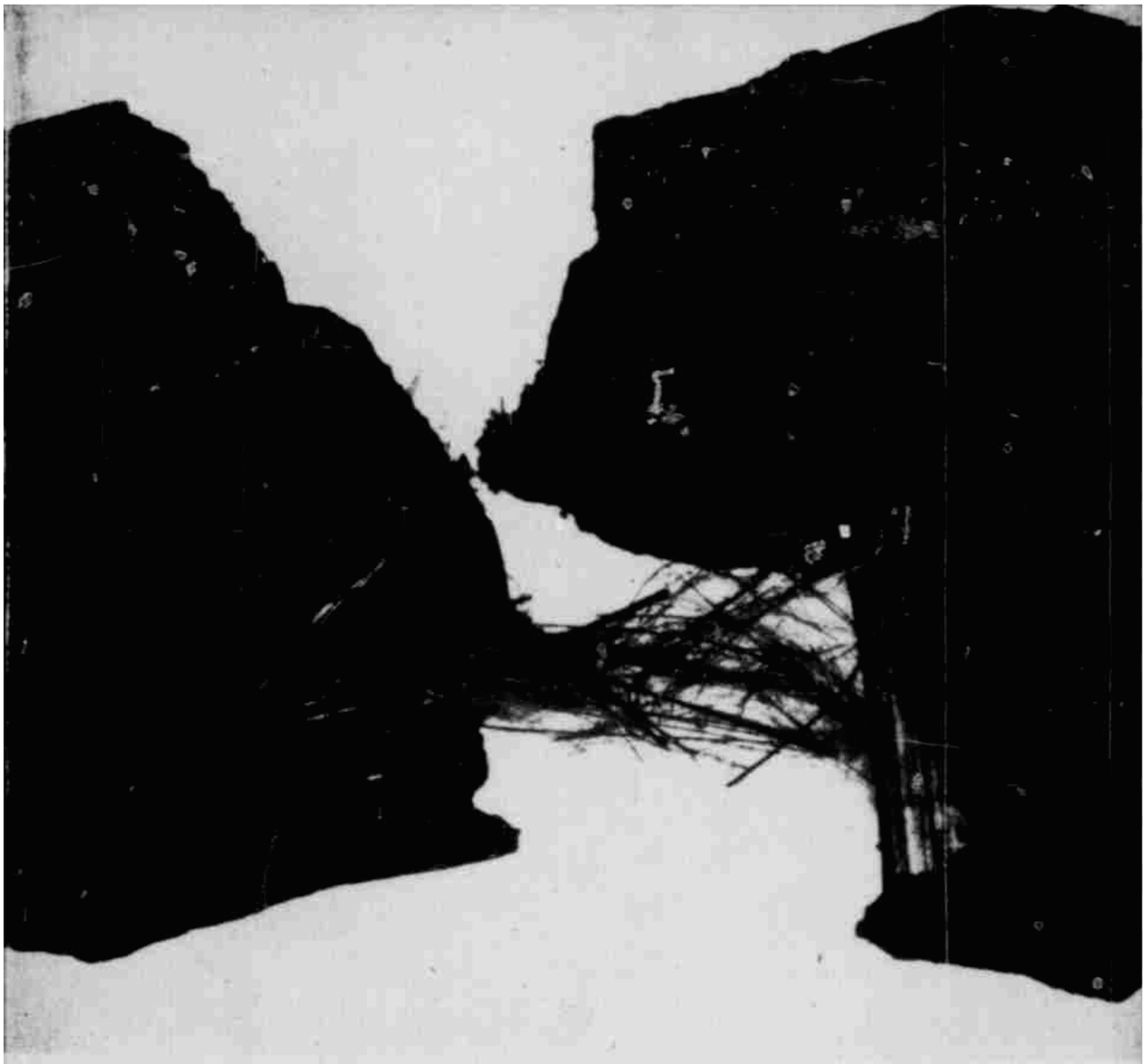


Raw Blue Asbestos Fibre (Crocidolite), Courtesy of The Cape Asbestos Company Limited

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Manheim, Pa. 17545

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VOLUME 49 MAY 1968 NUMBER 11

FOUNDED JULY 1919 AND PUBLISHED MONTHLY SINCE THAT DATE

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ASBESTOS TEXTILE ELECTRICAL INSULATIONS

BY: P. O. NICODEMUS

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

(Below is the second part of this article. The first part appeared in March 1968 ASBESTOS and the third and final part will appear in the next issue.)

OTHER PROPERTIES OF ASBESTOS TEXTILES

1. Radiation Resistance

Asbestos has exceptionally good resistance to nuclear radiation and will withstand an integrated epithermal neutron flux of approximately 10^{20} NVT before significant structural changes occur.**

2. Saturating Characteristics of Asbestos

(a) As the water of crystallization of asbestos exists as negative hydroxyl (OH^-) ions, the fibers are wet most readily by water and polar solvents. Saturating compounds should therefore be dissolved in water or in polar solvents.

(b) Paradoxically, the asbestos fibers carry a positive electrical charge, so pigment particles in treating compounds should be negatively charged so they will cling to the asbestos fibers.

(c) The refractive index of asbestos fibers is 1.50 to 1.55. This is also the refractive index of the solids of many asbestos saturating varnishes. On thin-walled insulations, as asbestos-insulated magnet wire, this results in transparent spots called "shiners" in the insulation where the conductor can be seen. Although these transparent spots are usually as

**"Handbook of Asbestos Textiles", Third Edition, page 33.

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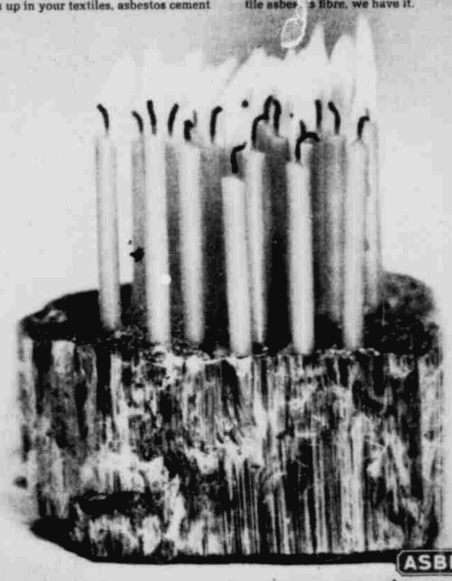
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ASBESTOS

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Thetford Mines, Quebec, Canada

thick as the remainder of the insulation and as good electrically, visually it appears as though there is no insulation at these spots. For this reason, treating compounds used for thin-walled asbestos wire insulation usually contain finely ground pigments to minimize the incidence of these "shiners".

3. Fungus Resistance

While asbestos fibers are fungus resistant, cotton or rayon carrier fibers and reinforcing strands, if present, are subject to fungus attack. Such insulations may be made fungus resistant by incorporating a fungicide in treating compounds or by the use of cellulose acetate, nylon or polyester carrier fibers and any of these plus glass as reinforcing strands.

PRESENT USES OF ASBESTOS TEXTILES AS ELECTRICAL INSULATION

By far the largest users of asbestos textiles for electrical insulation are the wire and cable manufacturers. This industry uses almost, if not all, of the asbestos lap produced; a large percentage of the roving (either as roving or as fillers) and large quantities of yarn. In addition to these textiles, the industry uses a large portion of the non-woven asbestos tapes.

