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ASBESTOS

VOLUME 48 NOVEMBER 1966 NUMBER 5

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MIXING ASBESTOS & ORGANIC CARRIER FIBERS

For Production of Textile Products

By: J. L. Tucker, Textile Consulting Engineer

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

There does not appear to be any standardization of the arrangement of equipment for mixing or blending asbestos and carrier fibers for the production of textile products.

These fibers can be so mixed or blended, particularly for Commercial and Underwriters' Grades, that the slivers, rovings and yarns will meet specifications relating to tensile strength, temperature resistance, flash or glow, and loose fibers, lint, etc. The same fibers can be so mixed or blended that they do not or barely meet specifications.

Recently, four samples of Underwriters' soft twist yarn were tested by means of a simple match test. One sample had flashes along the length tested, another sample had spotty flashes and two samples had no flashes, yet all four were, by standard test, of Underwriters' grade. In two samples the carrier fibers were rayon, cotton in another, and a mixture of man-made fibers in the fourth. Inspection of these yarns indicated that the carrier fibers in the sample having flash along its length had the greatest amount of tufts of carrier fibers. The two samples that were resistant to the flame appeared to have all fibers well opened and thoroughly blended.

It has been the consensus that when asbestos and carrier fibers are sufficiently opened, cleaned and mixed, the heat resistance of the end products is greatly improved, as well as efficiency of tensile strength and processing.

The higher grades of asbestos products, which have a lower percentage of carrier fibers, actually require more intimately blended fibers.

Since it is not possible to free the asbestos into individual fibers, it is necessary, by actual experience, to determine how and when asbestos and carrier fibers are sufficiently or intimately mixed with each other. Asbestos fibers can be overly processed, hence again by actual experience it must be determined whether or not the mixing process



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is correct. Results have indicated that in various lots of satisfactory or efficiently blended fibers, the asbestos portion will include many pencils of fibers.

Asbestos textile plants throughout the world are mixing or blending asbestos and carrier fibers using various combinations of machines and procedures, for instance:

(a) *Floor, Pile or Sandwich Mixing/Blending*—Based on personal experience and discussions, many plants still use this method of mixing asbestos and carrier fibers for entire production of products. Other more modernized plants use this method for producing limited amounts of specific products rather than to tie up processes that are for greater production of products. In this process, fibers are placed on the floor in layers (one layer of asbestos fiber, one layer of carrier fiber, etc.) until all fibers are in the pile. Then armsful of the sandwiched fibers are placed in trucks or carried to the cards.

(b) *Multiple Feeders and Pin Picker*—Asbestos fibers from a specific number of feeders are dropped on to a common conveyor. For best results, the feeders should be arranged so one feeder with asbestos fiber is next to a feeder with carrier fiber, etc. The common conveyor delivers the combined fibers to a larger feeder which is attached to a cotton-type pin picker. After passing through the pin picker, the fibers are placed in trucks or bins and eventually taken to the cards.

(c) *Multiple Feeders and Cotton Type Lapper Pin Picker*—The fibers are processed as above and the common conveyor carries them to a feeder attached to the Cotton Type Lapper Pin Picker, which in turn produces the mixed or blended fibers in a sheet in the required width and weight per yard and the sheet is rolled into lap form having the necessary yardage. This lap is transported directly to the cards.

(d) *Carrier Fibers and Cotton Type Lapper Pin Picker*—The carrier fibers are placed in a feeder attached to a Cotton Lapper Pin Picker and a sheet (100% carrier fiber), in lap form of required width, weight and length is produced and transported to the card where the asbestos fibers are placed on the sheet or carrier fibers going into

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the card. This procedure will be commented on in a subsequent article.

As indicated by title, the Pin Picker should have a pinned cylinder, and not a beater, that acts on the fibers as does a comb. The cylinder for this type picker is fifteen to twenty inches in diameter and has a speed of approximately 700 to 950 rpm. The pins should be round and tapered to a pin point. The maximum number of pins possible should be on the cylinder surface.

Aeriation of fibers (commented on in two previous articles) is one way of actually forcing the fibers to become intimately mixed with each other. Both asbestos and carrier fibers can be rolled into tufts if they are in the aeriating areas too long.

By actual experience, it is necessary to know how long to aeriate the fibers and the amount of air pressure required for efficient processing. Providing air is introduced by a hose or tube, the angle at which it is introduced is important.

Over the years, practically all asbestos textile plants have sprayed oils of one type or other on to the fibers before, after or while they are being mixed. This apparently was brought into the asbestos industry from woolen textile plants. The spraying of oils on wool fibers is common practice. These oils are made specifically for this purpose and are necessary after the wool fibers have been washed of their natural oils.

Man-made fibers are also sprayed or given an oil treatment while in process. The oil for these fibers is a non-static type and is used to eliminate or reduce the amount of static related with man-made fibers. Each man-made fiber producer appears to have his own oil and agents other than oils which are sprayed on to these fibers and referred to as "finish" or "finishes". Some plants have evaluated various types of finishes and fibers from the various man-made fiber producers with other types of finishes and by so doing are obtaining fibers that process most efficiently.

Based on information available, it appears that the spraying of textile-type oils on to fibers is not common

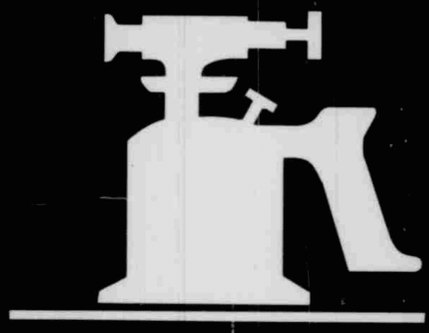
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practice in the asbestos textile industry in the United States, but is being done in other countries. Oils that have been used tend to collect on the card clothing, on or in the card, and in time effect operating conditions. The amount of oil sprayed varies from ½ per cent to two per cent of the fiber lot or batch weight.

Agents other than oils are sprayed on to special asbestos and carrier fiber mixes. These agents are generally applied to improve some characteristic in the finished product and not to improve the processing characteristics of the fibers.

