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ASBESTOS

VOLUME 50 APRIL 1969 NUMBER 10

FOUNDED JULY 1919 AND PUBLISHED MONTHLY SINCE THAT DATE

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ASBESTOS

TO CELEBRATE 50TH ANNIVERSARY

With the issue of July, 1969, **ASBESTOS** will begin its fiftieth consecutive year of publication!

Since a Golden Anniversary occurs only "once in a lifetime," we would like to enlist your support to help us make the coming July issue something really special. To accomplish this, we are using two major avenues of approach.

First, we earnestly invite you, our readers, to submit brief comments on what **ASBESTOS** has done in the past or may do in the future for the individual and for the Asbestos Industry as a whole. We intend to print such comments in the July issue and we are particularly anxious to include comments from the "elder statesmen" of the Industry, many of whom are now retired but who were active in the Industry for many years, some as far back as 1919 when our first issue was published. To permit proper planning for this special issue, we would greatly appreciate receiving such comments not later than June 9, 1969.

Second, to partially defray the unusual expenses of this special issue we are soliciting "Complimentary" advertising from individuals, trade associations and companies who may or may not be regular or occasional advertisers in **ASBESTOS**. Special rates have been set as follows and include composition and make-up costs. Reductions will be available to those submitting complete and mounted plates, ready for printing.

1/8 page	$12.00
1/4 page	$22.00
1/2 page	$40.00
Full page	$70.00

Material for such advertisements should be in our hands not later than June 2, 1969.

We sincerely hope to make this an issue of **ASBESTOS** which will be long remembered and one which will truly reflect the importance and value of **ASBESTOS** to the vital and growing Industry which it serves.

This is *your* magazine. Let's hear from *you*. The more the merrier. After all, a Golden Anniversary happens only once in a lifetime!

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DISC BRAKES

The first part of this article was published in the March 1969 issue of ASBESTOS and examined the relative merits of disc and drum brakes.

Having examined the relative merits of disc and drum brakes, we may now be in position to better assess the effects of wider use of disc brakes on the friction materials industry. All figures quoted, except where specific credit is given, are based on a survey of leading American and British manufacturers of friction materials. Due to wide variances in the opinions expressed in answer to this survey, it has been necessary to do some averaging and to make some educated guesses to arrive at the figures quoted but it is felt the general picture presented is reasonably accurate and will be of interest and, hopefully, of value to those engaged in this industry.

According to Automotive Industries, disc brakes were installed at the factory on the following percentages of U.S. produced cars in the years noted:

1965—2.19% 1966—2.93% 1967—6.22% 1968—11.17%

Most of these were furnished as optional equipment and were applied to the front wheels only.

Our survey indicates predicted usages through 1971 as follows:

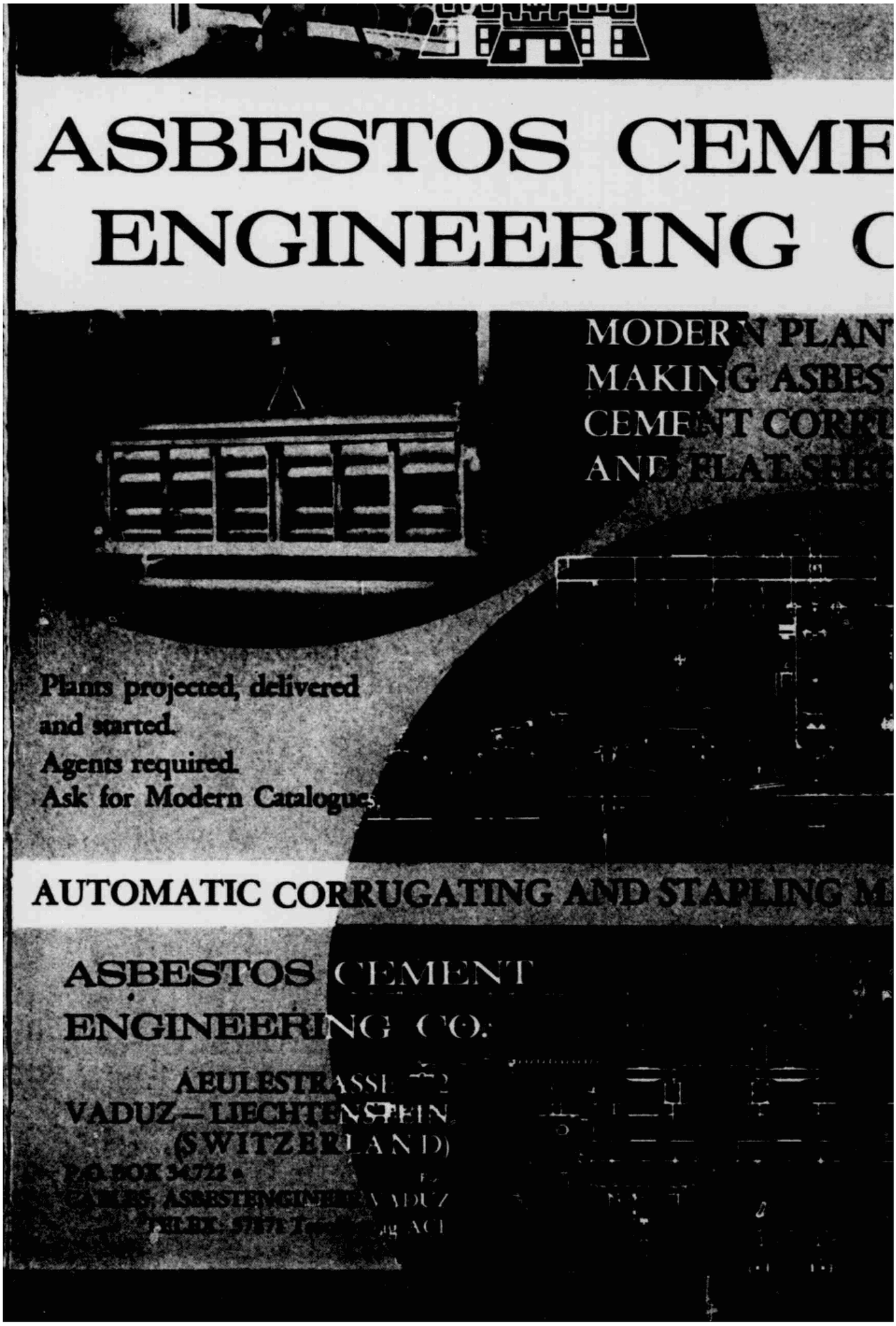
	1969	1970	1971
United States—Front	20%	35%	50%
Rear	2%	3%	5%
United Kingdom—Front	80%	82%	85%
Rear	8%	9%	11%

As might be expected, the foreign countries, having adopted disc brakes earlier, are predicting considerably higher usage for the immediate future than are the domestic producers of friction materials. We feel the U.S. producers may be somewhat conservative in their estimates and, based on expenditures being made by U.S. manufacturers for disc brake tooling as mentioned previously, would suggest that the percentages of domestic cars using front wheel discs could readily increase by up to 20% for each of the next three years over the estimates shown, making the figures read:

1969—24% 1970—42% 1971—60%

Predicted use of discs on rear wheels is quite low but, due to their higher cost, may be reasonably correct. One thing that may change this is the fact that, due to weight transfer dur-

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ing hard braking, if front wheels use discs the rear wheels using drums tend to lock up causing undesirable skidding problems. A temporary cure for this lies in the use of pressure "proportioners" which cut down actuating pressures on the rear wheel brakes during hard braking. The use of such devices alleviates the problem but, eventually, the permanent cure may lie in using discs on rear as well as front wheels.

The costs of disc brake pads at present range from about the same as, up to 50% higher than, the costs of linings for comparable drum brakes. Estimates of service life of pads vary from 50% to 75% of the life of ordinary linings. Assuming pad prices cannot be reduced as a result of increased manufacturing volume and that no increase in new car production is taken into account, the figures would indicate that the dollar volume of OEM and replacement markets for brake linings could conceivably increase by from 5% to 10% within a few years if adoption of disc brakes follows the predictions.

As to grades of asbestos used in pads, general opinion is that these will remain about the same as those now used in conventional linings. Some manufacturers feel shorter fibers *can* be used while others feel that longer fibers *should* be used. One thought is that because pads are much thicker than linings and because of the higher unit pressure between pad and disc, longer fibers would give better reinforcement against failure of the pads in shear. On the other hand, improved binder and filler materials could overcome such problems with no change in fiber length.

In general, the pads for disc brakes will require some 20% less asbestos fiber than conventional drum brake linings, mostly due to the lower overall weight and volume of the pads. Changes in formulation may increase or decrease this figure by some 10%. Harder pad formulations will normally contain higher percentages of asbestos.

In efforts to combat "fade," some attempts to use sintered metal linings in drum brakes have been made. These were mostly unsuccessful because the low coefficient of friction of such linings required very high pressures between lining and drum, drum wear was such as to require use of special drum materials, noise was a problem and, finally, federal safety laws were enacted including minimum requirements for parking brakes which could not be met with the

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metallic linings. In the same way, some attempts have been made to use sintered metal and other materials in place of asbestos-based materials in disc brake pads. However, the same difficulties have been encountered here as were met with in the drum brake applications. For the present and the foreseeable future, it appears that the use of such pads is strictly limited to racing cars and there is presently no substitute for asbestos as the base for commercial brake linings in the form of either drum brake linings or disc brake pads. Improvements in pads are expected to result from the development of superior binder and filler materials rather than from substitution of other materials for asbestos as the base material for such pads.

In summary, we may say that, at present, disc brakes offer no threat to the present market for asbestos as a base for friction materials. The dollar value of asbestos-based friction pads for the OEM market will probably exceed the value of drum brake linings they will replace. The shorter life of disc brake pads in service and their higher cost should lead to increased dollar volume in the replacement market. The tonnage of asbestos fibers used for brake linings of all types should remain about the same as at present or show a slight increase as disc brake use increases. There seems to be no material at hand or just over the horizon which might supplant asbestos as the primary base material for automotive brake linings of any type.

CERTAIN-TEED PRODUCTS CORPORATION has a new brochure available which compiles specifications for its new *"CERTA-SEAL Asbestos-Cement Building Sewer Pipe."* Included are general requirements, crushing and flexural strengths, marking, preparation for shipment and dimensional data. This new product is available in 4, 5 and 6 inch sizes in Class 1500 and 2400.

The company also has announced two brochures which contain complete specifications for *FLUID-TITE® Asbestos-Cement Pressure Pipe and Non-Pressure Sewer Pipe.* Certain-teed's pressure pipe and couplings are available in sizes from 3" to 24". The non-pressure sewer pipe comes in all sizes from 6" to 24", including Classes 1500 to 5000.