Lap is the asbestos textile used in the largest poundage. This product, either alone or in combination with other insulating materials, is used as the insulation for a wide variety of wires and cables.

The lap is carded onto wires up to approximately one inch in diameter from sample carding machines in the form of an asbestos felt. After wrapping around the wire, the felt may be treated with a wide variety of compounds, depending on the end use of the wire.

A list of the standard wires, which account for the large majority of lap being used, with the insulating materials and treating compounds used, the maximum temperature and voltage ratings and principal uses are given in Table III. Two nonstandard wires are also included in this table.

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Table III

Asbestos Insulated Wire

Types	Insulating Materials	Maximum Temperature Rating °C	Maximum Voltage Rating	Principle Uses
A	Lap (Type IV Grade A or better) coated with a nonsmoking compound.	200°	300 V	Internal wiring of small electric heating appliances: as toasters, grills where excessive heat exists.
AA	Type A wire and asbestos braid (Type IV Grade A or better) finished with a nonsmoking compound.	200°	300 V	Water heaters, ranges and electric heating appliances where excessive heat and abrasion exist.
AI	Wrapped plastic film and lap (Type IV Grade U) saturated with heat-, flame- and moisture-resistant compounds (hot melt waxes).	125°	300 V	General appliance wire for internal wiring of ranges, water heaters and other major heating appliances where heat and some moisture exist.
AIA	Type AI wire and asbestos braid (Type VI Grade U) saturated and finished with heat-, flame- and moisture-resistant compounds (hot melt waxes).	125°	600 V	Same as Type AI, but where abrasion exists.
AF	Same as Type AI except slightly heavier walls of asbestos.	150°	300 V	Internal wiring of lighting fixtures and other specialized uses where heat and moisture exist.
AVA	Lap (Type IV Grade U) Varnished cloth, asbestos lap (same) braid (Type IV Grade U). All asbestos saturated with heat-, flame-, and moisture-resistant compounds (hot melt waxes). Braid finished same.	110°	600 V to 5000 V depending on insulation thickness	High-temperature power cable for boiler rooms, etc., in normal dry locations.
AVL	Same as AVA except lead sheath replaces asbestos braid.	110°	600 V to 5000 V depending on insulation thickness	High-temperature power cable where submerged or excessive condensation is present.
AVB	Lap (Type IV Class U) Varnished cloth, asbestos lap (same) cotton braid. Asbestos saturated with heat-, flame- and moisture-resistant compounds. Braid finished heat-, flame- and moisture-resistant paint.	90°	600 V	Switchboard Wire
TA	Extruded Thermosplastic (PVC) Lap (Type IV Class U) cotton braid. Asbestos saturated with heat-, flame- and moisture-resistant compounds. Braid finished with heat-, flame- and moisture-resistant paint.	90°	600 V	Switchboard Wire
HPD Heater Cord	Uncured rubber—Heavy untreated asbestos — Singles twisted — Cotton or Rayon braid.	90°	300 V	"Heater Cord" for small electrical heating appliances.

Non Standard Wires

Thermocouple Wires	Lap (Type II Class U to Class AAAA) high temperature pigmented varnishes	to above 800°	Very low	Thermocouple and Thermocouple lead wires.
Magnet Wires	Lap (Type II Class U to Class AA) high temperature pigmented varnishes.	to above 800°	Very low	Small round and rectangular motor and transformer coil wires.

The wires produced in the largest amounts are the Type AF and Type AI wires. These account for almost as much lap usage as all of the other types of wire combined.

Two or more conductor cords and cables are made from many of the above wires, often employing asbestos fillers and braids.

A cord which uses a considerable amount of lap is the so called "heater cord" Type HPD.

In this cord, untreated lap or roving is used over either a cured or uncured rubber insulation to physically separate the twisted single conductors and as a thermal insulation where the cord is joined to an electrically heated appliance.

On single wires with diameters in excess of approximately one inch (usually referred to as cables) where lap cannot be used, asbestos roving and asbestos paper tapes are used, either alone or in combination with other insulating materials. The wires produced in the large sizes are usually Type AVA or Type AVL cables.

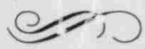
Notice that for the standard wires, the highest temperature rating is 200°C, although low voltage thermocouple wires are used in excess of 800°C.

R/M NON-ADHERING ASBESTOS SHEET—The Packing Division of *Raybestos-Manhattan, Inc.* has announced that all styles of R/M compressed asbestos sheet will now embody a non-adhesion feature thereby eliminating the need for graphite. The new built-in "anti-stick" property is imparted to both sides of the sheet and is being furnished at no extra cost. The sheet can be peeled from flanges as a result of its non-adhering character. The possibility of contamination of processing media by graphite and flange movement (with resultant leakage) caused by a slippery graphited sheet will be eliminated with the use of this anti-stick sheet. In addition, the sheet will not set up galvanic action when used with stainless steel flanges.

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Miss Edith E. Cox
Receives Asbestos Story Ring

ASBESTOS is pleased and proud to announce that its recently retired Editor and Publisher, Miss Edith E. Cox, has been selected as the recipient of the twelfth casting of the Asbestos Story Ring. Miss Cox was notified of this award by Carrell J. Stover, Publisher of ASBESTOS, on March 26, 1968, at a dinner in Philadelphia, honoring her upon the occasion of her retirement.



As is well known, this symbolic Ring is awarded only to those who have made special and far-reaching contributions to the Asbestos Industry over an appreciable number of years and is considered the greatest honor the Industry can confer on one of its members. The fact that Miss Cox is the first lady to be so honored is a tribute to her long, devoted service to the Industry throughout the world.

Entering the Industry in 1917 as a secretary to the late C. J. Stover, Founder of ASBESTOS, and becoming Co-Publisher of this magazine in 1922, Miss Cox became Editor in 1954 and served in that capacity until her retirement on March 31, 1968, thus completing over 50 years of service in the Asbestos Industry. Her contributions to the Industry over these years have been of inestimable value in that, through the medium of the magazine, communications among those engaged in mining, milling and processing the material into finished products have been tremendously improved on a world-wide basis.

Previous recipients of the Asbestos Story Ring, in order of presentation, are Grant V. Wilson, Ladd L. Wilson, Lorne Bain (deceased), Reuben H. Chase, Edgard M. Bolbert, Arthur F. Moore (deceased), J. A. D. Marcotte, F. L. Clayton, Klaus Rheinhold, George W. Smith and Alfred L. Penhale.

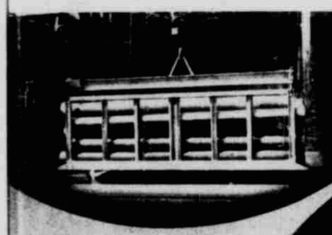
For those who are not completely familiar with the particulars of the Asbestos Story Ring, a complete explanation and description, including photographs of the Ring itself, were published in October 1955 ASBESTOS.