FILM ON ARIZONA—"Arizona and Its Natural Resources", showing how the conservation principle has been applied to nourish the growth of a progressive western State, is a new color motion picture now available from the film library of the U.S. Bureau of Mines. The Phelps Dodge Corporation sponsored the motion picture, paid all production costs, and supplied the Bureau with prints to distribute on free short-term loan for group showings anywhere in the United States. Tracing Arizona's development, the film shows how wisdom and skill in utilizing natural resources have changed the forbidding landscape of territorial days into an area that is rich in agriculture, industry, science, and the arts. The extraction and processing of copper is carefully depicted showing in detail the advancement of the technology that has made Arizona's lean ores a major source of copper for the Nation. Scenes of other important minerals mined in Arizona, including *asbestos*, are also presented. Then the camera moves on to extend the conservation theme to other resources. State universities and extension services, and their contributions to conservation through research, are portrayed in views of scientists experimenting with new techniques in forestry and agriculture. The activities of the State's progressive universities are seen as a creative and productive influence. Evidence of Arizona's ability to capitalize on its natural advantages is given.



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ANNUAL MEETING—ATI

The Asbestos Textile Institute held its 22nd Annual Meeting on October 6th and 7th, 1966, at The Homestead, in Hot Springs, Virginia, and elected the following officers: President—John L. Rainey, American Asbestos Textile Corporation; Vice President—Edward A. Schuman, Johns-Manville Corporation; and, Treasurer—N. L. A. Martucci, Garlock Inc. H. E. Sunbury will continue to serve as Executive Secretary. The Chairmen of the working committees were continued without change, namely: W. C. Atkinson, Air Hygiene & Manufacturing; J. D. McCluer, Technical; W. S. Hough, Sales Promotion; and, J. P. Wronski, Fiber Testing. The activities of these committees were reviewed by their respective chairmen.



ATI officers (left to right)—John A. Brown, Jr., retiring president; John L. Rainey, President; Edward A. Schuman, Vice President; and, Herbert E. Sunbury, Executive Secretary. (N. L. A. Martucci, Treasurer, was not present for the photograph).

N. W. Hendry, Canadian Johns-Manville, gave an interesting review of conditions in respect to the production of various grades of asbestos fibers and current demand for same throughout the world.

Howard E. Shearer, American Viscose Division of FMC Corporation, showed photomierographic slides and discussed "Some Fiber Relationships of Interest to the Asbestos Textile Manufacturer."

As a token of appreciation for his leadership of the Institute during the past two years, retiring President John A. Brown, Jr., of Raybestos-Manhattan, Inc., was presented with a handsome "Atmos" clock.

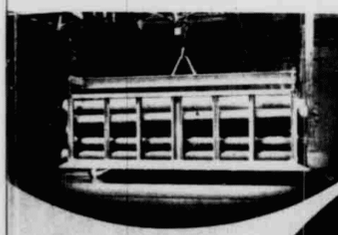
ATI MEETING—The next regular meeting of the Asbestos Textile Institute will be held February 9th and 10th, 1967, at Cherry Hill Inn, Cherry Hill, New Jersey.

AUTOMATIC PLANTS TO MAKE SOCKETED PIPES

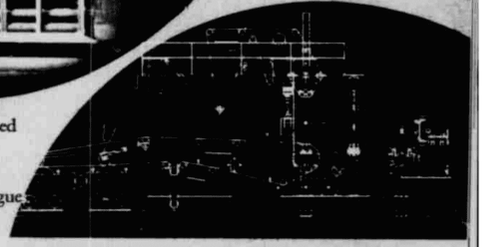


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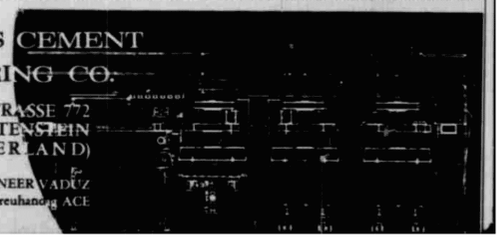


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T.I.A.C. OFFICERS/DIRECTORS—At the 4th annual meeting of The Thermal Insulation Association of Canada, September 14th through 18th, 1966, W. H. Wilson, Jr. was elected President for the year 1966-1967. He is Treasurer of The Asbestos Covering Company Limited, Vice President and Director of the Montreal Insulation Contractors Association, and one of the founding members of T.I.A.C. Other officers and directors elected were: Vice President and Director Alberta/British Columbia—J. A. Cameron of J. K. Campbell & Associates Limited; Secretary-Treasurer and Distributors' Membership Section Director—L. H. Mould of A. C. Wild Limited; Manufacturers' Membership Section Director—J. A. Morton of Atlas Asbestos Company; Director-Quebec—W. P. Marcuse of Canadian Asbestos Company; Director-Ontario—J. Watts of Applied Insulation Company Limited; Director-Ontario—D. Blackwood of Commercial & Industrial Insulation Limited, Director-Manitoba/Saskatchewan—J. N. Steel of Hilton Insulation & Supply Limited; and, Director-Maritimes — A. D. Guildford of Guildfords Limited.

NEW ASSOCIATION — Sprayed Mineral Fiber Manufacturers Association, 14 Wall Street, Room 2200, New York, New York, has been formed for the primary purpose of providing data on the latest materials and techniques in the fields of fireproofing, thermal insulation and sound control. It was brought into existence by four major producers of sprayed mineral fiber for rigid surface applications—Asbestospray Corporation, Baldwin-Ehret-Hill, Inc., Smith & Kanzler Company, and United States Mineral Products Company. The officers elected are: President—James P. Verhalen of U. S. Mineral Products, Treasurer—Herbert L. Levine of Asbestospray, Secretary—J. H. Wittkop of B-E-H, Promotion Committee Chairman—John Boland of B-E-H, and Technical Committee Chairman—Dr. Morris Leiff of Smith & Kanzler.