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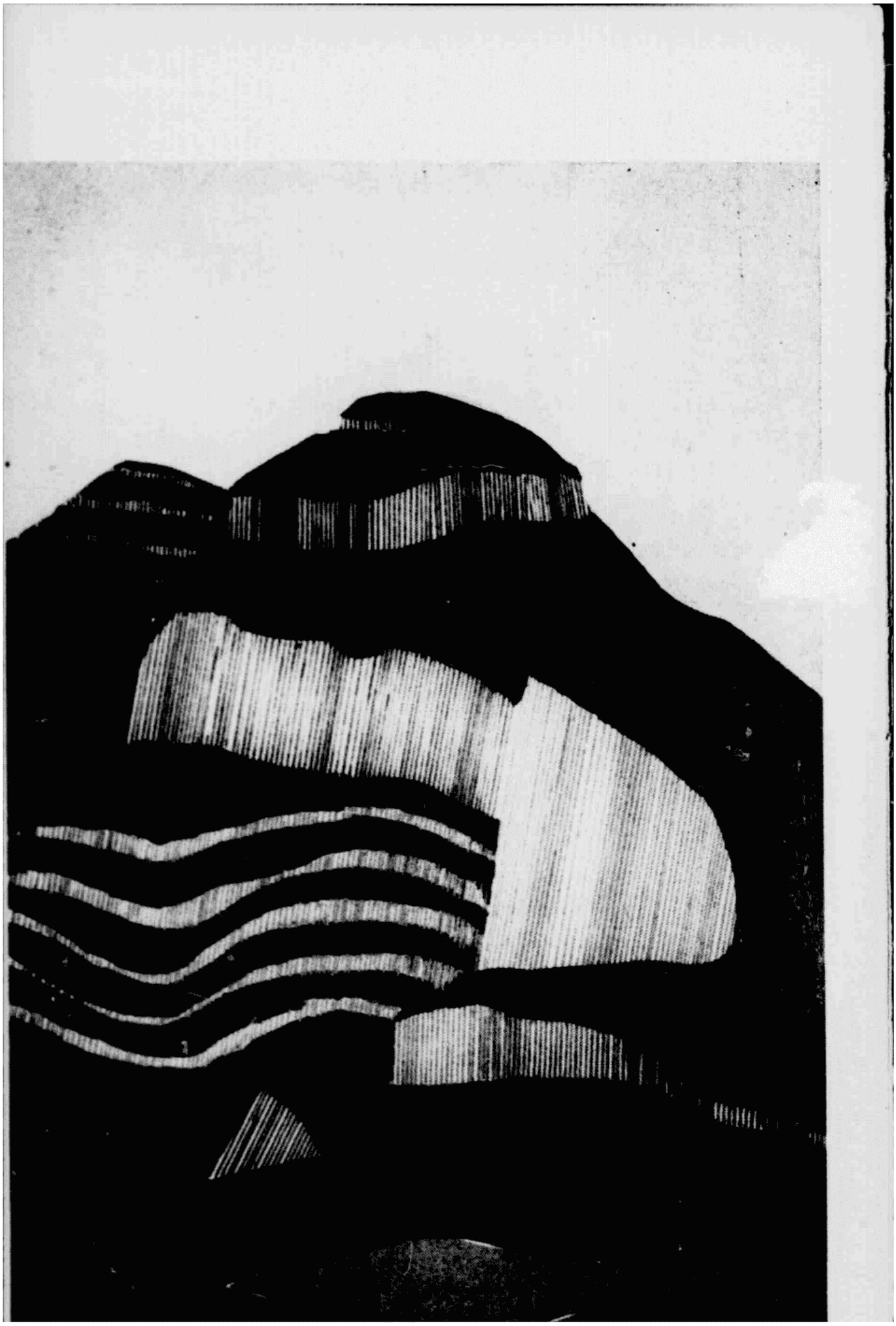
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We've made a mountain from a molehill.

The demand for our high quality Chrysotile asbestos is on the up and up. And to keep pace with this brisk tempo, we're expanding fast –

☐ Erecting a modern, fully-automatic mill ☐ Establishing the finest quality control facilities available ☐ Extending and re-equipping our open cast pits. All to provide you with the highest quality fibre available and to ensure sufficient supplies always. Yes, we're expanding fast – fast enough to supply you with your asbestos requirements. Contact us now at: Box 10213, Johannesburg, Republic of South Africa.

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FEROBESTOS Asbestos Reinforced Plastics

Increasing emphasis on the use of "composites"—matrices of plastic or metallic materials reinforced with various fibrous or crystalline materials—has led us to carefully examine all literature pertaining to specific applications of composites, particularly those in which asbestos in various forms is used as the reinforcement. As detailed in an article which appeared in the August and September 1968 issues of **ASBESTOS**, there are many reasons why asbestos should find extensive use in certain composites.

It is therefore with much interest that we have read the most recent brochure on FEROBESTOS asbestos reinforced plastics, published by the manufacturers, J. W. Roberts Ltd., Horwich, Bolton, England, a Turner and Newall Company.

Roberts has done some most interesting and productive work in developing a line of non-metallic materials molded from asbestos cloths, felts or papers impregnated with thermosetting plastic resins. Asbestos is used as the reinforcement because of its strength, durability, heat resistance and its resistance to attack by a wide spectrum of chemicals.

In general, the products are made in the form of sheets, rods and tubes in a wide range of standard sizes. These basic materials can be machined into sizes and configurations which will serve the requirements of many users. Since many of the end uses of the products are in the form of bearings, the formulations can be tailored to contain controlled amounts of colloidal graphite or other lubricants so the bearings may run "dry" or in a "semi-lubricated" condition. Such bearings are used in widely varying applications ranging from steel rolling mill roll bearings to self-lubricating bearings for sterntubes and struts in marine craft.

One interesting application has been in the various bearings used in ship davits and accessory gear. Conventional steel ball bearings deteriorate very rapidly on exposure to salt water or salt water spray and it is virtually impossible to seal them completely from such exposure. Under the same conditions, bushings of FEROBESTOS containing graphite, in conjunction with stainless steel shafts, are giving excellent service using no seals at all. When dry, the graphite serves as a lubricant and, when soaked with salt water, the water itself provides a lubricating film between bushing and shaft

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

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

R. C. M.

85, Corso Pietro Colletta - TORINO (Italy) - P. O. Box 468

Cable Address: Erciem Torino - Phone: 233823/4/5 - 284837 - 284797

impervious to the effects of salt water, the service life of such bushings is excellent.

An even more interesting part of the FEROBESTOS story is the fact that, using asbestos flock as a reinforcement, Roberts is molding many custom-made articles such as automotive water pump impellers, rotating elements for hydraulic pumps and motors and similar components which are subject to corrosion and erosion by the fluids in which they operate. Some such elements are used in applications where they are in rubbing contact with other machine parts and, in such cases, formulation can be adjusted to give the desired wear characteristics to the part.

The brochure contains complete information on the chemical and physical properties of these materials, detailed instructions as to proper machining procedures and much information on actual applications of components made from the materials.

J-M STOCK SPLIT—Stockholders of Johns-Manville Corporation approved a two for one split of the company's common stock, effective March 13, 1969, and authorized a new class of 10,000,000 shares of cumulative preferred stock. In approving the split, common stock authorization was increased from 25,000,000 to 50,000,000 shares and par value was changed from $5.00 to $2.50. Par value for the new class of preferred stock was set at $1.00. The stock split is designed to broaden the trading base for the common stock, and both stock proposals are intended to provide a more flexible capital structure for acquisitions, financing and other corporate purposes.

JOHNS-MANVILLE INTERNATIONAL has opened a new office in Sydney, Australia, operating under the name of *Johns-Manville Australasia Pty. Ltd.* Dramatic business growth in Australia is expected over the next five years and J-M expects its sales in that area to more than double during that time. The new office is located in the Ampol Building, 84 Pacific Highway, North Sydney, and will be managed by *Richard S. Werner*, the Resident Area Manager for Australasia.

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Asbestos in Marrakech.

We don't mean Marrakech, the Moroccan city famous for its beautiful tiles and mosaics.

We mean Marrakech, the J-M Vinylcraft® floor tile. As beautiful and exotic looking as the city it's named for.

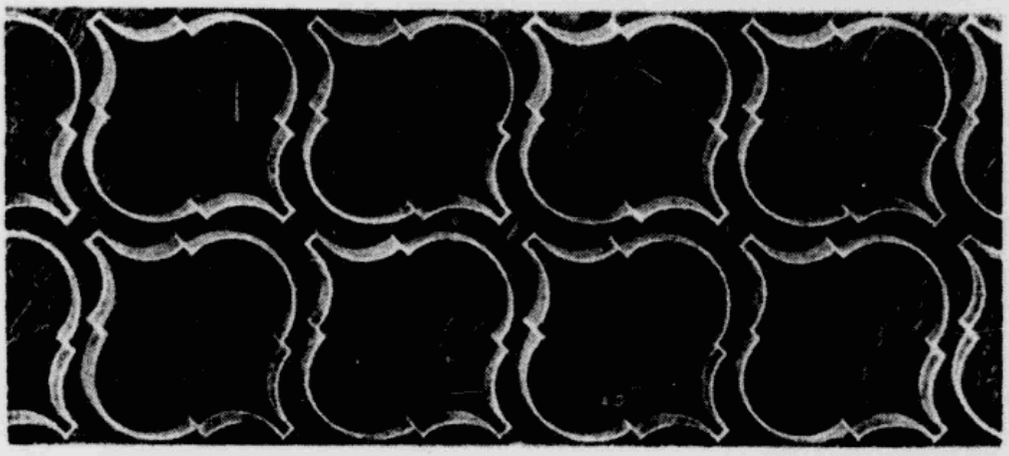
The reason you'll find our asbestos in Marrakech is pure and simple. When fortified with asbestos fibers, Vinylcraft tiles wear like—well, like asbestos. Even under the most challenging conditions.

J-M asbestos adds strength and fire-retardant qualities to many products for the home—siding, roofing, floor and ceiling tiles, to name just a few.

How can asbestos improve your products? We'd like to show you. Contact your local J-M representative. Or the Canadian Johns-Manville Co., Ltd., Box 1500, Asbestos, P.Q. Or Johns-Manville, Asbestos Fiber Sales, Manville, New Jersey, U.S.A.

JM

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Asbestos Occurrence Found In Alaska

Geologic reconnaissance in connection with the U.S. Geological Survey's Heavy Metals program in the summer of 1968 led to the discovery of an occurrence of asbestos in the "Eagle C-4 Quadrangle," Alaska. This is the first such deposit found in this part of Alaska. The Eagle Quadrangle lies along the eastern boundary of the state, adjacent to the Yukon Territory of Canada and is about 55 miles northwest of the Clinton Creek Mine of Cassiar Asbestos Corporation Limited.

Due to the nature of the survey, the extent of the deposit could not be determined. However, the exposed part consists of large joint blocks of serpentine, cut by closely spaced subparallel veins. Most of the veins are about ¼ inch thick and consist of cross-fiber Chrysotile asbestos. The asbestos appears to be of commercial quality.

The asbestos occurs in a serpentinized ultramafic mass which appears to intrude metamorphic rocks. While many other serpentinized ultramafic masses exist in the Eagle Quadrangle, this is the first one in which appreciable quantities of asbestos have been found.

This discovery is of potential importance since it shows that geologic conditions here are favorable for the formation of asbestos and there is a possibility of finding commercial deposits of the material in this general area through more intensive prospecting.

Complete details on this interesting find are contained in U.S. Geological Survey Circular 611, "Asbestos Occurrence in the Eagle C-4 Quadrangle, Alaska," by Helen L. Foster, and may be obtained free from the U.S. Geological Survey, Washington, D.C. 20242.