AUTOMATIC PLANTS TO MAKE SOCKETED PIPES

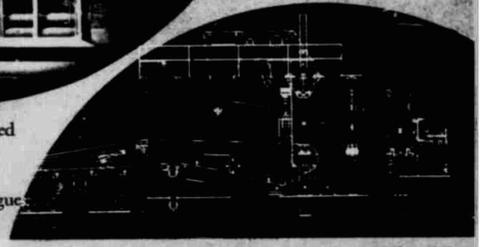


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MARKET CONDITIONS

General Business.

While general business activity continues at a high level, the United States is faced with a strictly financial crisis which can have the most serious effects on the domestic and world-wide economic situation. The Federal Reserve Board has again increased the discount rate in an effort to put a brake on inflationary trends and strongly favors passage of the 10% income tax surcharge and sharp cuts in Federal spending. While a small beginning has been made toward solution of the Vietnam problem, the end of the conflict is still far in the future so no quick cut-back in military expenditures can be expected. On the home front, the mounting pressures for increased spending on "anti-poverty" projects are such that substantial increases, rather than decreases, in spending for such purposes seem almost mandatory. The fact that this is a Presidential election year and Mr. Johnson's decision to withdraw as a candidate serve to compound the confusion in the minds of the people as to just where we are going from here. These are testing times, perhaps as severe as any in our history. It will require leadership of extraordinary acumen, courage and with the full support of the populace to face up to, and solve, our current problems.

NOTE: Beginning with this issue, ASBESTOS will publish comments on General Business each month. Comments on market conditions for raw material and for each specific category of Manufactured Goods will appear on a quarterly basis starting with the July issue, except for cases where some significant change may occur in the market for a specific Manufactured Product during the interim period. In such cases, comments on such changes will be made as they occur or when they can be predicted with reasonable certainty.

MAY 1968
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Automobile Sales

FEBRUARY 1968 motor vehicle factory sales from plants in the *United States* totaled 847,570 (passenger cars—703,239, trucks and buses—144,331). The total for February 1967 was 660,233.

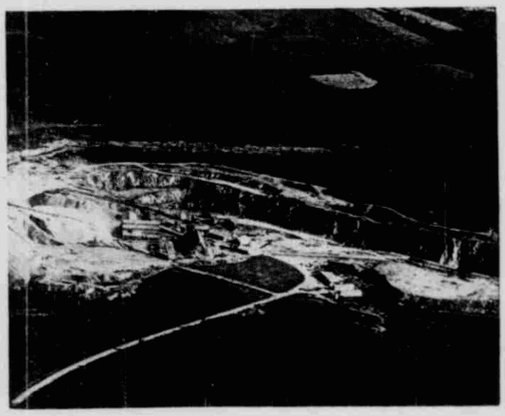
Motor vehicle factory sales from plants in *Canada* totaled 68,695 for February 1968 compared to 70,158 in February 1967.

T&N RESEARCH FELLOWS' SYMPOSIUM—A scientific symposium for past and present holders of *Turner & Newall and British Industrial Plastics Research Scholarships* was held at Droitwich, England, on April 2 and 3, 1968. It was also attended by senior research scientists from the laboratories of T&N companies in the United Kingdom and by interested professors and staff members of the Universities which award the Fellowships and Scholarships. T&N Research Fellowships, instituted in 1945, are now awarded by seven Universities (Oxford, Cambridge, London, Manchester, Newcastle, Glasgow and the University College of Bangor) from funds provided by the company, for post-graduate work in chemistry, physics, geology, mineralogy, metallurgy, applied mathematics, engineering or technology.

ASTM ANNUAL MEETING—The American Society for Testing and Materials will hold its 71st Annual Meeting and 18th Materials Testing Exhibit at the San Francisco Hilton and Sheraton Palace Hotels, San Francisco, California, June 23-28, 1968.

ASBESTOS magazine will be exhibiting some of its most recent issues in the "Commercial Reference Library" of the *Mining and Mineral Processing Equipment Show*. This Show will be held June 10-14, 1968, at the United States Trade Center for Scandinavia, in Stockholm, Sweden and will offer U.S. manufacturers and suppliers an opportunity to display their equipment to leading ore producers from Sweden and other Nordic countries.

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Building

From: McGraw-Hill Information Systems Company

MARCH 1968 contracts for future construction were valued at $5,416,532,000, 19% higher than the year-ago total. Gains were reported for all major types of construction and there was a considerably higher volume of large projects recorded for offices, apartments and utilities.

Nonresidential building contracts were valued at $1,334,787,000, a 7% increase over March 1967. Commercial building contracts rose 12% and contracts for schools and hospitals advanced more than 10%.

Residential building contract value increased to $2,720,067,000, 30% above the total last March. Contracts were up 63% in value for apartment construction and 23% for single-family housing.

Nonbuilding construction projects totaled $1,361,678,000, a 21% increase over March 1967. Three electric power projects accounted for nearly $300-million and a normal flow of highway construction was valued 30% above the sharply curtailed volume contracted for this time last year.

FIRST QUARTER 1968: Nonresidential, $4,417,347,000, up 3%; Residential, $5,161,343,000, up 34%; Nonbuilding, $3,205,259,000, up 21% — Total Construction, $12,783,949,000, up 18%.

THE PRODUCERS' COUNCIL has developed and approved a project for the study of *"Building Materials Usage in Non-Residential Construction"*. The objective of this study is to develop information that building materials manufacturers can use on a continuing basis to develop market potential data on products and market segments of specific interest. A specific objective will be to determine the types and quantities of building materials used in new non-residential construction and high-rise apartment construction and to develop consistent usage factors per 1,000 square feet of floor for each material in principal end-use applications.

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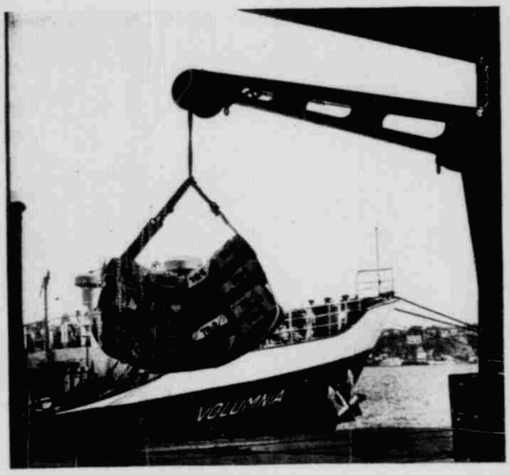


The Bauer Bros. Co./Bauer International
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NORAMITE/CAPOTHANE PANEL has been announced by the Reinforced Plastics Division of *Cape Insulation Limited* as a new product which is a rigid polyurethane slab faced on both sides with Noramite Amosite Mat. The Noramite Mat is applied during the continuous manufacturing process of the polyurethane. The method takes full advantage of the natural adhering properties of the foam which partially enters the mat thus forming an excellent bond. Polyester, or other thermosetting resins, can then be applied directly to the mat. One of the advantages to the laminator is the improvement achieved in the thermal conductivity of the polyurethane. It is generally accepted that although the thermal conductivity of a rigid polyurethane foam at the time of manufacture is .11 Btu/hr/ft²/in/°F, air penetration over a period of weeks reduces this figure to about .15 Btu/hr/ft²/in/°F. The impermeable surface provided at the time of manufacture by the Noramite laminate on both sides prevents this penetration and the original thermal conductivity of the polyurethane foam is maintained.

