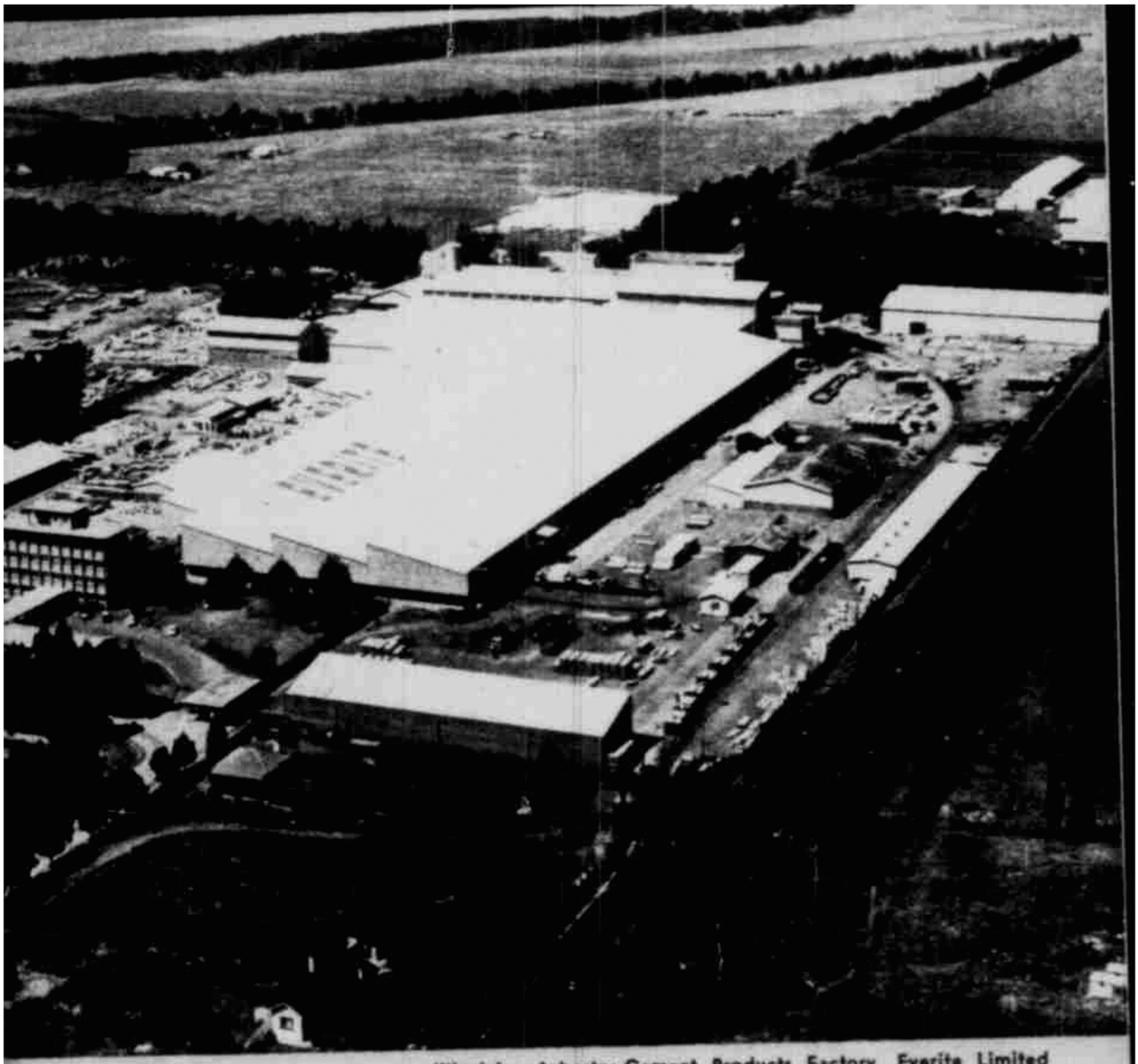


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# ASBESTOS

VOLUME 47 JUNE 1966 NUMBER 12

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## PREPARATION OF ORGANIC CARRIER FIBERS

### For Making Asbestos Textile Products

By: J. L. Tucker, Textile Consulting Engineer

(This is the second of a series of articles prepared by Mr. Tucker for discussion by readers of ASBESTOS).

For many years, prior to World War II, the predominating carrier fibers for the production of asbestos textile products were cotton, the preferred type being Peruvian cotton.

Virgin and waste cotton were used and the waste cotton was usually either from cotton mills or in the form of Cotton Card Strips. The strips from the Cotton Card were approximately 40 inches by 8-10 inches and both virgin and waste cotton, when received at an asbestos plant, were in bale form. The strips were highly contaminated with particles of leaf, seed hulls, sand and dirt. By Cotton Classification and Stapling Standards, the fibre length of Peruvian cotton was approximately 1-1/16" to 1-1/8" long, although many of the fibers were under one inch.

Just before World War II, a few asbestos textile plants had made evaluations relating to the use of Rayon as a carrier fiber. During the war all fibers were difficult to obtain, especially in the quantities desired, the qualities needed and at a consistent price.

To a limited extent, therefore, some plants utilized glass fibers as the carrier fibers. From the information available, it is believed that limited amounts of glass fibers are now being used for special applications in specific asbestos textile products.

Since the war, many types of man-made organic fibres have been produced and evaluated as carrier fibers for asbestos textiles, such as Acrylic (Orlon, Acrilan, etc.), Modacrylic (Dynel, Verel, etc.), ester Cellulose (Acelen, Estron, etc.), regenerated Cellulose (Avisco, Avril, Zantrel, etc.), Polypropylene (Herculon, Reevon, etc.), Polyamide (Nylon, Caprolan, etc.), and Polyester (Dacron, Fortrel, Kodel, etc.).







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Some of these man-made fibers are being processed so they are highly carbonaceous or graphitic in their final fibrous form. The possibilities of chemically changing the fiber composition after being made is of interest and should be the basis for the origination of textile products that have insulation value in highest temperature areas.

During the past few years, cellulose-regenerated Rayon fibers have been replacing cotton to the extent that it now appears asbestos textile plants throughout the world have placed Rayon as the dominating carrier fiber. This is possibly due to price and cleanliness.

The processing characteristics of the same types of man-made fibers differ with each producer. Each producer applies a finish or agent to the fibers as they are being produced and in some instances, during the process where the continuous length fibers are cut to a staple length. Depending on use, products and processes, the fiber or staple lengths supplied to the purchasers run from approximately one inch to four inches. Asbestos textile plants prefer 1-1/8″ to 1-9/16″ lengths.

The denier of the fibers, which has a direct relation to the fiber diameter, is available in a range from less than one, to more than a 1,000 with the 1.5 to 2.0 denier fibers being most commonly used by the asbestos plants.

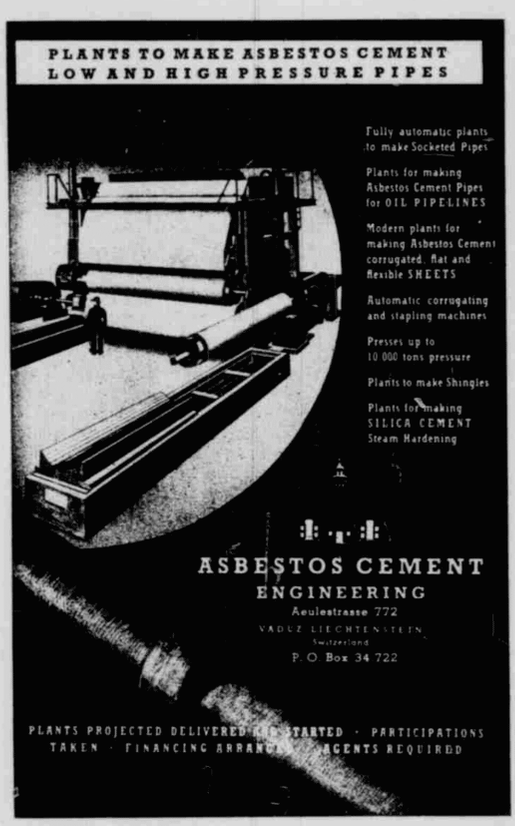
The processing characteristics make some man-made fibers of interest and value to asbestos plants but the price of these fibers limits their use to those end products that have outstanding features for which the customer will pay the necessary high rate.