THE BAUER BROS. CO. has revised Bulletin G-40A which describes its *Hydrasieve,* a simple and inexpensive device for dewatering and classifying low consistency slurries. The bulletin contains photographs of the unit in several typical fluid removal applications and offers details of construction and installation. Brief specifications of the 5 available models for flow rates up to one million gallons per day are also included. The units can be used singly or arranged in compact, multiple-unit systems.

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You may get a rubber stamp with your next Bauer Hurricane Pulverizer-Classifier

This is a customer's idea. Ordering his third Hurricane was practically a rubber stamp routine, he said, because of the excellent record established by his first two units. As most of the more than 100 Hurricanes now in use represent repeat orders, other customers apparently agree with his logic. Nearly 70 of these air attrition mills are processing nonmetallic minerals. One major asbestos producer now uses 21 units! Applications include opening shorter grades of fibre to controlled levels, processing groups 5, 6, 7, as well as floats and tailings, and extracting impurities from usable fibres. If you haven't ordered your first Hurricane yet, may we send you one . . . complete with rubber stamp for reordering? **The Bauer Bros. Co.**, Springfield, Ohio 45501, and Ontario, Canada.

BAUER A subsidiary of Combustion Engineering, Inc.



In Memoriam

JAMES McCAWLEY, Editor of American Roofer & Building Improvement Contractor, passed away February 23, 1969, from a massive cerebral hemorrhage. He was 69.

Mr. McCawley was very active in the roofing industry and many local and regional associations called upon him for advice and assistance. In 1934, he became NERSICA's first Executive Secretary and edited the association's official publication. In 1938, he accepted the post of Executive Secretary of the United Roofing Contractors Association (now NRCA, the National Roofing Contractors Association) and started the National Roofer Magazine to provide income for the organization. After 13 years of service to NRCA, he tendered his resignation and purchased the magazine from the association. He published the magazine until 1959 when he acquired American Roofer & Siding Contractor and consolidated the two publications into the present magazine, the American Roofer and Building Improvement Contractor.

Mr. McCawley was the author of the well known apprentice training book, "Roofing, Estimating, Applying, Repairing," and contributed editorially to a number of publications in the United States and Europe, including his native Glasgow. He addressed many international building trade conventions, participated in the World Housing Conference, and was active in the Building Research Institute and the American Society for Testing and Materials.

During World War II, he was a member of the U.S. Federal Apprenticeship Committee and of the President's Construction Advisory Council.

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Producers of

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MARKET CONDITIONS

General Business.

Despite earlier predictions and some actual signs of a cooling off in the economy, certain recent statistics indicate offsetting increases in particular areas which point to a continued rapid rate of growth and the probability of little relaxing of inflationary pressures during the months to come. According to a report of the Commerce Department and the Securities and Exchange Commission, business is currently planning to spend some 14% more for capital expansion and improvement during 1969 than was spent in 1968. While this planned spending might be sharply reduced should general economic conditions deteriorate, it indicates that businessmen, in general, are looking toward expanding demand for their products and are willing to commit themselves to sharply increased capital expenditures despite the high cost of borrowed money and the threat of even tighter governmental monetary controls in the effort to stem inflation.

The prime interest rate has again been increased, this time to 7½%. The fact that spending was apparently not appreciably slowed by the previous 7% rate leads some authorities to predict that the new rate will have little or no effect in lessening inflationary pressures.

It is obvious that an inflationary psychology underlies much of the thinking of industry and consumers in this connection. The attitude seems to be that, since it will probably be more costly to buy in the future, it might as well be done now at prices which may well look "cheap" some years from now.

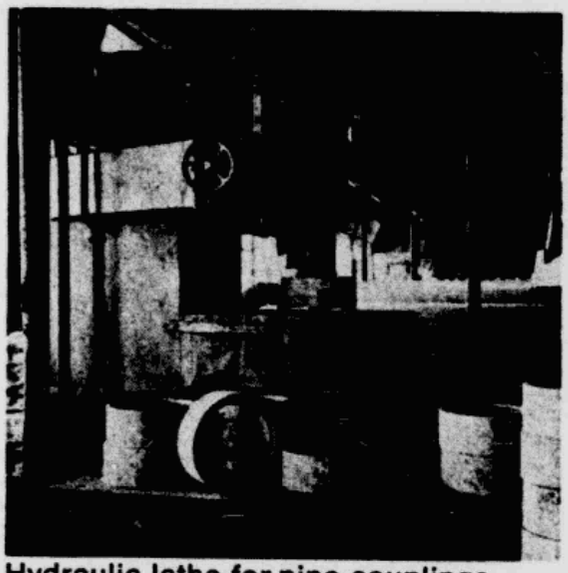
Both industrial output and total personal income show continuing increases and unemployment remains at a historically low level, all indicating there is still plenty of steam left in the general economy.

Asbestos Fiber.

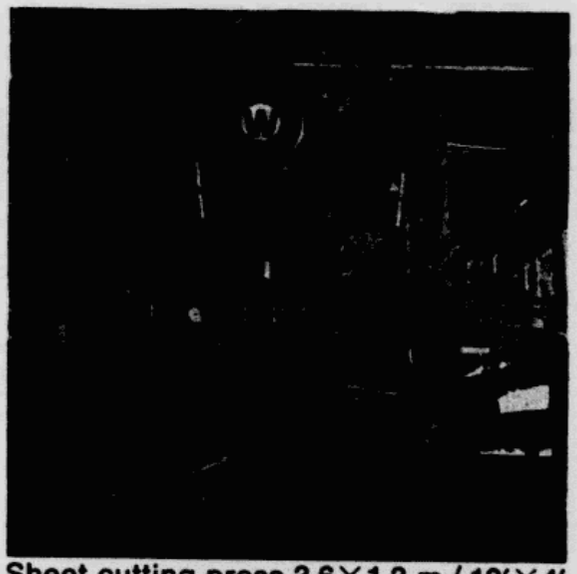
Canadian Producer shipments of asbestos fiber in 1968 achieved a new record at approximately 1,580,000 tons of all grades. This represents an increase of approximately 9% over the level in 1967. The increased demand for asbestos for asbestos cement products in most parts of the world repre-

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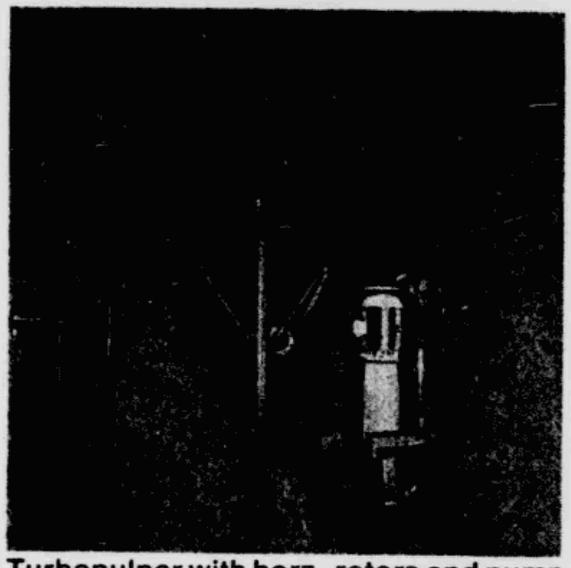
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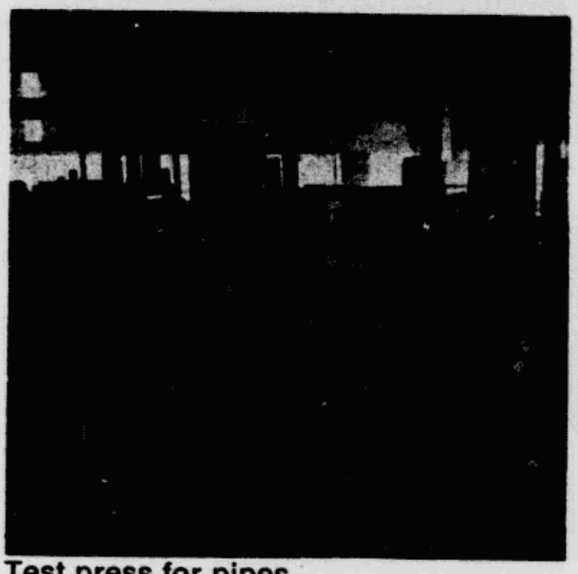
Hydraulic lathe for pipe couplings



Sheet cutting press 3,6×1,3 m / 12′×4′



Turbopulper with horz.-rotors and pump



Test press for pipes

What are your specific problems? Modernisation of sheet-machine? – Production of special sheets of 9 m length? – Up-to-date pneumatic corrugator? – Plant for pressure pipes? – Automatic socket pipe installation? – Modern laboratory equipment? – Efficient plant for prefabricated walls, sandwich panels (made of asbestos-cement sheets and foamed plastics)? Presses or cutting-presses for high quality sheets? – Automatic consistency control of water, asbestos and cement, during production? – Remember, WEHRHAHN represents more than a man's age of experience with references all over the world! Why not contact them? Ask for up-to-date quotations!

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sents the principal reason for this increase, although the demand for a great variety of grades in the United States market is increasing at a steady rate.

The USSR continues to be the world's largest producer of asbestos fiber with production in 1968 indicated at a level of two million tons, or slightly less. The rapid expansion of asbestos cement producing facilities in this country points to the continuation of the trend whereby the bulk of the USSR production will be required for use internally.

Asbestos production in the United States was 121,000 tons, with California being the leading producing state.

Asbestos has a variety of uses—some 3,000 applications, making it practically ubiquitous in modern society. It is shipped to virtually every industrialized nation on earth. Major uses include asbestos textiles, asbestos paper, floor tile, friction materials, plastics, paints, sealers, sound deadeners, and roofing compounds. The most significant outlet, however, is the asbestos cement industry. It is estimated that 50% of all types of asbestos including Chrysotile, Amosite and Crocidolite, is consumed in the production of asbestos cement building materials and pipe.

The massive needs for housing and industry in practically every country in the world point to an encouraging trend line for the future consumption of asbestos in its major outlets. The year 1969 seems headed for a continued growth in usage of Canadian asbestos fiber of approximately 5% and this pattern is forecast to continue into the 1970's. For the Canadian asbestos industry, this means more planning, more exploration and development efforts, in order to successfully meet an expanding market for asbestos in the years immediately ahead.

To date in 1969, the demand for all grades of asbestos is at a high level and inventories of most grades are low.

The market for Arizona filter fiber continues to expand. Some grades are in short supply and production must be increased to adequately serve the growing requirements for these materials, in both old and new markets.