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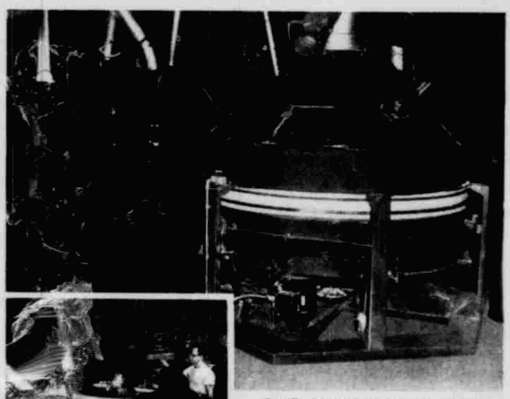
Automobile Sales

AUGUST 1966 motor vehicle factory sales from plants in the United States totaled 211,884 (passenger cars—143,763; trucks and buses—68,121). The total for August 1965 was 444,722. The total for the first eight months of 1966 was 6,692,628 compared to 7,354,142 for the same 1965 period.

United States motor vehicle imports for August 1966 were as follows: new passenger cars—47,528 valued at $59,427,912; used passenger cars—202 valued at $260,441; trucks and buses—4,977 valued at $9,070,890; and, automotive parts—valued at $36,007,802. (Automobile Manufacturers Association)

CANADIAN JOHNS-MANVILLE CO. LTD. has issued a new booklet on its line of *Chemtite Pipe*—asbestos-reinforced resinous pipe that conveys corrosive fluids at high temperatures and pressures. Available in three formulations using epoxy, phenolic or polyester resin, Chemtite is resistant to acids, alcohols, alkalies, aldehydes, amines, esters, chlorinated organics, ketones and oxidizers. It can convey corrosive fluids at temperatures ranging from –50°F to 300°F at pressures to 150 psi. The epoxy system is recommended for use to 250°F and the polyester to maximum of 200°F. The Chemtite Epoxy pipe has been approved for conveying products for human consumption by the U.S. Food and Drug Administration.

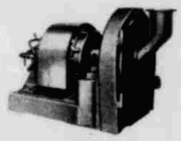
JOHN W. BROWN, Senior Vice President [illegible] National Gypsum Company, retired on November 1st, 1966, after thirty-one years with the company. Mr. Brown, one of the nation's top authorities in the building industry, began his career with National Gypsum in 1935. He has been district manager in the Dallas, Texas, sales area, general sales manager, vice president for [illegible] sales, vice president for general sales, and senior vice president for marketing. He was elected to his present position in 1959 and has also served as a member of the Board of Directors since 1955.





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Fiber Classifier. For wet classification of organic and non-organic fibers. Quebec Asbestos Mining Association has set up test methods using this unit to determine size, length, distribution and dust content of fibers.

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FIBROUS SILICATES, by A. A. Hodgson, has been published by the Royal Institute of Chemistry, London, England. The author authoritatively covers the introduction, mining and applications of asbestos, its structural, chemical and physical properties, thermal decomposition and surface properties. Dr. Hodgson is head of the Fibre Laboratory of Cape Asbestos Fibres Limited.

BRITISH STANDARD BS 4036 (Asbestos-Cement Fully Compressed Flat Sheets)—Normally used for both internal and external vertical applications in general building construction, these sheets are of a high density and have a high bending strength. Requirements specified in the standard include the composition, bending strength, density and dimensions and tolerances. Tests are given for bending strength, water absorption, frost cracking and density. Suitable test methods are given in appendices. The standard takes account of the requirements, tests and sampling procedure contained in the ISO Recommendation R396 Asbestos-Cement Flat Sheet.

IAI BOOKSHOP SERVICE—The Institute for Asbestos Information has inaugurated a postal bookshop service for publications on asbestos. Arrangements have been made to stock or have available a range of relevant titles, both current and out of print, and to offer subscriptions to certain journals (including ASBESTOS). A list of publications presently available can be obtained by sending a postal card marked "Bookshop Service" to IAI at 298 Rokeby Road, Subiaco, Western Australia.

UNIVERSAL ASBESTOS MANUFACTURING COMPANY, Watford, England, have recently expanded their asbestos-cement sheet production by erecting a new plant in Bowburn. The Piler and De-Piler for the new plant were manufactured by Messrs. Asbestos Cement Engineering Company, P.O. Box 34.722, Vaduz, Liechtenstein. The plant has already gone into production successfully.

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Building

SEPTEMBER 1966—A surge in business-related construction this month reversed the downward drift of contracting over the last several months. Although 1% below September 1965, total value of all newly contracted construction work, at $4,083,289,000, was 5% above August 1966. The September pick-up in contracting was concentrated almost entirely within the area of business capital spending, the big gains coming from manufacturing plants, office buildings, and electric power projects.

Nonresidential building contract value in September was $1,676,341,000, an increase of 15% over September 1965. In addition to the large gains in manufacturing and office building projects, educational buildings and hospitals were also ahead for the month. However, contracts for stores and public buildings declined.

Residential contracts slipped another notch in September to $1,260,756,000, putting the latest month's total 28% below the corresponding year-ago value. Both single-family homes and apartments declined further.

Nonbuilding construction contract value was ahead of the year-ago month by a strong 23% in September, for a total value of $1,146,192,000. Almost all of the gain was to be found in a single category—electric utilities.

FIRST NINE MONTHS 1966: Nonresidential $14,974,837,000 up 16%; Residential $14,658,785,000 down 10%; Nonbuilding $9,987,121,000 up 19%—total construction $39,620,743,000, up 5% over the first nine months of 1965.

1967 PREDICTION—Construction will continue its upward climb in 1967, reaching a record of $51,975,000,000 in total contract value. This expectation would represent a gain of 3% over 1966's total contracts for future construction (estimated at $50,525,000,000). It will occur during a year when the rate of Gross National Product is expected to pass $800-billion in its closing months. This picture emerged in the "Dodge Construction Outlook for 1967". (F. W. Dodge Company, a division of McGraw-Hill, Inc.)

