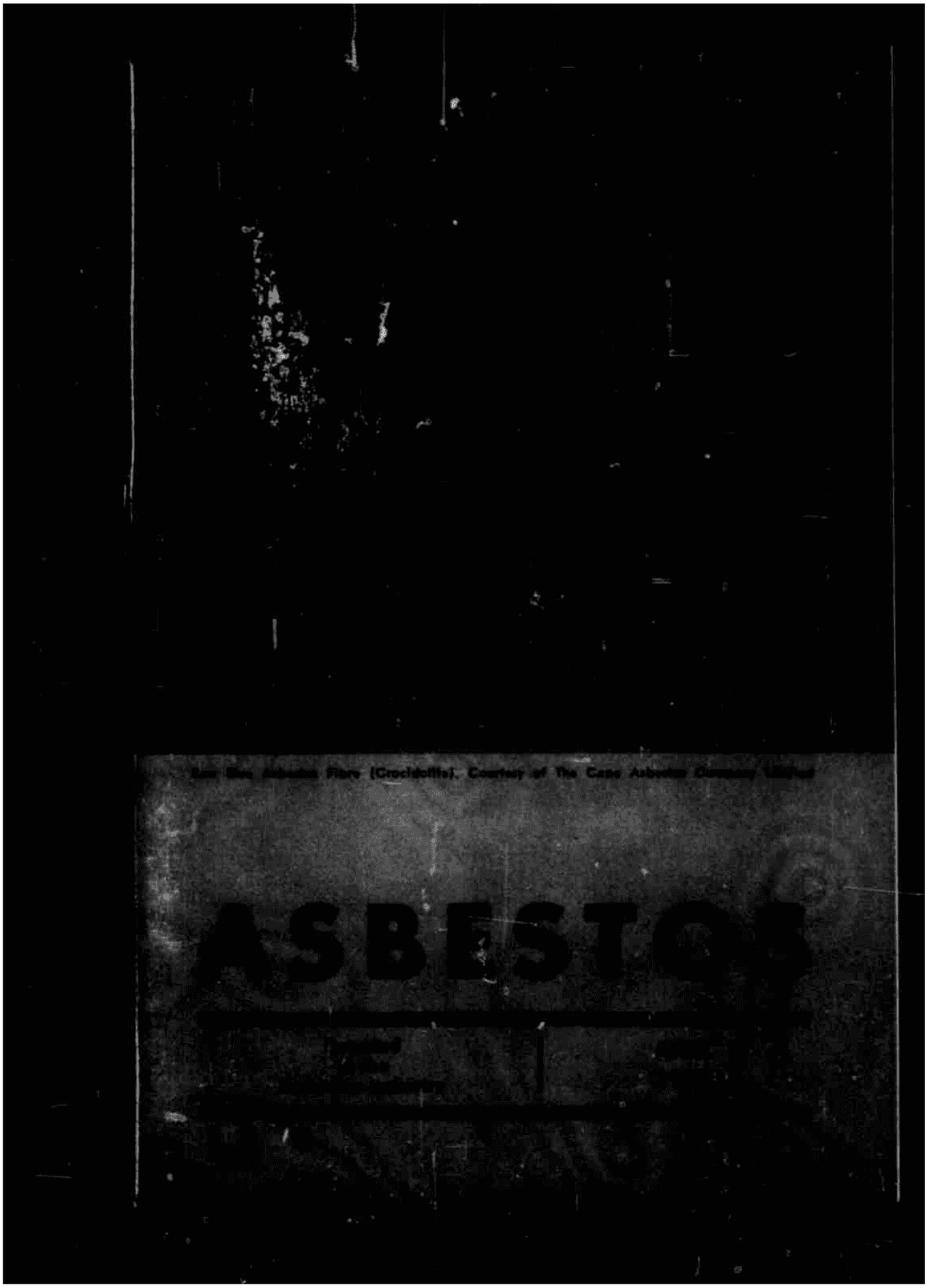

ASBESTOS

THE
PUTTEN'S ASBESTOS CORP.
ORGANIZATION

ALL TYPES AND GRADES ASBESTOS FIBRES
CHRYSOTILE — CROCIDOLITE (BLUE)
AMOSITE — ANTHOPHYLITE

HEAD OFFICE: PUTTEN'S ASBESTOS CORPORATION OF SOUTH AFRICA (PTY.) LTD.
Rand Central Building, 165 Jeppe Street, Johannesburg.
P.O. Box 7167 — Telephone: 22-8225
Tel. Add "Euraf Johannesburg", Telex: .43-7577-JH

ASSOCIATED COMPANIES: PUTTEN'S ASBESTOS CORPORATION OF RHODESIA (PVT.) LTD.
Throgmorton House, corner Jameson Ave./Kingsway,
Salisbury/Rhodesia. P.O. Box 2246 — Telephone: 29379
Tel. Add. "Euraf Salisbury"

PUTTEN'S ASBESTOS CORPORATION (U.K.) LTD.
3/4 Bevis Marks, St. Mary Axe, London, E. C. 3.
Tel. Add. "Euraf London", Telex: 28202. Tel. AVE 1091

PUTTEN'S ASBESTOS CORP.
(NORTH AMERICA) LTD.
3313 A Bloor Street, West, Toronto 18, Ontario.
Telephone: Area Code 416 239-2522
Tel. Add. "Eurafco - Toronto"

ASBESTOS

VOLUME 49 APRIL 1968 NUMBER 10
FOUNDED JULY 1919 AND PUBLISHED MONTHLY SINCE THAT DATE

CONTENTS

NOTE FROM THE PUBLISHER 1
ASBESTOS TEXTILE ELECTRICAL INSULATIONS 6
A. L. PENHALE RECEIVES ASBESTOS STORY RING 18
MARKET CONDITIONS 24
AUTOMOBILE SALES 32
BUILDING 34
PRODUCTION 38
IMPORTS & EXPORTS 40
INDUSTRY NEWS 46
NOTES FROM 1967 ANNUAL REPORTS 50
ASBESTOS STOCK QUOTATIONS 56
ASBESTOS PRICES 58
ASBESTOS PATENTS 60

ASBESTOS is indexed regularly by Engineering Index, Inc.

PROPRIETOR: Trust of C. J. Stover
EDITOR: D. M. Fagan PUBLISHER: Carrell J. Stover

SUBSCRIPTION RATES—United States, $3.00 per year; All Other Countries, add $1.00 for postage; Current Copies, 25 cents each; Back Copies, 35 cents each; payable in U.S. Funds to:

ASBESTOS, 807 Western Saving Fund Building
Philadelphia, Pennsylvania 19107 Telephone: 215-546-0420

Second Class Postage Paid at Philadelphia, Pennsylvania, U.S.A.
Copyright 1968 Maud M. Stover, Trustee, Trust of C. J. Stover

NOTE FROM THE PUBLISHER

From 1933 to 1940, the writer was associated with his father in many activities connected with the Asbestos Industry including certain advisory work in connection with the publication of ASBESTOS. Returning from military service in 1945, although primarily engaged in other activities, he did manager to keep abreast of Industry affairs through the medium of ASBESTOS and, on occasion, contributed in certain ways to the publication and editorial content of the magazine.

Upon the retirement of Miss Edith E. Cox as Editor and Publisher, it was determined that it would be well, in the interest of preserving a certain continuity in management, for him to assume the more active role of Publisher.

We have watched, with great interest, the growth of the Asbesos Industry all over the world and, with it, the steady growth of ASBESTOS the magazine. We look forward with much pleasure to this opportunity to establish a closer relationship with the Industry and its members.

A basic policy of ASBESTOS, ever since its founding, has been to confine itself to the field of Asbestos and its products and to limit its content to news and articles of interest to the primary producers and processors of this material. Adherence to this policy, while not conducive to maximum profits, has insured the continuance of ASBESTOS as *the* trade journal of a vital and growing industry.

The continuing support of our subscribers, advertisers and other friends throughout the Industry convinces us that our basic policy is correct and should be continued. This is our intent and purpose.

We would stress that the content of ASBESTOS is influenced to a great extent by the contributions of news and other information from our readers and advertisers. We welcome and actively solicit such contributions since only through them can we continue to supply our readers with the flow of timely information they require to keep abreast of doings in the Industry. We want to make ASBESTOS grow with the Industry it represents and become even more useful and

The **R. C. M. Company** *- known all over the world as a Firm highly specialized in the manufacture of equipments for the production of asbestos-cement pipes and sheets - make available their own experience for the solution of the following problems:*

- *dust elimination in asbestos departments*
- *pneumatic transport and ensilage of cement*
- *automatic preparation of asbestos mix*
- *hydrodesintegration of asbestos with patented process*
- *automatic preparation of slurry with turbomixer*
- *centralized recording of asbestos and cement weighings*
- *pipe curing by means of roller conveyor*
- *automatic sheet corrugation and quick maturing of them*
- *modernization of pipe machines with two forced feeded sieve cylinders.*

R. C. M.
85, Corso Pietro Colletta - TORINO (Italy) - P. O. Box 468
Cable Address: Erciem Torino - Phone: 233823/4/5 - 284837 - 284797

authoritative as the fountainhead of information for the Industry in the years ahead.

With the assistance of our readers and advertisers, we can do this, and we earnestly solicit your cooperation to that end.

Carroll J. Stover

R/M 663 PYROID is a new compressed asbestos sheet for general purpose gasketing which has been developed by the Packing Division of *Raybestos-Manhattan, Inc.* The best characteristics of three other compressed asbestos sheets (R/M 650, 663 and 670, now discontinued) were combined in this new gasket material which is composed of a high percentage of long chrysotile asbestos fiber and a special binder compound together with reinforcing and protective ingredients. The tensile strength of R/M 663 Pyroid averages 5,000 psi. The material is temperature rated up to 800°F and will withstand pressures up to 700 psi. It can be used effectively in public utility power plants, oil refineries, petro-chemical installations, marine and many other industrial pipe flange gasket applications and is recommended as a general-purpose sheet for use in sealing against oil, steam, acids, alkalies, gasoline, benzol, kerosene and chlorine. It is designed to meet the requirements of the National Board of Fire Underwriters and the following specifications: MIL-A-1742B, MIL-A-7021B Class II, MIL-G-12803A P-1161-A, ASTM D1170, Federal HH-P-46c and SAE 90R P-1161-A.

