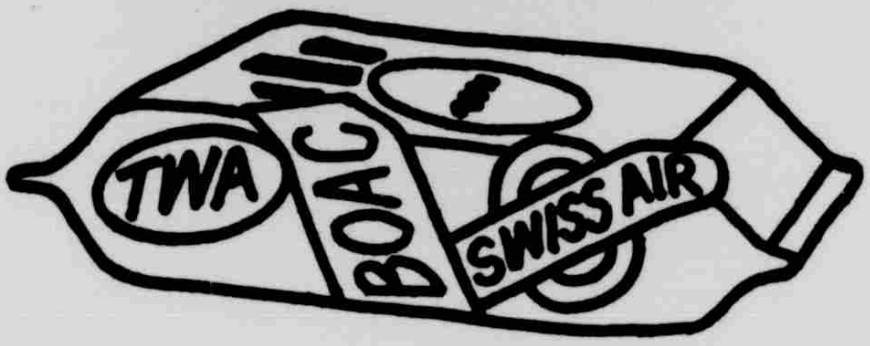



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# ASBESTOS

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# THE HISTORY OF THE ASBESTOS TEXTILE INDUSTRY IN THE UNITED STATES

## Chapter XVIII: Allbestos Corporation

**By: John A. Bettes, Jr.**

As edited by the Staff of ASBESTOS

Oldtimers in the trade will remember the Allbestos Corporation of Germantown, Pennsylvania (a section of Philadelphia), as a minor factor in asbestos textiles and a major weaver of brake lining.

The Founder, President and Treasurer was William G. Kitchen, a member of an old Philadelphia textile family. Bill Kitchen was also President of Joseph Scatchard & Sons (a Philadelphia mill that continues to this day as a spinner of fine quality woolen yarns). He was also Senior Partner of the Philadelphia wool brokerage firm of James G. Kitchen Company. John F. Bolger became Vice President and Sales Manager of Allbestos.

The Allbestos Corporation was chartered in 1921 with a paid-in capital of $250,000. The original plant was at Belfield Avenue and Fisher's Lane, in the Logan section of Philadelphia. Production started in May 1921 with eight sets of cards. The mill wove all sizes of brake lining from the smallest automotive sizes up to 12″ x 1¼″ for oil-well drilling rigs. Allbestos never made a serious effort to develop a line of asbestos textiles; however, the firm did sell asbestos yarn to selected accounts.

The business was an immediate success, due in part to having recruited experienced foremen from other companies in the industry. In October 1925 Allbestos moved to larger quarters at 21st Street and Godfrey Avenue, Germantown.

Herbert E. Sunbury joined Allbestos as General Superintendent in 1931 and in 1934 was promoted to Vice President.

During the 1930's Allbestos developed Glasbestos oil-burner wicking, a unique material that was slit from whole cloth. The fabric consisted of a bare wire warp, usually galvanized steel wire. The filling was composed of a soft spun glass roving plied with the same wire. The fabric was im-



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pregnated with resin, cured and then slit to the desired widths. The rolls were packaged and sold to hardware jobbers under the Glasbestos brand name, a name that subsequently was acquired by Raybestos-Manhattan, Inc.

According to Herb Sunbury, Bill Kitchen was a man of great compassion. No employee was ever refused who asked for financial assistance in a family emergency. This was indeed remarkable generosity when one considers that President Kitchen's administration encompassed the bitter depression years.

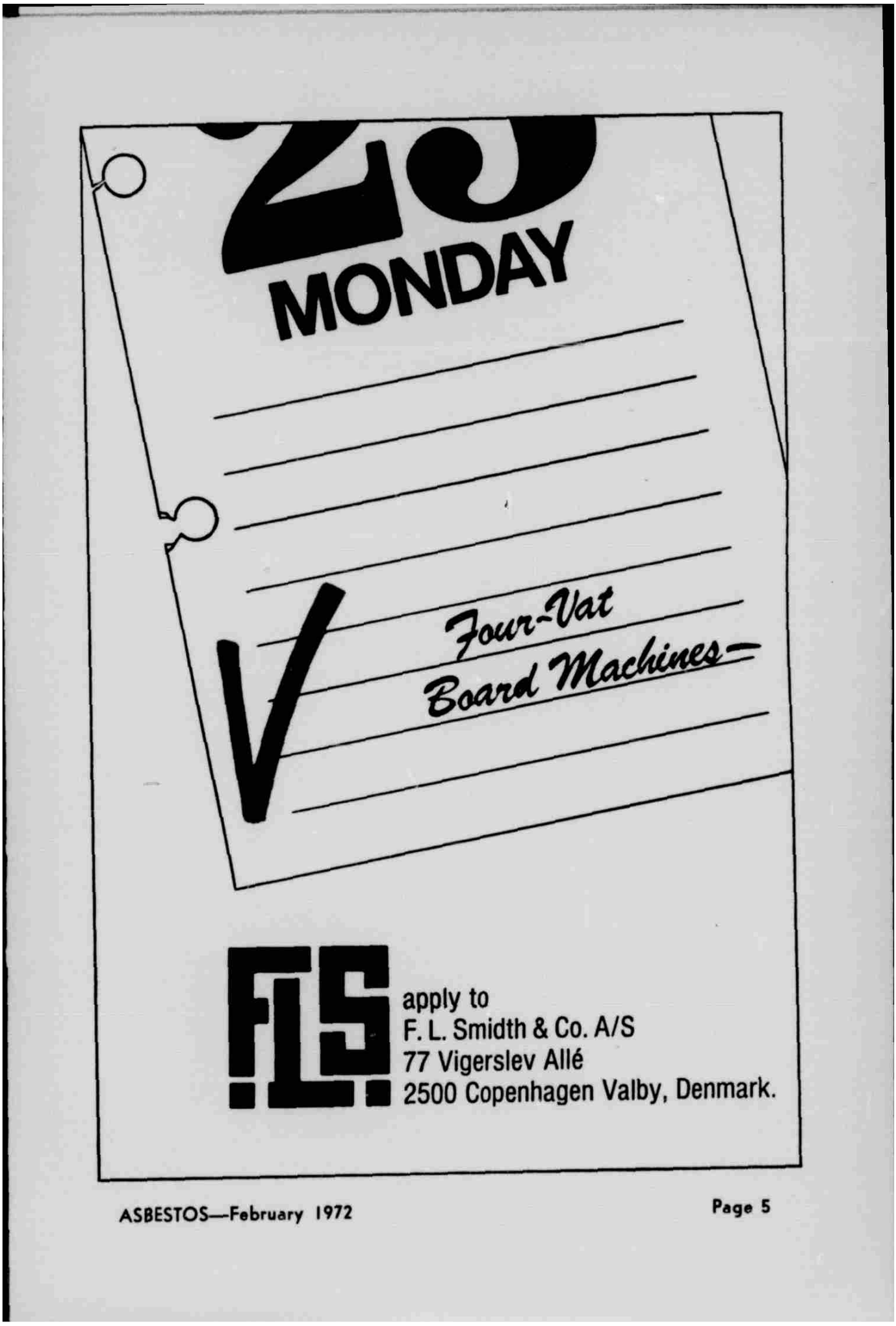
Allbestos can be credited with assisting toward the development of drafted asbestos yarns. Bill Kitchen encouraged Boutwell H. Foster, of U.S. Rubber Company (now Uniroyal, Inc.), to pursue his experiments in drafting fine yarns. He permitted Superintendent Herb Sunbury to furnish Foster with the asbestos roving needed to carry on his experiments in the laboratories of U.S. Rubber at Passaic, New Jersey. The experiments eventually led to the issuance of U.S. patents covering the process and to U.S. Rubber's entry into the asbestos textile business.

Allbestos' best-known product was Allbestos woven brake lining. During the 1930's Herb Sunbury developed King Pin woven brake lining. U.S. Patent #1,960,881 was issued jointly to H. E. Sunbury and Tinius Olsen Machine Company. King Pin lining had heat dissipating pins of highly-compressed graphitic and metallic composition, inserted from face to back. In addition to heat dissipation, the pins polished the surface of the brake drum and contributed to longer useful life of the woven brake lining. This was one of the earliest efforts to deal with the universal problem of heat build-up in automotive brakes.

Allbestos was principally equipped to produce woven brake lining. Perhaps logically, the company resisted the trend toward molded brake lining. This trend began about 1926 with the introduction of four-wheel internal expanding brakes. Subsequently, yielding to steady pressure from customers and its own Sales Department, Allbestos purchased molded brake lining from its competitors and added the product as a supplementary line, but this expedient did not prove effective in maintaining a satisfactory sales volume or an adequate profit.

President Kitchen had been failing in health for a year or two prior to his death January 26, 1939, from a heart ailment. He still hoped and believed that woven brake lining


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would ultimately be restored to common use by automotive engineers. This faith was not shared by the executors of the Kitchen estate who decided to liquidate the business in November 1939.

[ACKNOWLEDGMENT: THE MAJOR PORTION OF THIS CHAPTER WAS TAKEN FROM DATA FURNISHED BY MR. HERBERT E. SUNBURY AND FROM THE FILES OF ASBESTOS MAGAZINE.]

## Chapter XIX: West Coast Asbestos Company (subsequently Emsco Asbestos Co. & its subsidiary, Fiber & Metal Products Co.)

A primary purpose of this series is to identify each and every company that has manufactured asbestos textiles in the United States. Therefore the History would not be complete without including the story of the West Coast Asbestos Company which was established about 1921. The plant was equipped to manufacture asbestos textiles and packings and it is probable the technical know-how was supplied by Chester L. Hill. Mr. Hill had been General Manager of the United States Asbestos Company from 1910 until November 1921. (U.S. Asbestos is now the Manheim, Pennsylvania, division of Raybestos-Manhattan, Inc.)

The name West Coast Asbestos Co. was changed in 1924 to Emsco Asbestos Company. Since the Emsco brand name was a contraction of E. M. Smith, it seems likely that E. M. Smith gained control of the company at about that time. The Emsco brand name was used to identify a line of woven asbestos brake lining and woven asbestos clutch facings. Logically, because of the firm's location, the Emsco sales effort and principal distribution were largely confined to the West Coast.

In 1928 Emsco reportedly "purchased" an asbestos mine near Globe, Arizona. Presumably they actually acquired operating rights as the mine was on the San Carlos Indian Reservation and owned by the Apache tribe. At that time the Arizona asbestos mines were important suppliers of fiber to many of the larger asbestos textile manufacturers. The mine was described as "the only major mine operating in the area —employing 17 people." This description may be interesting to those who are more familiar with the large scale operations of the Canadian asbestos mines and other like facilities around the world. (As a matter of interest, Metate Asbestos Corporation took over the Emsco Mine in 1959 and operated it for approximately three years. Metate then closed it due to high


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costs resulting in an unsatisfactory profit picture.)