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R/M SPECIFICATION CHART—Physical properties of Raybestos-Manhattan s *Pyrotex Felt No. 9517* are listed in a new specification chart. In laboratory tests, a ⅛-inch-thick sample proved to have a flexural strength of 20,900 psi at 700°F. for ½ hour. The chart includes data on tensile, compressive, shear, and impact strengths, water absorption, thermal conductivity, dielectric properties, and other perintent design factors. Pyrotex can be fabricated into tubes, rods, and sheets and can be machined to close tolerances.

R/M 45-RPD PYROTEX—A silicone-asbestos prepreg felt has been developed by Raybestos-Manhattan's Aerospace Division for aircraft, rocket and missile applications. When laminated, the material retains most of its properties after exposure to 700°F. for periods as long as one week. It is available in the "B" stage in roll and tape form in widths from one inch to fifty inches, contains only ASTM AAA long spinning grade chrysotile asbestos fibers, and is normally furnished with a 35 to 50% silicone resin content.

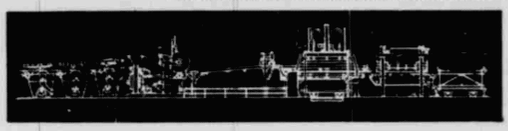
STANDARD ASBESTOS COMPANY is now doing business from its new and larger quarters at 30 Vandam Street in New York City. The company, owned by the estate of the late Herbert A. Hirschfeld, is managed by his son, Herbert S. Hirschfeld. Standard Asbestos was founded in 1914 by Frederick Hirschfeld.

NORTH AMERICAN ASBESTOS CORPORATION is located in new headquarter offices at 200 South Michigan Avenue, Chicago, Illinois 60604 (Borg Warner Building).

TESTING LAB—Supported by Quebec's eight asbestos mining companies, the six-man staff of the Fibre Testing Laboratory at Sherbrooke University seeks to develop new and better tests for fibre.

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MARKET CONDITIONS

General Business.

General business continues good but there are some signs that we may be approaching, or on, a plateau and that no change in either direction may take place for some months.

Even before the Government took action to slow down the boom in capital goods, there were signs that the boom had ended. Latest figures indicate prices for such goods are stable or dropping slightly and volume is not increasing at this time. Steel producers are experiencing a slackening of orders and anticipate lower volume in the near future. While retail sales still look good, it is pointed out that the effect of rising prices has been such that the physical volume of such sales is about the same now as it was in December, 1965. The stock market, after reaching new lows, has showed recent strength but analysts do not seem to think the 1966 Bear Market has run its course, as yet.

The construction business is still falling off and home builders, in particular, are having real problems. This, of course, affects the sales of many asbestos processors who have a large take in this market.

While very few experts have predicted a serious recession in the general economy most are now taking a "wait and see" attitude, possibly until after the elections this November. Election results could indicate a change in thinking on the part of the public which could be good or bad for general business in the months to come.

(The above monthly comments on "General Business" are related to the general condition of all business throughout the nation, not specifically or especially the Asbestos Industry.)

Asbestos—Raw Material.

Quebec asbestos fibre shipments for the Industry during September 1966 totalled 109,556 tons, a reduction of 7,914 tons or approximately 7% over the same period last year.

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Year to date shipments at 953,337 tons exceed 1965 shipments by 117,114 tons or roughly 12%.

Asbestos—Manufactured Goods.

Asbestos Textiles. The volume of sales of asbestos textiles continues to exceed earlier market forecasts. Procurements by the Government and heavy industry have made a significant contribution to this increase. With the high rate of productivity continuing, the industry is confident that the present sales momentum will carry through the year and on into 1967.

Asbestos Brake Lining. The present market situation of this material is good and this condition should remain good during the months to come.

Asbestos-Cement Siding. The amount of activity for new construction has dropped sharply and volume of modernization and maintenance work has not increased sufficiently, as yet, to offset this drop. Due to the continued shortage of mortgage money, which may last for quite a while, the new residential construction market will be much lower in volume of contracts than last year. However, this situation should increase the amount of remodeling which should, in turn, increase the volume of usage of asbestos-cement siding.

Asbestos Filter Fiber. The demand for Arizona fiber is steadily on the increase and the filter fiber market continues to be very good, especially for shorts. Volume of sales during 1966 for Arizona non-ferrous white asbestos fiber should be above the amount for last year.

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

NFPA PUBLICATIONS—"Method of Test of Surface Burning Characteristics of Building Materials" No. 255 (16 pages, 50¢) and "Standard on Water-Cooling Towers" No. 214 (28 pages, 50¢), available from the National Fire Protection Association.

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Chicago, Ill.	Chicago Firebrick Company
Cleveland, Ohio	Donald McKay Smith, Inc.
Dallas, Texas	Thompson-Hayward Chemical Company
Davenport, Iowa	Thompson-Hayward Chemical Company
Des Moines, Iowa	Thompson-Hayward Chemical Company
Detroit, Mich.	A. E. Fleming Company
Garwood, N.J.	Asbestos Corporation of America
Houston, Texas	Thompson-Hayward Chemical Company
Indianapolis, Ind.	Thompson-Hayward Chemical Company
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Winchester, Mass.	W. D. Egleston Company, Inc.

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ASBESTOS-REINFORCED PLASTIC PIPE by Robert E. Cryor, President of North American Asbestos Corporation, is a very interesting article reprinted from the August 2nd, 1965, issue of Chemical Engineering. It indicates the number of properties that make crocidolite (blue) asbestos an ideal reinforcement fiber for corrosion-resistant plasties.

ASBESTOS REINFORCED PLASTICS RESIST HEAT AND CHEMICALS, by Robert E. Cryor, President of North American Asbestos Corporation, has been reprinted from the April 1966 issue of Materials in Design Engineering. High strength fibers can economically upgrade the environmental resistance of plastic moldings and laminates. This comprehensive article is a review of available asbestos reinforcements, the plastics with which they can be used, and important properties and recommended uses.