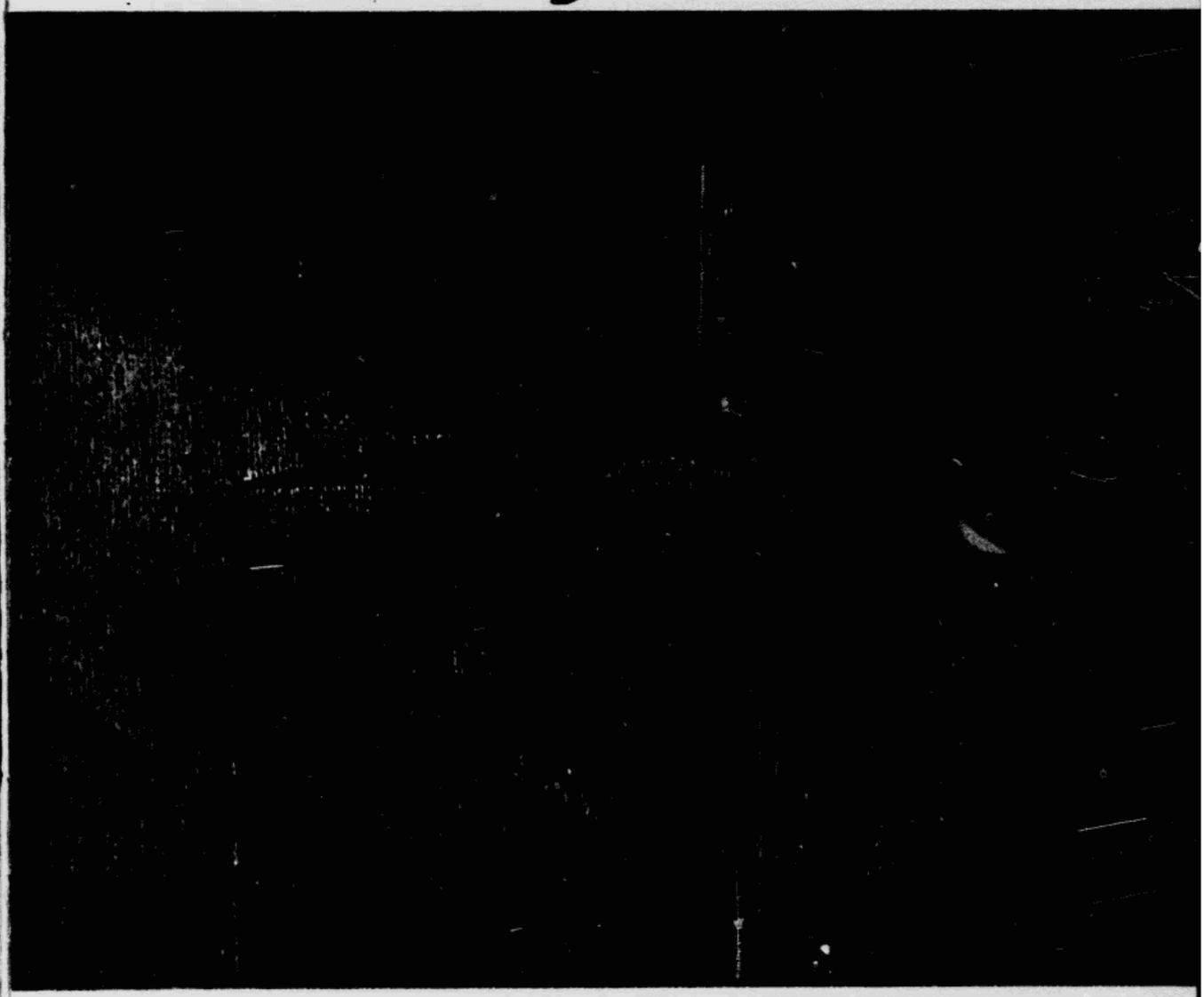
Asbestos—Manufactured Goods.

Asbestos Textiles: Due mainly to asbestos fiber and wage increases, prices on asbestos cloth have increased ap-

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proximately 7½%. A strong demand for all asbestos textiles continues with resultant extended deliveries. High purity asbestos cloth is in very short supply. Demand for the overall product line is expected to continue strong for the rest of the year, keeping pressure on deliveries and possibly edging prices up.

Asbestos Brake Lining: Demand for friction materials is quite strong, despite some small cutbacks in passenger car production. Thus far, strength in the market for replacement brake linings more than offsets any slight reduction in the OEM market and this presages a very good year for producers of these materials.

Asbestos Paper: Sales during the early part of the year have been very strong, decidedly improved over the latter part of 1968. Present trends, if continued, should result in a possible 10% increase in total sales for 1969 over those recorded last year.

Asbestos Millboard: While a slight decline in sales has been noted during the past few months, there are indications that the trend is reversing and sales for the entire year 1969 should probably exceed those of 1968.

Asbestos Felt: Adverse weather in much of the nation since the first of the year has slowed building activity and shipments of asbestos felt have been at a somewhat reduced level. However, it appears housing activity will continue strong despite higher costs of labor, material and money, and this bodes well for sales of this material.

Asbestos Corrugated Sheets: Sales for the first quarter will be about the same as for the like period in 1968. The present outlook is good. Based on current forecasts of activity in the construction field, there is a good chance sales of asbestos corrugated sheets this year will exceed those of 1968.

Asbestos-Cement Flat Sheets: The market for flat sheets is about the same as this time last year. The rising costs of other materials may help to increase the demand for these products. To improve the market, many companies are promoting the industrial uses of asbestos-cement flat sheets, such as in cooling towers and dust control equipment.

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

High Pressure Insulation: Business for high pressure insulation is slow at the present time but an improvement in this market is expected in the near future.

Asbestos-Cement Shingles, Roofing & Siding: Shipments of these products have been at a relatively low level due to the effect of bad weather on building activity in much of the nation. However, as weather improves, so this market should improve in the immediate future. Very sharp price rises in the lumber industry should improve the competitive position of asbestos-cement building materials and result in increased demand for these products.

Asbestos-Cement Pipes: The first quarter has shown considerable improvement in the market for water pipes, except on the West Coast where wide areas have been affected by extremely heavy rains, hampering all building activities. Asbestos-cement pipe is increasing its penetration of the market at the expense of metallic pipe but plastic pipes are offering increasing competition in sizes up through 6". Market outlook for the first half is good. Should government expenditures be cut back at the start of the new fiscal year (July 1), a contraction in sales may occur during the latter half of the year.

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

ASTM MEETINGS—Co-sponsored by the American Society for Testing and Materials, the 11th Symposium on Rock Mechanics will be held June 16-18 at the University of California, Berkeley, California. ASTM's 72nd Annual Meeting will take place at Chalfonte-Haddon Hall, Atlantic City, New Jersey, June 22-27.

ASBESTOS

welcomes the following new advertiser:

MSAULI ASBESTOS MINE—GENERAL MINING AND FINANCE CORPORATION LIMITED, pages 10 & 11

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Building

From: McGraw-Hill Information Systems Company

FEBRUARY 1969—Contracts for future construction projects rose to a record high in February. The value of contracts for future construction totaled $4,802,116,000, topping the year-ago amount by 30%. The seasonally adjusted Dodge Index (1957-1959=100) of total construction activity jumped to 205—7% above January's 191 and five points above the previous record set last October. After some slackening toward the close of last year, the first two months of 1969 brought a return to the very high rate of new construction contracting last autumn. With nonresidential building setting the pace, gains in February were substantial in all major categories of construction. But, in view of the latest round of credit restraint and interest rate hikes, it is not likely that this current pace of contracting can be sustained for long.

Nonresidential building contracting value was $1,884,598,000, up 51% from last February. Contracts for manufacturing plants were nearly double their year-ago value, commercial building showed a 22% gain and institutional building contracts (especially hospitals) also were sharply ahead.

Residential contracts were valued at $1,820,204,000, 22% ahead of last February. Recent increases in interest rates are bearing down selectively on one-family building. Single-family building value has increased only 3% over this time last year and that small gain is merely an indication of today's inflated prices. Compared with the volume of building a year ago, 1969's two-month total of one-family units is slightly down. The picture for apartments is entirely different. In February, multi-family contract value was 60% higher than last year and the number of apartment units was up 35%. Nonhousekeeping buildings such as hotels, motels and dormitories are also showing large gains.

Nonbuilding construction contract value advanced 15% in February to a total of $1,097,314,000. Contracts for road-building projects were up 27% on a February-to-February basis. Utility construction was down 31%.

