 1968.

3,382,309—Method and Apparatus for Forming an End Profile on Asbestos-Cement Pipe, R. H. Adams (assigned to Johns-Manville Corporation, New York City), May 7, 1968.

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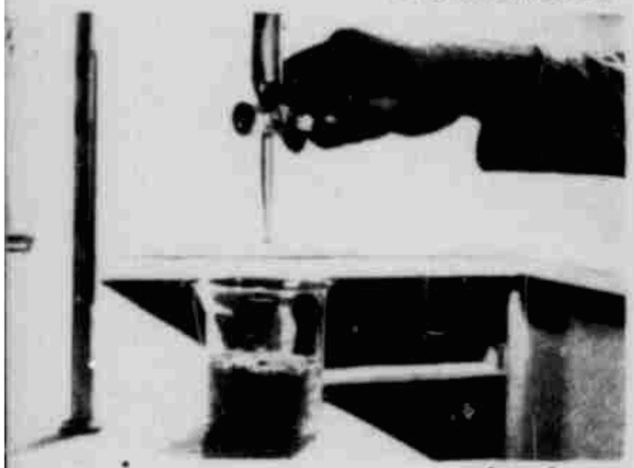
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RAYBESTOS-MANHATTAN, INC.
Manheim, Pa. 17545



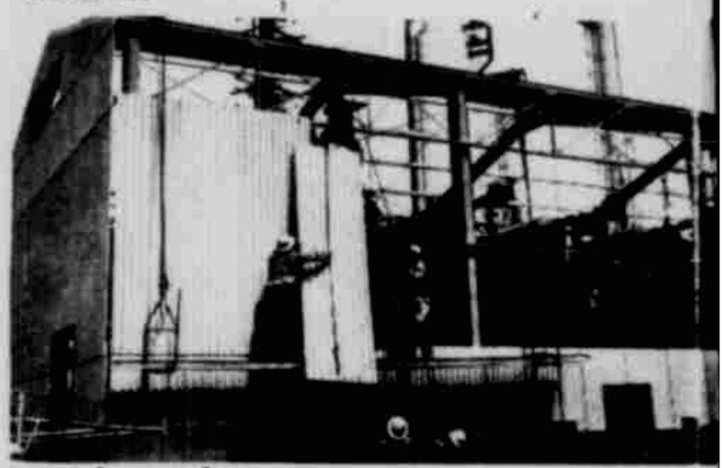
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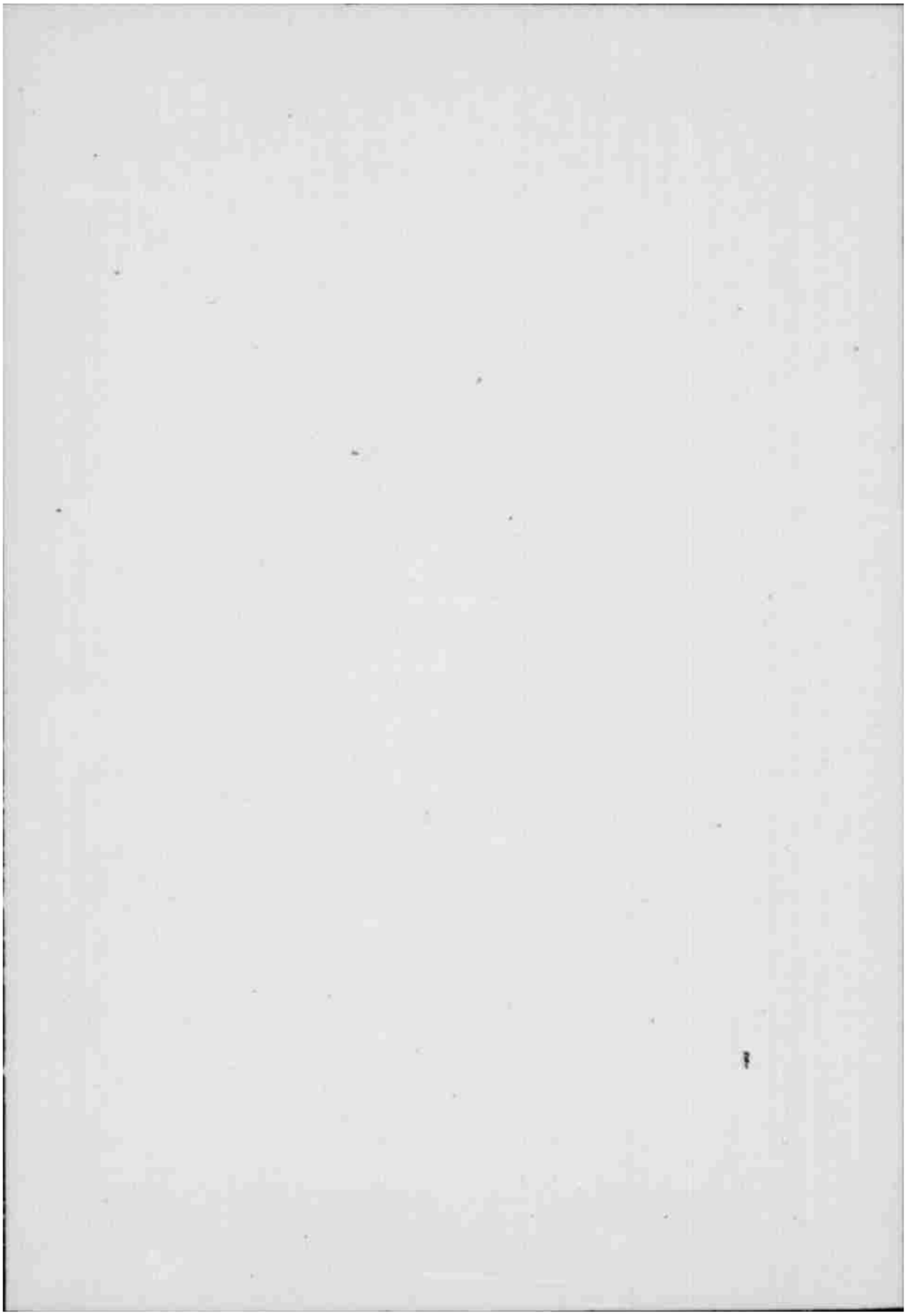
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For full details write to General Aniline & Film Corporation, Industrial Products, 733 Third Avenue, New York, New York 10017.

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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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