USE OF CROCIDOLITE ASBESTOS IN REINFORCED PLASTICS has been reprinted from I&EC Product Research and Development, September 1963. This report, written by V. E. Barrable, Alexander Bennett, and A. F. Jerome, of North American Asbestos Corporation, describes the chemical and physical properties of crocidolite (blue) asbestos fiber and illustrates the manner in which these remarkable properties may be used to produce a wide range of reinforced plastic moldings and laminates. In addition to good physical and electrical properties, these products also exhibit the outstanding chemical resistance of the reinforcing fiber.

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THETFORD MINES ANNIVERSARY—From February through October 1967, Thetford Mines will celebrate its 75th birthday as a community and the 90th anniversary of the discovery there of Canada's first asbestos deposit. People in Thetford Mines—as well as those in Black Lake, Asbestos or Danville, whose histories are almost as long—have special cause for celebration. Not only has asbestos provided for almost a century the lifeblood of these towns, but indications are that with the help of the expansion projects now being undertaken by many of the mining companies, these deposits will continue to create jobs and prosperity for many years to come.

1967 PLANT ENGINEERING & MAINTENANCE SHOW will be the largest since its founding in 1950. It will be held at McCormick Place, Chicago, Illinois, January 30th through February 2nd, 1967. The accompanying conference, also set for McCormick Place, ends one day earlier. A feature of the show will be a special area, to be known as the Industrial Building Section, which will be restricted to suppliers of products and services for the heavy building industry. The annual Plant Engineering & Maintenance Executive Study Groups will be an additional event to supplement the show and conference.

Registration cards or information are available from the producers—Clapp & Poliak, Inc., 341 Madison Avenue, New York, New York 10017.

ISI STANDARD—Indian Standards Institution has published an Indian Standard Specification which specifies requirements for smooth surfaced homogeneous PVC (vinyl) asbestos floor tiles (IS:3461-1966—Rs 2.00 per copy).

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ASBESTOS FIBRE DIVISION
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*Suburb of New York City.

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PRODUCTION

Australia produced 33,439,000 square yards of asbestos-cement sheets in 1965 and 1,317,000 square yards in January 1966. The final annual total for 1964 was 31,065,000 square yards. (Preliminary figures from January 1966 "Statistical Bulletin: Minerals and Mineral Products", Canberra).

Canada—JULY 1966 asbestos production amounted to 116,626 tons compared to 109,466 in July 1965. Total for the first seven months of 1966 is 783,049 tons compared to 674,554 for the same period in 1965. (Dominion Bureau of Statistics, Ottawa).

Cassiar Asbestos Corporation has decided to raise the initial production rate of its Clinton Mine to 60,000 tons of asbestos fiber per year from 40,000 tons. The mine is to begin production early in 1968.

Campbell Chibougamau Mines Limited is exploring a group of asbestos properties in the Rapid Bay area of Lake Chibougamau, Quebec, Canada. Bulldozing to clear the ground is to be followed by diamond drilling.

World Mineral Production In 1965—According to the annual survey by the U.S. Bureau of Mines, world mineral production reached a new high in 1965. Seventeen of the 23 non-metallic minerals rose to new production highs, including asbestos. Preliminary figures for world production of asbestos reached 3,260,000 metric tons. Percentage distribution of world production of asbestos by geographic areas: North and Central America —41.9%; South America—less than 0.05%; Free Europe—3.1%; East Europe—36.9%; Free Asia—1.1%; China, North Korea and North Viet-nam—4.0%; Africa—12.7%; and, Oceania—0.3%.

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IMPORTS & EXPORTS

Imports Into U.S.A.

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

	AUG 1966	SEP 1966
Unmanufactured Asbestos:		
Amosite, Crude, South Africa	1,747	1,335
Crocidolite (Blue), Crude, South Africa	1,272	2,743
Chrysotile, Crude, Canada	20	2
South Africa	..	20
Chrysotile Spinning Fibers, Canada	1,484	951
Chrysotile, Other, Canada	58,088	49,141
Portugal	..	10
South Africa	875	..
USSR	98	..
Asbestos, Other, Canada	2,213	1,892
Finland	50	258
South Africa	775	120
United Kingdom	12	12
	66,634	56,484
August 1966 valued at	$6,114,055	
September 1966 valued at	$6,302,284	

Manufactured Asbestos Goods:	AUGUST 1966	
Asbestos Yarn, Slivers, etc. Lb	97,458	$ 62,054
A-C Pipes, Tubes & Fittings Lb	5,023,576	231,810
Asbestos-Cement Articles, Other Lb	1,379,051	104,562
Asbestos Articles, Other	..	6,743,765
		$7,142,191

	SEPTEMBER 1966	
Asbestos Yarn, Slivers, etc. Lb	141,276	$ 71,165
A-C Pipes, Tubes & Fittings Lb	6,557,251	287,257
Asbestos-Cement Articles, Other Lb	1,316,142	144,976
Asbestos Articles, Other	..	6,948,568
		$7,451,966

British imports of asbestos from Swaziland in the first seven months of 1966 have increased by R102,000 over the figure for the same period last year. British imports of asbestos for July 1966 were valued at R56,000. The cumulative total for the first seven months of 1966 was valued at R1,340,000.

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SALES AGENTS

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Sao Paulo "Brasimet" Comercio e Industria S.A.

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E. B. Taylor Company

CALIFORNIA, San Francisco
E. M. Walls Company

CANADA, Montreal
Federated Metals Canada, Ltd.

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Federated Metals Canada, Ltd.

COLOMBIA, Barranquilla
Holanda, Colombia, S.A.

COLORADO, Denver
Van Waters & Rogers, Inc.

FLORIDA, Largo
Gulf Coast Chemical Corporation

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

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

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Asarco Mexicana, S.A.

MICHIGAN, Detroit
Baker & Collinson

MINNESOTA, Minneapolis
Industrial Chemical & Equipment Co.

MISSOURI, St. Louis
Harry A. Baumstark & Company

NEW YORK, Buffalo
Buffalo Solvents & Chemicals Corp.

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

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

OREGON, Portland
Van Waters & Rogers, Inc.

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

UTAH, Salt Lake City
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Mexico—The United States supplied most of Mexico's mineral imports in 1965. The principal minerals imported, with the exception of petroleum products, were iron and steel scrap, asbestos, clays of all types, bauxite, and various unspecified minerals. (Source: Foreign Service Despatch A-1147, May 24, 1966, Mexico City—via Mineral Trade Notes, October 1966)

Exports From U.S.A.