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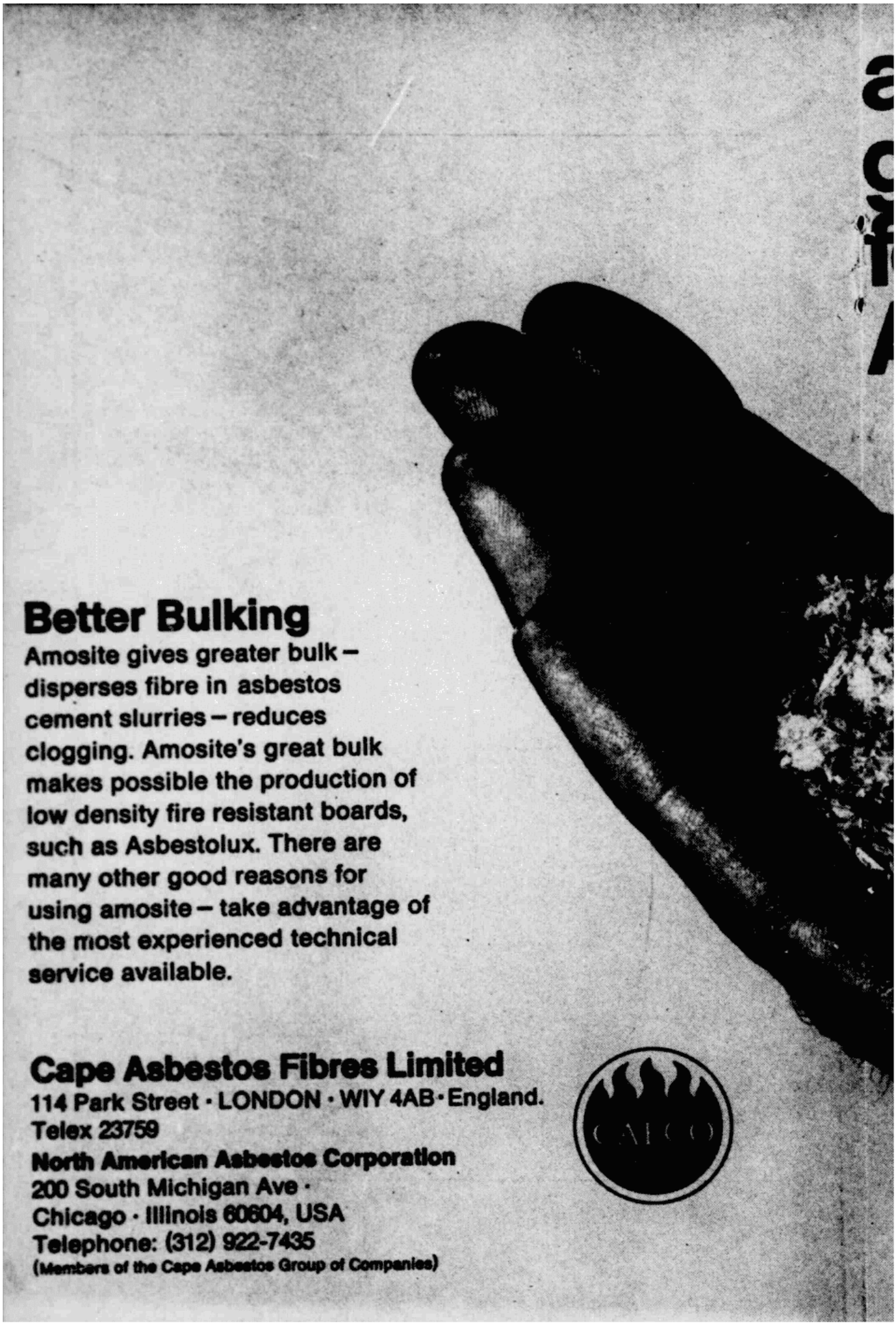
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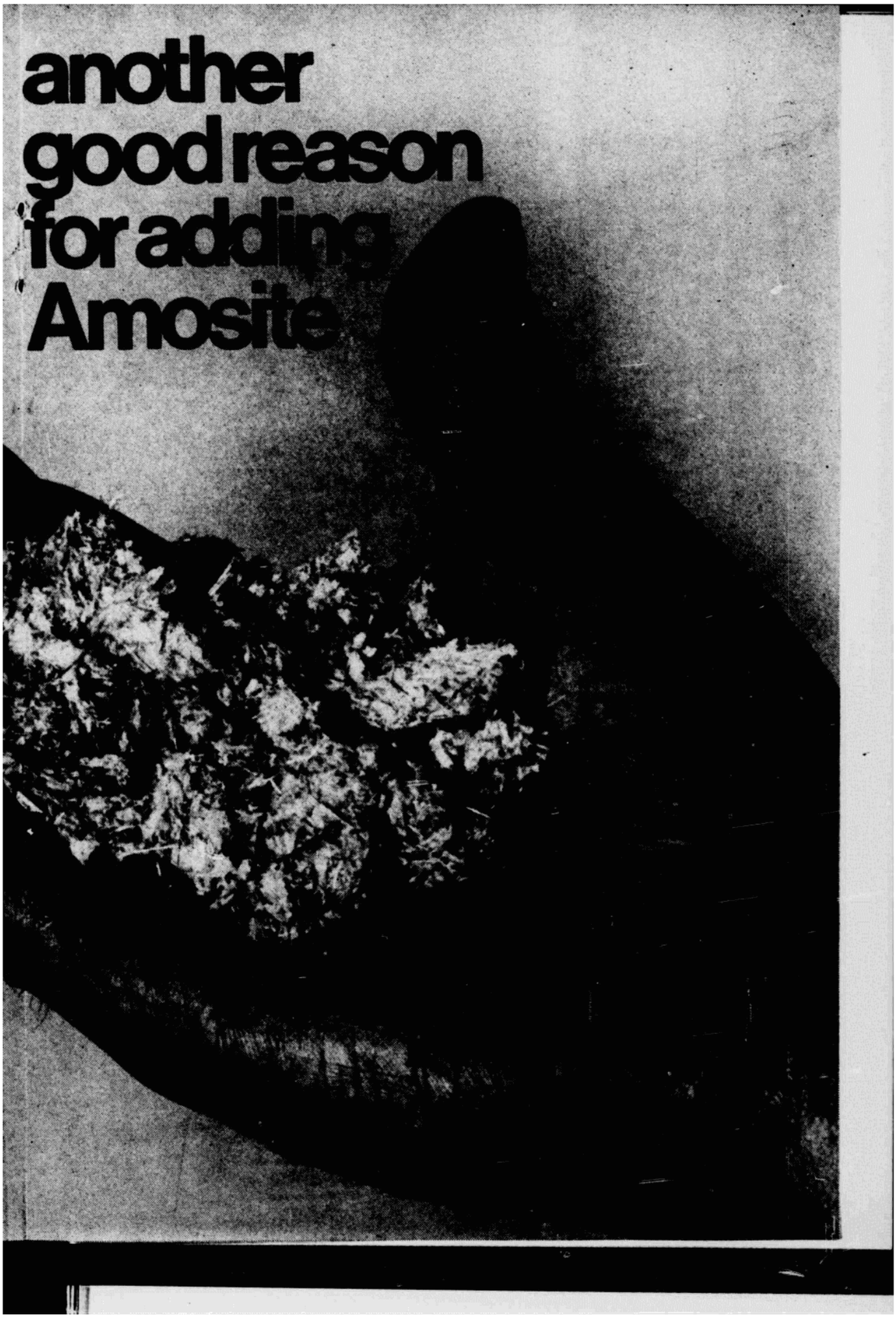
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Automobile Sales

JANUARY 1969 motor vehicle factory sales from plants in the *United States* totaled 976,469 (passenger cars—815,367, trucks and buses—161,102). The total for January 1968 was 937,461.

Motor vehicle factory sales from plants in *Canada* totaled 110,212 for January 1969 compared with 93,238 in January 1968.

NATIONAL GYPSUM COMPANY has agreed in principle to acquire *Behring Properties, Inc.*, a builder of homes and planned communities, based in Fort Lauderdale, Florida. The proposed acquisition is subject to development of a definite contract and approval by the Board of Directors of National Gypsum. No details of the agreement were disclosed other than, following acquisition, current plans call for Behring to function under the general management of Kenneth E. Behring, President, as a subsidiary of National Gypsum. The agreement was announced jointly by Mr. Behring and Colon Brown, Chairman and Chief Executive Officer of National Gypsum.

REX CHAINBELT INC., Milwaukee, Wisconsin, has completed its purchase of *Perfection American, Inc.*, Harvey, Illinois. Perfection manufactures a broad line of transmission, differential, timing and industrial stock gears, as well as fractional horsepower speed reducers, clutch plates, clutch assembly parts and sprockets. It will operate as a division of Rex in the Mechanical Power Transmission Group. Rex Chainbelt is a leading manufacturer of mechanical power drive and conveyor components, fluid power products, industrial and aerospace fasteners, bulk material and unit handling systems, water and waste treatment equipment, and construction machinery.

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AMMANN Asbestos Mill



The *ONLY DISINTEGRATOR* treating the asbestos fibres without breaking them. Disintegrator used so to say by the most important Asbestos Mines of the whole world.

The above illustration shows a large plant comprising several AMMANN disintegrators. This plant works in an asbestos mine in South Africa.

U. AMMANN Ltd.

Engineers **CH 4900 Langenthal** **Switzerland**

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ASBESTOS CONTRACTORS BOSTON ASSOCIATION re-elected Bronius K. Kudirka as President and Albert L. Sargent as Secretary-Treasurer at its annual meeting on January 6, 1969. Members of the Joint Trade Board re-elected to serve for the current year are William Slade, William Hinman and Walter Peterson. The Joint Apprenticeship Committee is composed of Theodore Brodie, Frank Jones and Herbert Noyes. The Employer Trustees-Health & Welfare Fund members are Albert L. Sargent, William Wilkes and Norman Johnsen. The companies represented among these officers and committee members are Armstrong Contracting & Supply Corporation, Eastern Refractories Company, Inc., P. S. Thorsen Company of Massachusetts, Hinman Asbestos Corporation, New England Insulation Company, Noyes Insulation Contracting Company and O. M. Johnsen Company.

NORTHEASTERN INSULATION CONTRACTORS ASSOCIATION is seriously considering a possible merger with a sister Regional group. Committees from both Regionals are meeting to work out plans for the consolidation. By the combining of these two groups, it is believed that one strong Regional group could then be properly represented in the *Insulation Distributor-Contractors National Association.*

J. WILLIAM DUNCAN has been elected Vice President of the *Acoustical & Insulating Materials Association.* This newly-formed association is concerned with combating "noise pollution" and providing protection from excessive heat and cold in construction. Mr. Duncan is Vice President for Industry Relations and Trade Sales for National Gypsum Company.

J-M PRICE INCREASE—Johns-Manville Corporation will increase prices on all gauges of its asphalt and terraflex vinyl-asbestos floor tile, with the exception of its Vinylcraft line, by approximately 3%, effective May 1, 1969. The increase is attributed to higher costs of labor, raw materials and transportation.

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Holanda, Colombia, S.A.

COLORADO, Denver
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Gulf Coast Chemical Corporation

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

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

MEXICO, Mexico City
Asarco Mexicana, S.A.

MICHIGAN, Detroit
Baker & Collinson

MINNESOTA, Minneapolis
Industrial Chemical & Equipment Co.

MISSOURI, St. Louis
Harry A. Baumstark & Company

NEW YORK, Buffalo
Buffalo Solvents & Chemicals Corp.

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

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

OREGON, Portland
Van Waters & Rogers, Inc.

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

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

WASHINGTON, Seattle
Van Waters & Rogers, Inc.



ASARCO

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CANADA COURIER—For the first time, 55,000 businessmen in the United States have received the new United States edition of the "Canada Courier," an eight-page illustrated tabloid published by the *Department of Trade and Commerce*, Ottawa. The U.S. edition will be published six times each year and will be geared toward the selling of Canadian products to the United States. There are other editions available in Spanish, German, Arabic and French which are published biannually and an international English language edition which is published six times a year.

U.S. BUREAU OF MINES has published a comprehensive dictionary of mineral science and technology. Entitled *"A Dictionary of Mining, Mineral, and Related Terms,"* the 1269-page volume contains approximately 150,000 definitions for some 55,000 separate entries. Included are scientific and engineering terms, words common to particular mineral-producing localities or regions, and abbreviations generally used in the technical literature on mineral technology published throughout the English-speaking countries of the world. Definitions reflect changing usage of older terms as well as additions to the vocabulary, but some older definitions, considered to be of value in historical research, are also included. Many of the new terms come from electronics and the biological and environmental sciences and have invaded the minerals vocabulary because of current emphasis on instrument miniaturization, pollution control and marine mining. A copy of the dictionary can be purchased for $8.50 from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.

NBS SOUND LABORATORY—One of the more specialized features of the National Bureau of Standards' new laboratory complex in Gaithersburg, Maryland, is the recently completed Sound Laboratory building. A single story structure of unique, highly specialized construction and acoustical design, the laboratory was built specifically for basic research in the fields of ultrasonic, infrasonic, physical, architectural and audio acoustics and vibration.