THE AC/M MAGAZINE, published in English in Turin, Italy, and devoted to the industries of cement, asbestos-cement, concrete and asbestos has completed one year of publication with its eighth issue. It is interesting to note that the magazine sponsors a student research program on asbestos-cement technology at the University of Bradford, England. This program is supervised by Professor C. B. Wilby, Head of the Civil Engineering Department and Chairman of the School of Civil Engineering. Results of this research work and methods of testing are periodically published in the AC/M.

PAPERS ON SOVIET ASBESTOS—The following papers were listed in the March-April 1968 issue of the *Asbestos Bulletin*: "Zonality of Bazhenovo Asbestos Deposits", "New Data on the Localization of Chrysotile Asbestos Deposits in the Bazhenovo Formation", "Holmquistite-Asbestos from the Asov Sea Region" and "Utilization of Wastes from the Semipalatynsk Asbestos-Cement Tile Factory".



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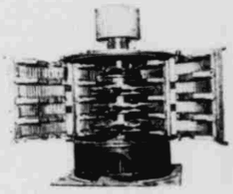
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- Rotary Aspirators
- Mechanical Separators
- Rotary Dryers
- Fibre Fluffers
- Quebec Standard Testing Machines
- Screens
- Pressure Packers
- Screw Graders
- Fibre Samplers
- Automatic Motor Bases



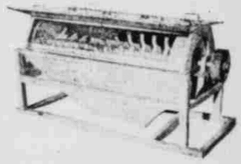
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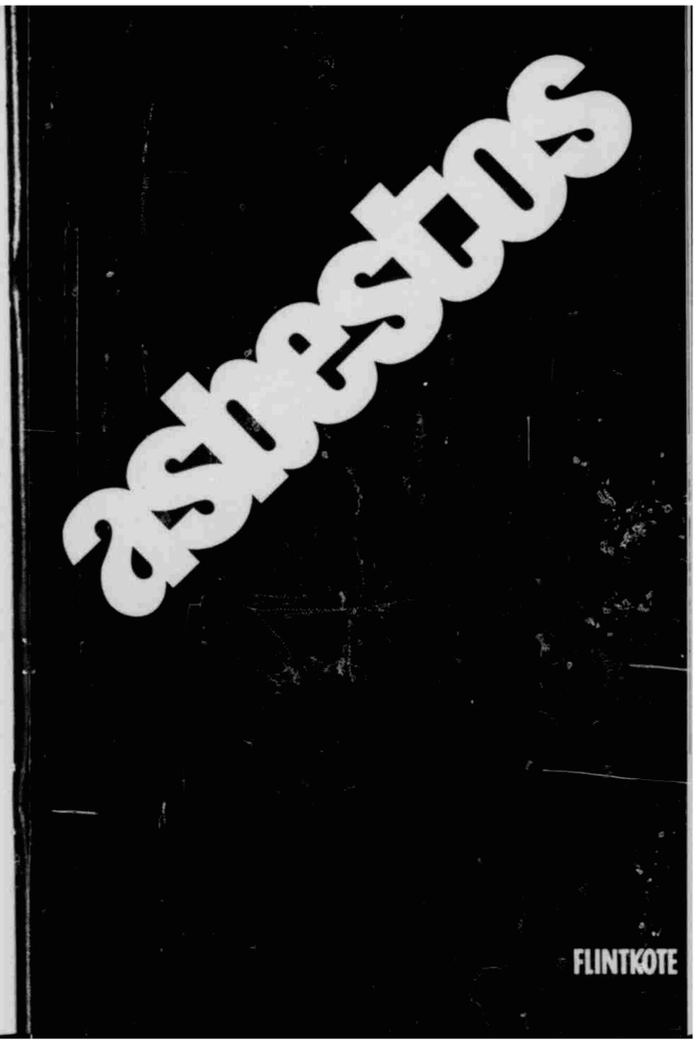
Exports From U.S.A.

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

		DECEMBER 1967	
Unmanufactured Asbestos:			
Crude & Spinning Fibers	s.tons	93	$ 26,355
Non-Spinning Fibers	s.tons	2,767	406,477
Waste & Refuse	s.tons	1,548	135,557
		4,408	$ 568,389
Manufactured Asbestos Goods:			
A-C Shingles & Clapboard	Lb	1,077,567	$ 104,754
Other A-C Articles	Lb	2,398,329	248,374
Gaskets & Packing	Lb	344,136	394,959
Textiles & Yarns	Lb	628,443	153,076
Mfrs. other than Friction Materials		..	433,151
Clutch Facings, including Linings	No	185,916	163,198
Brake Linings for automotive use	Lb	614,372	388,338
Brake Linings, Other	Lb	137,058	109,773
			$ 1,995,623
		YEAR 1967	
Unmanufactured Asbestos:			
Crude & Spinning Fibers	s.tons	860	$ 238,154
Non-Spinning Fibers	s.tons	26,603	4,020,943
Waste & Refuse	s.tons	19,893	1,691,604
		47,356	$ 5,950,701
Manufactured Asbestos Goods:			
A-C Shingles & Clapboard	Lb	21,458,367	$ 1,995,599
Other A-C Articles	Lb	24,237,379	2,369,636
Gaskets & Packing	Lb	4,651,598	5,252,657
Textiles & Yarns	Lb	4,429,063	1,790,155
Mfrs. other than Friction Materials		..	4,358,148
Clutch Facings, including Linings	No	2,765,868	2,328,132
Brake Linings for automotive use	Lb	5,605,391	3,724,703
Brake Linings, Other	Lb	2,891,145	2,094,964
			$23,905,094

Australia Imports—FIRST QUARTER 1967 asbestos imports amounted to 12 230 short tons: Amosite—2,002, Chrysotile —9,375 and Other—853. (Bureau of Mineral Resources)

Australia Exports—FIRST QUARTER 1967 total for all types and grades of asbestos was 1,811 short tons. (Bureau of Mineral Resources)



Exports From Canada

(Published by Dominion Bureau of Statistics)

DECEMBER 1967

Unmanufactured Asbestos:

Short Tons

	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
United States		1,193	9,563	28,145
United Kingdom		847	5,955	4,914
South America		67	8,304	1,098
Central America & Mexico		10	1,888	363
Europe	7	673	28,902	16,726
Japan	41	648	6,944	25,647
Other Countries	3	388	12,219	3,054
	51	3,826	73,775	79,947

Total Unmanufactured Asbestos—157,599

Valued at—$20,809,000

Manufactured Asbestos Goods:

Asbestos Brake Linings & Facings	$ 32,000
Asbestos-Cement Building Materials	55,000
Asbestos Basic Products, Other	29,000
	$116,000

YEAR 1967

Unmanufactured Asbestos:

	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
United States	47	16,883	184,668	406,155
United Kingdom		6,620	58,294	45,452
South America		309	49,948	11,895
Central America & Mexico		376	26,570	4,859
Europe	65	8,868	180,826	112,214
Japan	114	2,246	28,021	76,514
Other Countries	3	1,984	87,667	31,446
	229	37,286	615,994	688,535

Total Unmanufactured Asbestos—1,342,044

Valued at—$172,398,000

Manufactured Asbestos Goods:

Asbestos Brake Linings & Facings	$ 562,000
Asbestos-Cement Building Materials	1,377,000
Asbestos Basic Products, Other	628,000
	$2,567,000

U.S.S.R. Exports—According to the March-April 1968 issue of "Asbestos Bulletin", 256,800 tons of asbestos, valued at 28.6-million rubles, were exported from the Soviet Union in 1966.