In 1938 Emsco's Asbestos Textile Department was enlarged to provide spinning capacity for non-ferrous asbestos yarns, a logical move in view of the firm's operating the Emsco Mine at Globe. The mill also wove non-ferrous asbestos cloth.

In 1941 Fiber & Metal Products Company was established as a subsidiary of Emsco and Donald W. Fether, the stepson of E. M. Smith, was named President. FMP then took over the manufacture of the Emsco line of friction materials. (It is interesting to note that Richard Smith, nephew of E. M. Smith, operated the Grizzley brake lining plant at Paulding, Ohio, for many years. This plant is now the Grizzley-Leland Division of the Maremont Corporation, of Chicago.)

The November 1945 issue of ASBESTOS published the information that Marian (Mrs. E. M.) Smith had purchased all of the capital stock of Emsco and had been elected President. Apparently this move was in preparation for voluntary liquidation as shortly thereafter Mrs. Smith sold Emsco to the Thermoid Rubber Company, of Trenton, New Jersey. Thermoid transferred the equipment to its plants at Trenton and at Charlotte, North Carolina. Thus ended the only company to manufacture asbestos textiles on the West Coast.

About 1948, Don Fether founded Fether & Company at Santa Clara, California, and began the manufacture of a line of Friction materials identified as "Fether-Smooth." In 1950, Don Fether sold the company to U.S. Spring & Bumper Company. It is operated today as the Friction Materials Division of Silver Line Products, Inc., of Los Angeles. It will therefore be noted that Silver Line is not a direct descendent of Emsco although Don Fether successively served as President of the company at Downey, California, and of the plant at Santa Clara.

**[ACKNOWLEDGMENT: DATA FOR THIS CHAPTER WAS SUPPLIED BY PATRICK T. RAUEN, PRESIDENT OF SILVER LINE PRODUCTS, INC., LOS ANGELES, AND BY JACK L. NEAL, PRESIDENT OF METATE ASBESTOS CORPORATION, GLOBE, ARIZONA.]**

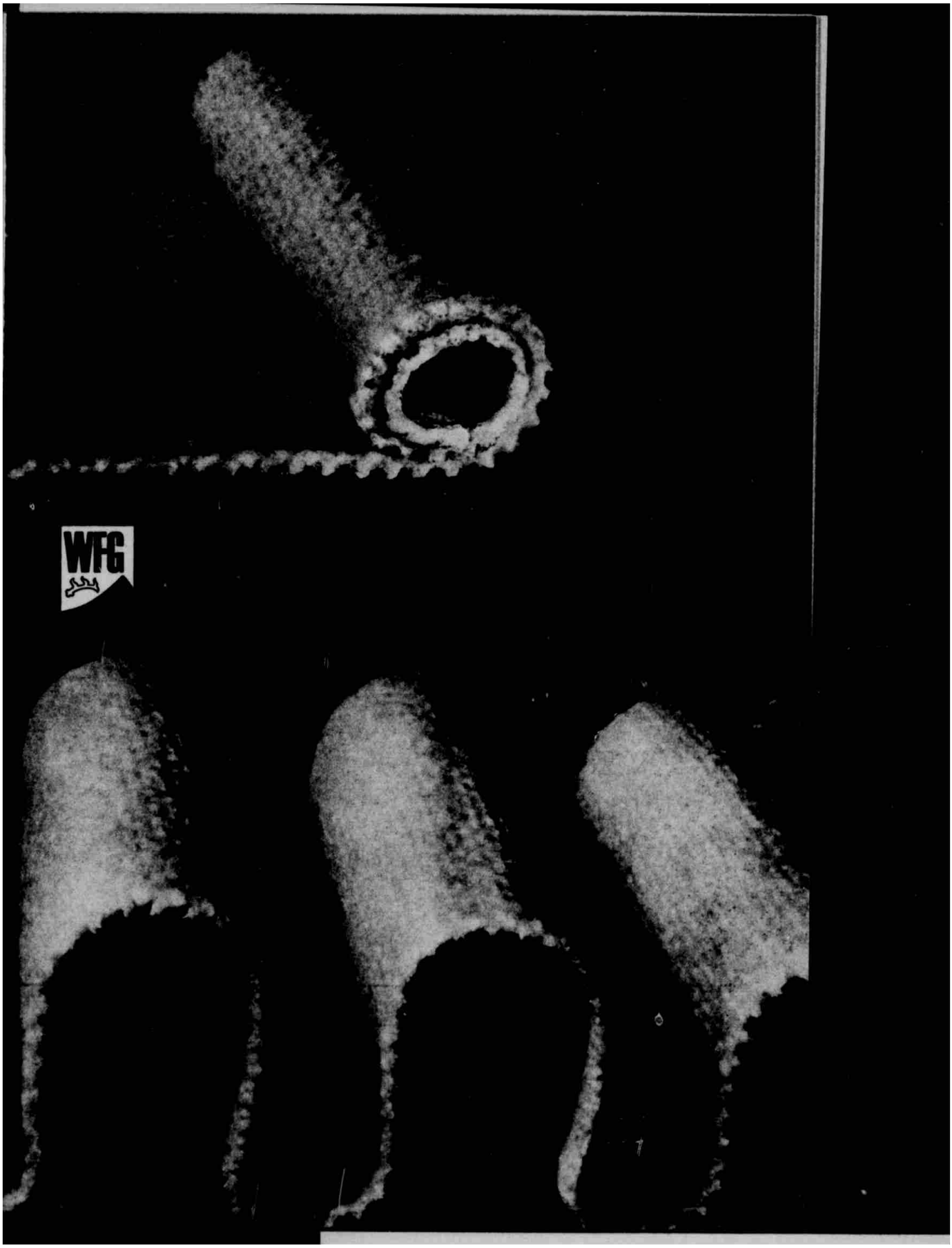
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**Next Issue . . . .**

Chapter XX: Raybestos-Manhattan, Inc.
Chapter XXI: Carolina Asbestos Co.



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WFG

## NATIONAL RESEARCH COUNCIL REPORT

"Asbestos—The Need for and Feasibility of Air Pollution Controls" was prepared by the Committee on Biologic Effects of Atmospheric Pollutants, National Research Council, for the National Air Pollution Control Administration (later to become the Air Pollution Control Office upon formation of the Environmental Protection Agency in December 1970). Among the interesting conclusions and recommendations are: (1) the hypothesis that asbestos fibers act as co-factors or carriers of carcinogens is attractive, but as yet unproved; (2) at present there is no evidence that the small numbers of fibers found in most members of the general population affect health and longevity; (3) analytic methods and epidemiologic data are not yet adequate for the development of an ambient air standard, but emission controls are needed and appear to be feasible. ($2.00 per copy; order from the Printing and Publishing Office, National Academy of Sciences, 2101 Constitution Avenue N.W., Washington, D.C. 20418.)

## ASBESTOSIS RESEARCH PROJECT

According to the 1970 Annual Report on the Asbestosis Research Project (Pneumoconiosis Research Unit, Medical Research Council of South Africa), one of the highlights of the project during the year was the start made to determine the relationship between cumulative dust exposure at asbestos mines and the eventual development of Asbestosis. It is now possible, via the electron microscope, to identify not only the Chrysotile from an Amphibole fiber but also the different types of Amphibole asbestos fibers. The pathology of Asbestosis has been defined as a desquamative alveolitis due to the presence of fibers or bodies in the alveolar spaces. Recent evidence has indicated that although the asbestos needle is fibrogenic, the coating of an asbestos body may well be a protective substance (derived from the lung) which prevents this fibrogenic action. [ARP Report No. 5; National Research Institute of Occupational Diseases, P.O. Box 4788, Johannesburg]



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## SPROUT, WALDRON CONVEYORS

A new comprehensive Bulletin, No. 2001, describes six different types of pneumatic conveying systems. Available from Sprout, Waldron & Co., Inc., Muncy, Pa., the literature describes each type of conveyor and gives preliminary guidance in selection of the proper system for a particular application.

## VIBRA SCREW EQUIPMENT

The following three printed pieces were issued recently by Vibra Screw Inc., Totowa, New Jersey. . . . A new pocket calculator helps process engineers determine the right size Bin Activator for discharging a specific dry bulk material from a given size storage bin. . . . Technical Brochure BA-71 describes the latest improvements in Bin Activators and explains key principles of bulk solids flow. . . . Bulletin SF-3 illustrates Volumetric Live Bin Screw Feeders used for accurate feeding of dry bulk materials into process.



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## J-M ACQUISITIONS

Johns-Manville Corporation acquired a 75% controlling interest in the Schuller Companies of West Germany including Glaswerk Schuller GmbH of Wertheim/Main and Schuller KG of Munich and Wertheim. The Schuller Companies will become J-M's principal European glass fiber facility . . . . Applied Computer Technology Corporation, Los Angeles, California, is now a subsidiary of J-M following its recent acquisition by J-M. ACTC is the originator of the Foresight System, a computer program for financial planning and control.

## EVERITE OPENS DEPOTS

Two new Sales Depots were opened by Everite Ltd., Johannesburg, Republic of South Africa—one at the Vorster Building in Fuestenburg to provide improved service in the Northwestern area of the Transvaal; and the other at 18 Koedoe Street in Tzaneen thus extending the sales network deeper into the Northern Transvaal. Also, a new Branch Office and Stock Depot were established at the Ashburnham Industrial Sites in Kimberley to promote the sale of building materials, pressure pipes and sprinkler irrigation equipment.

## CARBORUNDUM EXPANDING

The Carborundum Company, Niagara Falls, New York, is expanding its Far East operations with the formation of two new companies—Carborundum Tzu Jan Industrial Company Ltd., Taipei, Taiwan; and Carborundum (Far East) Ltd., Tokyo, Japan. A joint venture with Tzu Jan Chemical Works, the new Taipei firm will produce bonded abrasive grinding wheels. The new Tokyo subsidiary will explore further Pacific expansion opportunities for the firm.

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## THE COVER

Asbestos Corporation Ltd., Thetford Mines, Quebec, Canada, kindly supplied the photograph used for the front cover of this issue. It depicts a series of nylon filter tubes installed in a typical dust collection system in one of Asbestos Corporation's asbestos plants. The processed air is returned to the mill after filtration.