Man-made waste fibers are available to asbestos plants. Although the cost of these fibers is lower, the fiber length varies considerably in each bale or package. Also, some contamination is present in various lots.

A recent comment by a representative of a fiber producing company indicated that the market for one of the man-made fibers is much greater than its present production. This situation will probably continue for at least the next three or four years.

The chief objectives of the preparatory process are to free the fibers from each other, remove the contaminates









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as much as possible, and deliver the fibers in such a state that they can be intimately mixed or blended with the asbestos fibers at the Mixing or Blending operation. (Note: In some instances, it has been possible for the fiber producer to work closely with the asbestos plant and evaluate the effect of "finishes" and various agents on the processing characteristics of the carrier fiber. Hence an important step in preparing man-made carrier fibers is to have a good "finish" on the fibers.)

Other than cotton textile plants, I know of no plant, using cotton, that checks samples of fiber from each bale for staple length, cleanliness, fiber strength and general appearance. Such information is very important and can be obtained at little expense after a system is set up.

The bales of carrier fibers should be stored in an area that has a consistent temperature and relative humidity. This may be impossible in many plants; therefore, a system should be set up that would allow the following day's requirements to be stored twenty or more hours in an area that has a temperature of 60° to 80° Fahrenheit and a humidity of 40 to 50%. Also, processing conditions would improve if several bales could be placed close to the first machine to be used in the preparatory process (extension apron, feeder, bale breaker, etc.) and the bale ties removed, letting the bales expand considerably overnight. (Some bales have expanded as much as twelve feet overnight).

Most plants are using a feeder as the first machine to receive the fiber from the bales. Some plants do not have a consistent program for the number of bales from which the operator must take a small portion of carrier fiber and not use up one bale before he uses fiber from another. The minimum number of bales from which an operator should take small slabs should never be less than four and the maximum could be as much as ten or more (including both cotton and/or man-made fibers). The more bales from which small slabs are taken and processed at approximately the same time should assist in obtaining higher production efficiencies at the following processes.

The writer prefers a Bale Breaker, rather than the unit generally referred to as a Feeder, as the first machine



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to receive fibers from the bale. The Bale Breaker is larger than a Feeder and the spike apron, feed apron, stripper roll and doffer roll in a Bale Breaker are larger and travel faster; thus, production is greater.

The fiber from the Bale Breaker is fed to a feeder or feeders, which in turn delivers fiber to a pin picker.

Cotton type feeders, as they were originally constructed, had grids under the bottom of the spike apron and grids and clean-out box beneath the doffer roll. These areas allowed contaminated cotton fibers to fall away from the good fibers. Grids are not essential when man-made fibers are being processed.

When cotton fibers are being processed, there should be grids or a perforated screen under the pin picker beater or cylinder. This is not essential when man-made fibers are being processed.

Creighton Openers or Vertical Openers are not recommended for the opening or preparing of the carrier fibers of any type.

A pin picker will damage fibers considerably if the fibers are fed directly from the bale into the feed rolls of the pin picker. To use the pin picker to greatest advantage, fiber should be in fluffy tufts while entering the rolls of the pin picker which allow the pins on the beater or cylinder to comb the fibers apart. When the fibers entering the feed rolls are dense, small or large slabs, the pins actually chew or wear the fibers apart.

When delivered from the preparatory process, the carrier fibers should be as free of each other as possible. While traveling from feeders or bale breakers, the fibers or fiber tufts should be aeriated whenever possible by mechanical means such as pin rolls, flapper or slapper rolls, or by compressed air. The fibers at all times should be moving forward, but not by means of units similar to a Creighton Opener, in either a vertical or horizontal position.

It appears as though the carrier fibers, while in a preparatory process, should not be too confined or slowed down in their forward movement to the delivery end of the preparatory process.



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# Gold Bond Asbestos Fibres: COMPLETE OVERSEAS COVERAGE BY ESTABLISHED REPRESENTATION.....

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## Everite — 25th Anniversary

Everite Limited, the largest producer of asbestos-cement products in the Republic of South Africa, celebrated its 25th Anniversary during April 1966.

From small beginnings in 1941, the company has expanded tremendously and today has three factories in operation, at Kliprivier in the Transvaal, Brackenfell near Cape Town, and East London in the Cape Province.

Everite started modestly 25 years ago with one sheet plant and is today a major industrial organization operating 9 sheet plants, 3 pipe plants and subsidiary companies have been established producing plastic products and pitch fibre pipes. Associated companies are responsible for the control of the asbestos mines from where Everite draws some of its requirements of asbestos fibre. Chiefly chrysotile and blue are used, and yearly expenditure on asbestos fibre is in the region of R2,500,000 ($3,475,000). The company's plant, machinery and equipment represent an investment of more than R12,500,000 ($17,375,000).

As a manufacturer of products which are vital to the building and allied industries and as an important consumer of raw materials and essential services, Everite is today playing an important part in South Africa's expanding economy. The company is proud of the fact that products manufactured in this country are equal in quality and performance to those marketed anywhere in the world and the Group labor force approximates 7,000 people. Currently the company is involved in a capital expenditure of some R3,000,000 ($4,170,000) covering additional equipment, installations and extensions in the existing factories and following a period of consolidation it is envisaged that one or two smaller factories in geographically suitable areas will be erected. New products presently being investigated are acoustic tiles, sandwich panels, and unit parts for prefabricators. Additionally, a study is being made for the further mechanization and automation of existing plants.

To celebrate the anniversary of the company, Mr. E. J. Schmidheiny, a leading Swiss Industralist and Financier, in his capacity as chairman of Everite, visited South Africa from Switzerland, to be present at the anniversary functions held at Kliprivier, Cape Town and East London.



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## W. E. SINCLAIR
## 1893 - 1966

We deeply regret we must advise the passing away of W. E. Sinclair, renowned authority on the Asbestos Industry. He died of a severe heart attack on May 13th, 1966.

Mr. Sinclair spent thirty years actively and continuously engaged in every aspect of the asbestos field. He spent most of his mining and engineering career up and down Africa, putting into practice the technical training received at the South African School of Mines, in Johannesburg.

In 1935, Mr. Sinclair began his active participation in asbestos, examining all varieties of asbestos deposits and the production and extraction of chrysotile and crocidolite. In 1957, he visited Canadian asbestos fields and spent five years in a consulting and advisory capacity in East Africa, Nyasaland and Rhodesia.

Mr. Sinclair has written several scientific and technical papers and many of his articles have appeared in ASBESTOS. In 1955, he compiled a comprehensive "story" of the life of asbestos which is recorded in his book "The Origin, Production and Utilization of Asbestos."

He was a Life Member of the Chemical, Metallurgical & Mining Society of South Africa, and since August 1st, 1963, had been Consulting Engineer for The Putten's Asbestos Corporation Limited.

Mr. Sinclair will be greatly missed by his many friends and associates.

---

THE COVER—In commemoration of the 25th Anniversary of Everite Limited, the front cover of June 1966 ASBESTOS carries an aerial photograph of Everite's asbestos-cement products factory at Kliprivier, Transvaal, Republic of South Africa. Everite has issued an extremely informative and well-illustrated Silver Jubilee brochure as part of its 25th anniversary celebration.