ELLWOOD FRANKLIN JONES, SR., Executive Secretary from 1959 to 1968 of the Insulation Distributor-Contractors National Association, Inc., has passed away. Mr. Jones with his talents and high caliber of fresh ideas and new goals will be greatly missed by his many friends and associates.

CAPE BLUE ASBESTOS

Direct from the Mines or from stocks in London

•

TRANSVAAL BLUE · AMOSITE
CHRYSOTILE · ANTHOPHYLLITE

•

Processing of all grades of Asbestos carried out in our London Works

CENTRAL ASBESTOS Co., LTD.

CENTRAL HOUSE · THOMAS ROAD · LONDON E.14
'Phone EAST 5711 Cables CENBESTOS LONDON
CENTRAL ASBESTOS (S. A.) PTY LTD P.O. BOX 10213 JOHANNESBURG

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.

INTRODUCTION

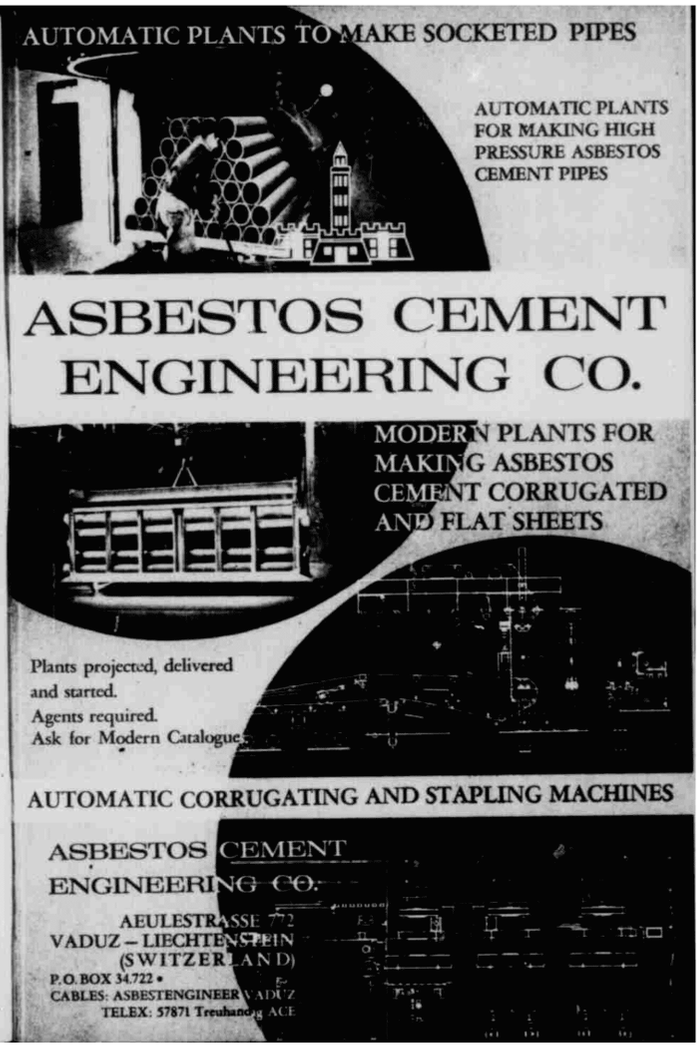
There are many asbestiform (fibrous) minerals, but only one, chrysotile, is used for electrical insulation. This is a hydrated magnesium silicate which is most correctly expressed by the formula $Mg_3[(OH)_4Si_2O_5]$. The hydroxyl (OH) ions are loosely bound to the remainder of the molecule and are easily liberated by heat as water, which amounts to approximately 14% of the total weight of the asbestos.

The asbestos fibers, which are actually elongated crystals, when properly opened, range in length from three-quarters of an inch downward. They are soft, silky and very flexible, which allows them to be processed into a variety of textiles and papers.

Impurities in the crystal (fiber) structure and between the fibers are the rule, and not the exception. Of importance in electrical insulation are two types of impurities which occur between the fibers—magnetite and inorganic salts.

Magnetite is a conductive iron oxide which occurs between and at the ends of the fibers in the form of spicules up to one twentieth of an inch in length. Although some of the magnetite is removed from the asbestos during the fiber opening operation, when present in the finished product it affects the dielectric properties of the fibers. The amount present in the final product is an important basis for classifying asbestos products used for electrical insulations.

Inorganic salts which may be present, are metallic chlorides and carbonates. While not generally present in more than trace amounts, the fibers from certain mines do contain measurable quantities. As these salts are usually hygroscopic, in high humidities they take up enough water to lower the volume resistivity of asbestos products containing them.



SPECIFICATION FOR ASBESTOS TEXTILES USED FOR ELECTRICAL INSULATING PURPOSES

The basic specification for all asbestos textiles used for electrical insulating purposes is ASTM D 2100. This specification has been accepted as the asbestos textile standard by all electrical industry standardizing agencies such as U.L., NEMA, IPCEA, AIEE and USASI, as well as all U.S. Government agencies.

This specification classifies asbestos textiles on the basis of the amount of magnetite present (Types) and amount of asbestos fiber in the finished product (Grades).

TYPES

The amount of magnetite present is measured by a magnetic analyzer and is expressed empirically as the magnetic rating (MR). The method is based on the principle of comparing the electromagnetic effect of an unknown sample of asbestos with the electromagnetic effect of a standard magnetite sample.

The Types are based on the following magnetic ratings:

Type	Maximum Magnetic Rating (MR)
II	.75
IV	2.00
VI	4.00

The method for determining the magnetic rating (MR) is given in ASTM Method D 1118, Magnetic Rating of Asbestos Used for Electrical Purposes.

The *Type* of asbestos roughly defines the electrical characteristics of the textile. Generally, the higher the magnetic rating, the poorer the electrical properties of the material. The three types have the following intended application:

Type II is intended for thin-wall primary wire insulation, as on magnet wire and pyrometer wire.

Type IV is intended for heavy-wall primary insulation, as on asbestos fixture and appliance wire (UL Types AF and AI) and smokeless lead wire (Type A).

CANADIAN ASBESTOS



THE NICOLET ASBESTOS MINE
Norbestos (via Warwick)
Que.

Address Inquiries to:

NICOLET INDUSTRIES. INC.

ASBESTOS FIBRE DIVISION

Nicolet Avenue

Florham Park*, New Jersey

*Suburb of New York City.

Type VI is intended for use where the electrical properties of the asbestos textiles are of minor importance, i.e., overall wire and cable wraps and braids or cable fillers.

GRADES

The word "Grade" as used in the asbestos textile industry, indicates a system of classification based on the percentage of asbestos, by weight, in the finished product. The standard grades with the percentage of asbestos content for each grade are listed in Table I.

Table I

Grade	Percentage of Asbestos by Weight
Underwriters	80 to 85 exclusive
A	85 to 90 exclusive
AA	90 to 95 exclusive
AAA	95 to 99 exclusive
AAAA	99 to 100 inclusive

The higher Grades of asbestos textiles require the use of relatively long asbestos fibers to improve processability and to impart the desired strength and serviceability to the end product despite the somewhat limited availability and higher cost of such fibers.

As the Grades decrease in asbestos content, the shorter the average length of asbestos fiber used. In order to process these short asbestos fibers into textiles, and give them strength, long organic fibers, usually cotton or rayon, known as carrier fibers, are blended with the asbestos fibers prior to processing.

The Grade of asbestos textile used is largely dependent on the service temperature required of the insulation.

ELECTRICAL PROPERTIES OF ASBESTOS INSULATIONS

The effect of magnetite and mineral salts on the electrical properties of asbestos has been noted. Independent of these impurities, asbestos insulations have certain characteristics.

The electrical properties of untreated asbestos insulations remain fairly constant regardless of temperature. The electrical properties of treated asbestos insulations are somewhat dependent on the electrical and/or thermal characteristics of the treating compound. Treated or untreated asbestos textile

THOMAS HARDMAN
& SONS LTD
The largest manufacturers
of
ASBESTOS CEMENT
FELTS
in
Great Britain offer their
World renowned
Patented
NEEDLE REINFORCED
100% NYLON FELTS

Manufacturers and Patentees
THOMAS HARDMAN & SONS LTD
Fernhill Mills, Bury, Lancashire. England

CABLES:
Felts, Bury, Telex

TELEX:
No. 66477

Published by AsbestosClaims.Law
asbestosclaims.law/library/12612/7

insulations, in general, provide no better electrical insulations than an air space of equivalent thickness and vary with the relative humidity of the air.

The volume resistivity of chrysotile fiber varies from about 500 megohm inches for good chrysotile, under dry conditions, to less than .01 megohm inch for poor chrysotile at 90% relative humidity.*

The dielectric strength of asbestos textile insulations will vary from about 75 volts per mil for Type II asbestos insulations thoroughly impregnated with wax-like materials, at low humidities, to less than 30 volts per mil for untreated and paint- or varnish-impregnated Type IV insulations at 90% relative humidity. This is not true, however, of asbestos papers which, when saturated and surface coated with resins, give dielectric strengths in excess of 300 volts per mil.

ASBESTOS INSULATION AT ELEVATED TEMPERATURES

There are three inherent factors which have an important bearing upon the serviceability of asbestos insulations at elevated temperature.

1. The percentage of asbestos in the insulation.
2. The type of compound used to saturate and/or finish the insulation.
3. The design and construction of both the asbestos textile being used and the insulating system.

At temperatures above 250°F, in the presence of air, any organic-carrier fiber or reinforcing strands present, rapidly oxidize to water and carbon dioxide. While this reduces the physical properties of the lower grades of asbestos textile, it does not affect the electrical properties except during the short time the organic fibers are oxidizing or burning off. The higher the temperature, the shorter is the time the electrical properties are affected. This is not true, however, if the asbestos is enclosed in a manner which will prevent the complete oxidation of the organic fibers. In this case, the organic fibers deteriorate to carbonaceous matter which decreases the electrical properties of the insulation proportional to the amount of organic fibers present, lowering both the dielectric strength and volume resistivity.

BELL ASBESTOS MINES LTD.
THETFORD MINES, QUE.
CANADA



Producers of
Raw Asbestos Crudes
& Fibres



Sales Representatives
for
Cassiar Asbestos Corporation Limited

Published by AsbestosClaims.Law
asbestosclaims.law/library/12612/8

At temperatures above 400°F, asbestos begins to lose its water of hydration. This gradually lowers its physical properties, i.e., tensile strength and/or abrasion resistance until a temperature of 900°F is reached. Beyond this point, the physical properties decrease much more rapidly with increasing temperatures and times of exposure. Much laboratory work has been done to compile data showing exact loss of water of hydration at various temperatures and times of heating for typical asbestos fibers. Measurements of physical properties after such exposures have been made and, while complete data cannot be published here, a few examples can be cited to show the relationship between temperature, time of exposure, loss of water of hydration and resulting physical properties.