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

		JUNE 1966
Unmanufactured Asbestos:		
Crude & Spinning Fibers .....s.tons	39	$ 13,812
Non-Spinning Fibers .....s.tons	2,347	330,622
Waste & Refuse .....s.tons	1,220	96,118
	3,606	$ 440,552
Manufactured Asbestos Goods:		
A-C Shingles & Clapboard .....Lb	986,193	$ 103,524
Other A-C Articles .....Lb	590,271	87,597
Gaskets & Packing .....Lb	309,059	444,300
Textiles & Yarns .....Lb	161,764	127,801
Mfrs other than Friction Materials	..	421,480
Clutch Facings, including Linings ....No	173,496	171,798
Brake Linings .....Lb	568,888	427,305
		$1,783,805

		JULY 1966
Unmanufactured Asbestos:		
Crude & Spinning Fibers .....s.tons	94	$ 21,508
Non-Spinning Fibers .....s.tons	3,561	490,101
Waste & Refuse .....s.tons	1,549	137,613
	5,204	$ 649,222
Manufactured Asbestos Goods:		
A-C Shingles & Clapboard .....Lb	1,658,155	$ 149,898
Other A-C Articles .....Lb	677,309	165,752
Gaskets & Packing .....Lb	390,582	402,287
Textiles & Yarns .....Lb	113,462	127,089
Mfrs other than Friction Materials	..	393,383
Clutch Facings, including Linings ....No	147,296	132,617
Brake Linings .....Lb	577,771	435,871
		$1,806,897

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Exports From Canada

(Published by Dominion Bureau of Statistics) JUNE 1966

Unmanufactured Asbestos:

Short Tons

	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
United States	..	1,057	16,286	38,828
United Kingdom	..	112	1,058	735
South America	..	..	2,758	272
Central America & Mexico	..	60	3,975	340
Europe	..	70	4,228	1,306
Japan	1	40	220	1,320
Other Countries	..	..	5,667	245
	1	1,339	34,192	43,046

Total Unmanufactured Asbestos—78,578 Valued at—$8,976,000

Manufactured Asbestos Goods:

Asbestos Brake Linings & Facings	$ 11,000
Asbestos-Cement Building Materials	112,000
Asbestos Basic Products, Other	63,000
	$ 186,000

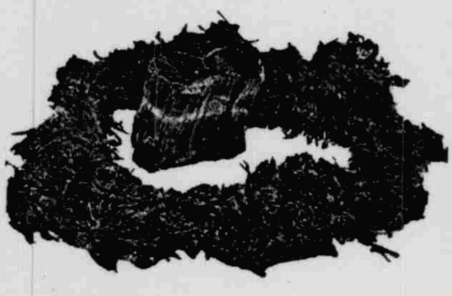
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United States of America, Yugoslavia.

In Australia, address inquiries to:—
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89 St. George's Terrace, Perth,
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INDUSTRY NEWS

HAPPY BIRTHDAY

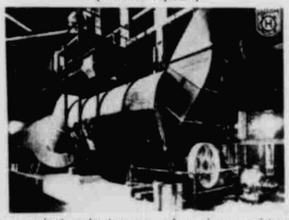
George F. Baccrich, President, Columbia Asbestos Company, Portland, Oregon, November 16.
J. J. Mangan, President & Managing Director, Hedman Mines Limited, Timmins, Ontario, Canada, November 16.
R. V. Hanslip, Vice President, Standco Industries, Inc., Houston, Texas, November 17.
Stanislaw Stachelski, Chairman, Valley Asbestos (Pty) Limited, Johannesburg, South Africa, November 19.
Donald E. Davis, Secretary, Universal Insulation Company, Philadelphia, Pennsylvania, November 20.
F. A. H. Gallop, Vice President—Building Materials, Canadian Johns-Manville Co. Ltd., Port Credit, Canada, November 20.
Thomas H. Dermody, Senior Vice President, Finance, The Ruberoid Co., New York City, November 21.
H. C. Papritz, Vice President & Treasurer, Nicolet Industries, Inc., Florham Park, New Jersey, November 21.
Marion E. Hansell, Treasurer, Philadelphia Asbestos Company, Philadelphia, Pennsylvania, November 22.
J. A. D. Marcotte, Special Assistant to the President, Asbestos Corporation Limited, Thetford Mines, Canada, November 22.
E. J. O'Leary, Chairman & President, The Ruberoid Co., New York City, November 24.
William H. Parker, General Manager, Canadian Asbestos Company, St. Laurent, Montreal, Canada, November 25.
Miles M. Wilson, Vice President, Baldwin-Ehret-Hill, Inc., Trenton, New Jersey, November 28.
John G. (Jack) Ordway, Jr., President, MacArthur Company, St. Paul, Minnesota, November 29.
Susanne Servin, Manager, Advertising Service, The Ruberoid Co., New York City, December 1.
Frank G. Ruggles, President, Frank G. Ruggles Company, Inc., New York City, December 2.
Harvey D. Burgstresser, Vice President, Achenbach & Butler, Inc., Philadelphia, Pennsylvania, December 3.
Edmund F. Gorton, General Manager, Asbestos Corporation of America, Garwood, New Jersey, December 3.
K. Fred Netter, President, Supradur Manufacturing Corporation, Wind Gap, Pennsylvania, December 3.
George H. Martens, Jr., Vice President for Marketing, Johns-Manville Corporation, New York City, December 5.
P. M. Berry, President, Standard Asbestos Manufacturing Company of Cleveland, Cleveland, Ohio, December 8.
Robert F. Orth, Vice President-Marketing & Pipe Division, Johns-Manville Corporation, New York City, December 8.
J. C. McKendry, President, Niagara Asbestos Company, Buffalo, New York, December 10.