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## New J-M Asbestos Mine

Johns-Manville Corporation will develop a 5,000-acre property in Reeves Township, Ontario, Canada, as an asbestos mining and milling operation, with fiber production scheduled to start in 1968. The step is being taken at this time to help meet increasing worldwide demand for asbestos fiber.

The mine site is located 43 miles southwest of Timmins and was acquired by J-M in 1953. Survey and exploration work, completed last year, proved the long-term potential of the orebody.

Mr. C. B. Burnett, President of Johns-Manville, indicated that initial fiber production will approximate 25,000 tons a year. Mine output will be used for the manufacture of asbestos-cement products, primarily asbestos-cement water, sewer and irrigation pipe.

The company's engineering plans call for open pit mining with an adjacent milling operation to separate fibers from the ore. In 1968, the mine payroll will rise to a total of approximately 150 workers, many of whom will be residents of the area.

The Reeves Mine is located one mile from a new all-weather highway and less than ten miles from the nearest railhead.

Johns-Manville is one of the Free World's major producers of asbestos and asbestos-based products. Other asbestos mining operations are conducted at the company's Jeffrey Mine at Asbestos, Quebec; the Advocate Mine at Baie Verte, Newfoundland; and at Coalinga, California.

---

CANADIAN J-M BOOKLET—A new, easy-to-follow booklet has been made available to "do-it-yourself" fans who want to install their own ceiling tiles and panels. Produced by Canadian Johns-Manville Company Limited, manufacturers of decorative and acoustical ceiling materials, it covers four methods of installation, including suspended ceilings. "Ceilings, The Crowning Touch For Any Room" is available in both English and French from Canadian J-M ceiling tile and building material dealers across Canada.



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## Automobile Sales

MARCH 1966 motor vehicle factory sales from plants in the United States totaled 1,089,850 (passenger cars 919,758—trucks and buses 170,092). The total for March 1965 was 1,124,501. The figure for the first three months of 1966 was 2,957,503 compared to 2,967,051 for the same period of 1965.

United States motor vehicle imports for March 1966 were as follows: new passenger cars, 93,660, valued at $121,511,196; used passenger cars, 579, valued at $754,291; trucks and buses, 3,514, valued at $7,465,211; and, automotive parts valued at $52,366,427. (Automobile Manufacturers Association)

---

MARCEL COSSETTE has been appointed Director of the Quebec Asbestos Mining Association's Asbestos Fibre Testing Laboratory at the University of Sherbrooke, it was announced by M. J. Messel, President of Lake Asbestos of Quebec Limited and QAMA. Mr. Cossette was previously senior staff engineer in the product research and development department of Asbestos Corporation Limited. A specialist in asbestos fibre testing, he has served on several QAMA technical committees and has directed a range of technical studies for the Association's Uniform Classification and Grading Committee.

Established by QAMA member companies in 1961 and located on the campus of Sherbrooke University, the Laboratory conducts impartial testing of fibre, investigates fibre characteristics and develops improvements to the industry's uniform fibre classification and grading system.

---

JOHN B. McCARTY, a vice president and production manager of the pipe division of Johns-Manville Corporation, died Saturday, May 14th, 1966. Mr. McCarty was 49 years old and had been with J-M since 1939. He served in inspection and control, industrial engineering, and planning and scheduling at Waukegan, Illinois. In 1956 he became manager of the industrial insulations plant at Manville, New Jersey.



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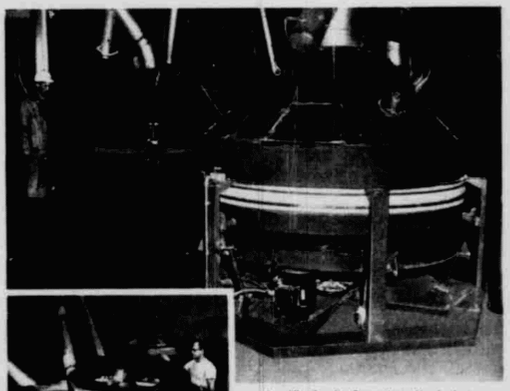

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PHILADELPHIA CHAPTER — THERMAL INSULATION SOCIETY has elected the following officers for the year 1966-1967: President—Donald E. Davis, Quaker Insulation Company; 1st Vice President—Edward F. Kenna, Hydra-Matic Packing Company; 2nd Vice President—William W. Evans, William Evans Company; Treasurer—Paul E. Lenor, Pittsburgh Plate Glass Company; and, Secretary—Francisco J. LaBarta, Owens-Corning Fiberglas Corporation.

During the 1965-1966 season, following are the speakers and their subjects at the various monthly meetings: October—Frederick Schwarz of Thalheimer & Weitz, "Aspects of Thermal Requirements in the Design of Air Conditioning Systems"; November—William C. Rion, Jr. of E. I. DuPont de Nemours & Company, Inc., "Stress Corrosion Investigations in the Thermal Insulation Field"; January—panel discussion, Walter J. Ricketts of Abbotts Dairies and Irving J. Maitin of Fruchtbaum & Maitin, "Design for Low Temperature"; February—Alvin R. Saltzman, U. S. Naval Air Development Center, Johnsville, Pennsylvania, "The Influence of Thermal Insulation on the Stability and Control of Electronic Systems"; and, April—Walter W. Heinrich of Phillips Petroleum Company, "Insulation for Low Temperature." A plant tour of Owens-Corning Fiberglas Corporation, Barrington, New Jersey, took place in March. In May a demonstration on "Foaming-in-place of Polyurethane Foam Insulation" followed a plant tour of Gray Company, Inc., by K. H. Coultrap of Pittsburgh Plate Glass, assisted by personnel of Gray Company.

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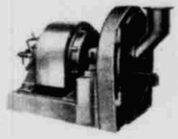


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## Building

APRIL 1966—Construction demand continued to mount during April 1966 as contracts for future buildings and other projects established new record highs. Construction contract value reached $5,097,698,000, a 7% increase over the year-ago total.

Nonresidential building contracts again provided most of the April gain, continuing the pattern set in the earlier months of 1966. The total value reported for this category was up 23% from last year's April amount reaching a new peak of $1,883,198,000. The three biggest categories of nonresidential building (commercial, manufacturing, and educational) all scored strong April-to-April gains of 20% or better. Educational building was the April standout, with a 44% increase in building contract value. Among the smaller nonresidential building types, public administration buildings posted a large gain, and religious and recreational buildings both made significant advances, although hospital contracts declined.

Residential contract value, after showing modest improvement during each of the first quarter months, slipped back in April. The $2,080,959,000 total was 3% below last year's April amount, and the number of dwelling units reported in the current month's contracts fell 8% short of the year-ago count.

Nonbuilding Construction—Electric utility construction dominated contract totals with five large projects, which added $222-million to the month's total. These few projects alone accounted for almost one-fifth of April's entire nonbuilding construction contract total of $1,133,541,000, 5% ahead of last April. The value of all utilities contracts was nearly 50% above April 1965. Contract gains were also shown for streets, highways, bridges, sewer and water systems, and airports.

FIRST FOUR MONTHS 1966: Nonresidential building $6,156,082,000 up 20%; Residential building $6,813,578,000 up 4%; Nonbuilding construction $3,845,095,000 up 8%—total construction $16,814,755,000 up 10% over the first four months of 1965. (F. W. Dodge Company, a division of McGraw-Hill, Inc.)