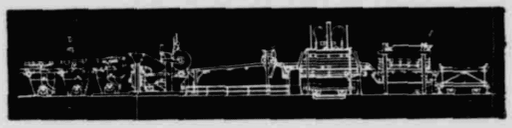
For example, a chrysotile fiber with about 14% original water of hydration will show a loss of about .90% water after 72 hours at 400°F and little or no further loss is shown when the same temperature is maintained for over 300 hours. The loss in strength and/or abrasion resistance would be about 3% in a Grade AAAA textile and about 40% in an Underwriters Grade material. The same fiber, heated to 800°F, will show a loss of about 2.8% water after 72 hours and a loss of about 3.02% water after 336 hours at the same temperature. The loss in physical properties in a Grade AAAA textile would be about 20% and, in an Underwriters Grade, about 80%. At the extreme, after one hour at 1800°F, all the water of hydration (14%) is lost and, while the asbestos retains its fibrous form, the tensile strength and/or abrasion resistance approach zero. It should be noted that the quoted losses in physical properties of asbestos textiles are only partially due to loss of properties of the asbestos fibers themselves. A large percentage of these losses is due to oxidation of the carrier fibers and, naturally, varies with the amount of carrier fiber used in each Grade.

In general, the higher the asbestos content, the higher the temperature the insulation will withstand.

While it is impossible to give definite temperatures that the various grades of asbestos textiles will safely stand, Table II gives the limiting temperatures at which the various grades are *generally* used, based on retention of physical properties.

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

Table II

Grade	Temperature	Max. amount of organic reinforcing strand and/or carrier fiber allowed
Underwriters	450°F	20%
A	550°F	15%
AA	600°F	10%
AAA	750°F	5%
AAAA	900°F	1%

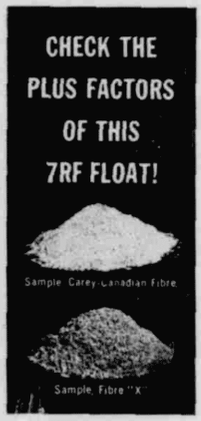
The electrical properties of untreated asbestos insulations at these temperatures remain fairly constant and those of saturated asbestos insulations are dependent on the electrical and thermal properties of the saturating compound used.

Where physical properties are not important, as in low-voltage pyrometer leads, wires insulated with untreated, felted, Grade AAAA asbestos and quartz fiber braid or with felted Grade AAAA asbestos saturated with special compounded metallic oxides combined with silicates or phosphates have been used for temperatures in excess of 1500°F. At these temperatures the electrical properties of the asbestos are roughly equivalent to those of silicate clays.

*"Testing of Asbestos Fibers", by Dr. J. W. Axelson, Johns-Manville Corporation, at a meeting of the Asbestos Textile Institute on October 8, 1965.

This article will be continued in the next issue of ASBESTOS.

PHILIP CAREY CORPORATION is the new company name of the former "The Philip Carey Manufacturing Company". President C. E. Tennesson, Jr., when announcing this change in the company name, stated "By adopting this new, more descriptive name of our company, we hope to portray a new image of a dynamic company, providing the best in quality and service in our present product line, while seeking out new areas for product expansion". Philip Carey Corporation, a subsidiary of the Glen Alden Corporation, is a major producer of construction materials with nationwide distribution served from eight manufacturing plants. In addition to its U.S. operations; Philip Carey has two Canadian subsidiaries—The Philip Carey Co., Ltd., with plants in Toronto and Lennoxville and Carey Canadian Mines, Ltd., with extensive mining facilities in Quebec.



1. UNUSUAL WHITENESS
2. LOW IRON CONTENT
3. GRIT-FREE
4. UNIFORM FIBRE LENGTH
5. HIGH FIBRE VALUE
(90% on 100 mesh)

Carey-Canadian's 7RF-9, available in commercial quantities, has proved to be of extreme interest to resin compounders, joint cement manufacturers and others seeking an asbestos float with the above properties.

Samples and complete information on Carey-Canadian 7RF-9 floats may be obtained from the warehouse locations listed below or by writing to Carey-Canadian Mines, Ltd., P.O. Box 15070, Lockland, Cincinnati, Ohio 45215, or The Philip Carey Company, Ltd., Ville St. Laurent, Montreal 9, P. Q., Canada

Carey®

Warehouse stock located at:

Baltimore, Md.	A. B. Kohl Sales Company
Brooklyn, N.Y.	Empire Ace Insulation Mfg. Company
Brooklyn, N.Y.	Smith Chemical & Color Company
Buffalo, N.Y.	Commercial Chemicals, Inc.
Chicago, Ill.	Chicago Firebrick Company
Cleveland, Ohio	Donald McKay Smith, Inc.
Dallas, Texas	Thompson-Hayward Chemical Company
Davenport, Iowa	Thompson-Hayward Chemical Company
Des Moines, Iowa	Thompson-Hayward Chemical Company
Detroit, Mich.	A. E. Fleming Company
Garwood, N.J.	Asbestos Corporation of America
Houston, Texas	Thompson-Hayward Chemical Company
Indianapolis, Ind.	Thompson-Hayward Chemical Company
Kansas City, Mo.	Thompson-Hayward Chemical Company
Knoxville, Tenn.	A. G. Heins Company
Little Rock, Ark.	Thompson-Hayward Chemical Company
Los Angeles, Calif.	E. S. Browning Company
Memphis, Tenn.	Thompson-Hayward Chemical Company
Milwaukee, Wisc.	Sprinkmann & Sons
Minneapolis, Minn.	Thompson-Hayward Chemical Company
New Orleans, La.	Thompson-Hayward Chemical Company
Oklahoma City, Okla.	Thompson-Hayward Chemical Company
Philadelphia, Pa.	George A. Rowley & Company, Inc.
Pittsburgh, Pa.	McCann-Shields Paint Company
St. Louis, Mo.	Thompson-Hayward Chemical Company
San Francisco, Calif.	E. S. Browning Company
Trenton, N.J.	H. M. Royal, Inc.
Winchester, Mass.	W. D. Egleston Company, Inc.

Published by AsbestosClaims.Law
asbestosclaims.law/library/12612/10

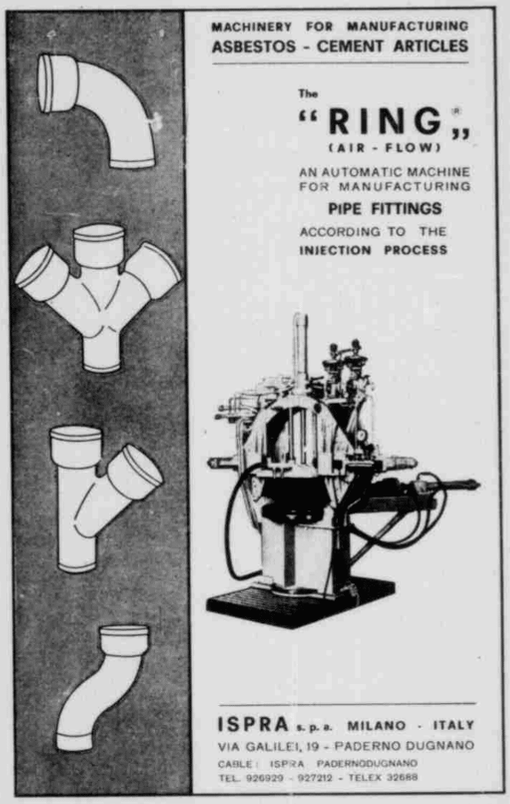
A. L. Penhale Receives Asbestos Story Ring

The eleventh casting of the Asbestos Story Ring was presented to Mr. Alfred L. Penhale, Chairman of the Board of Asbestos Corporation Limited, at a dinner held in his honor March 12, 1968. The presentation was made by Philip A. Meyer, Vice President of Nicolet Industries, Inc. A number of Mr. Penhale's associates in the Asbestos Industry attended the dinner.

Mr. Penhale entered the Asbestos Industry in 1924 when he joined Asbestos Corporation of Canada Limited as Secretary to the Manager. He was appointed General Sales Manager in 1937, Secretary in 1943, General Manager in 1947.



Above is a photograph of those in attendance during this presentation. Seated, from left to right, are: J. A. D. Marcotte, Special Assistant to the President of Asbestos Corporation Limited; George W. Smith, Chairman of Bell Asbestos Mines Ltd.; A. L. Penhale, Chairman of the Board of Asbestos Corporation Limited; Philip A. Meyer, Vice President of Nicolet Industries, Inc. and Chairman of Nicolet Asbestos Mines Limited and W. S. Cowell, President of Albion Asbestos Packings Limited. Standing, from left to right, are: James A. Main, Vice-President of Flintkote Mines Limited; M. J. Messel, President of Lake Asbestos of Quebec Limited; C. B. Brown, Director of Bell Asbestos Mines Ltd., W. W. Oughtred, President of Asbestos Corporation Limited; F. P. Smith, President of Bell Asbestos Mines Ltd.; J. F. Jenkins, retired Senior Vice President of Asbestos Corporation Limited and J. D. Christian, President of Cassiar Asbestos Corporation Limited.



Published by AsbestosClaims.Law
asbestosclaims.law/library/12612/11

President and Managing Director in 1948 and Chairman in 1967.

Upon receiving the Ring, Mr. Penhale expressed his appreciation to all his friends who had been so kind to him.

The Asbestos Story Ring is designed to symbolize the story of the Asbestos Industry from the mining of the raw asbestos fiber through the many manufacturing processes to the various finished products. It is of solid gold and has an engraved onyx setting.

METATE ASBESTOS CORPORATION has issued a brochure entitled "The Metate Asbestos Precoat Filter Aid". The company suggests its "Fast-Flo" LX-222-NAW pure asbestos precoat filter aid to achieve maximum cake stability on pressure type filters, to overcome mechanical hydraulic deficiencies and to gain excellent clarity and quicker precoat formations. Metate owns its own asbestos mines, in Globe, Arizona, and selects, mills and grades its fiber for filter use only.