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Frank W. R. Douglas, Chairman, The Universal Asbestos Mfg. Co. Ltd., Tolpits, Watford, Herts., England, December 11.
Algerd F. Jerome, Vice President, North American Asbestos Corporation, Chicago, Illinois, December 13.
James A. Main, Vice President, Flintkote Mines Limited, New York City, December 14.

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

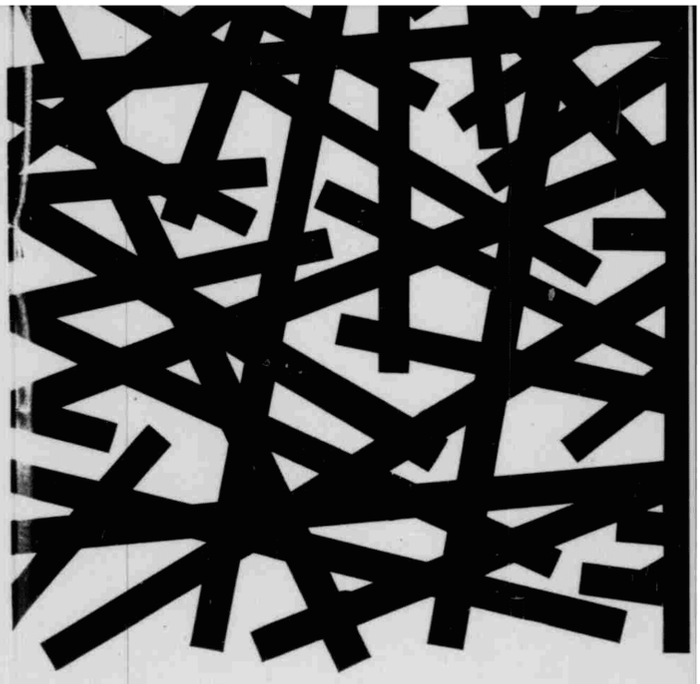
U.S./Soviet Trade Relations—As part of President Johnson's efforts to improve American relations with Russia, the U.S. Department of Commerce recently lifted controls on the export of about 400 different items to the U.S.S.R. Among the commodities freed were a number of ores, compounds and metal products, including raw asbestos. This gesture is perhaps of more symbolic than practical value, inasmuch as the items decontrolled are all regarded as non-strategic, either because they make no significant contribution to Russia's military or industrial power, or because the Soviet Union produces more than enough of the product in question to meet its own needs.

Base Minerals of South Africa, by Peter Holz, is available as a supplement to The Standard Bank Review. This very comprehensive and beautifully illustrated publication contains an informative chapter on the history and current developments of the Asbestos Industry in South Africa.

Superconcrete Pipes (S.A.) Limited, South African manufacturer of concrete pipes, poles, and lighting standards, has developed several new products which are being produced at its Rosslyn branch, in the Border Industrial Township, near Pretoria, including 5-meter lengths of asbestos-cement pressure pipes.

GEFCO—Griqualand Exploration and Finance Company Limited, Johannesburg, South Africa, has announced the appointment of CONTINENTAL ORE CORPORATION, 500 Fifth Avenue, New York City, as its exclusive agent in the United States: GEFCO is one of the world's largest miners and producers of Crocidolite (Blue) asbestos.

Universal Asbestos Mfg. Co. has appointed **Forbes Campbell (Merchant Shippers)** as its negotiating agents for East and Central Saudi Arabia, Kuwait and Bahrein. The agreement, which is expected to facilitate increased exports, concerns the whole range of asbestos-cement, pitch fiber and plastics materials marketed by U.A.M.



filtration

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Board of Trade Building · Chicago · Illinois 60604 USA · Tel: (312) 922–7435
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The Mineral Industry of Brazil, by Garn A. Rynearson (preprint from U.S. Bureau of Mines Minerals Yearbook 1964, 15¢)—Production figures for asbestos in 1964 are not available. Brazil exported 3 metric tons of asbestos construction materials in 1963, all to Paraguay. Imports in 1963 amounted to 20,206 metric tons of asbestos fiber, and 268 metric tons of asbestos construction materials.

The Mineral Industry of Australia, by Lester G. Morrell (preprint from U.S. Bureau of Mines Minerals Yearbook 1964, 15¢)—Production of chrysotile fibre and fines in 1964 amounted to 1,572 metric tons against 748 in 1963. The Comet Mine at Marble Bar, near Lionel, Western Australia, commenced operation late in 1963 and provided most of this increase. All crocidolite (blue) production was by Australian Blue Asbestos Pty. Limited, Wittenoom Gorge, Western Australia (10,954 metric tons in 1964—11,385 in 1963). Exports in 1963-1964 were 3,838 for crocidolite (principally Singapore and Japan) and 5 metric tons for other, amphibole and chrysotile (North America). Imports of asbestos during 1963-1964 amounted to 35,975 metric tons (chrysotile—25,963, crocidolite—81, amosite—6,722, other—3,209) principally from Canada, South Africa and United States. Domestic consumption of asbestos, mostly based on imports from Canada, rose in 1964 to a high level. Manufacture of asbestos cement building sheets, over 31-million square yards, was the highest on record.



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The Mineral Industry of the U.S.S.R., by Roman V. Sondermayer (preprint from U.S. Bureau of Mines Minerals Yearbook 1964, 15¢)—The preliminary figure for asbestos production was estimated at 1,150,000 metric tons for 1964 (1,050,000 in 1963). The Soviet asbestos industry had a successful year in uncovering deposits and completing new plants. Canadian technical assistance and sale of asbestos mill equipment played a role in raising output. Asbestos development was centered in an area south of Baikal, Tuva region, Kazakhstan, and in the Urals near Azbest. Exploration continued on an asbestos deposit in the Muya River basin of Bauntovskiy Aymak. Development of an asbestos mine and construction of a concentrator were scheduled to start in the remote area of Bauntovskaya Taiga in the near future. The Ak-Davurak of Tuva asbestos combine in the Tuvian region was completed in 1964. In Kazakhstan, the first stage of the Dzhetygar asbestos combine in Tselinnyy Kray was completed and the beneficiation plant started experimental production in the fall of 1964. In addition to the commissioning of the Dzhetygar combine, discoveries of asbestos deposits in Karaganda and Dzambul Oblast were announced. In the Urals, the mainstay of the Soviet asbestos industry, development of milling facilities near Azbest continued.