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# MARKET CONDITIONS

## GENERAL BUSINESS

Final government figures for 1971 showed prices increased a total of 3.4%, the smallest increase since the 3% figure reported for 1967. While prices increased a hefty 4% in the first month after the end of the freeze, this did not seem to disturb the Administration's economists who had expected a rather substantial upward move at that point.

Although many businessmen and, particularly, labor leaders are complaining about continued sluggishness in the economy and the high rate of unemployment, statistics indicate a substantial growth of about 6% in real Gross National Product during the last quarter and the consensus of economists' opinions is that this growth rate will be exceeded in coming months which could make 1972 a very good year indeed in terms of G.N.P. Unemployment presents a somewhat different picture and even the most optimistic projections are for a rate in excess of 5% extending through this year. While this represents a political "minus" for the Nixon Administration, it is generally agreed that a too-rapid decrease in unemployment would lead to an increase in inflationary pressures at an inopportune time and this could impair the success of Phase II plans.

It now appears that, regardless of political considerations, the Administration will adhere to its game plan in the hope that the electorate will recognize the benefits will far outweigh the hardships involved, over the longer term. This is not to say that, from now until November, if the economy fails to live up to current expectations, steps will not be taken to induce a brisk upward trend—such moves are not unknown in an election year. However, it appears that policies adopted some time ago are now really beginning to work and, if present trends continue, there may be no need for any drastic changes in course for some time to come.

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## CONSTRUCTION NEWS

DECEMBER 1971 contracts for new construction were valued at $6,286,399,000, 19% ahead of December 1970. Drawing most of its support from the 1971 housing boom, the seasonally-adjusted Dodge Index climbed to the strong rate of 160. . . . A surge of apartment construction put the December total of all *residential* contract value at $2,996,982,000, 45% ahead of the year-ago amount. . . . With the biggest gains recorded in industrial, commercial and educational building, *nonresidential* contracts totaled $1,958,501,000, 15% above December 1970. . . . Due mostly to a lack of contracts for large electric generating plants, *nonbuilding* construction slipped to $1,330,916,000, 13% below the year-ago amount. Highway construction was up and sewer and water jobs held even.

YEAR 1971—The strong December finish lifted the value of construction contracts for 1971 to a record total of $79,643,615,000, exceeding 1970's $68.3 billion in contract valuation by the unusually large gain of 17%. *Residential* contract value soared to $34,848,873,000, 40% above 1970. Apartment units accounted for 44% of all new dwellings, with one- and two-family homes making up the remaining 56%. The *nonresidential* building category posted a 5% gain, totaling $25,667,671,000. Industrial facilities contracting showed a decline. *Nonbuilding* construction value totaled $19,127,071,000, 1% over 1970. The total includes a 15% gain in utility construction and a 2% decrease in highway work. [F. W. Dodge Division, McGraw-Hill Information Systems Company]

## MOTOR VEHICLE FACTORY SALES

NOVEMBER 1971 motor vehicle factory sales from plants in the *United States* totaled 963,309 (passenger cars—773,491; trucks and buses—189,818). The cumulative total for the First Eleven Months of 1971 was 9,851,688 compared with 7,502,878 for the same period in 1970.

Motor vehicle factory sales from plants in *Canada* totaled 126,884 in November 1971. The cumulative total from January-November 1971 was 1,255,950 against 1,096,155 for the like period in 1970. [Automobile Manufacturers Association]

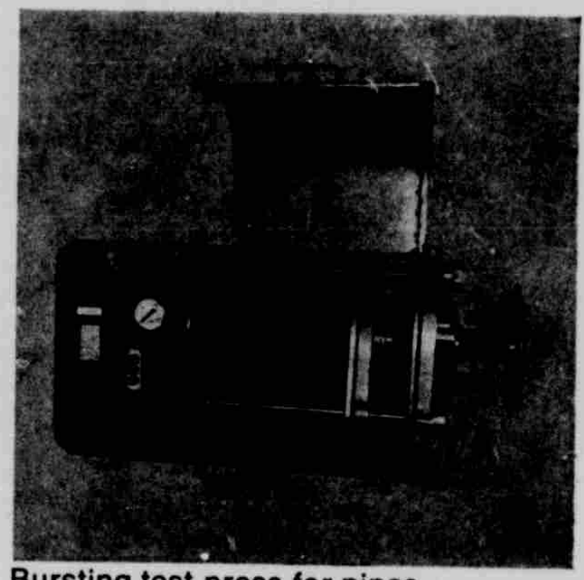


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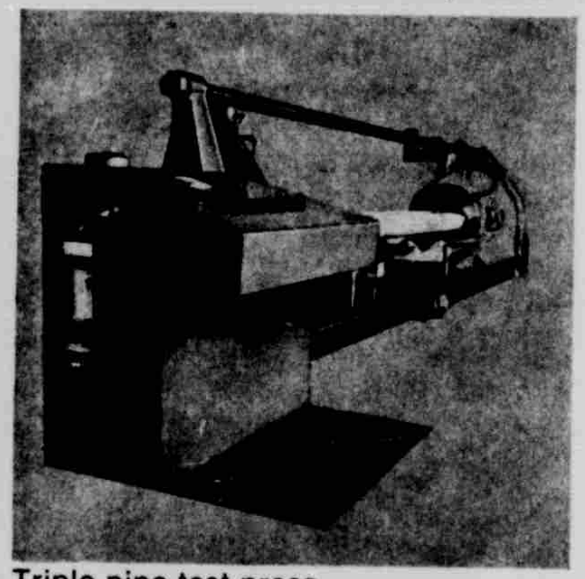
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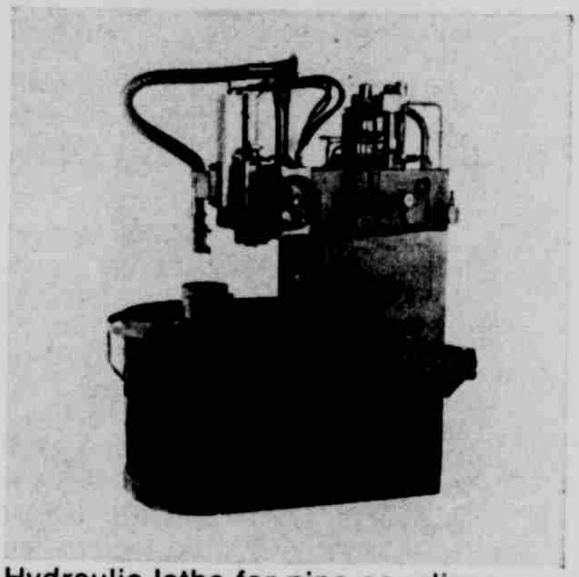
Pressure recorder of our test presses



Bursting test press for pipes



Triple pipe test press



Hydraulic lathe for pipe couplings

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# PRODUCTION—IMPORTS—EXPORTS

**Canada**—Producers' shipments of asbestos during *October 1971* totaled 139,406 short tons (112,373 tons from Quebec plants and 27,033 tons from plants in Newfoundland, Ontario, British Columbia and the Yukon). The total for October 1970 was 170,032 tons.

Asbestos shipments during *November 1971* reached 167,626 short tons, compared to 161,244 tons for the same month of 1970. The breakdown for November 1971 is: 144,240 tons from Quebec plants; 23,386 tons from plants in Newfoundland, Ontario, British Columbia and the Yukon).

*January-November 1971* cumulative total was 1,465,900 short tons, against 1,496,749 tons during the same 11-month period of 1970. [Dominion Bureau of Statistics, Ottawa]

**Italy**—118,612 metric tons of asbestos were *produced* during the *Year 1970,* compared with 112,526 tons the previous year.

*Exports* from Italy totaled 48,538 metric tons and included 20,142 tons to West Germany, 4,429 tons to The Netherlands, 2,841 tons to Poland, 1,562 tons to Spain, and 19,564 tons to Other Countries.

Italy *imported* 62,253 metric tons of asbestos: 16,641 tons from Canada, 33,511 tons from South Africa, and 12,101 tons from Other Countries. [Mineral Trade Notes, U.S. Bureau of Mines]

**Republic of South Africa**—For the six-month period from *January-June 1971,* 157,917 metric tons of asbestos were *produced:* 48,165 tons of Amosite, 31,539 tons of Chrysotile, 74,595 tons of Cape Blue, and 3,618 tons of Transvaal Blue. Total production for the same six-month period of 1970 was 136,662 tons.

*Local Sales* of asbestos reached 17,724 tons, valued at R1,815,735, compared to 13,248 tons, valued at R1,258,912, for the six months of the previous year. The breakdown for 1971 is: Amosite, 1,252 tons, R132,609; Chrysotile, 10,997 tons, R943,645; Cape Blue, 5,292 tons, R729,343; Transvaal Blue, 183 tons, R10,138.

*Exports* of asbestos totaled 124,360 tons, valued at R16,191,380 for the first six months of 1971, broken down as follows: Amosite, 45,866 tons, R5,386,495; Chrysotile, 16,673 tons; R1,433,921; Cape Blue, 59,090 tons, R8,912,953; Transvaal Blue, 2,731 tons, R458,011. Total exports for the period January-June 1970 were 116,781 tons, valued at R14,472,807. [Department of Mines, Johannesburg]

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**Mineral Exploration, 1969-70** contains statistics of Government and Private exploration for minerals in Australia. It is available as Statistical Bulletin No. 6 from the Commonwealth Bureau of Census & Statistics, Canberra, A.C.T. 2600.



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## IMPORTS INTO U.S.A.

Figures from U.S. Bureau of the Census

Short Tons

| *Unmanufactured Asbestos:* | SEP. 1971 | OCT. 1971 |
|---|---|---|
| Amosite, Republic of South Africa | 658 | 891 |
| Crocidolite (Blue), South Africa | 724 | 556 |
| Chrysotile, Crude, Italy | 1 | .. |
| South Africa | .. | 710 |
| Swaziland | .. | 80 |
| Chrysotile, Spinning Fibers, Canada | 657 | 623 |
| Chrysotile, Other, Canada | 53,897 | 51,605 |
| Other Crudes & Fibers, Canada | 121 | 175 |
| Finland | 561 | 423 |
| Yugoslavia | 843 | .. |
| South Africa | 33 | 63 |
| | 57,495 | 55,126 |

*September* unmanufactured asbestos imports were valued at $6,303,162.