MATERIAL FAILURES CONFERENCE will be held May 1, 1968, at the laboratories of the National Bureau of Standards in Gaithersburg, Maryland. Mr. Ralph Nader, well-known critic of automotive safety, will address the conference and six nationally known authorities in mechanical engineering, metallurgy and nondestructive testing will present their views. This program is sponsored by the Washington Chapters of the American Society for Metals, the American Society of Mechanical Engineers and the National Bureau of Standards.

UNIROYAL, INC. has undertaken a major modernization and expansion program of the hose and belt fabric manufacturing facilities at its plant in Hogansville, Georgia. A new air-conditioned weaving plant will be constructed which will include new looms especially designed to weave hose and belt duck from both natural and synthetic fibers. Present spinning and preparatory facilities at Hogansville will be consolidated and modernized within the present complex. The new facilities are scheduled to begin operation in June of 1969.

U. S. Rubber's Asbeston® is exactly like ordinary asbestos, except:

It's stronger per pound.
It's lighter per yard.

So, it's easier to work with.

Asbeston is ordinary asbestos, except that it's been spun and woven, brushed and calendered, to get a smoother, fuller fiber cover. As yarn, fabric, or tape, Asbeston comes in the widest variety of weights and sizes for every application.

If Asbeston sounds like something you've been looking for, write:

UNIROYAL FIBER and TEXTILE
Division of UNIROYAL, Inc.
Textile Administrative Center
350 Columbia Road
Winnsboro, S.C. 29180

Textile Division
UNIROYAL
THE NEW WORLDWIDE NAME OF U.S. RUBBER

●ASBESTON IS THE UNIROYAL, INC. REGISTERED TRADEMARK FOR ITS ASBESTOS YARNS, FABRICS AND TAPE.

We've been the largest independent producer of chrysotile asbestos for 93 years

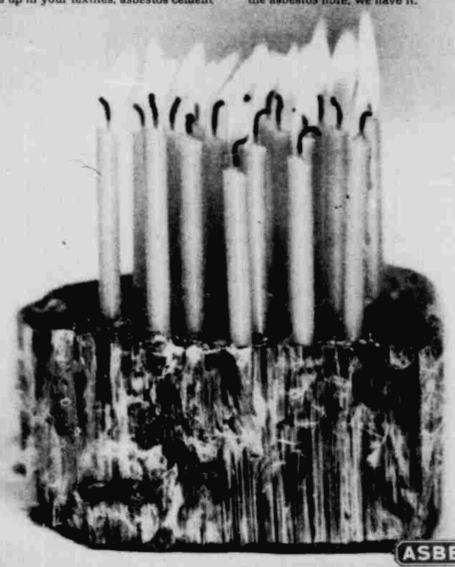
on the strength of our fibre

Our business is asbestos. We've mined it, milled it, and supplied it to industry since 1875.

In this, our Country's 101st year, we can look back on almost a century of growth that has made Asbestos Corporation Limited the largest independent producer in the free world. Today, our 4 plants produce all grades of asbestos from crude to the shortest fibre.

And the asbestos that starts down in our mines ends up in your textiles, asbestos cement products, brake linings, acoustic tiles, or floor covering. You'll find ACL asbestos almost everywhere . . . in consumer appliances, in building materials, even in paints, plastics and rubber. Right now modern laboratory trained technicians are looking for new and exciting ways of producing and applying asbestos.

Asbestos Corporation Limited, proud of its years of growth and service to industry, looks to the future. If you need any grade of chrysotile asbestos fibre, we have it.



ASBESTOS

ASBESTOS CORPORATION LIMITED
Thetford Mines, Quebec, Canada

ASBESTOS CORPORATION LIMITED

ASBESTOS

North American Representatives

■ CANADA

Albion Asbestos Packings Ltd.
2195 Ekers Ave.
Montreal 26, Que.

Canadian Asbestos Ontario Ltd.
286 King Street East
Toronto 2, Ont.

■ MEXICO

ACOSA
Apartado Postal 8600
Mexico 1, D.F.

■ UNITED STATES

BALTIMORE, MD. 21202
Wallace & Gale Co.
115-119 So. Gay St.

BUFFALO, N.Y. 14210
Meyers Chemicals Inc.
290 Larkin St.

CHICAGO, ILL. 60645
Donald R..Fitzgerald Co.
5875 N. Lincoln Ave.

CINCINNATI, OHIO 45203
C. L. Zimmerman Co.
N 303 Cincinnati Unior Terminal

CLEVELAND, OHIO 44102
Chem-Materials Co., inc.
6400 Herman Avenue

DETROIT, MICH. 48219
Gerald J. Fahey
16772 Plainview Road

FORT WORTH, TEXAS 76106
Lehman-Phillips, Inc.
2550 Glendale Ave.

HAYWARD, CAL. 94544
Central Solvents & Chemicals Co.
31702 Hayman St.

KENT, WASH. 98031
Central Solvents & Chemicals Co.
7601 South 190th St.

NEW ORLEANS, LA. 70126
D. F. Condon Co.
Box 26012
Chef Menteur Station

NEW YORK, N.Y. 10007
Whittaker, Clark & Daniels, Inc.
100 Church St.

PHILADELPHIA, PA. 19140
Charles A. Wagner Co. Inc.
4455 N. 6th St.

PORTLAND, ORE. 97202
Central Solvents & Chemicals Co.
10821 North Lombard St.

ST. PAUL, MINN. 55114
MacArthur Co.
936 Raymond Ave.

SALT LAKE CITY, UTAH 84110
Central Solvents & Chemicals Co.
407 West 17th South St.

SANTA FE SPRINGS, CAL. 90670
Central Solvents & Chemicals Co.
13900 Carmenita Road

SPOKANE, WASH. 99206
Central Solvents & Chemicals Co.
6308 East Sharp Avenue

53-68

MARKET CONDITIONS

General Business.

The big news in business and financial circles, as this is written, is the establishment of a "two-price" system for gold. Although this is a "stop-gap" measure it has had the immediate effect of halting the drain on U.S. gold reserves and, within a few days, the price of gold in the open market has dropped to $38.00 per ounce, only $3.00 above the official price of $35.00 per ounce. Now comes the big pressure to take positive steps to re-establish confidence in the dollar through increased taxation, reduction of Federal Government spending and other generally deflationary policies. How quickly such actions can be taken and their extent remains to be seen, particularly in view of the growing rift between the Legislative and Executive branches of Government and the fact that, in this election year, political considerations will be more of a factor than usual.

Raising of the prime interest rate by the Federal Reserve Board, viewed by some as "too little, too late" is one step in the direction of deflation and will probably have a direct depressing effect on the rate of new construction, particularly in the new home building field.

General business is still somewhat slow but personal income is still on the rise and some predictions are for an increase of about 8% in this significant figure for 1968. We are living in troubled and confusing times and the end of our problems is not yet in sight.

Asbestos—Raw Material.

Quebec asbestos fiber shipments for the Industry during February 1968 totaled 77,496 tons, an increase of 10,097 tons or approximately 15% over the same period last year.

Year to date shipments at 153,029 tons are running 20,793 tons or roughly 16% ahead of the same period in 1967.

SCAPA

will . . .

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

YOUR ENQUIRIES ARE INVITED

SCAPA DRYERS LTD.
BLACKBURN, ENGLAND

Published by AsbestosClaims.Law
asbestosclaims.law/library/12612/14

Asbestos—Manufactured Goods.

Asbestos Textiles: Demand continues strong for most asbestos textile products. Deliveries are extended for some types of fabrics. Resumption of production in the copper industry should reflect increased consumption of asbestos in the insulated wire and cable industry. Prospects, therefore, are encouraging for the second and third quarter.

Asbestos Brake Lining: As noted last month, both original equipment and replacement businesses are very good and promise to improve even further. Increasing use of disc brakes is already creating additional demands for this type friction element in the replacement market.

Asbestos Paper & Millboard: Demand continues at an even pace. Announced increases in price of asbestos fiber as well as other continually rising costs make some increase in selling prices virtually certain. Reports from buyers indicate increases averaging approximately 5% have already been made by some manufacturers.

Asbestos Felt: While demand is strong, buyers are "shopping" and prices are therefore very competitive. As weather conditions improve it is hoped the demand-supply picture will change to the point where prices will become firmer.

Corrugated & Flat: The market for corrugated and thin flat sheets is rather spotty but demand for heavy flat sheets is strong. Like many building products, the demand for these materials is subject to uncertainties due to prospects of a tight money market.

High Pressure Insulation: Demand for these products continues very strong and producing plants have heavy backlogs. Proposed expansions of electric power plants bode well for this business during 1968. In view of the current volume of business and the pressure of increased costs in all phases of manufacturing an upward movement in prices may well be expected.

ASBESTOS SHORTS

HIGH-BULKING, EASILY DISPERSED FOR ROOF COATINGS

Because our ASBESTOS SHORTS are "clean", they disperse rapidly in asphalt and other materials . . . save you production time.

GRIT- AND WHISKER-FREE FOR SPRAYED UNDERCOATINGS

Careful quality control ensures that our ASBESTOS SHORTS are free of grit and other minute particles that clog spray equipment.

If you reinforce polyester molding compounds, try our 7T SHORTS. They disperse well and have low resin demand. For more information or for test samples of our fibres, write to: Lake Asbestos of Quebec, Ltd., Black Lake, Quebec, Canada.

SALES AGENTS

ARGENTINA, Buenos Aires
"Insud" Cia. Sudamericana de industria y Comercio S.A.

BRAZIL, Rio de Janeiro
Sao Paulo "Brasimet" Comercio e Industria S.A.

CALIFORNIA, Los Angeles
E. B. Taylor Company

CALIFORNIA, San Francisco
E. M. Walls Company

CANADA, Montreal
Federated Metals Canada, Ltd.

CANADA, Toronto
Federated Metals Canada, Ltd.

COLOMBIA, Barranquilla
Holanda, Colombia, S.A.

COLORADO, Denver
Van Waters & Rogers, Inc.

FLORIDA, Largo
Gulf Coast Chemical Corporation

ILLINOIS, Chicago
Jensen-Souders and Assoc., Inc.

MASSACHUSETTS, Allston
D. H. Litter & Co., Inc.

MEXICO, Mexico City
Asarco Mexicana, S.A.

MICHIGAN, Detroit
Baker & Collinson

MINNESOTA, Minneapolis
Industrial Chemical & Equipment Co.

MISSOURI, St. Louis
Harry A. Baumstark & Company

NEW YORK, Buffalo
Buffalo Solvents & Chemicals Corp.