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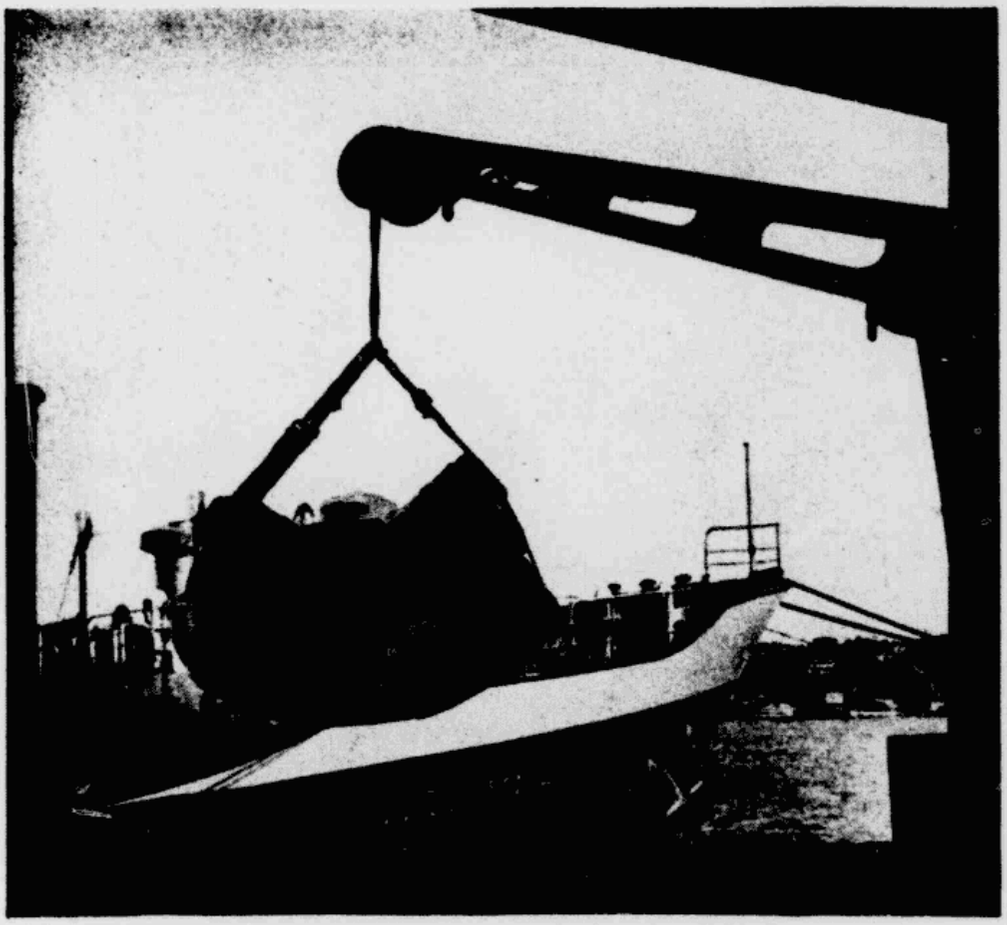
GOLD BOND PERFORATED SOFFIT PANELS, available from National Gypsum Company, offer built-in ventilation, ease of installation and insect resistance. Made of durable asbestos cement, the new panels will not burn, corrode, warp, expand or contract. The tiny holes in the panels —approximately 1/8" in diameter on 1/2" centers—are equivalent to FHA 8-mesh screen opening requirements and will ventilate properly without the added cost of louvers or wire screening. The soffit panels as well as standard perforated panels have a Ripple-Tone texture and a uniform white finish and exhibit resistance to dirt pick-up. Perforated soffit panels are 3/16" thick, 48" long and are furnished in 16, 24, 32 and 36 inch widths. Standard perforated panels have 3/16" diameter holes on 1/2" centers each way and sheet sizes are 24" x 24" and 24" x 48".

RAYBESTOS-MANHATTAN, INC. has announced its new and permanently flame-resistant *asbestos rayon cloth*. The fire retardant, which is integral with the rayon fibers, is not leached out by water and the cloth is 20% softer than other flame-resistant asbestos cloths treated with fire retardants.

While asbestos is inherently flameproof, standard untreated fibers, such as cottons, rayons and polyesters, are readily flammable. When asbestos is mixed with these conventional organic fibers and subjected to flame, the cloth or yarn will continue to burn. To achieve flame resistance, the cloths are treated with borate, phosphate or other flame-retardant solutions. Although these salts do provide flame retardancy, they also impart harshness and stiffness and, if accidentally wetted, the retardant leaches out.

R/M blends the new fire-retardant-treated rayon fibers (PFR) with asbestos to produce cloth in ASTM grades from commercial to AA. The fibers are non-irritating when in contact with the skin and the resultant cloth is flexible and permanently flame resistant. The cloth is available in open weave and close textures in plain, twill and herringbone construction, dependent upon requirements or end use.

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

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PRODUCTION - IMPORTS - EXPORTS

Australia—According to the Bureau of Mineral Resources, Geology and Geophysics, Canberra, production of asbestos from mines in New South Wales and Western Australia for the *First Quarter of 1968* amounted to 204 short tons. Exports of all types and grades of asbestos for the same period reached 338 short tons, valued at $73,000.

Brazil imported 17,504 metric tons of asbestos fiber during the *Year 1967*. The amount of fiber was valued at $3,938,130 and was mainly from Canada. Exports, all to Bolivia, amounted to 15 metric tons, valued at $1,111.

Canada—According to the Dominion Bureau of Statistics, producers' shipments of asbestos during *December 1968* totaled 166,524 short tons. The figure for *December 1967* was 146,983 tons.

For the *Year 1968*, producers' shipments amounted to 1,509,699 tons (1,362,310 from Quebec and 147,389 from Ontario, Newfoundland and British Columbia). The total for the *Year 1967* was 1,443,011.

South Africa—According to the Department of Mines, Johannesburg, 66,013 short tons of asbestos were produced during the *Second Quarter 1968* (Amosite, 25,356; Cape Blue, 27,511; Chrysotile, 11,537; Transvaal Blue, 1,609). For the *Third Quarter 1968*, the total asbestos production was 67,745 short tons (Amosite, 24,887; Cape Blue, 30,391; Chrysotile, 10,545; Transvaal Blue, 1,922).

South Africa exported 64,478 short tons of asbestos fiber, valued at R7,136,650, during the *Second Quarter 1968*. The breakdown is as follows: Amosite, 25,150, R2,463,425; Cape Blue, 32,146, R4,098,625; Chrysotile, 6,057, R421,894; Transvaal Blue, 1,125, R152,706. Exports of asbestos fiber for the *Third Quarter 1968* totaled 64,639 short tons, valued at R7,199,534. The breakdown is: Amosite, 26,754, R2,623,580; Cape Blue, 30,427, R3,868,628; Chrysotile, 4,303, R274,502; Transval Blue, 3,155, R432,824. These figures were supplied by the Department of Mines, Johannesburg.

United Kingdom imported £2,471,000 worth of asbestos from South Africa during the *Year 1968*, compared to £1,906,000 in 1967.

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Imports Into U.S.A.

(Figures from U.S. Bureau of the Census) — **Short Tons**

Unmanufactured Asbestos: — **YEAR 1968**

Amosite, Cyprus	16
Mozambique	120
South Africa	20,467
Crocidolite (Blue), Bolivia	1
South Africa	14,045
Chrysotile, Crude, Canada	57
Finland	578
Italy	2
Mozambique	30
Rhodesia	85
South Africa	2,817
Chrysotile, Spinning Fibres, Canada	15,318
Finland	110
South Africa	5
Yugoslavia	1,653
Chrysotile, Other, Canada	649,211
Italy	2
Panama	54
Portugal	15
Rhodesia	2,684
South Africa	339
Asbestos, Other, Canada	24,797
Bolivia	3
Finland	3,774
France	30
Italy	1
Mozambique	742
Portugal	9
Rhodesia	50
South Africa	894
	737,909

Total imports of unmanufactured asbestos were valued at $72,929,948.

Manufactured Asbestos Goods:

Asbestos Yarn, Slivers, etc.	Lb	1,969,550	$1,323,983
A-C Pipes, Tubes & Fittings	Lb	69,735,788	2,970,705
Asbestos-Cement Articles, Other	Lb	18,889,519	2,487,468
Asbestos Articles, Other		..	944,237
			$7,726,393

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

MINES AND MILL IN GILA COUNTY

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Exports From U.S.A.

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

		DECEMBER 1968	
Unmanufactured Asbestos:			
Crude & Spinning Fibers	s.tons	65	$ 19,003
Non-Spinning Fibers	s.tons	2,434	311,819
Waste & Refuse	s.tons	3,153	218,766
		5,652	$ 549,588
Manufactured Asbestos Goods:			
A-C Shingles & Clapboard	Lb	633,669	$ 61,667
Other A-C Articles	Lb	643,599	144,424
Gaskets & Packing	Lb	327,943	378,600
Texiles & Yarns	Lb	664,189	169,633
Mfrs. other than Friction Materials		..	494,857
Clutch Facings & Linings for auto use	No	139,840	147,190
Clutch Facings & Linings, Other	No	166,859	72,407
Brake Linings for auto use	Lb	609,480	366,017
Brake Linings, Other	Lb	275,359	172,329
			$2,007,124

		YEAR 1968	
Unmanufactured Asbestos:			
Crude & Spinning Fibers	s.tons	872	$ 193,226
Non-Spinning Fibers	s.tons	17,066	2,307,752
Waste & Refuse	s.tons	23,279	2,175,718
		41,217	$4,676,696
Manufactured Asbestos Goods:			
A-C Shingles & Clapboard	Lb	21,301,066	$1,943,794
Other A-C Articles	Lb	11,792,560	1,627,897
Gaskets & Packing	Lb	4,829,157	5,894,774
Texiles & Yarns	Lb	6,899,546	1,802,142
Mfrs. other than Friction Materials		..	5,192,693
Clutch Facings & Linings for auto use	No	2,227,386	1,773,747
Clutch Facings & Linings, Other	No	1,209,548	543,717
Brake Linings for auto use	Lb	6,713,842	4,057,924
Brake Linings, Other	Lb	2,034,455	1,666,241
			$24,502,875

Msauli Asbes Limited has issued the following production and financial statistics for the quarter ending December 31, 1968: 554,948 tons of overburden were removed; 104,713 tons of ore were crushed, and 5,945 tons of fiber were produced. The percentage of fiber recovered was 5.68%. The value of gross sales of fiber amounted to R413,383.

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Exports From Canada

(Published by Dominion Bureau of Statistics) **DECEMBER 1968**

Short Tons

Unmanufactured Asbestos:	Crude	Milled Gp3	Milled Gp 4&5	Shorts Gp 6-9
United States	..	1,490	22,235	32,847
United Kingdom	..	..	1,204	4,073
South America	..	..	4,363	1,565
Central America & Mexico	..	57	4,153	450
Europe	7	1,386	14,720	10,204
Japan	20	427	3,268	12,343
Other Countries	..	518	10,183	7,601
	27	3,878	60,126	69,083

The total amount of unmanufactured asbestos in *December 1968* was 113,114 tons, valued at $17,536,000.

Manufactured Asbestos Goods:

Asbestos Brake Linings & Facings	$127,000
Asbestos-Cement Building Materials	123,000
Asbestos Basic Products, Other	64,000
	$314,000

YEAR 1968

Unmanufactured Asbestos:	Crude	Milled Gp3	Milled Gp 4&5	Shorts Gp 6-9
United States	89	15,850	201,955	443,436
United Kingdom	..	5,042	58,808	55,304
South America	..	202	48,502	15,007
Central America & Mexico	..	719	30,648	6,093
Europe	24	12,434	213,852	115,394
Japan	89	2,621	30,939	63,831
Other Countries	..	1,820	99,726	37,265
	202	38,688	684,430	736,330

The total amount of unmanufactured asbestos for the *Year 1968* was 1,459,650 tons, valued at $192,895,000.

Manufactured Asbestos Goods:

Asbestos Brake Linings & Facings	$ 750,000
Asbestos-Cement Building Materials	1,514,000
Asbestos Basic Products, Other	930,000

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INDUSTRY NEWS

HAPPY BIRTHDAY

Alfred G. Sinclair, President & General Manager, Canadian Johns-Manville Co. Ltd., Port Credit, Ontario, Canada, April 15.

Hugh Wittman, Production Manager, Smith & Kanzler Company, Linden, New Jersey, April 15.

Philip A. Meyer, Vice President, Nicolet Industries, Inc., New York City, April 16.