*October* unmanufactured asbestos imports were valued at $6,758,456.

| *Manufactured Asbestos Goods:* | | SEPTEMBER 1971 | |
|---|---|---|---|
| Asbestos Yarn, Slivers, etc. | Lb | 322,258 | $ 317,423 |
| A-C Pipes, Tubes & Fittings | Lb | 959,884 | 57,799 |
| Asbestos-Cement Articles, Other | Lb | 776,366 | 103,055 |
| Asbestos Articles, Other | | .. | 247,542 |
| | | | $725,819 |

| | | OCTOBER 1971 | |
|---|---|---|---|
| Asbestos Yarn, Slivers, etc. | Lb | 219,072 | $ 222,035 |
| A-C Pipes, Tubes & Fittings | Lb | 3,550,812 | 167,896 |
| Asbestos-Cement Articles, Other | Lb | 1,290,558 | 185,717 |
| Asbestos Articles, Other | | .. | 170,509 |
| | | | $ 746,157 |

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## EXPORTS FROM U.S.A.

Figures from U.S. Bureau of the Census — **SEPTEMBER 1971**

| | | | |
|---|---|---|---|
| *Unmanufactured Asbestos:* | | | |
| Crude & Spinning Fibers ..... | s. tons | 124 | $ 36,073 |
| Non-Spinning Fibers ..... | s. tons | 1,190 | 158,804 |
| Waste & Refuse ..... | s. tons | 2,258 | 300,114 |
| | | 3,572 | $ 494,991 |
| *Manufactured Asbestos Goods:* | | | |
| A-C Shingles & Clapboard ..... | Lb | 3,162,801 | $ 306,896 |
| Other Asbestos-Cement Articles ..... | Lb | 3,629,998 | 541,007 |
| Asbestos Gaskets ..... | Lb | 66,783 | 114,100 |
| Asbestos Packing ..... | Lb | 342,000 | 703,623 |
| Asbestos Heat or Sound Insulation ..... | | .. | 255,097 |
| Asbestos Textiles & Yarns ..... | Lb | 1,457,851 | 426,482 |
| Asbestos Protective Clothing ..... | | .. | 7,108 |
| Mfrs. Other Than Friction Materials ..... | | .. | 331,824 |
| Clutch Facings & Linings for Auto. Use. | No | 255,365 | 216,999 |
| Clutch Facings & Lining, Other ..... | No | 26,750 | 16,743 |
| Brake Linings for Automotive Use ..... | Lb | 653,140 | 447,852 |
| Asbestos Brake Linings, Other ..... | Lb | 234,408 | 178,797 |
| | | | $3,546,528 |

## EXPORTS FROM CANADA

Figures from Dominion Bureau of Statistics — **SEPTEMBER 1971**

Short Tons

| *Unmanufactured Asbestos:* | Crude | Milled Gp 3 | Milled Gp 4&5 | Shorts Gp 6-9 |
|---|---|---|---|---|
| Western Europe ..... | 1 | 316 | 20,486 | 16,064 |
| Eastern Europe ..... | .. | .. | 2,116 | 308 |
| Middle East ..... | .. | .. | 1,326 | 757 |
| Africa ..... | .. | .. | 200 | .. |
| Asia ..... | .. | 266 | 5,333 | 6,069 |
| Oceania ..... | .. | 29 | 6,773 | 1,630 |
| So. & Cen. America & Antilles | .. | 50 | 5,734 | 2,088 |
| United States ..... | .. | 842 | 13,487 | 37,786 |
| | 1 | 1,503 | 55,455 | 64,702 |

The total amount of unmanufactured asbestos exported in *September 1971* was 121,661 short tons, valued at $16,863,000.

| *Manufactured Asbestos Goods:* | |
|---|---|
| Asbestos Brake Lining & Facings ..... | $ 30,000 |
| Asbestos-Cement Building Materials ..... | 121,000 |
| Asbestos Basic Products, Other ..... | 204,000 |
| | $ 355,000 |



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*Part 6: Apparent Reserves*

In Vermont, a reserve of at least one million tons of Chrysotile fiber appears to be assured. A small proportion of this quantity is of spinning grade. In California, measured and indicated reserves totaling more than one million tons are reported for the Copperopolis area; these reserves consist chiefly of types and grades similar to those in Quebec, Canada. Reserves of several hundred million tons of rock that will yield matted short fiber Chrysotile asbestos are reported for the Coalinga area in California. The Arizona reserve is difficult to estimate but is probably small.

The world appears to have an adequate asbestos reserve to meet requirements beyond the year 2000 at current or considerably enlarged rates of output. The chief suppliers of U.S. markets—Canada and the Republic of South Africa—appear to have adequate reserves for long-range planning. It is difficult to calculate South African reserves because of the intensive folding encountered in nearly all the asbestos areas. The duplication of the asbestos bands through folding has resulted in large reserves. The U.S.S.R. reserve is probably large enough to supply the Soviet-oriented Eastern European countries for many years.

*Part 7: Production, Consumption & Trade*

Most of the asbestos production is Chrysotile asbestos but approximately 200,000 tons of the world's production each year consists of Amosite and Crocidolite.

The United States is the largest consumer of asbestos in the world. From 1949 to 1953 the U.S. consumed on an average about 50% of the total world production. Domestic consumption more than doubled from 1945 to 1951 but thereafter it remained fairly constant while world production continued to increase. In 1968 the U.S. consumed about 23% of the total world production.

Domestic sources furnished only a small percentage of U.S. asbestos requirements. Arizona, the only present natural source of low-iron Chrysotile in the United States, has rarely produced more than 600 tons per year of the spinning grades, and the output usually has been considerably lower. A large part of the production of Crudes No. 1, 2 and 3 was purchased by the U.S. Government for stockpiling from 1953 until the purchase program terminated at the end of 1962.

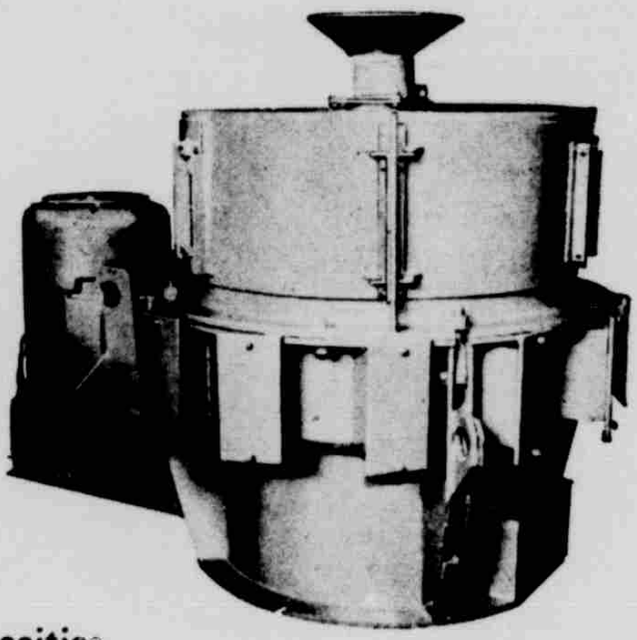
Vermont and the Copperopolis district of California are the only consistent U.S. producers of Quebec-type asbestos. Both are predominantly producers of short fiber but the Vermont asbestos mines produce about 500-700 tons per year of spinning length fiber. Most of it is applied to non-spinning uses.

On a tonnage basis, Canada furnished 90% of the U.S. imports in 1964-68, but only a small portion (3%) was of the spinning grade. The comparatively small quantities received from Africa are more important than would appear on a tonnage basis because they consist largely of special kinds and qualities unobtainable elsewhere. Under

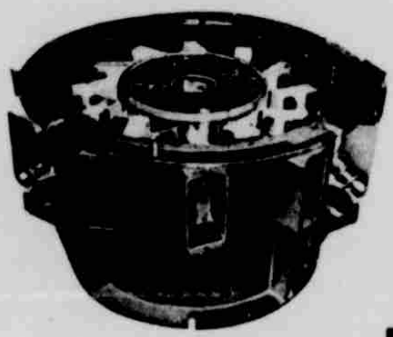



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emergency conditions imports of spinning fibers are of primary importance. Imports of spinning fibers from Canada average about 17,000 tons per year. The longer fibers of Chrysotile suitable for spinning purposes represent a small fraction of the total production. Shortages of spinning grade fibers have occurred.

The spinning grades of asbestos produced in Southern Rhodesia were of great importance during World War II and the early post-war years because they constituted the principal source of low-iron Chrysotile suitable for shipboard electric-cable construction. Production began from a new source of supply of low-iron Chrysotile in northern British Columbia in 1953 and in 1968 more than 6,000 tons of these fibers were imported from that source.

Production of Amosite in South Africa has increased from an average of 20,000 tons per year during the 1940's to 90,000 tons in 1968. U.S. imports of Amosite averaged about 20,000 tons per year during 1964-68. Part of the imported material has been placed in the National stockpile; hence industrial consumption has been somewhat lower than the afore-mentioned figure.

Most Crocidolite originates in South Africa where production of Crocidolite has increased from an annual average of 10,000 tons during the 1940's to almost 180,000 tons in 1968. U.S. imports of Crocidolite advanced from 12,000 tons in 1954 to 24,000 tons in 1966 and dropped to 14,050 tons in 1968.

*NEXT ISSUE—CONSERVATION & BYPRODUCT-COPRODUCT RELATIONSHIPS*

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## NEWS FROM TRADE ASSOCIATIONS

**QAMA Elects Officers**—J. R. M. Hutcheson, President of Canadian Johns-Manville Company Ltd., Asbestos, Quebec, was elected President of the Quebec Asbestos Mining Association for the year 1972. Other newly-elected officers of the association are: Vice President—Dr. R. J. Merrill (President, Carey-Canadian Mines Ltd.); Treasurer—G. A. McCammon, C.A.; and General Manager— Paul A. Filteau. Those serving as Directors include: W. W. Oughtred, President & Chief Executive Officer, Asbestos Corporation Ltd.; F. P. Smith, President, Bell Asbestos Mines Ltd.; M. J. Messel, President, Lake Asbestos of Quebec Ltd.; and R. S. Coleman, Vice President, National Asbestos Mines Ltd.

**ASTM**—The American Society for Testing and Materials' Committee D-30 on High Modulus Fibers and Their Composites is developing materials specifications in addition to standard materials tests to assist those who order materials made from high modulus fibers but who have no knowledge of qualities, ranges or strength values . . . . A new Subcommittee (G-03.06) of Technical Committee G-3 on Deterioration of Nonmetallic Materials recently was formed to study the deterioration of pipe-line coatings and linings.