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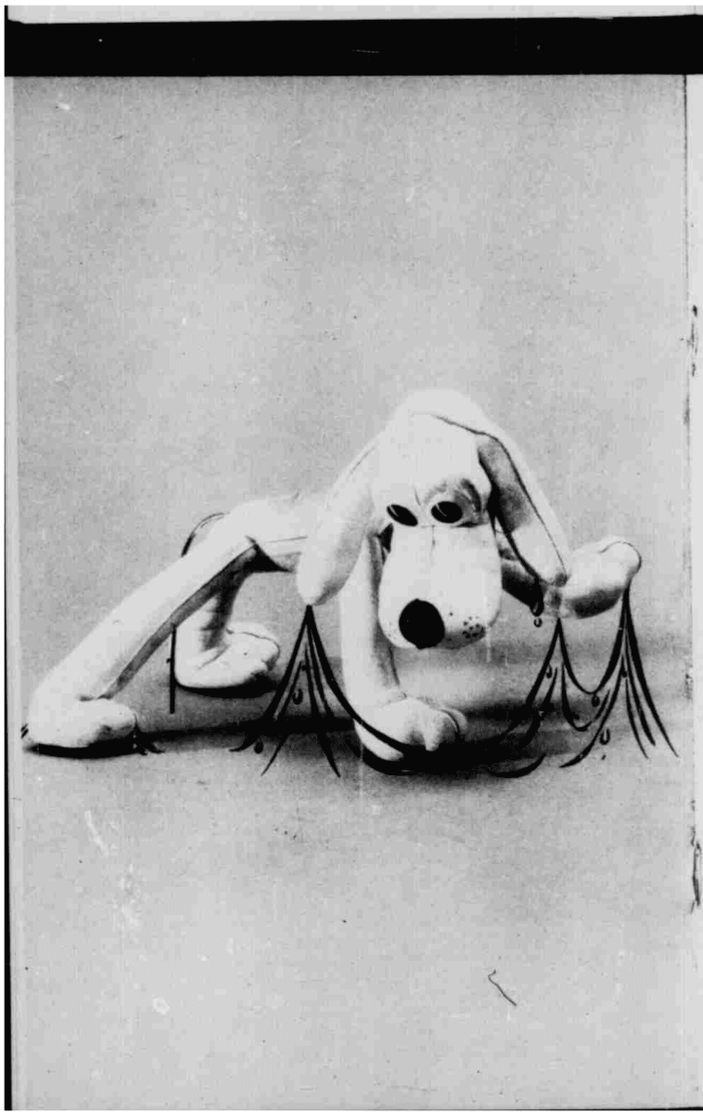
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PRODUCTION

Australia—FIRST QUARTER 1967 Chrysotile asbestos production amounted to 156 short tons (New South Wales—80 and Western Australia—76), according to the Bureau of Mineral Resources.

California—According to the April 1968 issue of Mineral Information Service, an estimated 78,000 short tons of asbestos were produced in California during 1967, valued at $6,663,000. This compares with 81,611 short tons, valued at $6,945,000, in 1966.

Canada—JANUARY 1968 asbestos production amounted to 85,014 tons (Quebec—74,788; Newfoundland, Ontario and British Columbia—10,226). This compares with the January 1967 total of 80,129. (Dominion Bureau of Statistics, Ottawa)

Australian Mineral Industry 1966 Review (including information to June 1967) has been issued by the Bureau of Mineral Resources, Geology and Geophysics, Canberra, Australia. Included in this comprehensive Review is a chapter concerning the Asbestos Industry in Australia which covers such data as production, imports, exports, consumption, production of asbestos-cement building sheets, overseas trade, world review, prices and a brief description of activity in New South Wales and Western Australia.

Yugoslavia—According to the January 1968 issue of "Asbest-Zement-Technik", new deposits of asbestos have been discovered in the Picely-Kosovska Mitrovica area of Yugoslavia. "Kosmetasbest" has planned an investment program for the purpose of opening new asbestos mines. Also, the "Petrovo Selo" asbestos mine is being modernized to increase annual production to 4,000 metric tons of 4R and to 6,000 metric tons of 7R fiber. The modernization program is expected to begin during the Spring of 1968.

Asbestos in 1967 (annual preliminary mineral industry survey of the U.S. Bureau of Mines)—Production of asbestos in the United States declined for the first time after a steady upward trend in output since 1960. The total production in 1967 of chrysotile and anthophyllite was approximately 122,000 short tons, 3% less than in 1966. However, the total value was 1% higher than in 1966. California, the leading producer, accounted for the drop in production. During the first ten months of 1967, imports for consumption of amosite, chrysotile and crocidolite were 538,759 short tons, valued at $52.3-million. Exports of unmanufactured asbestos during the same period were 40,171 tons with a value of $4.98-million. The U.S. Department of Agriculture invited United States firms to submit barter offers to deliver chrysotile asbestos valued at approximately $4.5-million to India for the Agency of International Development.

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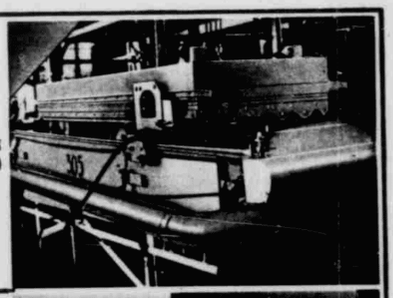
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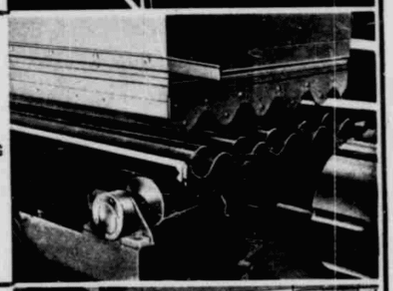
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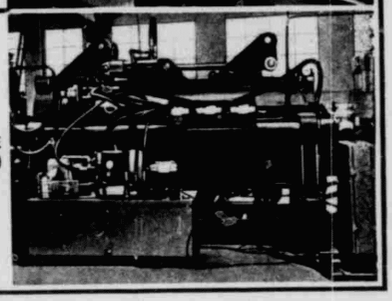
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INDUSTRY NEWS