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| Paris, France | Compagnie Commerciale de Minerais Et Matieres Premieres |
| Duisburg, Germany | Deutsche Asbest-Gesellschaft G.M.B.H. |
| Lubeck, Germany | Possehl Erzgesellschaft |
| Calcutta, India | Expert Agency Service Private, Ltd. |
| Tel-Aviv, Israel | K. J. Deutsch |
| Tokyo, Japan | T. Kakiuchi & Company, Ltd. |
| Seoul, Korea | IHL-Hung Trading Co. |
| Haarlem, Netherlands | Chemische Productenhandel J. J. V n De Vrande |
| Auckland, C.I., New Zealand | Neill, Cropper & Company, Ltd. |
| Durban, South Africa | John Beith Pty. Limited |
| Buenos Aires, Argentina, S.A. | Will L. Smith, S.A. |
| Sao Paulo, Brazil, S.A. | Intertrade |
| Barranquilla, Colombia, S.A. | General Sales Corp. Ltda. |

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CANADIAN SPECIFICATIONS—The January 1966 edition of the Index of Specifications and Standards is now available free from the Secretary, Canadian Government Specifications Board, Department of Defense Production, Ottawa, Canada. Items included in these specifications and standards are asbestos-cement products (Commodity Group 34) and thermal insulation (Commodity Group 51).

IAI TRANSLATION—The Institute for Asbestos Information has announced the availability of one of its translation series, an article by P. I. Bozhenov entitled "*The Use of Asbestos Mining Wastes as Raw Material for the Production of Autoclaved Building Materials.*" The article describes how the cement normally used in autoclaved asbestos products may be entirely replaced by treated serpentine rock wastes.

Copies may be obtained from the Institute at 298 Rokeby Road, Subiaco, Western Australia (per copy—U.S. $2.00; 14/-sterling; Australian $1.75).


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# MARKET CONDITIONS

## General Business.

General business continues at a high rate. In many areas the step up in production of materials directly destined for the war in Vietnam, superimposed on demand for capital and consumer goods, is placing an almost unbearable load on production facilities and manpower. A slowdown in auto production, caused by decreasing sales, is thought to be at least partially due to the Congressional hearings on automotive safety. This, plus tightened credit and continued talk of a tax increase, has resulted in a severe slump in stock prices. For the first time in some years, there is talk of lower corporate earnings to come and the public seems now to be paying more attention to future earnings prospects than to past performance of corporations. There is no doubt the prices of some "glamor" stocks have been high in relation to current or future estimated earnings and the fact that money can earn 5% in "cash or equivalent" type investments as opposed to nothing at all in some of the more exotic stocks is bound to affect the pricing of such stocks.

The Vietnamese situation is highly unsettled and, in view of internal conditions in South Vietnam, it is not at all surprising that many people of our country are wondering just what we are fighting for.

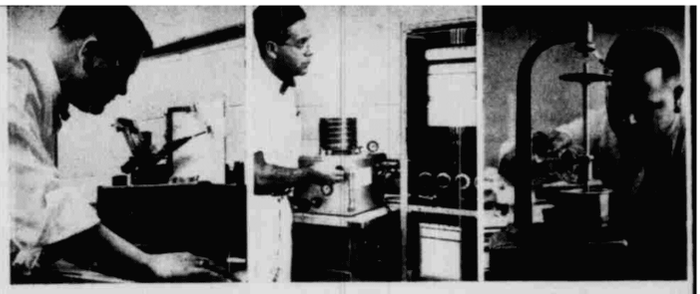
## Asbestos—Raw Material.

Quebec asbestos fibre shipments for the Industry during April 1966 totalled 120,449 tons, an increase of 14,042 tons or approximately 13% over the same period last year. Year to date shipments at 383,773 tons exceed those of 1965 by 88,343 tons or roughly 23%.

## Asbestos—Manufactured Goods.

*Asbestos Textiles.* The manufacturers of asbestos textiles continue to operate their facilities at a high level of





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production. Sales for the second quarter of 1966 have placed a heavy burden on the mills to meet delivery dates and in many instances, deliveries have had to be extended. The increase in purchases by the government, automotive and other heavy industries indicate that the high sales volume of asbestos textiles will extend well into this year's third quarter.

*Asbestos Paper.* Presently, the demand for asbestos paper is quite good and the market seems firm. This condition should continue for the rest of the year.

*Asbestos Millboard.* Millboard requirements at present are quite high. It is felt that the remainder of the year should show an increase in volume of business.

*High Pressure Insulation.* The demand for high temperature insulation at present is very good and manufacturers are working at near capacity. With the work now on the boards and to be awarded, requirements should be very strong.

*Asbestos-Cement Siding.* It is expected that the tight mortgage money situation will restrict new home building and divert customers to home improvement. This should benefit producers of asbestos-cement siding.

*Asbestos-Cement Pipes.* There is evidence of a strong demand for all types of pipe products and this situation should remain during the coming months.

*Asbestos Filter Fiber.* The market for filter fiber is steady and should remain so for the balance of the year.

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


WANTED

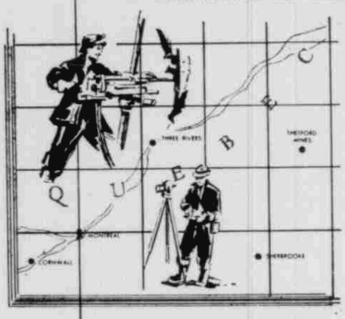
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# PRODUCTION

**Australia**—SECOND QUARTER 1965 asbestos production amounted to 3,437 short tons—Chrysotile 395 and Crocidolite 3,042 (Bureau of Mineral Resources).

**Canada**—JANUARY 1966 asbestos production amounted to 84,350 tons compared to 58,570 in January 1965. (Dominion Bureau of Statistics, Ottawa)

**Canada**—FEBRUARY 1966 asbestos production amounted to 101,834 tons compared to 72,385 in February 1965. Total for the first two months of 1966 is 186,184 compared to 130,955 for the same period in 1965. (Dominion Bureau of Statistics, Ottawa)

**Cyprus**—FIRST QUARTER 1966 production of asbestos amounted to 2,109 short tons: January—none, February—427; and, March—1,672. (Ministry of Commerce & Industry, Nicosia)

**Newfoundland/Labrador** mineral production during 1964 showed a 39.8% increase on the previous year to reach a record value of $191,922,042. In non-metallic minerals, asbestos recorded an increase of 149.9%, from 20,390 tons to 50,281. This reflects the first full year of production for Advocate Mines at its Baie Verte property. (The Northern Miner)

**République of South Africa**—The Department of Mines in Johannesburg has issued its Quarterly Information Circular containing the following statistics on asbestos: 2ND QUARTER 1965—Production totalled 60,383 short tons (Amosite—21,830, Chrysotile—9,778, Cape Blue—26,618, Transvaal Blue—2,157, Tremolite—none); 3RD QUARTER 1965—Production totalled 61,093 short tons (Amosite—20,271, Chrysotile—9,697, Cape Blue—28,922, Transvaal Blue—2,203, Tremolite—none).