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| | U.S. DOLLARS |
|---|---|
| No. 1 Crude | $1410.00 — $1650.00 |
| No. 2 Crude | 700.00 — 950.00 |
| AAA | .. — 800.00 |
| Group No. 3 (Non-Ferrous Filtering-Plastic) | 425.00 — 700.00 |
| Group No. 4 (Non-Ferrous Filtering-Plastic) | 400.00 — 500.00 |
| Group No. 5 (Non-Ferrous Filtering-Plastic) | 385.00 — 425.00 |
| Group No. 6 (Non-Ferrous Plastic) | .. — 250.00 |
| Group No. 7 (White Shorts) | 65.00 — 90.00 |

## CANADA

**(AS OF JULY 1, 1971)**

**PER TON OF 2000 LBS., F.O.B. MINE**

| | CANADIAN CURRENCY |
|---|---|
| Crude No. 1 | $ .. — $1615.00 |
| Crude No. 2 | .. — 875.00 |
| No. 3 (Spinning Fiber) | 412.00 — 675.00 |
| No. 4 (Asbestos-Cement Fiber) | 227.00 — 383.00 |
| No. 5 (Paper Fiber) | 164.00 — 195.00 |
| No. 6 (Paper & Shingle Fiber) | .. — 120.00 |
| No. 7 (Shorts) | 52.00 — 100.00 |

## CASSIAR

**(AS OF JANUARY 1, 1971)**

**PER TON OF 2000 LBS., F.O.B. NORTH VANCOUVER, B.C.**

| | CANADIAN CURRENCY |
|---|---|
| AAA Grade (Non-Ferrous Spinning Fiber/Canadian Gp 3) | $ 877.00 |
| AA Grade (Non-Ferrous Spinning Fiber/Canadian Gp 3) | 697.00 |
| A Grade (Non-Ferrous Spinning Fiber/Canadian Gp 3) | 529.00 |
| AC Grade (Non-Ferrous Spinning Fiber/Canadian Gp 3) | 380.00 |
| CC Grade (Non-Ferrous Spinning Fiber/Canadian Gp 3) | 380.00 |
| AK Grade (Asbestos Cement Fiber/Canadian Gp 4) | 263.00 |
| CP Grade (Asbestos Cement Fiber/Canadian Gp 4) | 248.00 |
| AS Grade (Asbestos Cement Fiber/Canadian Gp 4) | 228.00 |
| CT Grade (Asbestos Cement Fiber/Canadian Gp 4) | 223.00 |
| AX Grade (Asbestos Cement Fiber/Canadian Gp 5) | 208.00 |
| CY Grade (Asbestos Cement Fiber/Canadian Gp 5) | 147.00 |
| AY Grade (Asbestos Cement Fiber/Canadian Gp 5) | 147.00 |

## VERMONT

**(AS OF JULY 1, 1971)**

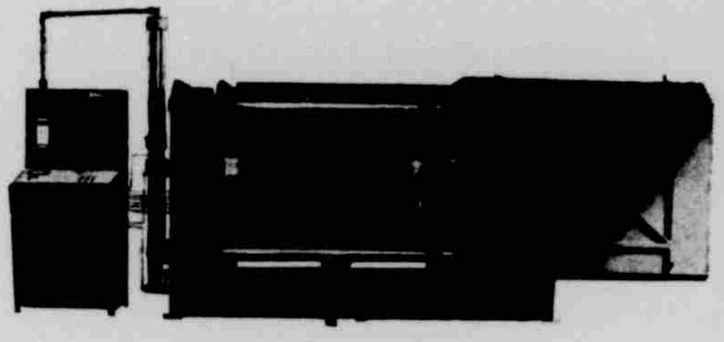
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| Grade 6D (Waste) | ..— 116.00 |
| Grades 7D thru 7T (Shorts) | 49.50— 97.00 |
| Grade 7TF Floats (Shorts) | ..— 43.50 |
| Hooker No. 1 (Packaged in 50-lb. Woven Poly. Bags) | — 440.00 |
| Hooker No. 2 (Packaged in 100-lb. Woven Poly. Bags) | — 220.00 |

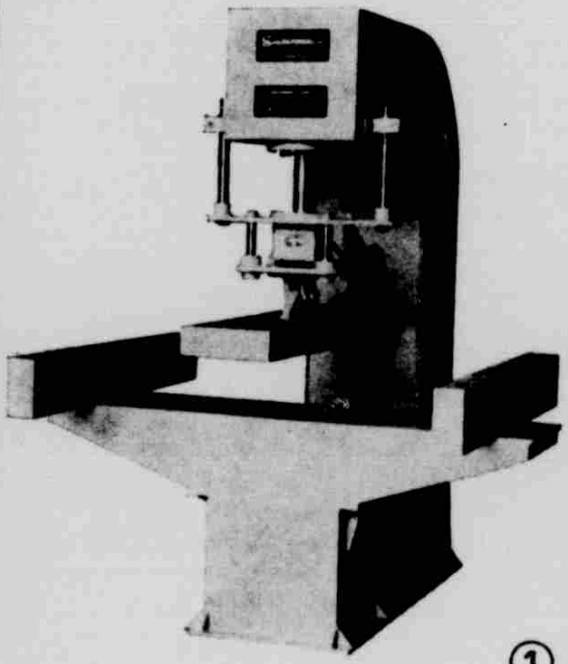


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① Bending and crushing test press for sheet and pipes



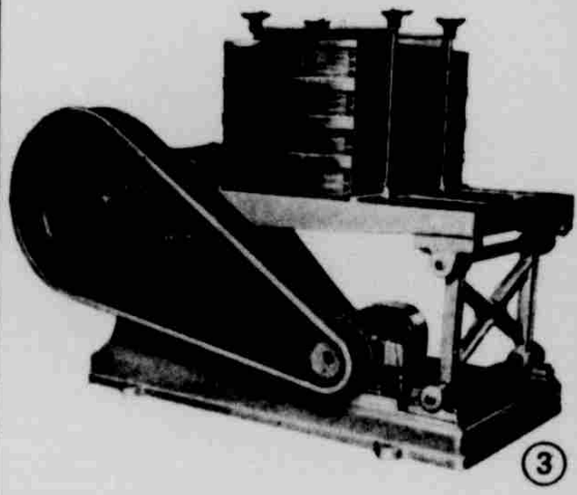
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①

② Bursting test press for pipes

③ Classifier for testing asbestos fibres



③

**Asbestos-cement testing machines designed and manufactured by:**

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# BIRTHDAY GREETINGS TO . . .

Jan van der Putten, Chairman & Managing Director, Putten's Asbestos Organization, Johannesburg, South Africa, March 15.

Colon Brown, Chairman of the Board & Chief Executive Officer, National Gypsum Company, Buffalo, New York, March 17.

J. O. Eby, Vice President & Jeffrey Mine Manager, Canadian Johns-Manville Company Ltd., Asbestos, Quebec, Canada, March 19.

Byron C. Radaker, Senior Vice President, Certain-teed Products Corporation, Valley Forge, Pennsylvania, March 19.

Herbert E. Sunbury, Executive Secretary, Asbestos Textile Institute, Pompton Lakes, New Jersey, March 21.

Douglas O. Cooke, Director of Advertising, Building Products Division, Johns-Manville Corporation, New York City, March 23.

Philip P. Rost, Chairman of the Board, Philadelphia Asbestos Corporation, Philadelphia, Pennsylvania, March 23.

Harding L. Taylor, Vice President-Sales, Pipe Products Group, The Flintkote Company, Ravenna, Ohio, March 23.

J. Calvin Affleck, Corporate Advertising Manager, Certain-teed Products Corporation, Valley Forge, Pennsylvania, March 24.

Edward A. Corbett, Vice President, Asbestos & Magnesia Materials Company, Chicago, Illinois, March 24.

O. A. Maggia, Assistant Treasurer, GAF Corporation, New York City, March 24.

K. E. Vitek, President & Managing Director, Scandura Inc., subsidiary of BBA Group Ltd., Charlotte, North Carolina, March 26.

George Barge, Director & Executive Vice President, Atlas Asbestos Company, Montreal, Quebec, Canada, March 27.

A. E. Alpine, Vice President-Asbestos Products, Piping & Plastics Industries, Certain-teed Products Corporation, Valley Forge, Pennsylvania, March 29.

Ernest L. Ostic, Director, Technical Sales & Field Engineering, Building Products Division, GAF Corporation, New York City, March 30.

Ross E. Sampson, Production Engineer, Asbestos Fibre Division, Johns-Manville Corporation, Asbestos, Quebec, Canada, March 31.

D. B. Tingle, Vice President & General Manager of Floor, Carpet & Consumer Products Operations, Armstrong Cork Company, Lancaster, Pennsylvania, April 1.

M. Phillips, Wharf Supervisor, Asbestos Wharf, Cassiar Asbestos Corporation Ltd., North Vancouver, B.C., Canada, April 1.

Grant V. Wilson, Jr., Secretary, Grant Wilson, Inc., Chicago, Illinois, April 1.

Francis H. May, Jr., Director & Executive Vice President for Finance & Administrative, Johns-Manville Corporation, New York City, April 2.

W. P. Archer, Mine Manager, Coalinga Asbestos Company, Coalinga, California, April 4.

Joseph E. Kindregan, Director of Corporate Marketing Projects,



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# ARIZONA ASBESTOS

Mined and Milled by

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**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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Johns-Manville Corporation, New York City, April 4.
E. Paul Burke, Vice President for Transportation, Johns-Manville Corporation, New York City, April 5.
Cedric H. Rothschild, Secretary-Treasurer, Canadian Asbestos Company, St. Laurent, Montreal, Quebec, Canada, April 5.
Richard W. Murphy, Advertising Manager, Building Products Division, National Gypsum Company, Buffalo, New York, April 6.
A. C. Beguin, Manager of Operations, Cassiar Mine, Cassiar Asbestos Corporation Ltd., Cassiar, B.C., Canada, April 8.
Alfred A. Bowe, Sales Administrator, Carey-Canadian Mines, Ltd., Cincinnati, Ohio, April 8.
Stuart Charbula, Executive Assistant to the President, Hedman Mines Ltd., Timmins, Ontario, Canada, April 8.
Ernest S. Sprinkmann, Jr., Executive Vice President, Sprinkmann Sons Corporation, Milwaukee, Wisconsin, April 8.
Raymond J. Sachs, President, Porter-Hayden Company, Baltimore, Maryland, April 10.
Henry B. Moreno, Vice President, Industrial Divisions, Johns-Manville Corporation, New York City, April 11.
W. E. Royds, General Superintendent, Transport Division, Cassiar Asbestos Corporation Ltd., Whitehorse, Yukon Territory, Canada, April 11.
M. De Rouin, Production Superintendent, Clinton Mine, Cassiar Asbestos Corporation Ltd., Clinton Creek, Yukon Territory, Canada, April 13.
P. H. Riordon, President, Minorex Ltd., wholly-owned subsidiary of Asbestos Corporation Ltd., Vancouver, B.C., Canada, April 13.
J. Vermeer, Managing Director, Chemische Productenhandel J. J. van de Vrande, Haarlem, The Netherlands, April 13.