HAPPY BIRTHDAY

R. M. Bateman, Chairman, Turner & Newall Limited, Manchester, England, May 15.
W. Vermeer, Jr., Managing Director, Chemische Productenhandel J. J. van de Vrande, Haarlem, The Netherlands, May 16.
J. R. M. Hutcheson, Operations Manager-Asbestos Fibre Division, Canadian Johns-Manville Company Limited, Asbestos, P.Q., Canada, May 17.
John J. Dempsey, President, Armor Products, Inc., New York City, May 18.
Norman L. Barr, Director, Atlas Asbestos Company, Montreal, Canada, May 19.
Kurt Schwarz, Vice President, Supradur Manufacturing Corporation, Wind Gap, Pennsylvania, May 19.
M. L. Trepanier, Plant Manager, King-Beaver Mine, Asbestos Corporation Limited, Thetford Mines, P.Q., Canada, May 19.
R. L. Johnson, Treasurer, MacArthur Company, St. Paul, Minnesota, May 20.
J. A. Goodwin, Manager, Coalinga Asbestos Company, Coalinga, California, May 21.
J. R. Owens, Deputy Managing Director, Cape Asbestos Fibres Limited, London, England, May 21.
Robert A. Schneider, Senior Consulting Engineer, Certain-teed Products Corporation, Riverside, California, May 21.
E. Gaskell, Managing Director, Cape Insulation Limited, London, England, May 22.
Charles J. Clark, Vice President, Asbestos & Magnesia Materials Company, Chicago, Illinois, May 25.
Geo. V. Hamilton, President, Geo. V. Hamilton, Inc., McKees Rocks, Pennsylvania, May 26.
Paul A. Benke, Vice President & General Manager, Thermoid Division, H. K. Porter Company, Inc., Pittsburgh, Pennsylvania, May 27.
A. J. McMullen, President, Garlock Inc., Palmyra, New York, May 27.
Henry N. Bates, Director-Administrative Services, Johns-Manville Corporation, New York City, May 28.
Kenneth M. Eden, Assistant to President, Nicolet Industries, Inc., Florham Park, New Jersey, May 28.
Edward C. Koch, Vice President, Orangeburg Manufacturing Company, division of The Flintkote Company, Orangeburg, New York, May 28.
Lionel C. Piuze, Vice President, Lake Asbestos of Quebec Limited, Black Lake, Quebec, Canada, May 30.
Frederick A. Wagner, Vice President-Administration, National Gypsum Company, Buffalo, New York, May 30.
George A. Gelish, President, Port Asbestos Insulation Company, Inc., Brooklyn, New York, June 1.



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Charles M. Wiley, Vice President, Asbestos Products, Inc., St. Paul, Minnesota, June 1.
Eugene W. Odenwaldt, Senior Vice President-Manufacturing, National Gypsum Company, Buffalo, New York, June 2.
Byron M. Snyder, Sales Manager, Pacific Asbestos Corporation, San Francisco, California, June 2.
Leo J. Bartolanzo, Treasurer, Johns-Manville Corporation, New York City, June 3.
Bert I. Bertelsen, President, Drycor Felt Company, Staffordville, Connecticut, June 3.
Harold F. Plate, Sales Manager, Carey-Canadian Mines Limited, Cincinnati, Ohio, June 3.
G. C. Scowcroft, President, Carey-Canadian Mines Limited, East Broughton Station, Quebec, Canada, June 3.
John C. Heid, Jr., Director, Manpower Development, General Aniline & Film Corporation, New York City, June 4.
F. O. Schweizer, Director, Vice-President & General Manager of Building and Industry Products Operations, Armstrong Cork Company, Lancaster, Pennsylvania, June 4.
Charles L. Sell, Purchasing Manager for Building, Industrial & Flooring Products, Corporate Purchasing Department, General Aniline & Film Corporation, New York City, June 4.
Marvin Pekovsky, Sales Promotion Manager, Floor Products Division, General Aniline & Film Corporation, New York City, June 5.
Yvan Couture, Director of Public Relations, Canadian Johns-Manville Company Limited, Asbestos, Quebec, Canada, June 6.
Leonard B. Farrell, Assistant Director of Corporate Personnel, General Aniline & Film Corporation, New York City, June 6.
Murray F. MacDonald, General Merchandising Manager, Building and Flooring Materials Divisions, Johns-Manville Corporation, New York City, June 6.
Joseph N. Yorke, Vice President—Finance, H. K. Porter Company, Inc., Pittsburgh, Pennsylvania, June 6.
M. A. F. Newton, Director, The Cape Asbestos Company Limited, London, England, June 7.
Herbert Morton Ball, Vice President, General Counsel & Secretary, Johns-Manville Corporation, New York City, June 9.
Robert F. Deerfield, Director—Market Services, General Aniline & Film Corporation, New York City, June 9.
W. B. Evans, Vice President—Marketing, Philip Carey Corporation, Cincinnati, Ohio, June 10.
Walter Fenn, Director in charge of Contract Department, Atlantic Asbestos Corporation, New York City, June 12.
G. S. Sutcliffe, Deputy Chairman, Turner & Newall Limited, Manchester, England, June 12.
A. H. Bagenstose, Vice President—Sales, Carey-Canadian Mines Limited, Cincinnati, Ohio, June 14.
A. C. Caron, Production Superintendent, Cassiar Mine, Cassiar Asbestos Corporation Limited, Cassiar, B.C., Canada, June 14.

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

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British Standard—In a recently published revision of British Standard 567 (BS567: 1968—Asbestos-Cement Flue Pipes and Fittings: Light Quality), the range of available diameters of flue pipes and fittings has been reduced by the deletion from the standard of the 3½ and 4½ inch sizes. The 2-foot length has been deleted from the range of lengths of straight pipe. The standard now covers pipes and fittings in diameters of 2, 2½, 3, 4, 5 and 6 inches. (Cost is 12 shillings each; postage is one shilling additional to non-subscribers.)

The Eighth International Mineral Processing Congress is to be held June 10-15, 1968, at the Tavrichesky Palace, Leningrad, U.S.S.R. No papers concerned with asbestos processing are scheduled for presentation at the Congress. However, the Organization Committee of the Congress has received one paper by Soviet authors concerning asbestos processing and has indicated that, should any substantial number of representatives of the Asbestos Industry attend the Congress, such representatives would be invited to organize a small seminar within the framework of the Congress to exchange ideas on developments in the beneficiation of asbestos ore.

Building Materials Seminar—The "Seminar on the Development of Building Materials" was held in Bangkok, Thailand, in January of this year. The Economic Commission for Asia and the Far East (ECAFE) organized the Seminar in cooperation with the United Nations Center for Housing, Building and Planning and the United Nations Office of Technical Cooperation. A detailed report on this Seminar has been issued and includes data on the development of asbestos-cement products in the ECAFE region. This region had imported $40-million worth of asbestos during 1965 to manufacture various asbestos products. The report points out that although asbestos-cement sheets and pipes are of great importance when planning for housing and industrial buildings, the growth of this industry in the region is slow. This is mainly due to the general nonavailability of asbestos in the countries of the ECAFE area. The Seminar considered various measures to counteract this problem including more extensive geological explorations for asbestos properties, ways to economize on the amount of asbestos used in various products, changes in import control and making use of the full capacity of existing manufacturing plants. The Seminar also noted that, in ECAFE countries, asbestos-cement pipes were gradually replacing glazed earthenware, cast iron, steel and concrete pipes.

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Carey-Canadian/Terra Nova—Carey-Canadian Mines, Limited has an option on Terra Nova Explorations Limited's asbestos property located near the Village of St. Omer, Quebec, Canada. Since December 1967, Carey has been diamond drilling a large serpentine body to determine whether or not it contains an economic deposit. Although asbestos has been found in some of the drill cores, it is too early at present to determine if the amount and concentration of asbestos is sufficient to constitute a true orebody.