NEW YORK, New York
D. H. Litter & Co., Inc.

OHIO, Cleveland
A. C. Mueller Co., Inc.

OREGON, Portland
Van Waters & Rogers, Inc.

PENNSYLVANIA, Conshohocken
Van Horn, Metz & Co., Inc.

UTAH, Salt Lake City
Van Waters & Rogers, Inc.

WASHINGTON, Seattle
Van Waters & Rogers, Inc.

ASARCO

A subsidiary of American Smelting and Refining Company

LAKE ASBESTOS

Asbestos-Cement Shingles, Roofing & Siding: Provided interest rates do not rise to a point where home building will be sharply curtailed, prospects for these products are good, particularly since the costs of competing products have risen to levels where asbestos-cement products have a pronounced price advantage.

Asbestos-Cement Pipes: The first quarter market in the Water Pollution and Water Supply fields has been strong compared to the same period last year. Housing is strong at present but the monetary situation can put a damper on this market at any time. The general outlook for the balance of the year is favorable.

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

BAUER BROS. EXHIBIT—For sharp one-pass classification of dry powdered materials at any desired particle size cut from 200 mesh to 15 microns, The Bauer Bros. Co. (Canada) Ltd., of Brantford, Ontario, Canada, will demonstrate its high capacity *Centri-Sonic Classifier* in Booth No. 2319-2321 at the Mining Show, being held April 30 through May 2, 1968, in Toronto, Canada. The show is part of the combined Materials Handling, Transportation and Mining Show.

For liquids-solids separation, Bauer will demonstrate its wide line of *liquid cyclones.* The unique internal action and efficiency of these units can be viewed through a full-sized transparent model of the standard 110 gallon per minute unit. Other units range from 2 to over 6,000 gallons per minute. Applications include water clarification; clay pigment cleaning; removing grit such as rock and magnetite from asbestos slurries; protection of boilers, heat exchangers, glands and seals by removing sand, scale and similar suspended foreign matter; recovery of usable fines; and cleaning of used coolants and grinding fluids, etc.

Bauer also offers the mining and minerals processing industries single revolving disc mills, grinding plates, the Hurricane Pulverizer-Classifier with its impurity extraction feature and similar processing equipment.

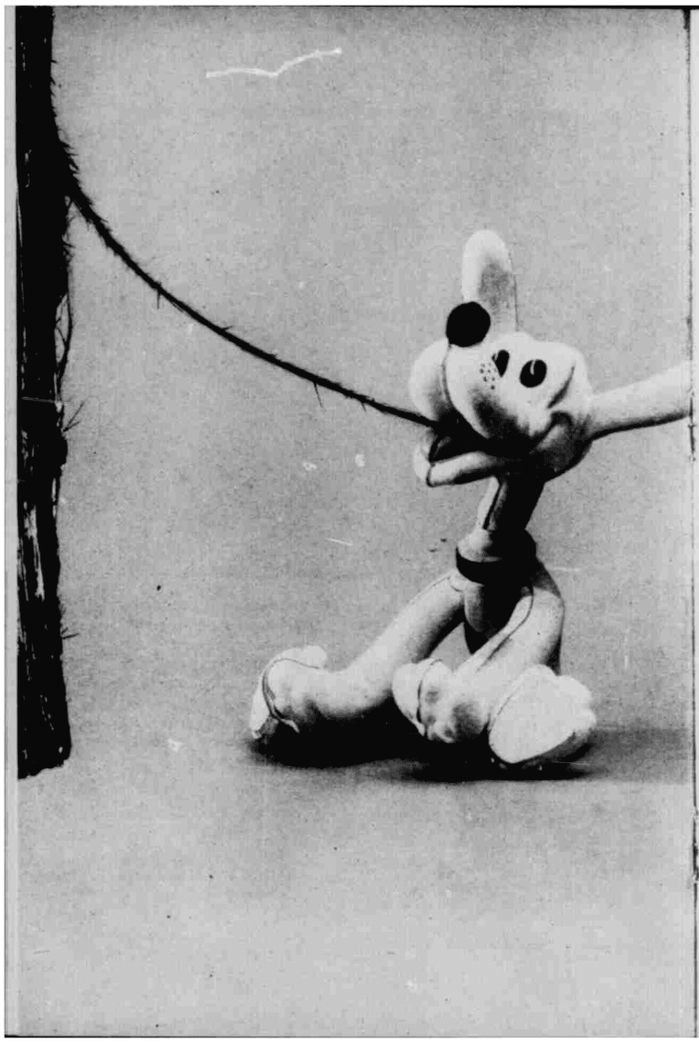


Here's a classifier which removes grit and unopened serpentine from asbestos fibre without extreme fiberizing . . . even separates completely fibre-bound magnetite. Unopened bundles of fibre can also be removed without loss of the opened fibre. Sharp "one-pass" classification at any desired particle size "cut" from 200 mesh to 15 micron. Applications also include removal of foreign material with little or no loss of product. 4 sizes available with capacities from 500 to 20,000 lbs./hr. Ask for Bulletin G-8. **The Bauer Bros. Co. and Bauer International,** Springfield, Ohio 45501, U.S.A./Brantford, Ontario, Canada.

Ask about Bauer total function systems designed for your needs.

BAUER

Published by AsbestosClaims.Law
asbestosclaims.law/library/12612/16



for
fibre length
-amosite

Amosite is naturally longer than other types of asbestos fibre. Length plus resilience makes Amosite the ideal fibre for high temperature and acoustic insulations and for lightweight fire resistant products.
Full technical advisory service available to reinforced cement and insulation material manufacturers from the world's leading producers of amphibole fibres.

CAFCO

Cape Asbestos Fibres Limited
114 Park Street London W1 · England · Telex 23759
North American Asbestos Corporation
200 South Michigan Ave · Chicago · Illinois 60604 · USA
Telephone: (312) 922-7435
(Members of the Cape Asbestos Group of Companies)

Automobile Sales

JANUARY 1968 motor vehicle factory sales from plants in the United States totaled 937,461 (passenger cars—787,015; trucks and buses—150,446). The total for January 1967 was 797,296.

Motor vehicle factory sales from plants in *Canada* totaled 93,238 for January 1968 compared to 75,791 in January 1967.

U.S. IMPORTS of motor vehicles for the 4TH QUARTER 1967 were: new passenger cars—309,225, valued at $531,649,839; used passenger cars—2,213, valued at $2,526,000; trucks and buses—63,860, valued at $66,203,764; and automotive parts valued at $173,647,313. The totals for the YEAR 1967 were: new passenger cars—1,020,620, valued at $1,694,962,634; used passenger cars—4,992, valued at $5,908,807; trucks and buses—170,237, valued at $229,447,089; and automotive parts valued at $634,471,074.

Exporters of

RAW ASBESTOS

ALL GRADES—ALL TYPES

C. J. PETROW & COMPANY (PTY. LTD

P. O. BOX 11000

RAND CENTRAL — 165 JEPPE STREET

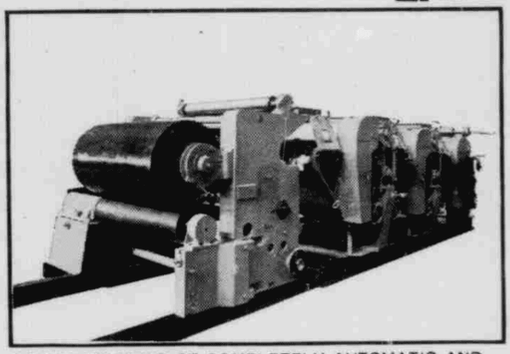
JOHANNESBURG - SOUTH AFRICA

OFFICES ALSO IN: TOKYO (JAPAN); GENEVA (SWITZERLAND)

ASP/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

Published by AsbestosClaims.Law
asbestosclaims.law/library/12612/18

Building

McGraw-Hill Information Systems Company [new name of the former F. W. Dodge Company, a division of McGraw-Hill, Inc., effective April 1, 1968.]

FEBRUARY 1968 contracts for future construction totaled $3,704,425,000, 10% above the depressed year-ago level but after adjustment for seasonal variation this figure showed further weakening from the peak rate set last October. Tightening credit and cutbacks in public spending are the two main problems facing the construction industry in 1968. The past month's weakness was concentrated among Federally-aided construction such as highways, sewer and water projects, river and harbor development, schools and public administration buildings. By contrast, privately-initiated projects showed a gain for the month.

Residential building contracts totaled $1,495,180,000, 31% ahead of last February. In January most of the strength was confined to apartment projects but an increase in single-family building occurred in February.

Nonresidential building contracts were valued at $1,251,459,000, a 12% decline from the year-ago amount. Commercial building showed gains in both stores and offices but contracts for manufacturing plant construction were down sharply.

Nonbuilding Projects—A $188-million electric utility project in the West dominated February's nonbuilding construction reports, boosting the total for the utilities category 86% over the comparable year-ago figure. This also helped to put the month's total for all nonbuilding construction contracts up 18% to $957,786,000.

Cable Address "Fraruggles" Telephone (201) 379-2186
ASBESTOS FIBRES
ASBESTOS WASTE
Frank G. Ruggles Co., Inc.
POST OFFICE BOX 301 SHORT HILLS, N.J. 07078

asbestos

The direction to take for top grade Chrysotile Asbestos Fibres leads you to Flintkote. Here you get assurance of sound experience in this specialized field, highly selective quality control from superior resources, and a combination of dependable service and delivery. Need we say more? We'd be delighted to discuss your needs.

IN U.S.—The Flintkote Co., 480 Central Ave., East Rutherford, New Jersey 07073 □ IN CANADA—The Flintkote Co. of Canada Ltd., 30th St., Long Branch, Toronto, Ontario; Flintkote Mines Ltd., Thetford Mines, P.Q., Canada □ IN ENGLAND—The Flintkote Co., Ltd., Adam House, 1 Fitzroy Square, London W-1, England.

Leading Mills all
over the World use

GESCHMAY FELTS

If you want to **IMPROVE PRODUCTION**

AND LOWER FELT COST

Try an all Synthetic Geschmay Felt
Conventional or needled

Wuerttembergische Filztuchfabrik
D. Geschmay GmbH
7320 Goeppingen, P.O. Box 460
West Germany

AMMANN Asbestos Mill



The *ONLY DISINTEGRATOR* treating the asbestos fibres without breaking 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.