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# IMPORTS & EXPORTS

## Imports Into U.S.A.

(Figures by Bureau of the Census) — JANUARY 1966

| *Unmanufactured Asbestos:* | Short Tons |
|---|---|
| Amosite, Crude, Mozambique | 40 |
| Republic of South Africa | 2,422 |
| United Kingdom | 190 |
| Crocidolite (Blue), Crude, Rep. of South Africa | 2,587 |
| United Kingdom | 1 |
| Chrysotile, Crude, Republic of South Africa | 272 |
| Yugoslavia | 785 |
| Zambia | 1,289 |
| Chrysotile Spinning Fibers, Canada | 1,530 |
| Chrysotile, Other, Canada | 58,703 |
| Italy | 2 |
| Asbestos, Other, Canada | 1,793 |
| Finland | 226 |
| Italy | 2 |
| Mozambique | 72 |
| United Kingdom | 37 |
| | 70,051 |

Valued at—$7,452,116

| *Manufactured Asbestos Goods:* | Pounds | Value |
|---|---|---|
| A-C Pipes, Tubes & Fittings | 4,246,453 | $227,363 |
| Asbestos-Cement Articles, Other | 1,391,716 | 190,296 |
| Asbestos Yarn, Sliver, Rope, etc. & other | | 150,456 |
| | | $568,115 |

FEBRUARY 1966

| *Unmanufactured Asbestos:* | Short Tons |
|---|---|
| Amosite, Crude, Republic of South Africa | 2,187 |
| United Kingdom | 17 |
| Crocidolite (Blue), Crude, Republic of South Africa | 2,794 |
| Chrysotile, Crude, Republic of South Africa | 68 |
| Other Countries | 2 |
| Chrysotile, Spinning Fibers, Canada | 908 |
| Republic of South Africa | 100 |




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| | |
|---|---|
| Chrysotile, Other, Canada | 50,954 |
| Mozambique | 50 |
| Republic of South Africa | 25 |
| Asbestos, Other, Canada | 854 |
| Finland | 237 |
| United Kingdom | 21 |
| | 58,217 |

Valued at .....$5,829,045

| *Manufactured Asbestos Goods:* | Pounds | Value |
|---|---|---|
| A-C Pipes, Tubes & Fittings | 2,062,695 | $101,072 |
| Asbestos-Cement Articles, Other | 920,246 | 116,681 |
| Asbestos Yarn, Sliver, Rope, etc. & other | .. | 89,433 |
| | | $307,186 |

---

**Australia Imports/Exports**—SECOND QUARTER 1965 asbestos imports amounted to 10,226 short tons (Amosite 1,652, Chrysotile 8,182, and Other 392). Asbestos exports amounted to 2,064 short tons for all types and grades (Bureau of Mineral Resources).

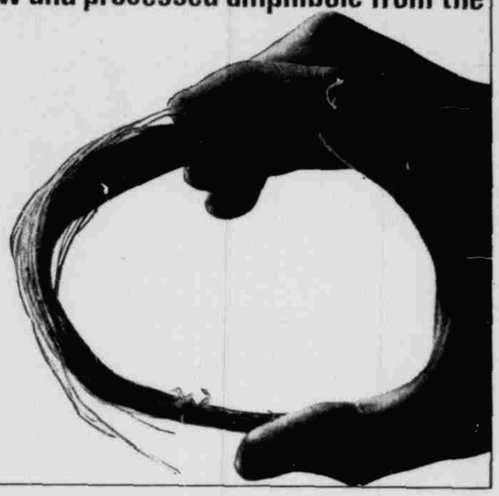
**Cyprus Exports**—FIRST QUARTER 1966 exports of asbestos totaled 3,047 long tons, valued at £129,325: January—109, £4,660; February—363, £16,400; and, March—2,575, £108,265. (Ministry of Commerce & Industry, Nicosia)

**South Africa Exports**—2ND QUARTER 1965: 50,056 short tons of asbestos were exported, valued at R5,628,382 (Amosite—18,189 valued at R1,820,502, Chrysotile—6,875 valued at R514,002, Cape Blue—22,799 valued at R3,033,091, Transvaal Blue—2,193 valued at R260,787, Tremolite—none). (Department of Mines, Johannesburg)

**South Africa Exports**—3RD QUARTER 1965: 52,853 short tons of asbestos were exported, valued at R5,987,743 (Amosite—17,648 valued at R1,770,246, Chrysotile—5,881 valued at R453,242, Cape Blue—26,683 valued at R3,453,863, Transvaal Blue—2,641 valued at R310,392, Tremolite—none). (Department of Mines, Johannesburg)




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## Exports From U.S.A.

(Figures by Bureau of the Census)

Short Tons

| *Unmanufactured Asbestos:* | DECEMBER 1965 | YEAR 1965 |
|---|---|---|
| Crude & Spinning, Canada | .. | 66 |
| Italy | 26 | 358 |
| Japan | 20 | 154 |
| Mexico | 60 | 506 |
| West Germany | 3 | 102 |
| Other Countries | 5 | 65 |
| | 114 | 1,251 |
| Non-Spinning Fibers, Belgium | .. | 88 |
| Canada | .. | 195 |
| India | 932 | 12,906 |
| Japan | 172 | 3,800 |
| Korean Republic | .. | 2,122 |
| Mexico | .. | 225 |
| Netherlands | .. | 290 |
| Viet-nam | 890 | 3,921 |
| West Germany | .. | 297 |
| Other Countries | 40 | 377 |
| | 2,034 | 24,221 |
| Waste & Refuse, Belgium | .. | 350 |
| Canada | .. | 755 |
| Colombia | 67 | 217 |
| Czechoslovakia | .. | 200 |
| India | .. | 202 |
| Japan | 2,620 | 8,180 |
| Korean Republic | 100 | 3,801 |
| Netherlands | .. | 1,634 |
| United Kingdom | 30 | 172 |
| Viet-nam | 282 | 1,573 |
| West Germany | .. | 199 |
| Other Countries | .. | 240 |
| | 3,099 | 17,523 |

December 1965 Total Unmanufactured Asbestos..5,247. valued at $454,955.

Year 1965 Total Unmanufactured Asbestos..42,995. valued at $5,270,124.

| *Manufactured Asbestos Goods:* | December 1965 | |
|---|---|---|
| A-C Shingles & Clapboard ..... | Lb. 205,689 | $ 32,552 |



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| | | | |
|---|---|---|---|
| Other A-C or Fiber-Cement Items | Lb. | 903,754 | 119,259 |
| Gaskets & Packing | Lb. | 406,476 | 500,029 |
| Textiles & Yarns | Lb. | 121,743 | 82,318 |
| Mfrs. other than Friction Materials | | .. | 321,568 |
| Clutch Facings incl. Linings | No. | 136,061 | 108,324 |
| Brake Linings | Lb. | 556,945 | 424,315 |
| | | | $1.588,365 |

Year 1965

| | | | |
|---|---|---|---|
| A-C Shingles & Clapboard | Lb. | 10,929,492 | $1,096,467 |
| Other A-C or Fiber-Cement Items | Lb. | 12,202,431 | 1,588,309 |
| Gaskets & Packing | Lb. | 3,463,197 | 4,527,617 |
| Textiles & Yarns | Lb. | 1,587,891 | 1,067,390 |
| Mfrs. other than Friction Materials | | .. | 4,388,676 |
| Clutch Facings incl. Linings | No. | 2,020,864 | 1,690,590 |
| Brake Linings | Lb. | 6,130,207 | 4,727,861 |
| | | | $19,086,910 |

JANUARY 1966

*Unmanufactured Asbestos:* Short Tons

| Crude & Spinning | | Non-Spinning Fibers | | Waste & Refuse | |
|---|---|---|---|---|---|
| Canada | 9 | Australia | 9 | Iran | 17 |
| Italy | 43 | Brazil | 57 | Japan | 648 |
| New Zealand | 5 | India | 1,163 | Korea | 650 |
| W. Germany | 46 | Japan | 371 | N. Antil | 30 |
| Other Ctys. | 1 | Korea | 444 | Mexico | 76 |
| | 104 | Mexico | 89 | Philippines | 30 |
| | | S. Africa | 4 | S. Viet-nam | 200 |
| | | Other Ctys. | 9 | Other Ctys. | 40 |
| | | | 2,146 | | 1,691 |

Total Unmanufactured Asbestos..3,941 Valued at ..$495,793

| *Manufactured Asbestos Goods:* | | Net Qty | Value |
|---|---|---|---|
| A-C Shingles & Clapboard | Lb. | 360,195 | $ 36,241 |
| Other A-C or Fiber-Cement Items | Lb. | 585,958 | 70,968 |
| Gaskets & Packing | Lb. | 311,498 | 352,854 |
| Textiles & Yarns | Lb. | 175,027 | 131,398 |
| Mfrs other than Friction Materials | | .. | 419,094 |
| Clutch Facings incl. Linings | No. | 116,189 | 131,321 |
| Brake Linings | Lb. | 508,335 | 341,642 |
| | | | $1,483,518 |