---

## ASTM STANDARDS

**C 619 71**—Test for Chemical Resistance of Asbestos Fiber; Reinforced Thermosetting Resins Used in Self-Supporting Structures. [Adopted as Standard without Revision; Effective November 22, 1971; Reference Part 12, 1972; $1.25]

**C 663 71**—Specification for Asbestos-Cement Storm Drain Pipe. [Revision of Standard; Effective October 18, 1971; Reference Part 12, 1972; $1.25]

**D 2987 71T**—Method of Test for Moisture Content of Asbestos Fiber. [New Tentative; Effective July 15, 1971; Reference Part 25; $1.25]

**C 428 71a**—Specification for Asbestos-Cement Nonpressure Sewer Pipe. [Revision of Standard; Effective October 18, 1971; Reference Part 12, 1972; $1.25]

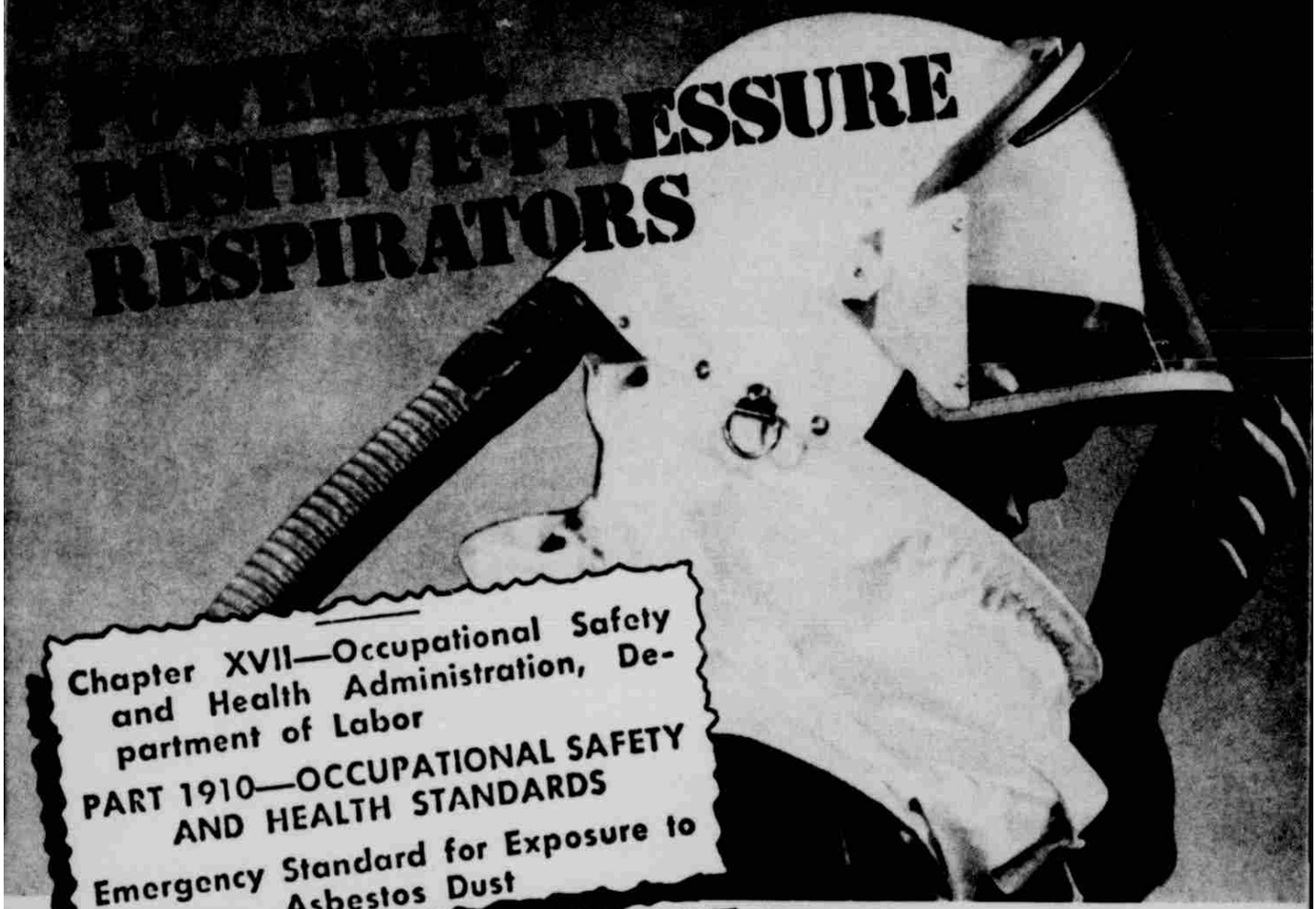


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NOW REQUIRED, BY FEDERAL SAFETY REGULATIONS, FOR ASBESTOS WORKERS:

(FEDERAL REGISTER, VOL. 36, NO. 234 — DECEMBER 7, 1971)

# POSITIVE-PRESSURE RESPIRATORS



Chapter XVII—Occupational Safety and Health Administration, Department of Labor

PART 1910—OCCUPATIONAL SAFETY AND HEALTH STANDARDS

Emergency Standard for Exposure to Asbestos Dust

(3) For an atmosphere containing not more than 250 fibers per millilter greater than 5 microns in length over an 8-hour average, or more than 500 fibers per milliliter over any period of 15 minutes, a powered filter positive pressure respirator approved by the U.S. Bureau of Mines under the provisions of 30 CFR Part 14 (Bureau of Mines Schedule 21B) shall be used.

THE ONLY SYSTEMS THAT MEET THIS SPEC. ARE ELECTRIC-POWER RITE WHITECAP HELMET SYSTEMS!

(4) For an atmosphere containing more than 250 fibers per milliliter greater than 5 microns in length over an 8-hour average a type C positive pressure supplied-air respirator approved by the U.S. Bureau of Mines under the provisions of 30 CFR Part 12 (Bureau of Mines Schedule 19B) shall be used.

...AND RITE WHITECAP COMPRESSED-AIR SYSTEMS MEET THIS ONE!

WRITE FOR DETAILS

# ASBESTOS STOCK QUOTATIONS

**CLOSE—JANUARY 18, 1972**

| | | | |
|---|---|---|---|
| Abitibi Asbestos | *$1.60 | Gulf & Western | 33 |
| Advocate Mines | *$2.10 | G&W (pfd 1.75) | 104 |
| Allied Mining | *$3.80 | G&W (pfd 3.50) | 136¾ |
| Asarco | 21⅞ | G&W (pfd 3.87) | 64½ |
| Armstrong Cork | 42⅞ | G&W (pfd 5.75) | 71⅛ |
| Armst Cork (pfd 3.75) | 57 | Illinois Central | 39⅜ |
| Asbestos Corporation | *$28.25 | Ill. Central (pfd 3.50) | 65 |
| Bendix | 46 | Johns-Manville | 39¾ |
| Bendix (pfd 3) | 69⅝ | Maremont | 35½ |
| Carlisle | 21¼ | National Gypsum | 20⅝ |
| Cassiar Asbestos | *$19.75 | Natl. Gypsum (pfd 4.50) | 74 |
| Cerro Corporation | 15¼ | Pacific Asbestos Ltd. | *$1.26 |
| Certain-teed Products | 45 | Panacon | 3⅜ |
| C-teed (pfd .90) | 43½ | Pathfinder | *$1.04 |
| Conwest | *$8.70 | Porter (pfd 5.50) | 69½ |
| Flintkote | 30¾ | Raybestos-Manhattan | 29½ |
| F-kote (pfd-A 4.50) | 87½ | Royal Industries | 16 |
| F-kote (pfd-B 2.25) | 41¼ | Unarco | 15½ |
| GAF Corporation | 24¾ | Union Carbide | 46¼ |
| GAF (pfd 1.20) | 31¼ | Uniroyal | 18 |
| Garlock | 19⅝ | Uniroyal (pfd 8) | 106¼ |
| Grace | 29½ | United Asbestos | 4 13/16 |

*Canadian Currency
(Sources: The Wall Street Journal & The Northern Miner)

## TRADE/LICENSING/INVESTMENT OPPORTUNITIES

**Australia**—firm with factories and marketing outlets in every State of the Commonwealth interested in licensing agreements with U.S. companies for the manufacture of a wide range of plant and equipment for the Australian market; write The Marketing Manager, Steel Mains Ltd., P.O. Box 441, South Melbourne 3205, Victoria.

**Austria**—civil engineer interested in assisting U.S. firms desiring to enter the Yugoslav market; offers engineering consultant services including supervision of project implementation and delivery of completed plants on behalf of American clients; specializes in projects concerning air purification, water treatment, chemical manufacturing, mining and construction, as well as electronic data processing and process control; contact Mr. Kurt Milowiz, Quellen Gasse 58, A-8010 Graz, Styria.

**Belgium**—subsidiary of the largest utility company in Belgium offers "no charge location feasibility studies" for U.S. firms interested in investing in Belgium; contact Mr. Frans Gillias, Attache, au Departement Economique, Intercom, Place du Trone 1, 1000 Brussels.



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*Phenolic Resins*

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*Cashew Resins*

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# MEN ON THE MOVE

## ASBESTOS CORPORATION LTD.

**M. P. Carson** was appointed Executive Vice President. He will be located in the corporation's head office in Montreal, Quebec, Canada . . . . **A. S. Johnson,** formerly a Regional Sales Manager, fills Mr. Carson's former position as Vice President-Sales.

## CEMENT ASBESTOS PRODUCTS COMPANY

**S. Davis Weaver** was named President of CAPC, a joint venture of American Smelting and Refining Company and Woodward Company, a Division of Mead Corporation . . . . **William R. Bond,** President of Cement Asbestos since its formation, has been elected Chairman of the Board and Chief Executive Officer.

## CERTAIN-TEED PRODUCTS CORPORATION

**Benjamin F. Leaman** has filled the newly-created position of Vice President-National Affairs and will be responsible for coordinating all Federal, State and local governmental and public affairs programs. Prior to joining Certain-teed in 1966, Mr. Leaman was Vice President of Merchandising with Owens-Corning Fiberglas Corporation.