Engineers **CH 4900 Langenthal** **Switzerland**
Cables: Ammannag Langenthal — Telex: Nr. 68446

PRODUCTION

Canada—DECEMBER 1967 asbestos production amounted to 146,983 tons (Quebec—131,006; Newfoundland, Ontario and British Columbia—15,977). This compares with the December 1966 total of 120,099. (Dominion Bureau of Statistics, Ottawa)

Canada—YEAR 1967 asbestos production amounted to 1,443,011 tons (Quebec—1,288,666; Newfoundland, Ontario and British Columbia—154,345). This compares with the Year 1966 total of 1,479,281. (Dominion Bureau of Statistics, Ottawa)

South Africa—THIRD QUARTER 1967 production of asbestos totalled 66,312 short tons: Amosite—24,875, Cape Blue—29,760, Chrysotile—9,683 and Transvaal Blue—1,994. (Department of Mines, Johannesburg)

Asbestos Mines 1965 is now available as Publication No. 3-1M and is the second of a series of annual reports prepared by the Quebec Bureau of Statistics. This report includes statistical data of establishments primarily engaged in mining and milling asbestos fiber and classified under the sub-group 0710 by the "Standard Industrial Classification". The Quebec Bureau of Statistics has worked out an arrangement with the Dominion Bureau of Statistics, Ottawa, Canada, whereby the two Bureaus are using the same questionnaire.

JAMES unified steel limited

HALL MACHINERY DIVISION

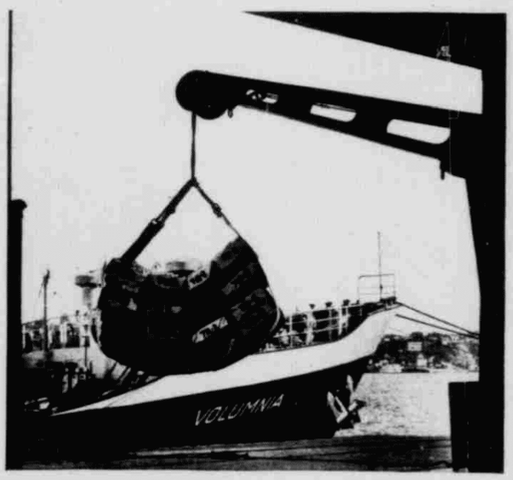
124 Des Grandes Fourches South

SHERBROOKE, QUEBEC, CANADA

Designers and Manufacturers

of

Screens, Aspirators, Fiberizers, Willows, Dusters, Graders, Mixers, Pressure Packers, Samplers, Weigh Hoppers, Bag Tilters.



GOLD BOND ASBESTOS FIBRES

Destination: Anywhere! Through our vast network of overseas representatives, a complete selection of Gold Bond® milled Asbestos Fibres can be shipped anywhere in the world, promptly and efficiently. For your nearest representative, write National Asbestos Mines Ltd., Thetford Mines, P. Q., Canada. (Subsidiary of National Gypsum Company.)

Gold Bond
ASBESTOS FIBRES

Published by AsbestosClaims.Law
asbestosclaims.law/library/12612/21

IMPORTS & EXPORTS

Imports Into U.S.A.

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

Short Tons

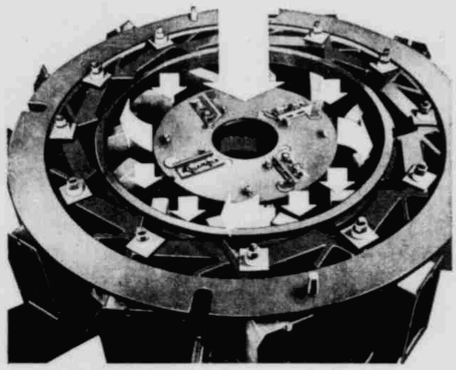
YEAR 1967

Unmanufactured Asbestos:

Amosite, Crude, Mozambique	215
Rhodesia	50
South Africa	12,508
Crocidolite (Blue), Crude, South Africa	14,917
Chrysotile, Crude, Canada	6,966
Finland	662
France	15
Italy	1
Mozambique	35
Rhodesia	420
South Africa	1,843
Chrysotile, Spinning Fibers, Canada	15,063
Rhodesia	75
South Africa	17
Yugoslavia	827
Chrysotile, Other, Canada	549,978
Italy	4
Portugal	15
Rhodesia	4,630
South Africa	726
Yugoslavia	2,656
Asbestos, Other, Bolivia	3
Canada	29,975
Finland	2,585
Italy	2
Portugal	54
Rhodesia	326
South Africa	476
United Kingdom	78
Year 1967 valued at—$65,743,663	645,112

Manufactured Asbestos Goods:

Asbestos Yarn, Slivers, etc.	Lb	1,723,328	$1,006,862
A-C Pipes, Tubes & Fittings	Lb	42,395,157	1,915,576
Asbestos-Cement Articles, Other	Lb	15,534,818	2,136,070
Asbestos Articles, Other			1,439,488
			$6,497,996



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

Exports From Canada

(Published by Dominion Bureau of Statistics)

OCTOBER 1967

Unmanufactured Asbestos:

Short Tons

	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
United States		1,299	21,875	36,781
United Kingdom		75	4,460	4,055
South America		58	2,901	477
Central America & Mexico		70	2,037	271
Europe		618	19,719	15,148
Japan	8	186	1,552	4,246
Other Countries			5,983	4,830
	8	2,306	58,527	65,808

Total Unmanufactured Asbestos—126,649 Valued at—$16,135,000

Manufactured Asbestos Goods:

Asbestos Brake Linings & Facings	$ 29,000
Asbestos-Cement Building Materials	174,000
Asbestos Basic Products, Other	44,000
	$247,000

Unmanufactured Asbestos:

NOVEMBER 1967

	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
United States	4	1,368	18,955	34,681
United Kingdom		1,064	4,758	5,039
South America		67	6,590	2,821
Central America & Mexico		10	1,562	241
Europe		312	11,041	9,443
Japan	4	79	2,031	5,161
Other Countries		20	12,464	3,086
	8	2,920	57,401	60,472

Total Unmanufactured Asbestos—120,801 Valued at—$15,951,000

Manufactured Asbestos Goods:

Asbestos Brake Linings & Facings	$ 66,000
Asbestos-Cement Building Materials	117,000
Asbestos Basic Products, Other	63,000
	$246,000

TEXTILE ASBESTOS WASTE

OFFERS STATING TONNAGE

AVAILABLE AND QUOTATIONS ARE REQUESTED.

Please write to Box No. TAW-48, c/o ASBESTOS, 807 Western Saving Fund Building, Philadelphia, Pennsylvania 19107

ARIZONA ASBESTOS

Mined and Milled by

JAQUAYS ASBESTOS CORPORATION

12[illegible] S. 19th Avenue

PHOENIX, ARIZONA



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

MINES AND MILL IN GILA COUNTY

Published by AsbestosClaims.Law

asbestosclaims.law/library/12612/23

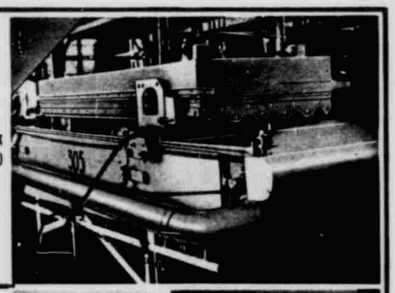
DO YOU WANT TO MANUFACTURE ASBESTOS CEMENT SHEETS BOTH FLAT AND CORRUGATED, COLOURED AND NOT COLOURED, **BY USING ONLY SHORT FIBERS** WITHOUT EMPLOYING CORRUGATING MACHINE, MOULDS, FELTS, DECANTER CONES, AND KEEPING AT THE SAME TIME THE SHEET QUALITIES FULLY UP TO THE STANDARD REQUIREMENTS?

This is possible now with SSV Vulcanit machinery manufactured by RCM Co. of Torino (Italy) under ISPRA licence. Both ISPRA and RCM Companies are at your full disposal for supplying you with the description of said machinery and of the relative technological process.

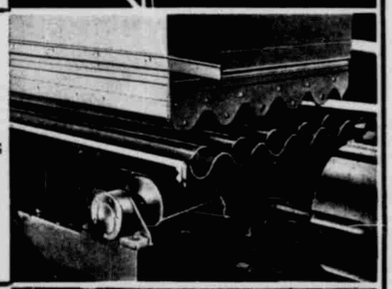
You will have only to write:

R.C.M. - P.O BOX 468 - TORINO (Italia)

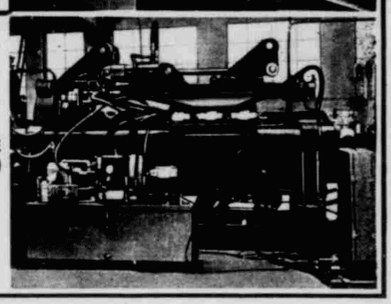
FEEDING TANK (VACUUM STRATIFICATION)



SHEET MOULDING



CANNONE (80 Atm. PRESSING)



Published by AsbestosClaims.Law
asbestosclaims.law/library/12612/24

INDUSTRY NEWS

HAPPY BIRTHDAY

Alfred G. Sinclair, President & General Manager, Canadian Johns-Manville Company Limited, Port Credit, Canada, April 15.
Hugh Wittman, Production Manager, Smith & Kanzler Company, Linden, New Jersey, April 15.
Philip A. Meyer, Vice President, Asbestos Fibre Division, Nicolet Industries, Inc., Florham Park, New Jersey, April 16.
M. T. Voiles, Manager, Supradur Manufacturing Corporation, Wind Gap, Pennsylvania, April 21.
E. A. Boadway, Vice Chairman of the Board, Carey-Canadian Mines Limited, East Broughton Station, Canada, April 23.
J. Stokes Clement, General Manager, Fiber Products Division, General Aniline & Film Corporation, New York City, April 23.
Joseph G. Hall, General Manager of Building Products, Building & Industrial Products Division, General Aniline & Film Corporation, New York City, April 24.
Edward R. Stevens, President, Baldwin-Hartet-Hill, Inc., Trenton, New Jersey, April 25.
G. A. Whitehead, Estimator, Asbestos Products, Inc., St. Paul, Minnesota, April 25.
D. L. Tchida, Estimator, Asbestos Products, Inc., St. Paul, Minnesota, April 26.
W. Lindsay Wylie, Vice President & General Manager, Fibre and Textile Division, Uniroyal, Inc., New York City, April 26.
J. Carroll Johnston, President, Atlas Asbestos Company, North Wales, Pennsylvania, April 28.
Robert D. Bradford, President, American Smelting & Refining Company, New York City, April 29.
J. A. Johnson, General Manager, Smith & Kanzler Company, Linden, New Jersey, April 29.
Melvin W. Simon, Executive Vice President, Sprinkmann Sons Corporation, Milwaukee, Wisconsin, April 30.
Richard H. Jaffer, President, York Insulation Company, Inc., Hillside, New Jersey, May 1.
George O. Hart, Jr., Vice-President, Kelley Asbestos Products Company, Kansas City, Missouri, May 2.
Guy George Gabrielson, Jr., President, Nicolet Industries, Inc., Florham Park, New Jersey, May 4.
E. C. Hildebrandt, Secretary, MacArthur Company, St. Paul, Minnesota, May 4.
W. S. Cowell, President, Albion Asbestos Packings Limited, Montreal, Canada, May 5.
J. William Duncan, Vice President—Industry Relations, National Gypsum Company, Buffalo, New York, May 8.