A. A. Winer, Research Scientist in the Industrial Minerals Sub-Division of the Department of Energy, Mines and Resources, Ottawa, Canada, has written an interesting chapter on "*Asbestos*" which appeared as part of the "Annual Mineral Industry Review" in the February 1968 issue of the *Canadian Mining Journal*. Mr. Winer covers shipments and production of asbestos in Canada and points out that recent estimates of the free world markets for chrysotile fiber indicate increases in growth rates for the next five years. Also mentioned are brief notes on asbestos property developments, mines and manufacturing facilities in the Canadian North, the Yukon, British Columbia, Ontario and the Chibougamau district of Qu'ebec. Concerning research, Mr. Winer states that various improved methods for the handling and shipping of fiber are being investigated.



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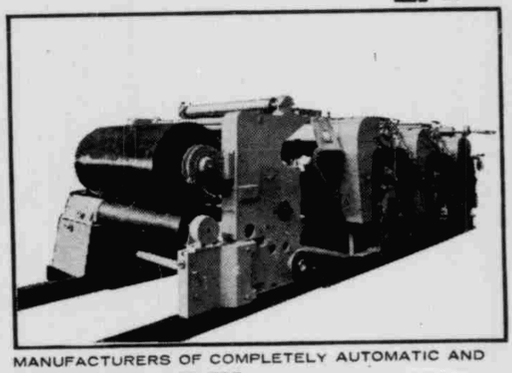
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NOTES FROM 1967 ANNUAL REPORTS

ADVOCATE MINES LIMITED

Net income of Advocate Mines Limited for the year 1967 was $1,865,561 compared with $2,506,726 in 1966. The decrease in earnings was due mainly to higher mining costs which resulted from a 23% increase in the tons of material mined. Net additions to plant and equipment amounted to $613,463.

As a result of further drilling, ore reserves at December 31 were 67,000,000 tons. This represents a satisfactory improvement in the ore position as the reserves reported at the end of 1966 were 55,000,000 tons and about 1.9-million tons of ore were mined in 1967. The value of fiber produced was $10,940,799 in 1967 against $10,803,762 in 1966.

There were 63,725 tons of A-25 fiber shipped during the year. The mill operated 303 days and produced 63,664 tons of fiber. To produce this fiber, 1,894,948 tons of ore were delivered to the crushing and drying plant giving a recovery of 3.36%. The program of shallow diamond drilling ahead of the mining faces, an intensive program of pit geological mapping and sampling and the correlation obtained with milling results were to a large extent responsible for the increase in both fiber recovery and quality of fiber produced.

ASBESTOS CORPORATION LIMITED

Net income for Asbestos Corporation Limited and its subsidiary companies for the year 1967 was $4,120,159 compared with the previous year when it stood at $5,135,055. Sales in 1967 reached $39,235,457 against $39,166,628 in 1966. Inventories were valued at $4,450,238 for stock of asbestos on hand and at $2,329,038 for materials and supplies, at cost.

All mines operated at or near capacity and the value of overall asbestos production increased by about 5%. The average daily tonnage of ore processed for all mines was 27,008. Ore reserves were calculated at year end as 161,163,000 tons (King-Beaver Mine—45,942,000, British-Canadian Mine—70,460,000, Normandie Mine—11,550,000, Asbestos Hill—18,738,000, Other Properties—14,473,000).

The *Asbestos Hill Project* has been on a care and maintenance basis pending the study of various means of bringing the property into production. Expenditures on the project during 1967 amounted to $1,770,000.

Considerable work in improving all phases of mining and milling operations was undertaken during the year. Additional heavy mining equipment was purchased for the *King-Beaver Mine* and underground development was accelerated. The mill expansion program was completed and improvements in production, quality and recovery were achieved. At the *British-Canadian* and *Normandie Mines*, production was fractionally higher in value than in 1966. At *British-Canadian*

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Plant No. 2, the aspiration and filter system was enlarged and a new tailings disposal system is now under construction to replace that which was partially destroyed by fire. Alterations with a view to further improving quality and capacity at this plant were underway by the end of the year.

Work on the development of the mineral areas in *Ugava* which envisaged a mine and mill of an initial capacity of 100,000 tons of asbestos per annum was suspended in 1967 pending the results of a further review of the scope of the project and the related costs and financing arrangements.

The company continued its activities in the field of mineral exploration, both in Canada and elsewhere, and is currently participating in five joint ventures involving asbestos, uranium and base metal prospects.

CASSIAR ASBESTOS CORPORATION LIMITED

Net profit for the year 1967 for Cassiar Asbestos Corporation Limited amounted to $4,175,185 as compared to $4,145,766 earned in 1966. Demand for all grades of asbestos fiber was good throughout the year and revenue from the sale of fiber totaled $20,845,403. A general exploration program was carried out in Northern British Columbia and the Yukon but no showings of economic interest were found.

Clinton Mine—$10,351,555 was expended on capital account on plant and equipment and $2,072,857 was spent on pre-production expense including pre-stripping in the mine. Total expenditures to date on mine plant and equipment, development, pre-production and other expenses and Transport Division equipment amounts to $24,203,660. The mill is performing up to expectations and is producing high quality, good filtering asbestos-cement fiber. The ore to date has all come from the footwall side of the orebody and it is too early to comment on the recovery. Test samples of the first fiber produced reached customers in late November. Tentative orders for 1968, covering most of the 60,000 tons planned production, have been received.

Cassiar Mine—Mine and mill equipment renewal cost $553,727 and waste stripping cost $2,801,594. The mine operated at a record production level of 92,000 tons of fiber and inventories were maintained at minimum working levels. Now that the Clinton property is in operation, production from the Cassiar Mine during 1968 will be reduced to its normal operating rate of approximately 75,000 tons of fiber per year. During the year, 1,029,474 tons of ore were mined. The mill treated 756,787 tons of ore and concentrate and produced 92,093 tons of fiber. No diamond drilling or other exploration work was done during the year and the probable ore reserves within the presently planned pit limits and to a depth of 340 feet below the lower adit are 26,000,000 tons.

Kutcho Creek Asbestos Company Limited—A limited amount of geological and geophysical work was carried out on the claims staked in 1966. Some of these claims will be retained for further investigation and some will be allowed to lapse.

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H. K. PORTER COMPANY, INC.

Net sales in 1967 for H. K. Porter Company, Inc. were $280,310,952 compared to $294,985,335 in 1966. Net income amounted to $4,274,325 compared to $7,440,090. Expenditures for plant and equipment totaled $13,853,210 during 1967 and net property, plant and equipment were valued at $58,512,177. Inventories, at lower of cost or market, amounted to $17,123,883 for raw materials and supplies, $16,977,116 for work in process and $20,073,315 for finished goods.

The *Thermoid Division* continued a program of improving products and re-equipping plants for more efficient operation. This program included phasing out and replacing of obsolete equipment, expanding existing facilities and stepping up research efforts. A prime example of the research effort was the development of rewettable asbestos lagging cloth. The Quaker Works, Philadelphia, Pennsylvania, completed a new and expanded laboratory for research and development work, quality control testing and product development for all tapes manufactured by the Division. New testing equipment was added to the Central Friction Laboratory at the Richmond Works. Other important projects initiated during the year consist of product training, the reorientation of the sales force on a regional basis, improved distribution and refurbished manufacturing facilities. One aim of the Division is to specialize product by plant.