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# INDUSTRY NEWS

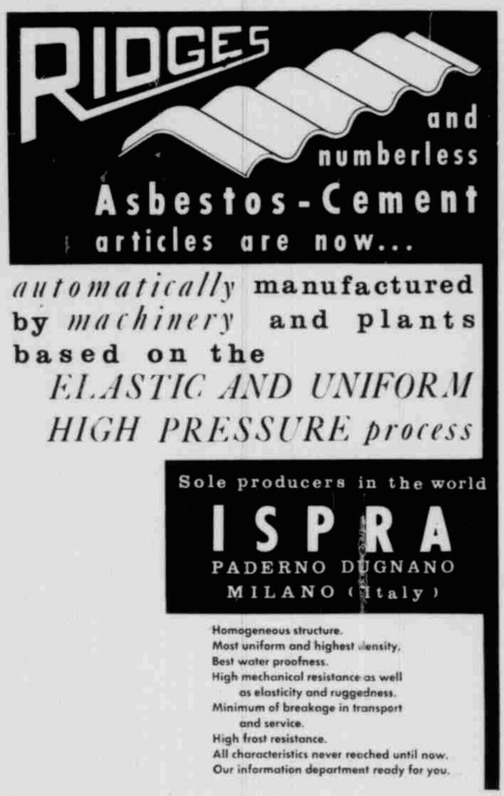
## HAPPY BIRTHDAY

Erwin C. Gutzwiller, Vice President—Manufacturing, Roofing Granule Division, The Ruberoid Co., New York City, June 20.
Ladd L. Wilson, Vice President, Nicolet Industries, Inc., Florham Park, New Jersey, June 20.
J. W. Weber, President & Treasurer, American Asbestos Textile Corporation, Norristown, Pennsylvania, June 22.
C. Branton Wheatley, President & Treasurer, Philadelphia Asbestos Corporation, Philadelphia, Pennsylvania, June 22.
Malcolm Meyer, President, Certain-teed Products Corporation, Ardmore, Pennsylvania, June 23.
F. Pearson, Managing Director, British Belting & Asbestos Limited, Cleckheaton, Yorkshire, England, June 26.
Edward F. Briggs, Vice President—J-M Sales Corp. & General Sales Manager, Johns-Manville Corp., New York, June 27.
Julien O. Heppes, Vice President & General Manager, Floor Tile Division, The Ruberoid Co., New York City, June 28.
Milton R. Maddux, Director of Purchases, The Philip Carey Manufacturing Company, Cincinnati, Ohio, June 28.
I. C. Campbell, Vice-President & Secretary-Treasurer, Asbestos Corporation Limited, Thetford Mines, Quebec, Canada, July 3.
Arthur I. Rank, Jr., President & Treasurer, Universal Insulation Company, Philadelphia, Pennsylvania, July 3.
Howard E. Walker, Director of Research, The Flintkote Company, New York City, July 5.
S. David Skinner, Vice President-Engineering, National Gypsum Company, Buffalo, New York, July 6.
C. L. Hoshaw, Manager of Insulation Technical Service & Construction, The Philip Carey Manufacturing Company, Cincinnati, Ohio, July 7.
Captain W. A. Janitch, R.E., Vice President, Asbestos Corporation Services Limited, London, England, July 10.
Alvin M. Ehret, Jr., Chairman, Baldwin-Ehret-Hill, Inc., Trenton, New Jersey, July 11.
John F. Sullivan, Jr., President & Treasurer, Asbestos & Magnesia Materials Company, Chicago, Illinois, July 13.
Carlo M. Weber, Manager, Careystone Corrugated Department, The Philip Carey Mfg. Co., Cincinnati, Ohio, July 14.

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

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**The Mineral Industry of California,** by L. E. Davis (preprint from U.S. Bureau of Mines Minerals Yearbrook 1964, 20¢)—Most of the 1964 increase in United States asbestos production occurred in California. Nearly all of the California output was short-fiber material consumed in making asbestos-cement and other asbestos building products. Pacific Asbestos Corporation resumed full scale operations late in the year at its mine and processing plant near Copperopolis in Calaveras County. Atlas Minerals Corporation and Coalinga Asbestos, Inc., produced asbestos fiber (grade 7 shorts) at mines and milling plants northwest of Coalinga in Fresno County. United States Asbestos Corporation made test runs at its new milling plant in Coalinga. Asbestos Bonding Company produced several grades of asbestos filler material at its Phoenix mine and plant near Napa. Union Carbide Nuclear Corporation recovered asbestos fiber from ore mined on company land in the southeast corner of San Benito County and processed it in its King City plant in Monterey County. A chrysotile asbestos prospect in Marin County was examined by several companies, one of which did some exploratory work. In Monterey County, Johns-Manville Corporation explored an asbestos property near Table Mountain, and American Exploration & Mining Company did some exploration at a known deposit on the Hunter-Ligget Military Reservation.





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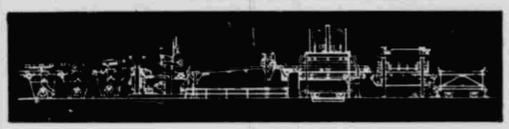
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**Alymer Mines** is negotiating to sell its asbestos prospect in Coleraine Township. (The Northern Miner)

**Abitibi Asbestos Mining Company,** a new incorporation, is to explore a 12-claim asbestos prospect in Maizerets Township in the Abitibi area of Western Quebec, Canada. (The Northern Miner)

**Golden Gate Explorations** has let a contract for 2,000 feet of diamond drilling on its asbestos prospect at Haines Junction, in Canada. (The Northern Miner)

**Advocate Mines Limited**—With two and one-half years still to run on the 750-square mile concession area surrounding its asbestos producing operation at Baie Verte, Newfoundland, Advocate is steadily pursuing an intensive program to investigate the mineral possibilities. A number of likely showings have been uncovered from time to time and officials feel a thorough test is warranted. This spring, geophysical surveys have been under way at the Yak Lake asbestos project. Small fibre bearing zones have been indicated but no continuity has been established.

**Asbestos Mines 1964**—Publication 3-1M, Province of Quebec, is the first report of a series that the Mineral Statistics Section of the Quebec Bureau of Statistics intends to publish annually. It includes statistical data of establishments primarily engaged in mining and milling asbestos fibre and classified under the sub-group 0710 by the "Standard Industrial Classification," revised: Asbestos Mines.

**Mining Statistics**—Publication 0-1M, Province of Quebec, is available from the Department of Industry and Commerce, Quebec Bureau of Statistics. This first annual report of the Mineral Statistics Section contains statistical data on production, employment and remuneration in the mineral industry for 1961, 1962 and 1963, based on information supplied by the mining companies.

**Yugoslavia**—Deposits of high-quality asbestos have been discovered at Picely, Kosovska Mitroivca, Yugoslavia. The reserve is estimated to amount to about 4.5-million tons. The firm Kosmetasbest has developed a large investment program including several plants for processing the asbestos.