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
DRYCOR FELT COMPANY
STAFFORDVILLE, CONNECTICUT, U.S.A.

John P. Hayes, Vice President—Merchandising Operations, Gold Bond Building Products Division, National Gypsum Company, Buffalo, New York, May 9.
F. Parker Smith, President, Bell Asbestos Mines Ltd., Thetford Mines, Canada, May 10.
C. R. Elliott, Vice President & Secretary-Treasurer, Cassiar Asbestos Corporation Limited, Toronto, Canada, May 11.
R. B. Todd, Director, Atlas Asbestos Company, Montreal, Canada, May 11.
Frank C. Waters, Marketing Director, Wunderlich Limited, Sydney, N.S.W., Australia, May 12.

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

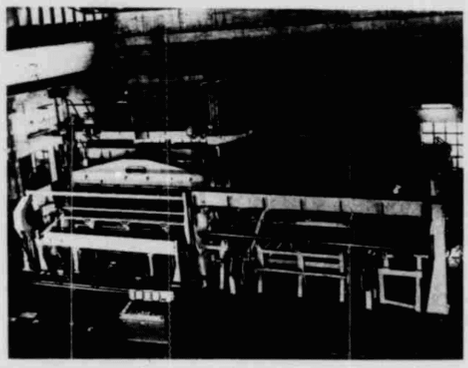
Hume Industries (Far East) Limited has completed a new asbestos-cement sheet factory in Singapore. This new factory is an extension of the present asbestos pipe and sheeting manufacturing plant and will increase the production of asbestos products by more than 75%. The factory is equipped with specialized asbestos sheet-making equipment from Italy and India and locally assembled machinery.

McAdam Mining Corporation Limited is conducting tests at the Quebec Pilot Plant, Department of Natural Resources, Quebec City, on bulk samples taken from its asbestos property in the Chibougamau area of Northwestern Quebec, Canada. Preliminary results are quite significant and indicate a considerable increase in tonnage, and quality of fiber from early diamond drill results. The Company expects the tests to be witnessed by at least eight interested groups. Final cleaning and evaluation figures of the fiber products from the first of three bulk samples should be available in the near future.

Sturdy Mines Limited, Toronto, Canada, began drilling on its new asbestos discovery in the Belleterre district of Quebec, Canada. The property consists of 17 claims (about 1,700 acres) located in Duhamel Township, about 4 miles southeast of the town of Ville Marie. The discovery was made late last year and samples of surface rock were shipped to Bell Asbestos Mines Ltd. for bulk test purposes. With the exception of the immediate area of the discovery, the peridotite mass is drift covered. It is believed that a strong magnetic anomaly coincident with the showing will provide a guide for exploration and diamond drilling.

STANDCO ASBESTOS TEXTILE CO., INC.
ESTABLISHED 1912
Manufacturer of Cloth, Tape, Yarn and Brake Lining
2701-2801 Clinton Dr. Box 87, Houston, Texas 77001

50 YEARS
OF EXPERIENCE
in the field of machinery
for asbestos-cement products



RIVA - CALZONI S.p.A.
Company's Capital: 3.000.000.000 Lire

Products of the
stabilimento CALZONI

Via Emilia Ponente, 72
BOLOGNA, Italy
Telex: 51156 CALZONI
Telephone: 384631 .

CALZONI

NOTES FROM 1967 ANNUAL REPORTS

AMERICAN SMELTING AND REFINING COMPANY

Net earnings during 1967 of American Smelting and Refining Company and consolidated subsidiaries were $63,783,260 compared with $70,214,309 in 1966. The overriding factor in the decline was a strike at the company's U.S. plants and mines. Capital expenditures were $46,742,000, net property value amounted to $186,754,119 and the amount of sales of products and services reached $511,209,443.

Sales of asbestos fiber by Asarco's wholly-owned subsidiary, Lake Asbestos of Quebec, Ltd., increased by 8.4% during 1967. Production and shipments in 1967 were 121,479 and 124,446 short tons, respectively, in 1967 compared to 117,365 and 115,021 in 1966. Continued technological advances in milling, fiber research and quality control have resulted in producing more sophisticated grades of fiber to meet the requirements of specific consuming industries. Ore reserves at the mine were increased and the long-range contract stripping program, begun in 1965, is now about 50% completed. Lake Asbestos fiber was shipped to consumers in more than 40 countries.

The Cement Asbestos Products Company, Alabama, in which Asarco has a 40% interest, is now a well established supplier of asbestos-cement pipe in the southeastern market area.

THE FLINTKOTE COMPANY

Net sales for the fiscal year ended December 31, 1967, were $296,426,989 compared with the 1966 all-time high of $303,849,511. Income before extraordinary items was $9,334,726 which compares with the 1966 net income of $12,354,491. Capital expenditures during 1967, at $16,361,842, continued to be concentrated on plant improvements and modernization to reduce manufacturing costs and improve service to customers. Working capital increased to $71,563,596 from $71,340,847 in 1966. Inventories were $21,527,113 for finished goods and work in process and $17,480,067 for raw materials and operating supplies. Property, plant and equipment were valued at $169,200,202.

Major organizational changes were made in the Building Products Group. The 4 divisions previously comprising this Group have been realigned according to product lines nationally forming 6 divisions — Gypsum Products, Flooring Products, Building Materials, Industrial and Automotive Products, Pioneer and Sealzit.

The Pipe Products Group manufactures and markets complete lines of FLINTITE® asbestos-cement pipe for private and public water distribution and sewer main construction projects, ORANGEBURG® bituminized fiber pipe, ORANGEBURG® fiber conduit and ORANGEBURG SP® ultra high density polyethylene pipe and tubing.

The Canadian Group is made up of The Flintkote Company of Canada Limited, Flintkote Mines Limited, King Paving and

HUXLEY DEVELOPMENT CORPORATION

Suppliers of Raw Asbestos

OVER TWENTY YEARS OF SERVICE
to the
ASBESTOS INDUSTRY

TEL: 212 LT 1-0660
CABLES: WESTOFF
TELEX: 420195

TIME & LIFE BUILDING
ROCKEFELLER CENTER
NEW YORK, N. Y. 10020

Published by AsbestosClaims.Law
asbestosclaims.law/library/12612/27

Materials Limited and Stradwick Industries Ltd. Its products include asbestos fibers, flooring, adhesives, protective coatings, road emulsions, ready-mixed concrete, stone, sand and gravel.

The product line of the Overseas Group includes automotive products, protective coatings, adhesives, industrial and decorative paints, roofing, flooring and insulation systems. These products are marketed in over 100 countries throughout the world. Flintkote's overseas divisions are operated through its subsidiary, The Flintkote Company Limited, London, England.

RAYBESTOS-MANHATTAN, INC.

Net sales of Raybestos-Manhattan, Inc. for 1967 were $117,812,527 compared with $119,508,012 in 1966. 1967 net income was $3,706,585 compared with a restated net income for 1966 of $6,070,000. Expenditures in 1967 for additional facilities amounted to $3,372,252 and included additional buildings and machinery and equipment at the manufacturing Operating Divisions. Inventories for 1967 were valued at $22,353,083 and comprised $5,547,915 for raw materials, $6,350,518 for work in process, $10,303,116 for finished goods and $151,534 for supplies.

R/M combines asbestos, rubber, sintered metal and specialized plastics (often with other man-made and natural materials) and manufactures a wide range of diversified products for industrial, commercial and military applications.

GENERAL ANILINE & FILM CORPORATION

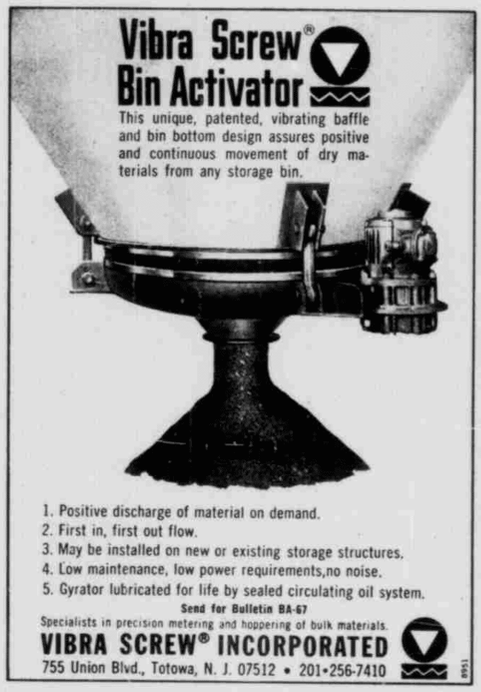
On a restated basis which gives effect to the merger of The Ruberoid Co. into General Aniline & Film Corporation, net sales of GAF and its consolidated subsidiaries in 1967 were $520,872,000, which is 7.6% over 1966 sales of $484,062,000. Net income was $18,961,000, against $18,725,000 in 1966.

The largest single acquisition undertaken by GAF was the merger with Ruberoid in May, 1967. It added $195-million to the company's sales and made GAF an important factor in the manufacture of asbestos-cement products, resilient floor coverings, asphalt roofing and roofing granules. At the end of 1967, two new GAF operating divisions were created from the former Ruberoid Co. division—the Floor Products Division and the Building & Industrial Products Division.

While product lines are divided among four major sales groups and a miscellaneous group, control of GAF's operations is exercised through 21 major domestic and foreign divisions and subsidiaries which are responsible for all marketing and manufacturing activities. These operating units encompass 53 manufacturing plants and research locations in the United States, Belgium, Canada, Great Britain and Holland.