## JOHNS-MANVILLE CORPORATION

**Thomas C. Stewart** was appointed Director of Physical Distribution and Traffic. Prior to joining J-M, he was Manager of Corporate Traffic with General Electric Company . . . . **John H. Fisher** is now Director of Real Property Operations within the Growth Development Department and a Vice President of the J-M Sales Corporation. The Real Property Operations group will be known as Johns-Manville Properties International.

## NATIONAL GYPSUM COMPANY

**Frank H. Zimmerman,** formerly Director of Safety in the Gold Bond Building Products Division, has been promoted to the newly-established position of Director of Corporate Safety and Environmental Health. Headquartered in Buffalo, New York, Mr. Zimmerman will be responsible for the firm's continuing efforts to assure safe working conditions and a healthy environment at all of its operations throughout the United States and Canada.



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▲ Hydraulic press for dewatering of sheets and slates.
Pressing power: 10 000 tons.

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**Manufacturer of Asbestos Cement Machines**

Slurry preparation equipment

Sheet machines
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Stacking presses for high density sheets
Cross conveyors
Corrugators

Pipe machines for high pressure pipes
Pipe and socket lathes
Cutting-off lathes
Presses for water pressure test

Auxiliary Equipment
Waterring vacuum pumps

Experience for decades are guarantee of well-devised and reliably working machines

## REPORTS/HANDBOOKS/PREPRINTS

**Open-File Reports on Alaska**—reports on the Eagle quadrangle area of Alaska that may be of interest to those searching for asbestos; the analyses of stream-sediment samples can be used to help locate asbestos because in this area ultramafic rocks are generally indicated by high chromium and nickel values in the nearby stream sediments; pertinent reports in open files of the U.S. Geological Survey include: No. 307—Preliminary Geologic Map of the Eagle B-1 & C-1 Quadrangles (1968); No. 349—Preliminary Geologic Map of the Eagle D-2 & D-3 Quadrangles (1969); No. 386—Analyses of Stream-Sediment & Rock Samples from the Fortymile Area, Eagle Quadrangle (1969); and, No. 387—Analyses of Stream-Sediment, Rock & Soil Samples from a Part of the Seventymile River Area, Eagle Quadrangle (1969). [Available for reproduction through Technical Data Unit, Alaskan Mineral Resources Branch, USGS, Menlo Park, California 94025]

**Insulation Handbook 1972**—contains tables giving the dimensions and insulation values of all important thermal, acoustic and vibration insulating materials on the market in the United Kingdom; reflects the important changeover to metrication; has a list of refractory materials. [£1.00 post free; order through ASBESTOS or direct from Lomax Erskine & Company Ltd., 8 Buckingham Street, London WC2N 6DA, England]

**Electron Diffraction Patterns of UICC Asbestos Samples**—preprint of article from "Environmental Research," April 1971, prepared by the Pneumoconiosis Research Unit of the South African Medical Research Council; the UICC standard samples of Amosite, Anthophyllite, Crocidolite, Chrysotile A and Chrysotile B have been studied by electron diffraction; the effect of fiber orientation on the electron diffraction patterns was studied using a double-tilt stage; rotation did not have a marked effect on the general pattern of weak and strong spectra; it has been shown that electron diffraction method may be used to identify single fibers of the samples. [copies are available from the National Research Institute for Occupational Diseases, P.O. Box 4788, Johannesburg, Republic of South Africa]

**"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 £13.50; Back Copies half price. Order from:**

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OUR 25TH YEAR




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# NEW ASBESTOS PATENTS

U.S. patents may be purchased from The Commissioner of Patents, Washington, D.C. 20231, at a cost of 50c each. Photoprints of non-U.S. patents may be purchased from the same source at a cost of 30c per page. Remittance should be in coin, currency or check and the number of the patent, name of the inventor and date of issue should be shown.

*British 1,248,281*—A preservative paint for use on substrates without prior undercoating comprises 11-15% by weight of a butadiene polymer, 20-22% of aluminum powder, 11-12% of asbestos, 7-8% of a polyolefin resin as a tackifier, and the remainder an aromatic or aliphatic solvent; assigned to Materiali Potettivi Milano S.r.l., September 29, 1971; 3 pages.

*British 1,249,291*—Procedure for aligning and extruding of asbestos to obtain a mat suitable for impregnation with a matrix to produce a reinforced mat; G. E. G. Bagg, L. E. Dingle, R. H. Jones & A. W. H. Pryde; assigned to National Research Development Corporation, October 13, 1971; 9 pages.

*Canadian 882,582*—A combustible hot top for use in forming steel ingots comprises an aqueous sodium silicate solution, sawdust, raw dolomite, asbestos, and magnesium oxide to improve the resistance of the composition to moisture during storage; M. E. LaBate, October 5, 1971; 8 pages.

*Canadian 883,341*—Non-disintegrating insulating slabs or casting riser sleeves for steel ingots are produced from a mixture of 4-10% by weight each of a cellulosic fiber and an aqueous alkali metal silicate, 0.5-5% of sodium carbonate, 1% of Amosite asbestos, and the balance silica sand and silica flour; A. McDonnell; assigned to Foseco Trading A.G., October 12, 1971; 8 pages.

*Russian 269,387*—A mastic adhesive having a brittle point as low as minus 20°C, for use on roofing materials at ambient temperature, comprises 40-45% by weight of a bitumen having a softening point of 72-75°C, 33-38% of a light gas-oil from catalytic cracking, 8-10% of asbestos, and 10-12% of calcium carbonate, Portland cement or slaked lime; S. A. Smirnova; assigned to Asbestos-Cement Industry Research Institute, July 16, 1970; 2 pages.

*Russian 277,748*—In the production of acid-resistant, thermally stable fibrous silicates, tailing from an asbestos ore mill is ground along with sodium silicate and sodium fluoride, and the suspension autoclaved at a temperature of about 480°C for a period of about 72 hours; A. D. Fedoseev, et al; assigned to I. V. Grobenshchikov, Institute of Silicate Chemistry, August 5, 1970; 2 pages.



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# NEWS

FOR
ASBESTOS-CEMENT
MANUFACTURERS

## SCAPA sets the standards

## by which other felts are judged

The SCAPA range of A.C. felts
—the new development of the '70's—offers.

* RELIABILITY
* REPEATABILITY
* SERVICE

We develop—make—and
sell A.C. felts... that's all!



SCAPA TEXTILES LTD.

# CALENDAR OF EVENTS

**Special Exhibition on Roof Building**—World Trade Fair; Klagenfurt, Austria; *February 2-March 25.*

**ASTM Committee D-14 on Adhesives**—Fort Sumter Hotel, Charleston, South Carolina; *March 15-17.*

**Construction Marketing Seminar**—The Producers' Council, Inc.; Marriott Motor Hotel, Chicago, Illinois; *March 15-17.*

**ASTM Committee D-13 on Textile Materials**—Belmont Plaza, New York City; *March 20-24.*

**Pollution Control Equipment and Instrumentation Exhibit**—Frankfurt Trade Center, Frankfurt, Germany; *March 20-24.*

**Anti-Pollution Exhibition**—Tokyo, Japan; *March 25-30.*

**ASTM Committee F-3 on Gaskets**—Hilton Inn, Williamsburg, Virginia; *March 29-31.*

**CIM 74th Annual General Meeting**—Canadian Institute of Mining and Metallurgy; Ottawa, Canada; *April 9-12.*

**Joint Annual Meeting**—American Association of Petroleum Geologists and the Society of Economic Paleontologists and Mineralogists; Denver, Colorado; *April 17-20.*

**4th International Geochemical Exploration Symposium**—organized by The Institution of Mining and Metallurgy, London; will be held at the Institution of Electrical Engineers, London, England; *April 17-20.*

**National Packaging Exposition and Conference**—American Management Association; Exposition at the Coliseum, New York City, *April 17-20;* Conference at the Americana Hotel, New York City, *April 17-19.*

**National Conference of States on Building Codes and Standards**—5th Annual Conference; Boise, Idaho; *April 17-21.*

**Materials Test and Quality Control Equipment Exhibit**—Paris Trade Center, Paris, France; *April 17-21.*

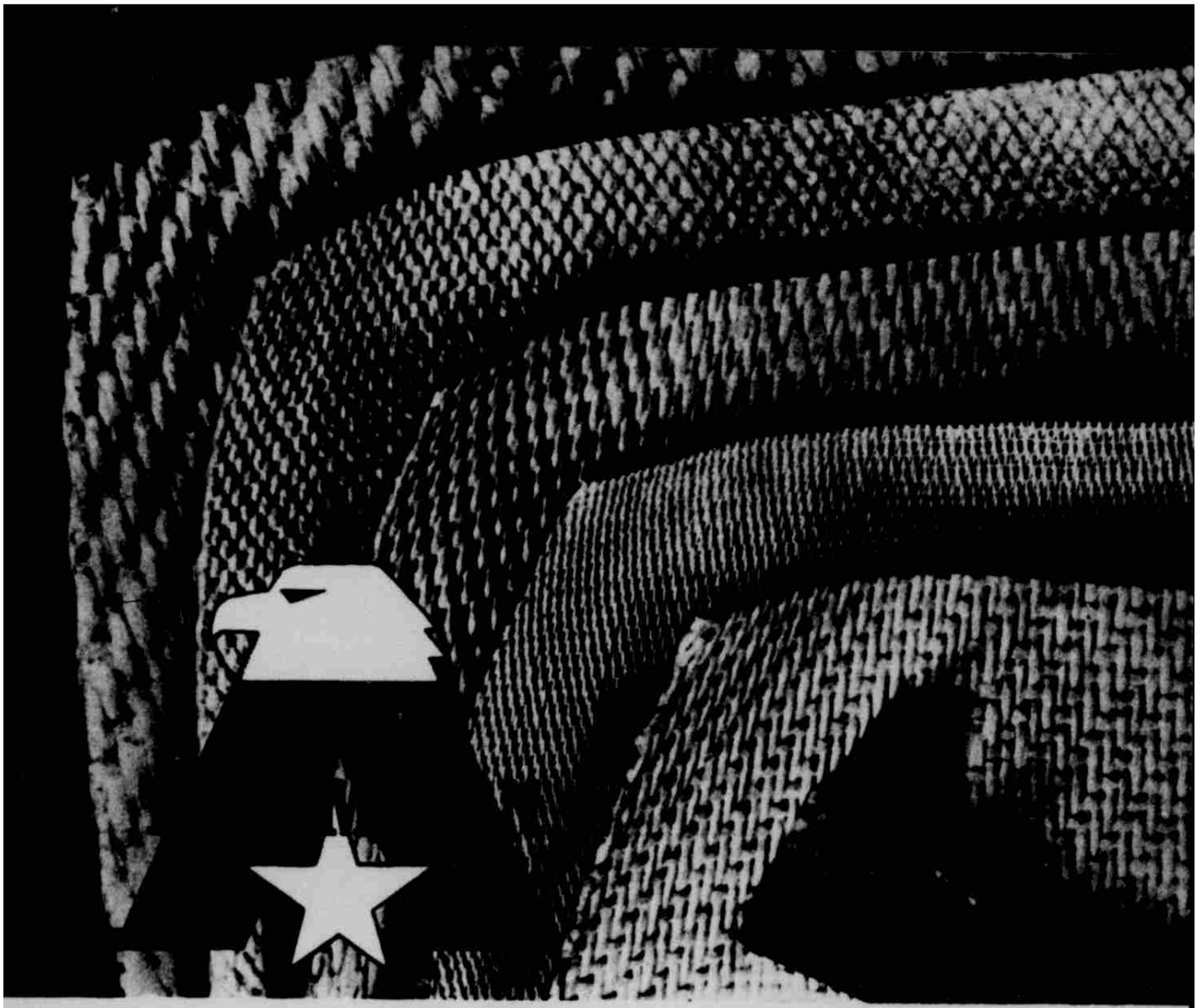
**Industrial Process and Analytical Instrumentation Exhibit**—Mexico City Trade Center, Mexico; *April 24-28.*