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# ASBESTOS STOCK QUOTATIONS

Close—May 31, 1966

| | | | |
|---|---|---|---|
| Advocate Mines Ltd. | $4.25* | Nat. Gypsum (Com) | 30⅞ |
| Asarco | 61⅝ | Nat. Gypsum (Pfd) | 89½ |
| Asbestos Corp. | $21.88* | Pacific Asbestos | 2½ |
| Philip Carey | 37⅛ | Raybestos-Manhattan | 59 |
| Cassiar Asbestos | $15.50* | Ruberoid | 45½ |
| Certain-teed | 18 | Seagrave | 22⅝ |
| Flintkote (Com) | 17⅝ | United Asbestos | $3.30* |
| Flintkote (Pfd) | 85⅞ | U.S. Rubber (Com) | 36⅝ |
| Johns-Manville | 52¼ | U.S. Rubber (Pfd) | 157½ |

*Canadian currency

**Australian Bulletin**—"Minerals and Mineral Products" is a new monthly statistical bulletin just introduced by the Commonwealth Statistician, Bureau of Census and Statistics, West Block, Canberra, A.C.T., Australia. It contains monthly statistics of the principal minerals and mineral products produced in Australia, oversea trade of selected minerals and mineral products, relevant price data and statistics on Commonwealth Government payments to sectors of the mineral industry.


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BAIE VERTE, NEWFOUNDLAND

UNDER CONSTRUCTION:
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UNGAVA, P.Q.

1440 St. Catherine Street West, Montreal, Canada
Telephone 868-1731
Cable Address: SUNECHE Montreal

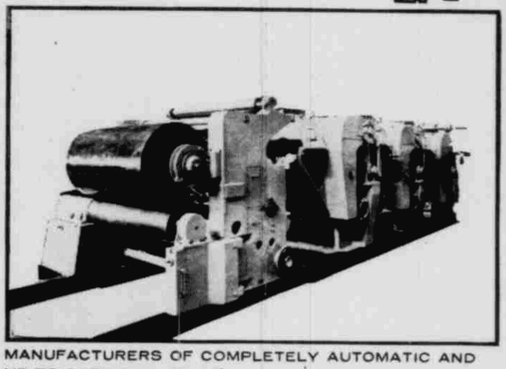




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**HYDERABAD ASBESTOS**
CEMENT PRODUCTS LTD.
PLANT MANUFACTURING DIVISION HYDERABAD-18 INDIA

# 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 January 1, 1965) Canadian Currency

| | | |
|---|---|---|
| Group No. 1 (Crude No. 1) | $ .. | $1,410.00 |
| Group No. 2 (Crude No. 2, Run of the Mine Crude, Sundry Crudes) | 640.00 to | 875.00 |
| Group No. 3 (Spinning Fibre) | 345.00 to | 565.00 |
| Group No. 4 (Shingle Fibre) | 190.00 to | 320.00 |
| Group No. 5 (Paper Fibre) | 115.00 to | 156.00 |
| Group No. 6 (Waste, Stucco or Plaster) | .. | 95.00 |
| Group No. 7 (Refuse or Shorts) | 40.00 to | 80.00 |

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

As of January 1, 1966) Canadian Currency

| | |
|---|---|
| AAA grade (non-ferrous spinning fibre) | $ 787.00 |
| AA grade (non-ferrous spinning fibre) | 625.00 |
| A grade (non-ferrous spinning—Canadian Group 3) | 470.00 |
| AC grade (asbestos cement—Canadian Group 4) | 325.00 |
| AD grade (asbestos-cement—Canadian Group 4) | 273.00 |
| AK grade (shingle fibre—Canadian Group 4) | 231.00 |
| AS grade (shingle fibre—Canadian Group 4) | 190.00 |
| AX grade (shingle fibre—Canadian Group 5) | 168.00 |
| AY grade (shingle fibre—Canadian Group 5) | 125.00 |

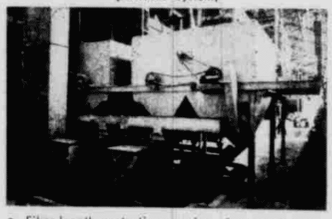
**VERMONT**— Per Ton of 2,000 lbs., f.o.b. Mine

(As of January 10, 1965) U. S. Dollars

| | | |
|---|---|---|
| Group No. 3 (Spinning & Filtering) | $ 319.00 to | $ 370.00 |
| Group No. 4 (Shingle Fibre) | 176.00 to | 296.00 |
| Group No. 5 (Paper Fibre) | 121.00 to | 144.00 |
| Group No. 6 (Waste, Stucco or Plaster) | .. to | 88.00 |
| Group No. 7 (Shorts & Floats) | 40.50 to | 75.00 |



For the beneficiation of asbestos ore,
Modern HAZEMAG Impact Crushers
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- Fiber-length protective opening of ore and crude.
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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 25, D.C., at a cost of 50 cents each. Remittance should be in coin, currency, or check, and the number(s) of the patent(s), name(s) of inventor(s), and date(s) of issue should be shown.

U.S. patents issued from April 19th through May 3rd, 1966.

3,246,374—Process for Casting Metals Into Asbestos-Containing Mold Cavity, G. W. Belcher (assigned to Union Carbide Corporation, New York City), April 9, 1966. In a process for casting molten metals in molds, the inner surfaces of the mold cavity are preheated to a temperature of above 212°F. and sprayed or brushed with an aqueous solution of a mixture of Canadian Group 7 chrysotile asbestos fiber and a particulate slag having a melting point lower than the melting point of the metal or alloy being cast.

3,246,767—Fluid-Permeable Materials and Process of Making the Same, D. B. Pall & C. A. Keedwell (assigned to Pall Corporation, Glen Cove, New York), April 19, 1966. In a method for producing microporous fluid-permeable filter materials, a cellulose paper or other porous base is treated with a dispersion of amosite asbestos fibers in a binding agent and a dispersing liquid.

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### ASBESTOS CORPORATION LIMITED

**W. W. Oughtred,** Executive Vice-President of Asbestos Corporation Limited, was elected a Director of the company at the annual meeting of shareholders. He was also appointed a member of the Executive Committee of the Board.

### THE FLINTKOTE COMPANY LIMITED

**J. H. Legh-Jones,** Managing Director of The Flintkote Company Limited, announced the following appointments effective June 1st, 1966: **A. W. Baxendale**—Company Secretary; **A. T. Hicks**—Group Accountant; and, **P. Thomas**—Assistant Company Secretary. Mr. Baxendale will be responsible to the Board under the general direction of **E. S. Webb,** the Financial and Administrative Director.

### JOHNS-MANVILLE CORPORATION

**A. B. Marchant** has been named Assistant Vice President for Industrial Relations of Johns-Manville, it was announced by C. W. Hite, Vice President for Industrial Relations. Prior to assuming this new post, Mr. Marchant had been Production Manager of the company's Building Products Division and a Vice President of J-M Products Corporation.





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# AMMANN
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**GRADE AAA GLASSBESTOS® CLOTHS**
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| R/M Style | Navy Style | Weight/Sq. Yd. | Tensile (Lbs.) Warp | Filling |
|---|---|---|---|---|
| 10P111 | 0 | 1.11 Lbs. | 90 | 70 |
| 16P140 | 2 | 1.40 Lbs. | 80 | 40 |
| 10P140 | 0 | 1.40 Lbs. | 125 | 70 |
| 10P225 | 1 | 2.25 Lbs. | 125 | 50 |

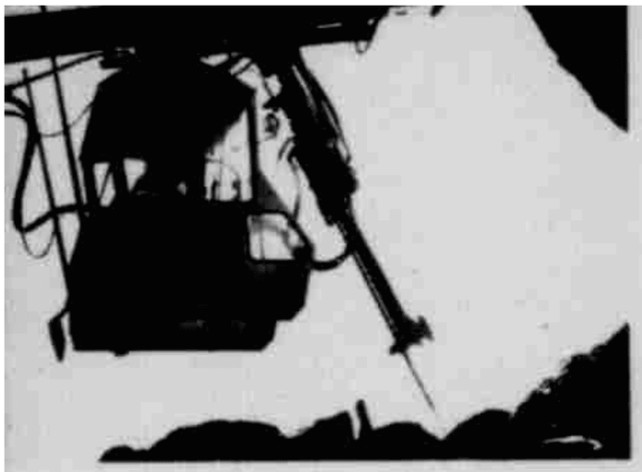
#10P111 has tensile superior to Navy style #2 with 57% cost saving, 21% weight reduction.