NATIONAL GYPSUM COMPANY

Consolidated net sales in 1967 were $253,989,338 and net income was $16,491,909. By comparison, 1966 net sales were



Published by AsbestosClaims.Law
asbestosclaims.law/library/12612/28

$253,017,370 and net income was $16,826,036. Inventories showed $31,282,913 for finished and in process items and $17,819,310 for materials and supplies. Property, plant and equipment, less allowances for depreciation and depletion, amounted to $209,823,383.

The Gold Bond Building Products Division operates 48 facilities and manufactures over 300 products in 9 lines of construction materials including asbestos-cement. Major expansion of the division's manufacturing facilities include added capacity at Thetford Mines to increase the output of asbestos fiber.

UNIROYAL, INC.

For 1967, sales of Uniroyal, Inc. were $1,264,697,000 and net income was $32,978,000, representing declines of 4.5% and 27.2% respectively, compared with 1966. However, if only the first and fourth quarters are compared (periods not affected by prolonged work stoppages in the rubber industry), earnings increased approximately 23%.

Additions and improvements to property, plant and equipment aggregated $69,000,000. Direct expenditures by Uniroyal and subsidiaries amounted to $65,032,000.

Uniroyal manufactures and markets a wide range of automotive, industrial and textile products.



Phenolic Resins

LIQUID - LUMP - POWDER

Cashew Resins

LIQUID - PARTICLE - POLYMERS

POLYREZ COMPANY, INC.

SOUTH COLUMBIA ST. AND RAILROAD
WOODBURY, NEW JERSEY 08096

EVEN FOR EXTRAORDINARY CONDITIONS...

VOITH

developed
a fully automatic
asbestos cement
sheet production line
by which
SPECIAL PROFILES
up to 7,3 m length
can be produced
with highest precision.

Our
projecting department
plans for you
„ready-for-operation"
plants,
our workshops
build for you
machines
of mature design.



J.M.VOITH A.G.
3100 ST. POELTEN, AUSTRIA
POB 168 – TELEX 015 510 – CABLE VOITHWERKE
SM 924

ASBESTOS STOCK QUOTATIONS

Close—March 29, 1968

Abex	28¾	GAF (pfd 1.20)	25⅞
Asarco	69½	Glen-Alden	12⅞
Armstrong Cork	62⅜	G-Alden (pfd 2.25)	46¼
Armst Ck (pfd 3.75)	65¾	G-Alden (pfd 3.15)	99
Asbestos Corp.	*$19.50	G-Alden (pfd 3)	89
Bendix	35⅜	Gulf & Western	40⅞
Bendix (B pfd)	62	G&W (pfd 1.75)	129½
Cassiar	*$14.87	G&W (pfd 3.50)	163
Certain-teed	20¼	G&W (pfd 3.87)	72
Certain-teed (pfd .90)	20½	G&W (pfd 5.75)	74⅞
Conwest	*$7.15	Johns-Manville	58½
Fiberboard	43½	National Gypsum	45¼
Flintkote	21½	Patino	*$18.37
F-kote (pfd-A 4.50)	79¼	Raybestos	57⅝
F-kote (pfd-B 2.25)	35	Unarco	11
Garlock	18⅞	Union Carbide	41
Gen Anil & Film	19⅜	Uniroyal	44
		Uniroyal (pfd 8)	127

*Canadian currency—April 1, 1968

When you buy thermal insulation accessory materials, are you buying . . .

- a full line
- quality products
- competitive prices
- factual data sheets
- UL inspected and listed products
- engineering field service
- application know-how
- how-to-do-it literature
- quality control

You are when you buy **foster** coatings sealants adhesives

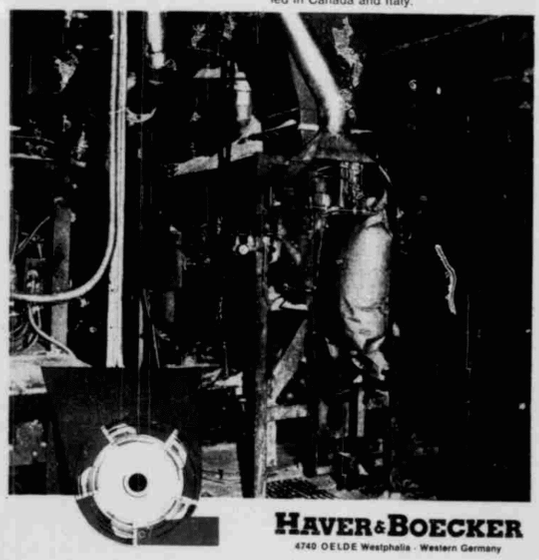
BENJAMIN FOSTER COMPANY
DIV. OF AMCHEM PRODUCTS, INC., AMBLER, PA. 19002

Philadelphia, Pa.; Kearny, N.J.; Atlanta, Ga.
Chicago, Ill.; Houston, Texas; Los Angeles,
Fremont, Calif.; Toronto, Windsor, Ont.
Montreal, P.Q. Canada

Valve Bag Filling of Asbestos Shorts is a difficult Problem

WE HAVE SOLVED IT

Our Asbestos Packers are equipped with a filling turbine running at high speed, which presses the product into the paper valve bag with simultaneous weighing to 50 or 100 lbs. More than 60 Haver Valve Bag Packers for different types of Asbestos Shorts are installed in Canada and Italy.



HAVER & BOECKER
4740 OELDE Westphalia · Western Germany

Published by AsbestosClaims.Law
asbestosclaims.law/library/12612/30

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)		26.50

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**

A MEMBER OF THE BBA GROUP CLECKHEATON · YORKSHIRE · ENGLAND



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 February 13 through March 5, 1968.

3,368,936—Method and Apparatus for Introducing a Flocculating Agent to an Asbestos-Cement Slurry to Control the Thickness of the Sheet Used in Winding to Form a Pipe, G. E. DeLong (assigned to Johns-Manville Corporation, New York City), February 13, 1968.

3,369,066—Method and Apparatus for Manufacture of Asbestos-Cement, S. M. Quint & R. H. Adams (assigned to Johns-Manville Corporation, New York City), February 13, 1968.

3,369,929—Plaster on Metal Application, D. J. Petersen (assigned to National Gypsum Company, Buffalo, New York), February 20, 1968.

going on activity initiated
150 years ago as machine works

F/LLI **BAZZI** G. & L.

33 CORSO INDIPENDENZA · PHONE 4997/8
CASALE MONFERRATO (ALESSANDRIA) · ITALIA

Supplies machinery for manufacturing plain and corrugated asbestos-cement sheets and projects of plants

WITH NEW R/M SPEEDLAG

(adhesive-impregnated asbestos lagging cloth)

You fit..





wet...

wrap...





forget!

No adhesive to buy or apply. No brush needed. No mess to clean up after lagging is installed. And the combination of two adhesives provides excellent initial tack. Adhesives in new R/M Speedlag also serve as fillers to eliminate the need for sizing before painting.

Four nonmetallic R/M Speedlag cloths are now ready for thermal insulation applications: 18PO75, napped and calendered; 10P111 and 10P140, Glassbestos® (glass-yarn-reinforced asbestos cloth); and 10P225, a standard weight asbestos cloth. In addition to these standard lagging cloths, the prepasted finish can be applied to cloths of other grades, weights, and thicknesses. Speedlag is available in widths from 36" to 60". Slit tapes with the Speedlag finish are also available. Write for free samples today.

RM

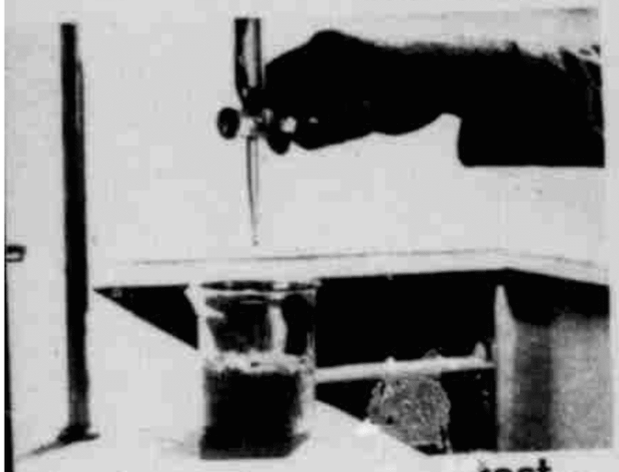
ASBESTOS TEXTILE DIVISION
RAYBESTOS-MANHATTAN, INC.
Manheim, Pa. 17545



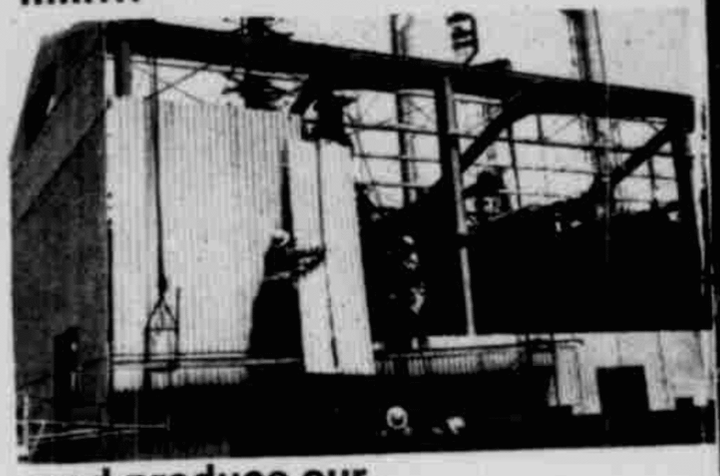
We mine...



mill...



test...



and produce our own asbestos products

That's *quality* control!

GAF has a completely integrated asbestos operation. We control quality from the mine to the finished product. When our asbestos corrugated siding reaches the construction site, it's been through the mill in more ways than one. We've tested it at each stage to assure that it's top notch.

GAF also offers a complete line of chrysotile fibers for use in electrolytic cells, compressed sheets, brake linings, gaskets, plastics, shingle stock, asbestos papers, insulation cements, floor tile and phenolic molding compounds.

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

gaf

ASBESTOS FIBRE

Export distribution for Middle Europe handled by:
Heinrich Osthoff-Petrasch, 2 Hamburg 63, Am Karpfenteich 48, Germany
Export distribution elsewhere handled by:
Columbian Carbon International Inc., 380 Madison Ave., New York, N. Y. 10017