**Underwater Mining Institute**—University of Wisconsin-Extension, Milwaukee, Wisconsin; *April 27-28.*

**Conference on the Selection, Design and Fabrication of Composite Materials for Civil Engineering Structures**—sponsored by the American Society of Civil Engineers, November 13-14, 1972; descriptive titles *should* be submitted by *February 1*; drafts or abstracts *must* be submitted by *May 1.*



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## — a different concept in quality asbestos textiles

CLEANLINESS: *Thermolan* fabrics are smooth and clean. Dust and loose fibers are virtually eliminated. Absolutely no "hairy" or "fuzzy" yarns. Cleaner to handle and cut.

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TENSILE STRENGTH: Lower organic content means greater strength retention after subjection to heat. Also more resistance to chemical and biological reactions.

THERMOLAN is offered in a variety of gauges (.025"-.125") in Plain, Twill, Herringbone and other constructions. *Thermolan* fabrics are now being used for safety clothing, welding blankets, turbine pads and marine insulation lagging cloth.

How can you use the advantages of *Thermolan?* For samples and information call 215-275-4602 (TWX 510-660-0184) or write Box 228, Norristown, Pa. 19404.

*American also offers a complete line of conventional asbestos textiles.*

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# Remember When?

*(February 1922 ASBESTOS)*

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The extremely depressed business conditions during the year 1921 were reflected in figures showing sales of Canadian asbestos for 1921 were on the order of $5,000,000, only about one-third of the $14,792,607 recorded for 1920.

Johns-Manville, Inc., announced that its general reduction of 10% in salaries as of October, 1921, had been rescinded and salaries were raised to the old basis as of January 1, 1922.

Mention was made of the fact that the Society of Automotive Engineers devoted a considerable portion of its most recent meeting to a discussion of the probable use of four wheel brakes on motor cars. At the time, a few European vehicles were so equipped but no American cars had yet employed this system.

The United States Asbestos Company announced the addition to its organization of S. R. Slaymaker as Vice President and George R. Weber as Treasurer.

Mr. B. Marcuse announced the sale of his interest in the Asbestos and Mineral Corporation and the purchase of the entire capital stock of Asbestos Crude and Fibre Corporation and controlling interest in Asbestos Crude and Fibre Mining Corporation with mines near Thetford, P.Q., Canada.

Among a group of the U.S. Patents listed in this issue appeared one for an "Asbestos Table Mat" and another for an "Asbestos Ironing Pad."

The Arizona Asbestos Clearing house, Globe, announced its readiness to undertake execution of orders for Arizona Crudes and Fibers.

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*Have you ordered your copy of*

*"The Asbestos Factbook"?*





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# The Greeks didn't have a word for it.

The ancient Greeks called asbestos 'unquenchable'. Not, perhaps, the most apt of descriptions. 'Incomparable' might have been better.

Strangely enough, they don't seem to have had a single all-embracing word for 'one of the leading producers of asbestos textiles in the world who know their subject inside out and who are ready at the drop of a hint to advise on any aspect of asbestos in any of its many applications'.

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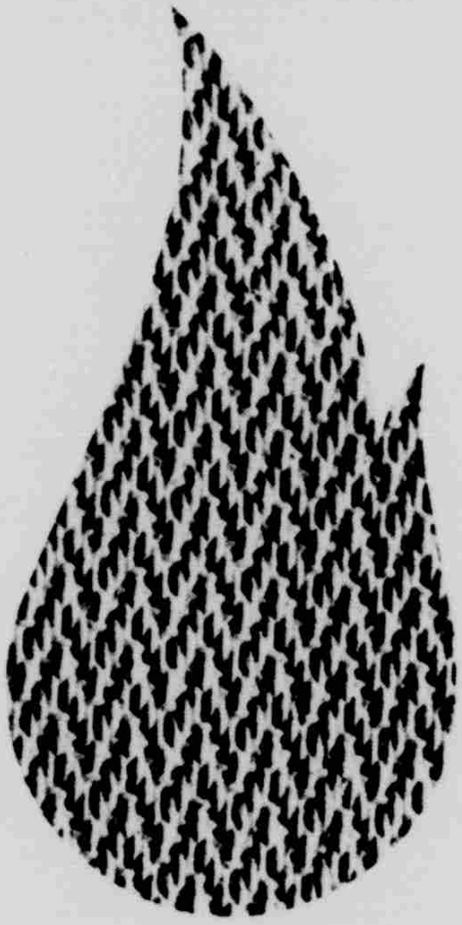
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**Telex: 359-458** **Cable Address: Chrysotile**




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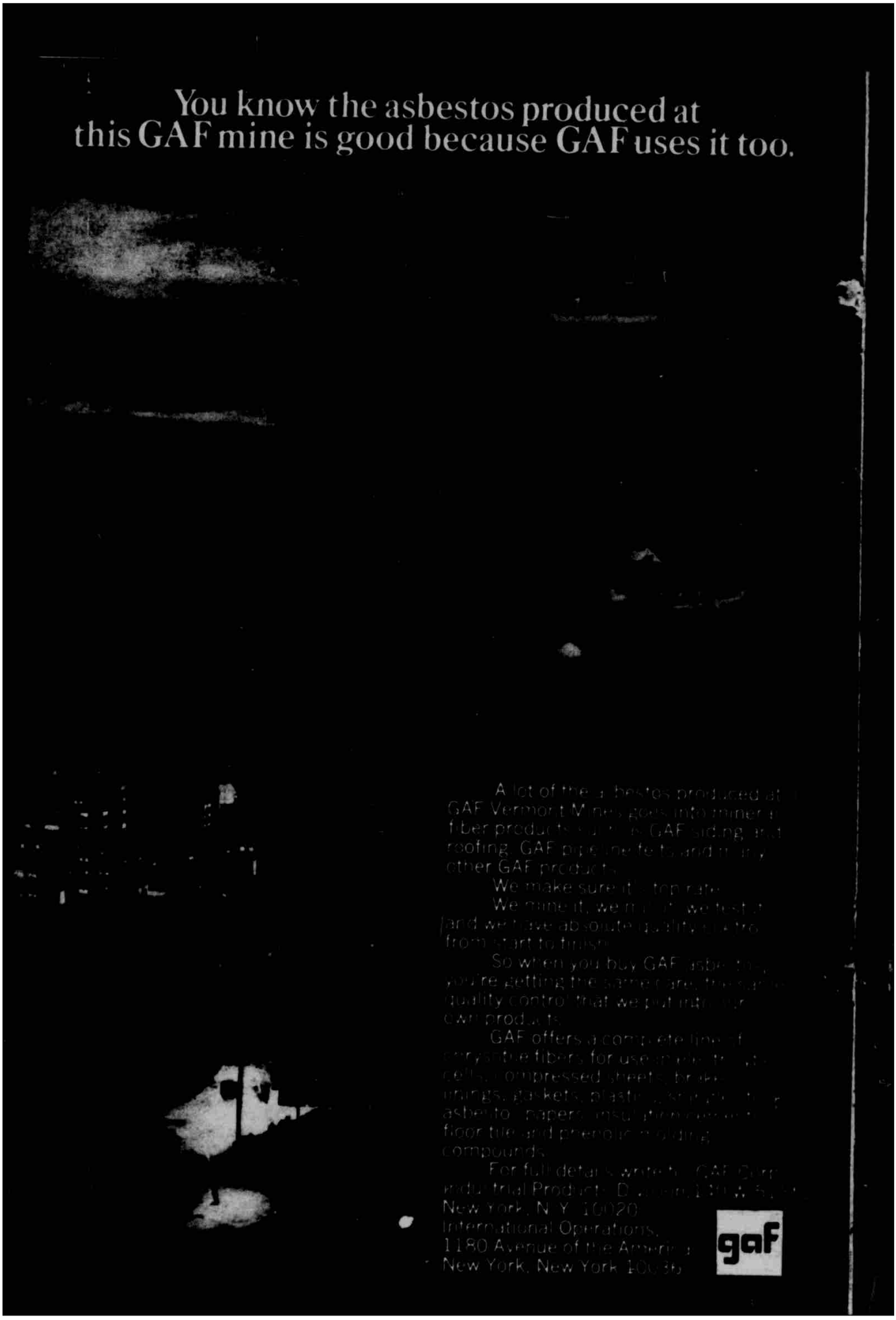
Novatex asbestos textile is lighter, stronger and more heat resistant than conventional asbestos textiles. Incombustible Novatex asbestos textile flexes easier at high temperatures than glass fabrics. No need for lubricants to maintain flex life. Organic solvents . . . alkalies . . . weak acids—Novatex resists them all. Novatex comes in a wide variety of weights and sizes for nearly every type of application. With Novatex you're bound to get an improvement. Contact us.

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We make sure it's top rate.

We mine it, we mill it, we test it and we have absolute quality control from start to finish.

So when you buy GAF asbestos, you're getting the same care and the same quality control that we put into our own products.

GAF offers a complete line of asbestos fibers for use in many products, cells, compressed sheets, brake linings, gaskets, plastics, asbestos papers, asbestos textiles, floor tile and protective coating compounds.

For full details write to GAF Corp., Industrial Products Division, 140 West 51st Street, New York, N.Y. 10020. International Operations, 1180 Avenue of the Americas, New York, New York 10036.

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