#10P140 tensile equals Navy style #1 with 47% lower cost, 38% weight reduction.

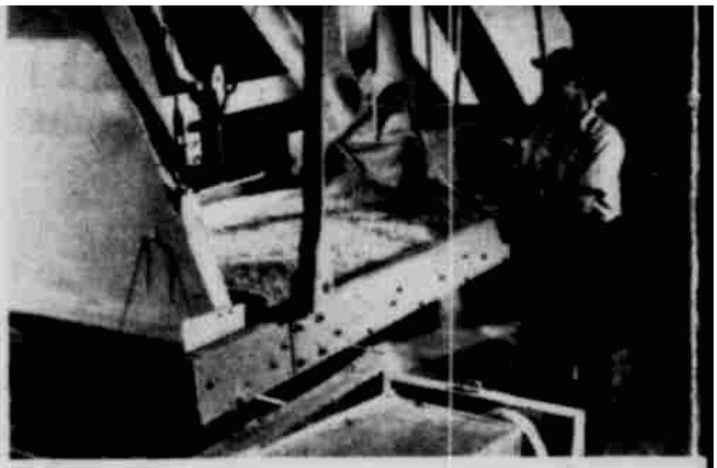
Write for complete details.

*C. G. Approval #164,009/84/0 7/9/65

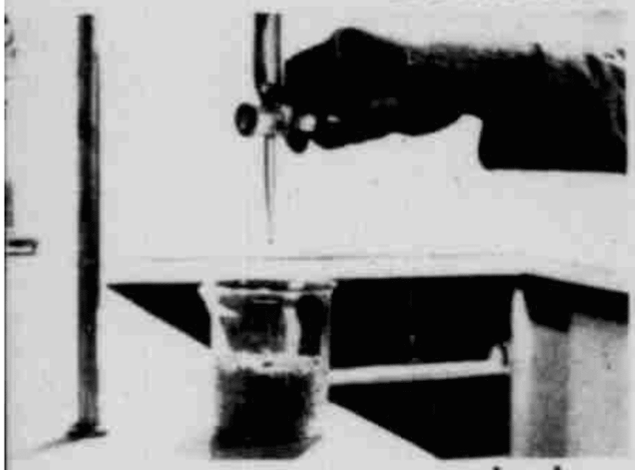
ASBESTOS TEXTILE DIVISION
**RAYBESTOS-MANHATTAN, INC.**
Manheim, Pa. 17545



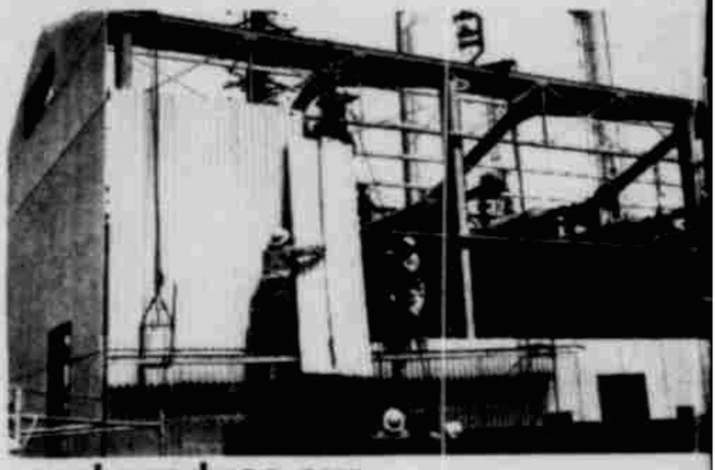
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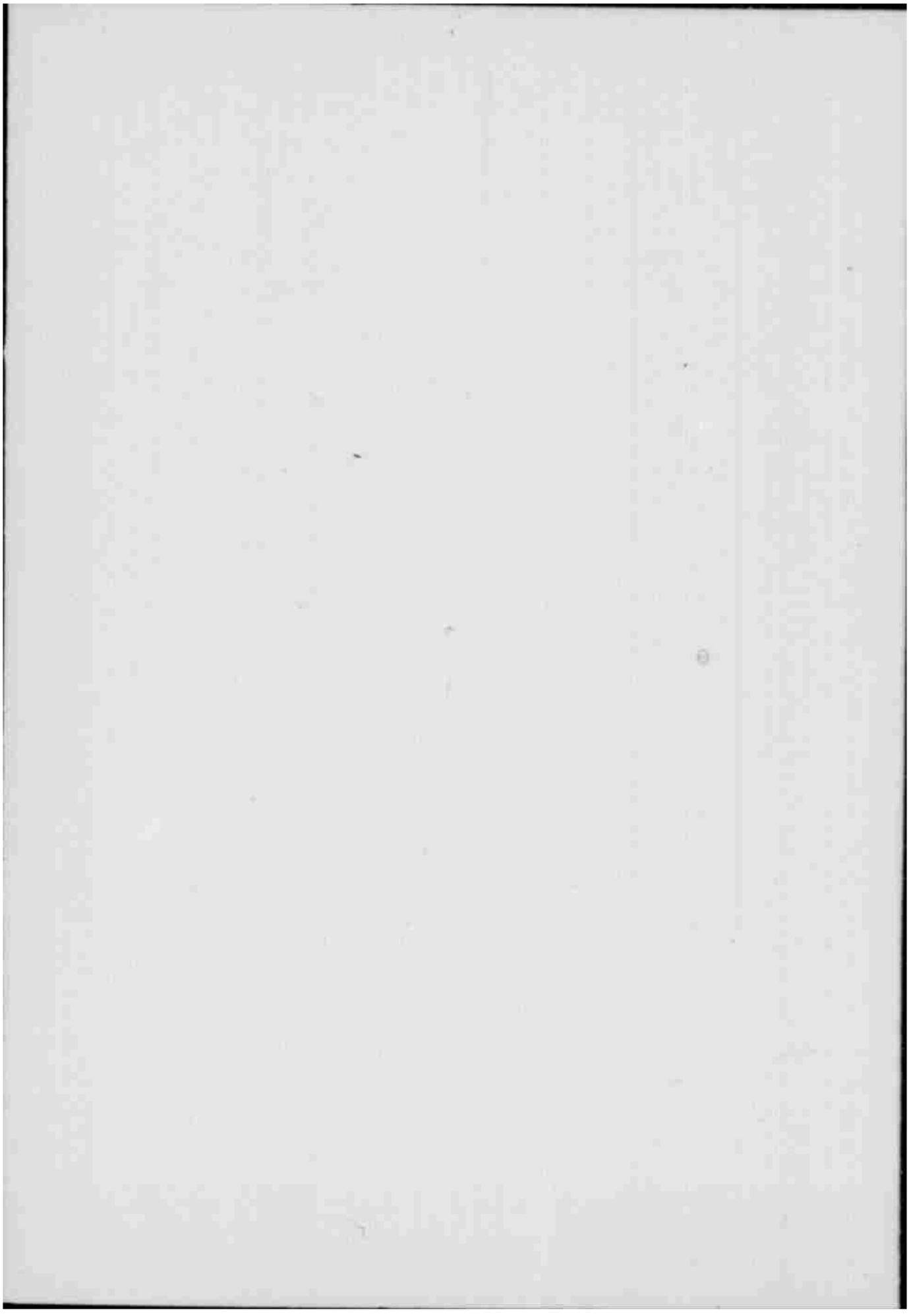
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100 MILLIMETERS

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

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

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

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


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