G. A. Higham, Managing Director, Cape-Universal Building Products Ltd., Uxbridge, Middlesex, England, April 17.

M. T. Voiles, Manager, Supradur Manufacturing Corporation, Wind Gap, Pennsylvania, April 21.

E. A. Broadway, Director, Carey-Canadian Mines Ltd., East Broughton Station, Quebec, Canada, April 23.

J. Stokes Clement, General Manager, Floor Products Division, GAF Corporation, New York City, April 23.

F. E. Thurston, Manager, Asbestos Hill Project, Asbestos Corporation Ltd., Montreal, Quebec, Canada, April 23.

Joseph G. Hall, General Manager of Building Products, GAF Corporation, New York City, April 24.

Edward R. Stevens, President, Baldwin-Ehret-Hill, Inc., Trenton, New Jersey, April 25.

G. A. Whitehead, Estimator, Asbestos Products, Inc., St. Paul, Minnesota, April 25.

D. L. Tchida, Estimator, Asbestos Products, Inc., St. Paul, Minnesota, April 26.

W. Lindsay Wylie, Vice President & General Manager, Fiber and Textile Division, Uniroyal, Inc., New York City, April 26.

J. Carroll Johnston, President, Atlas Asbestos Company, North Wales, Pennsylvania, April 28.

Robert D. Bradford, President, American Smelting & Refining Company, New York City, April 29.

J. A. Johnson, General Manager, Smith & Kanzler Company, Linden, New Jersey, April 29.

Richard H. Jaffer, President, York Insulation Company, Inc., Hillside, New Jersey, May 1.

Sidney S. Goodwin, Director, Hedman Mines Ltd., New York City, May 3.

Reynold Nebel, Vice President & Production Manager, Industrial Insulations Division, Johns-Manville Corporation, New York City, May 3.

Herbert L. Abrons, Corporate Secretary, GAF Corporation, New York City, May 4.

Guy George Gabrielson, Jr., President, Nicolet Industries, Inc., New York City, May 4.

E. C. Hildebrandt, Secretary, MacArthur Company, St. Paul, Minnesota, May 4.

W. S. Cowell, President, Albion Asbestos Packings Ltd., Montreal, Quebec, Canada, May 5.

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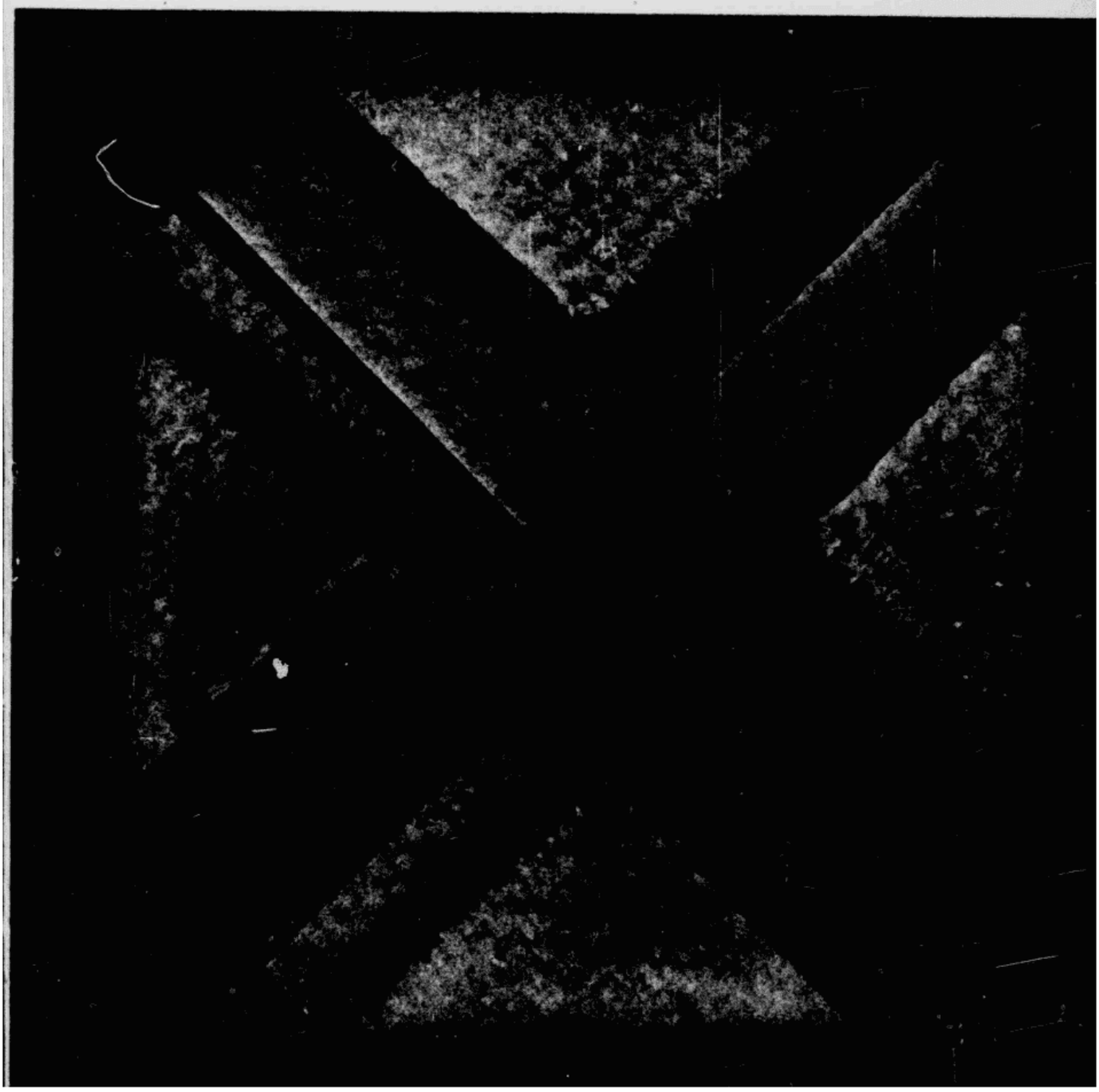
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J. William Duncan, Vice President of Corporate Development and Industry Relations, National Gypsum Company, Buffalo, New York, May 8.

John P. Hayes, Vice President of Merchandising Operations, Gold Bond Building Products Division, National Gypsum Company, Buffalo, New York, May 9.

F. Parker Smith, President, Bell Asbestos Mines Ltd., Thetford Mines, Quebec, Canada, May 10.

C. R. Elliott, Vice President & Secretary-Treasurer, Cassiar Asbestos Corporation Ltd., Toronto, Ontario, Canada, May 11.

R. B. Todd, Vice President of Manufacturing, Atlas Asbestos Company, Montreal, Quebec, Canada, May 11.

Frank C. Waters, Marketing Director, Wunderlich Limited, Sydney, N.S.W., Australia, May 12.

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

Asbestos Slate Association (Sekimen Slate Kyokai) has reported that in 1968 the demand for asbestos slates in Japan reached the all-time high of 69 million pieces, an increase of 17% over 1967. Of this total, only 0.2%, or 130,000 pieces, was earmarked for shipment to foreign countries. According to the Association, 55.2% was used for roofing, 31% for exterior walls, 7.8% for interior walls, 2.7% for ceilings, and the remainder for such uses as room dividers, housing lot boundary markers, etc. Divided into eight areas, the three heavily concentrated industrial-business areas of Kanto, Kansai and Chubu shared about 65% of the overall quantity placed on the market.

Asbestos Mines 1966 has been issued by the Dominion Bureau of Statistics, Ottawa, Canada, as Catalog No. 26-205 and can be obtained for 50c. During the year, Canadian asbestos producers shipped 1,489,055 short tons of crude and milled fiber, valued at $163,654,863. These figures represent a 7.3% increase in quantity and an 11.9% increase in value. The report contains many tables which give the principal statistics of asbestos mines in Canada such as operating costs, employment and payroll, materials and supplies, taxes, miscellaneous expenses, tonnage of rock mined and milled, production and shipments, and imports and exports. There is also a table showing world production by countries.

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PERSONNEL NEWS

ATLAS ASBESTOS COMPANY
DIVISION OF BELL ASBESTOS MINES LTD.

H. Leonard Falle, Vice President-Marketing, has been appointed to the Board of Directors.

CERTAIN-TEED PRODUCTS CORPORATION
PIPE DIVISION

Lee Z. Wilkins has been appointed Customer Services Director, *W. R. Blankenship* is now General Sales Manager, and the new General Marketing Manager is *J. B. Kane. James V. Gear* has become Manager of the pipe plant in Ambler, Pennsylvania.

THE FLINTKOTE COMPANY

The following gentlemen were appointed Sales Engineers for FLINTITE asbestos cement pipe and FLINTKOTE Bell Joint PVC pipe: *Charles F. Price,* South Carolina territory; *Harry Castle,* Eastern Michigan territory; *Frank Charles,* West Virginia territory; and *R. Robert May,* Western Pennsylvania, the panhandle of West Virginia and a portion of Northern Maryland. *Harold E. Beard* was named Vice President-Manufacturing of the Flintkote Gypsum Products Division and is responsible for production and customer service activity related to gypsum products and systems as well as the gypsum quarries at Newfoundland, the asbestos mines at Thetford and the Van-Packer Chimney Systems plant at Buda, Illinois.

GAF CORPORATION

Howard S. Turner has been elected a Director. He is President and Chief Executive Officer of the Turner Construction Company, New York City.

JOHNS-MANVILLE CORPORATION

G. Earl Parker has been appointed Assistant Secretary; *Frederick L. Page,* an Assistant to the President, is now responsible for a variety of special assignments; and *Reynold Nebel* is Vice President and Production Manager of J-M's Industrial Insulations Division.

RAYBESTOS-MANHATTAN, INC.

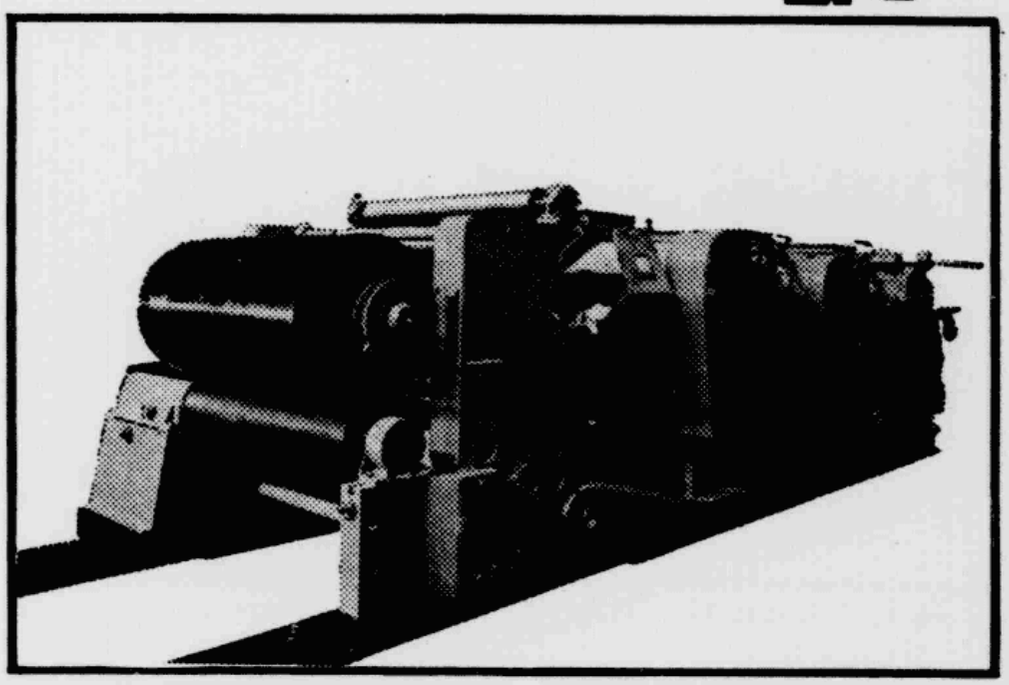
Raymond E. Stauffer, Jr., former Advertising Manager for the U.S. Asbestos Division, has been appointed to the new position of Corporate Director of Advertising and Public Relations and will be located at R/M's headquarters in Bridgeport, Connecticut. *Warren A. Shirk* is the new Sales Promotion Manager for the U.S. Asbestos Division and is responsible for the advertising, sales promotion and public relation programs of the Grey-Rock and Plastic Products Sales Divisions, Manheim, Pennsylvania.