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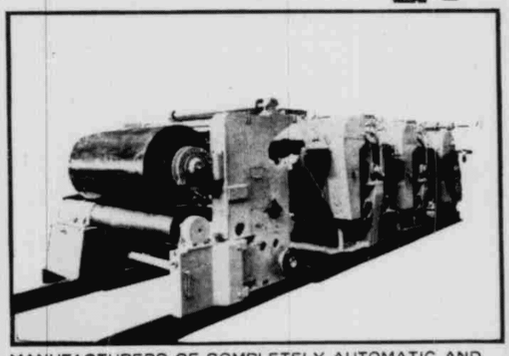
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Advocate Mines	$ 3.65*	Johns-Manville	50
Asarco	59¾	Nat Gypsum (Com)	26½
Asbestos Corp.	$19.75*	Nat Gypsum (Pfd)	83½
Philip Carey	34	Pacific Asbestos	1½
Cassiar Asbestos	$15.12*	Raybestos-Manhattan	54
Certain-teed (Com)	12½	Ruberoid	39½
Certain-teed (Pfd)	15⅝	Seagrave	16⅜
Flintkote (Com)	17¾	United Asbestos	$2.60*
Flintkote (Pfd-A)	75¾	U.S. Rubber (Com)	43⅜
		U.S. Rubber (Pfd)	145

*Canadian currency

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Geo. W. Smith has resigned as President of Bell Asbestos Mines effective October 31st, 1966, but remains on the Board in a non-executive capacity. He has served the company for 46 years and had been President since January 1952. Effective November 1st, 1966, **F. P. Smith** is now President, **R. Dodds-Hebron** is Executive Vice President and Production Manager, and **W. J. W. Smith** is Vice President and Sales Manager.

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(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)	126.00

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

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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 September 13th through October 4th, 1966.

3,274,123—Acetylene Container Filler and Method, J. P. Coyne and G. E. Haddeland (assigned to American Cryogenics, Inc., San Francisco, California), September 20, 1966. Method for forming a dimensionally stable filler in an acetylene container. Charcoal is pre-soaked in an external vessel under vacuum conditions, the pre-soaked charcoal mixed with diatomite and additional water, the mixture subjected to vacuum while a lime slurry is added thereto, and the charcoal-lime-diatomite composition admixed with an optimum proportion of suitable asbestos fibers. The resulting homogeneous mass is charged into the empty containers, and the filled containers heated at 350-375°F. to indurate the filler composition in the plurality of containers. These fillers have low density, high porosity, and good strength.

Canadian Patents—Extensive revisions and new cases to the "Patents Handbook" have prompted the issuance of a new edition. It lists all of the inventions currently available for licensing and is in loose-leaf form so that amendments may be issued from time to time. For further information, contact Canadian Patents and Development Limited, National Research Council, Building M-58, Montreal Road, Ottawa 7, Canada.

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(Act of October 23, 1962: Section 4369, Title 39, United States Code)

Publisher: File two copies of this form with your postmaster

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3. FREQUENCY OF ISSUE: monthly	
4. LOCATION OF KNOWN OFFICE OF PUBLICATION (Street, city, county, state, ZIP code): 807 Western Saving Fund Building, Philadelphia, Pennsylvania 19107	
5. LOCATION OF THE HEADQUARTERS OR GENERAL BUSINESS OFFICES OF THE PUBLISHERS (Not printers): Same	

6. NAMES AND ADDRESSES OF PUBLISHER, EDITOR AND MANAGING EDITOR

PUBLISHER (Name and address): Secretarial Service, 807 Western Saving Fund Bldg., Philadelphia, Pa.

EDITOR (Name and address): E. E. Cox, 312 South 12th Street, Philadelphia, Pennsylvania 19107

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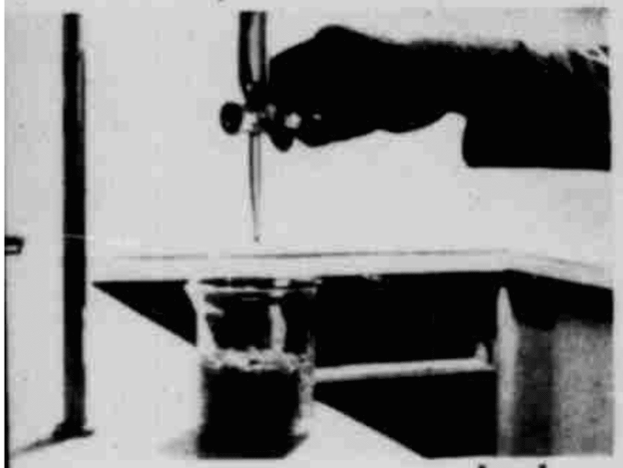
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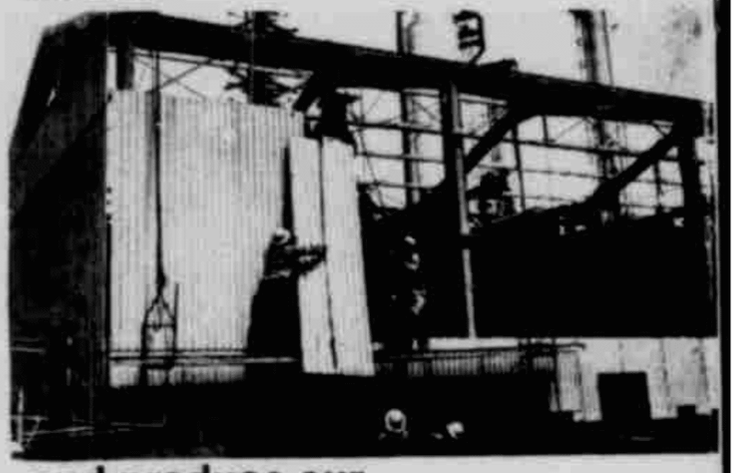
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