UNITED ASBESTOS CORPORATION LIMITED

Net income for the year 1967 of United Asbestos Corporation Limited was $1,474,081 compared to $1,514,348 in 1966.

New records were established for the joint venture operation with Lake Asbestos of Quebec Limited. Production of asbestos fiber amounted to 121,479 tons and shipments reached 124,466 tons. A total of 2,311,500 tons of ore was milled. Major modifications were made to the plant in order to maintain quality standards in fiber produced. In late 1968 or early 1969, the open pit expansion program will be sufficiently completed to permit mining of the higher grade ore in the "B" orebody for which the expansion program was designed. Ore reserves now stand at some 25 year life of mine at present rate of operations. Diamond drill exploration amounted to 16,653 feet compared with 21,068 feet the previous year.

„Tropag"

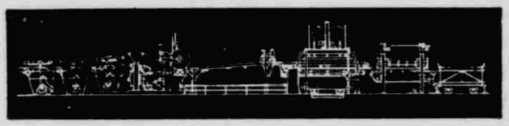
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ASBESTOS PRICES

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

(As of July 10, 1964)

No. 1 Crude	$1,410.00 to	$1,650.00
No. 2 Crude	610.00 to	900.00
AAA	..	800.00
Group No. 3 (non-ferrous filtering & spinning)	425.00 to	750.00
Group No. 4 (non-ferrous plastic & filtering)	385.00 to	500.00
Group No. 5 (plastic & filtering)	250.00 to	400.00
Group No. 7 (refuse & shorts)	58.00 to	90.00

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

(As of April 1, 1968) Canadian Currency

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

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

(As of January 1, 1968) Canadian Currency

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

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

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

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



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ASBESTOS STOCK QUOTATIONS

Close—April 30, 1968

Abex	33	GAF (pfd 1.20)	29¼
Advocate	*$2.66	Garlock	23½
Asarco	71¼	Glen-Alden	13⅞
Armstrong Cork	70⅝	G-Alden (pfd 3.15)	103
Bendix	39⅜	Gulf & Western	48⅜
Bendix (pfd 3)	66	G&W (pfd 1.75)	154¼
Cassiar	*$15.75	G&W (pfd 3.87)	81¼
Certain-teed	25⅝	G&W (pfd 5.75)	75⅛
Certain-teed (pfd .90)	26	Johns-Manville	66
Conwest	*$8.00	National Gypsum	56¼
Fiberboard	44¼	Nat. Gypsum (pfd 4.50)	77½
Flintkote	25⅞	Patino	*$19.87
F-kote (pfd-A 4.50)	82	Raybestos	60¼
F-kote (pfd-B 2.25)	38½	Unarco	11¼
F-kote (4-pfd 4)	63	Union Carbide	43⅝
GAF	21¼	Uniroyal	51⅜
		Uniroyal (pfd 8)	125⅝

*Canadian currency

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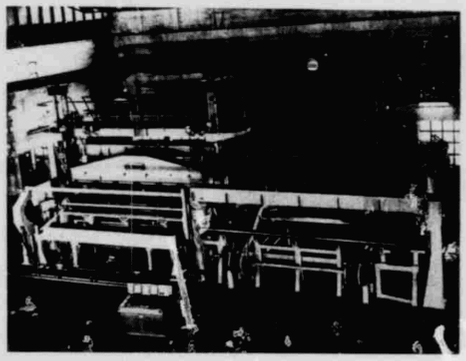
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ASBESTOS PATENTS

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

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

U.S. Patents issued from March 12 through April 9, 1968.

3,372,803—Means and Method for Removing Iron from Asbestos Ore, A. L. de Lisle & W. C. Kinnon (assigned to Chembestos Corporation, Phoenix, Arizona), March 12, 1968.

3,373,047—Material for Hot Top, H. D. Sheets & J. W. Lennon (assigned to Oglebay Norton Company, Cleveland, Ohio), March 12, 1968.

3,374,834—Soil Stabilization and Grouting Method, J. Ramos & R. F. Rensvold (assigned to Halliburton Company, Duncan, Oklahoma), March 26, 1968.

3,375,201—Silica-Gel Asbestos Compositions, M. E. Winyall, March 26, 1968.

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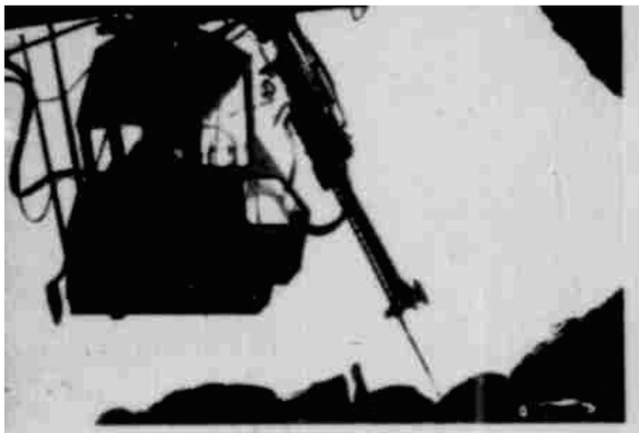
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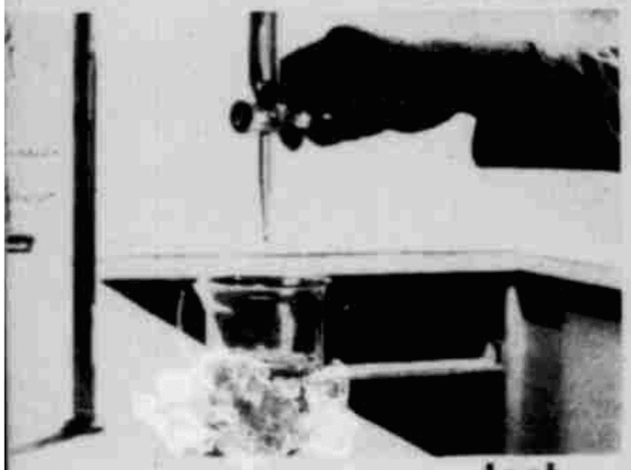
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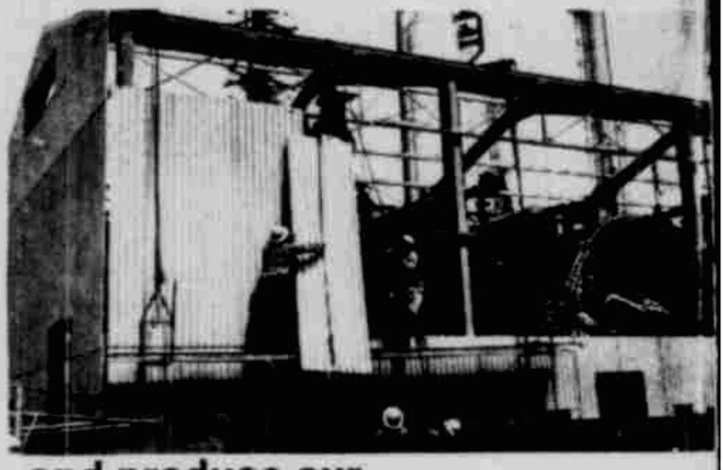
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