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NOTES FROM 1968 ANNUAL REPORTS

JOHNS-MANVILLE CORPORATION

Record sales and earnings were attained in 1968, reflecting a resurgence of construction activity, successful marketing of new products and recent acquisitions. Net sales were $556,124,000, net earnings reached $40,236,000, capital expenditures amounted to $25,099,000 and $13.3 million were invested in research, development, engineering and geological exploration.

At the plant in Stockton, California, production capacity was expanded for large diameter *Transite®* asbestos-cement pipe used in water transmission, irrigation and sewer systems. Additional pipe capacity was also completed at the Toronto plant to meet Canadian market requirements. A third expansion project involving asbestos-cement pipe is currently underway at the Waukegan, Illinois, plant.

Asbestos fiber capacity was increased with the start-up of the new mine and mill in Reeves Township and the installation of new milling equipment at Jeffrey Mine. Late in the year, work began on an exploratory shaft to be used in evaluating the commercial potential of an undeveloped asbestos ore body in Garrison Township, Ontario.

Continued progress was made in company programs to protect employees against possible health and safety hazards, and to improve the quality of air and water used in manufacturing operations and shared with the community. In October, the nation's first cooperative effort by labor, industry, science and government to conduct a health research program for industrial workers was inaugurated at Mount Sinai School of Medicine. This research, budgeted at $362,500 for the first year, is being financed jointly by J-M and the International Association of Heat and Frost Insulators and Asbestos Workers.

Under the banner of "Life Safety," J-M initiated an intensive informational effort to promote effective application of fire safety principles in construction.

Urban renewal and rehabilitation has become one of the nation's most urgent problems and J-M, in cooperation with community groups and governmental bodies, participated in several significant renovation projects.

RAYBESTOS-MANHATTAN, INC.

Net income improved slightly in 1968 over 1967 although the 10% surtax reduced 1968 net income by $312,000. On net sales of $125,000,639 which increased 6.1% over 1967, net income increased slightly to $3,736,421. Net income per average number of shares outstanding increased to $3.16 from $2.94 in 1967. Current assets were totaled at $46,310,527 and property, plant and equipment, less accumulated depreciation, totaled $22,000,759.

During the year, R/M acquired Spartan Abrasive Company, Morgan, Pennsylvania, as a wholly owned subsidiary and announced its

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intention to acquire The Milford Rivet & Machine Company, Milford, Connecticut. A tentative agreement has been reached to acquire a manufacturer of friction materials in West Germany.

Engineering, manufacturing, research and development, and sales and distribution facilities were strengthened.

Many R/M materials have played a key role in the Apollo launches in the Saturn I and V booster rockets, in second and fourth stage engines, and in the spacecraft.

Raybestos and Grey-Rock brake linings and disc brake pads were accepted by every State and Federal safety standard. In 1968, over 50,000 mechanics attended R/M's expanded training schools and traveling Brake Service Clinics and this year, a new activity, "Training With the Pros With Raybestos," is under way.

Fabrics manufactured from blends of asbestos and new high temperature-resistant synthetics serve as the basic material for highly reflective aluminum coatings and will find usage in the protective clothing markets. A new asbestos-resin filler is used as a component in multiple-strand electrical cables. A new reinforced asbestos yarn is used for long-life papermaking belts permitting increased papermaking temperatures and faster belt speeds.

UNIROYAL, INC.

1968 was a year of achievement for Uniroyal, Inc., as well as one of planning and building for future strength. Earnings were equivalent to $2.06 per share of common stock as compared to $1.13 in 1967, and $1.63 in 1966, adjusted to reflect a two-for-one stock split effective January 15, 1969. With record sales of $1,429,156,000 and net income of $56,946,000, the results were 13% and 73% better, respectively, than for 1967, a year affected by industry-wide strikes.

Expenditures for plant expansion and modernization (exclusive of amounts spent by the company's affiliates) increased to $101 million —the highest level in Uniroyal's history. The value of gross property, plant and equipment was $919,167,000 of which $668,738,000 was located in the United States, $94,696,000 in Canada, Central and South America and $155,733,000 in Great Britain, Europe, Africa and the Far East. The net book value was $413,975,000. Total inventories, at lower of cost or market, were $343,125,000.

1968 marked the start of construction of a multi-million-dollar adminstrative, research, training and computer complex in Western Connecticut to supplement the company's corporate headquarters which will remain in New York City.

Programs were initiated to help deal with national and community problems of hard-core unemployment, industrial waste and air pollution.

Looking ahead to an enlarging market that will require still further expansion of its productive facilities, Uniroyal has allocated in excess of $600 million for additional investment into plant and equipment over the next five years.

Asbestos Magazine, 1969, April 1969
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ASBESTOS STOCK QUOTATIONS

Close — March 28, 1969

Abitibi Asbestos	*$7.15
Advocate	*$3.25
Armstrong Cork	78¾
Asbestos Corp.	*$23.50
Bendix	47⅛
Bendix (pfd 3)	72½
Carlisle	28½
Cassiar	*$20.12
Certain-teed	33⅝
Conwest	*$9.20
Flintkote	28⅛
F-kote (pfd-A 4.50)	83¼
F-kote (pfd-B 2.25)	40
GAF	27⅝
GAF (pfd 1.20)	36
Garlock	23¼
Glen-Alden	13¾
G-Alden (pfd 3)	97
Grace	39½
Gulf & Western	32¾
G&W (pfd 1.75)	105¼
G&W (pfd 3.50)	132⅛
G&W (pfd 3.87)	67⅛
G&W (pfd 5.75)	70½
Johns-Manville	82⅞
Johns-Manville (wi)	41⅞
Maremont	16⅝
National Gypsum	67
Patino	*28.37
Porter (pfd 5.50)	76¼
Raybestos-Manhattan	54⅛
Unarco	13½
Union Carbide	43½
Uniroyal	27⅞
Uniroyal (pfd 8)	122

*Canadian currency
wi—when issued
(Source: The Wall Street Journal)

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ASBESTOS PRICES

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

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

No. 1 Crude	$1,410.00 to	$1,650.00
No. 2 Crude	700.00 to	950.00
AAA		800.00
Group No. 3 (non-ferrous filtering-plastic)	425.00 to	700.00
Group No. 4 (non-ferrous filtering-plastic)	400.00 to	500.00
Group No. 5 (non-ferrous filtering-plastic)	385.00 to	425.00
Group No. 6 (non-ferrous plastic)		250.00
Group No. 7 (white shorts)	65.00 to	90.00

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

(As of January 1, 1969) Canadian Currency

Crude No. 1	$	$1,480.00
Crude No. 2		800.00
Group No. 3 (spinning fiber)	385.00 to	630.00
Group No. 4 (shingle fiber)	212.00 to	360.00
Group No. 5 (paper fiber)	152.00 to	180.00
Group No. 6 (waste, stucco or plaster)		110.00
Group No. 7 (refuse or shorts)	50.00 to	92.00

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

(As of January 1, 1969) Canadian Currency

AAA	grade (non-ferrous spinning fiber)	$ 845.00
AA	grade (non-ferrous spinning fiber)	673.00
A	grade (non-ferrous spinning fiber—Canadian Group 3)	508.00
AC	grade (asbestos-cement—Canadian Group 4)	363.00
AK	grade (shingle fiber—Canadian Group 4)	249.00
CP	grade (shingle fiber—Canadian Group 4)	234.00
AS	grade (shingle fiber—Canadian Group 4)	217.00
CT	grade (shingle fiber—Canadian Group 4)	211.00
AX	grade (shingle fiber—Canadian Group 5)	193.00
CY	grade (shingle fiber—Canadian Group 5)	136.00
AY	grade (shingle fiber—Canadian Group 5)	136.00

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

(As of January 1, 1969) U. S. Dollars

Group No. 3 (spinning & filtering)	$ 356.00 to	$ 382.00
Group No. 4 (shingle fiber)	195.00 to	331.00
Group No. 5 (paper fiber)	141.00 to	165.00
Group No. 6 (waste, stucco or plaster)		102.00
Group No. 7 (shorts & floats)	47.00 to	85.00

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BUILT ON A ROCK

Crude Asbestos is the rock on which our business is built. In the Scandura Factories at Cleckheaton and West Auckland it is used to manufacture everything for which asbestos is best, from yarns and cloths to all types of jointings and packings. Our Research Laboratories keep us at the head of development; Asbestos is *our* subject.

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ASBESTOS PATENTS

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

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

U.S. Patents issued from February 4 through March 4, 1969.

3,428,265—Apparatus for Dressing Crude Asbestos Separated from the Source Rock, K. A. Oesterheld, February 18, 1969.

3,421,090—Low Melting Metallic Articles Reinforced with Modified Chrysotile, O. A. Battista & F. J. Karasinski (assigned to FMC Corporation, Philadelphia, Pennsylvania), March 4, 1969.

Abitibi Asbestos—In a report to the shareholders of Abitibi Asbestos Mining Company Limited, President J. Hugh Ryan advised that shares of the company were listed for trading on the Canadian Stock Exchange on January 29, 1969, and are traded under the ticker symbol "ABS."

Gordon H. Gibbs, Consultant to the Partnership formed by Abitibi Asbestos and Shield Minerals Corporation, has reported on the progress at the "A Group" asbestos claims in Maizerets Township, Quebec. During January, 17 drill holes were completed to indicate down-dip extension of the fiber zone on all sections. Recalculation shows a total of 80 million tons averaging $5.13 per ton and 2.93% content. The asbestos consists of 1.84% of Grade 4T and 1.09% of Grade 6D. The tonnage is in a single deposit and could be mined by open pit methods to an average vertical depth of 800 feet. The waste to ore ratio is less than 2 to 1. Work is continuing with 4 drill rigs on a program of 26,000 feet of additional drilling designed to increase the open pit tonnage. The Partnership has accelerated its planned exploration program in order to complete grid drilling and bulk sampling on the "A Group" claims, as well as to explore several of the other properties owned by the Partnership.

GUMMI ASBEST KUNSTSTOFFE

is the asbestos periodical in Europe which covers editorially in each issue the production, processing and application of asbestos. Therefore, it is read by all firms connected with the importing and processing of asbestos in 60 countries and is used for advertising by the asbestos mines all over the world.

Subscription fee DM 66.—plus postage per year.

Published by: A. W. Gentner Verlag KG, 7 Stuttgart-W Forststr. 131, Postfach 688.

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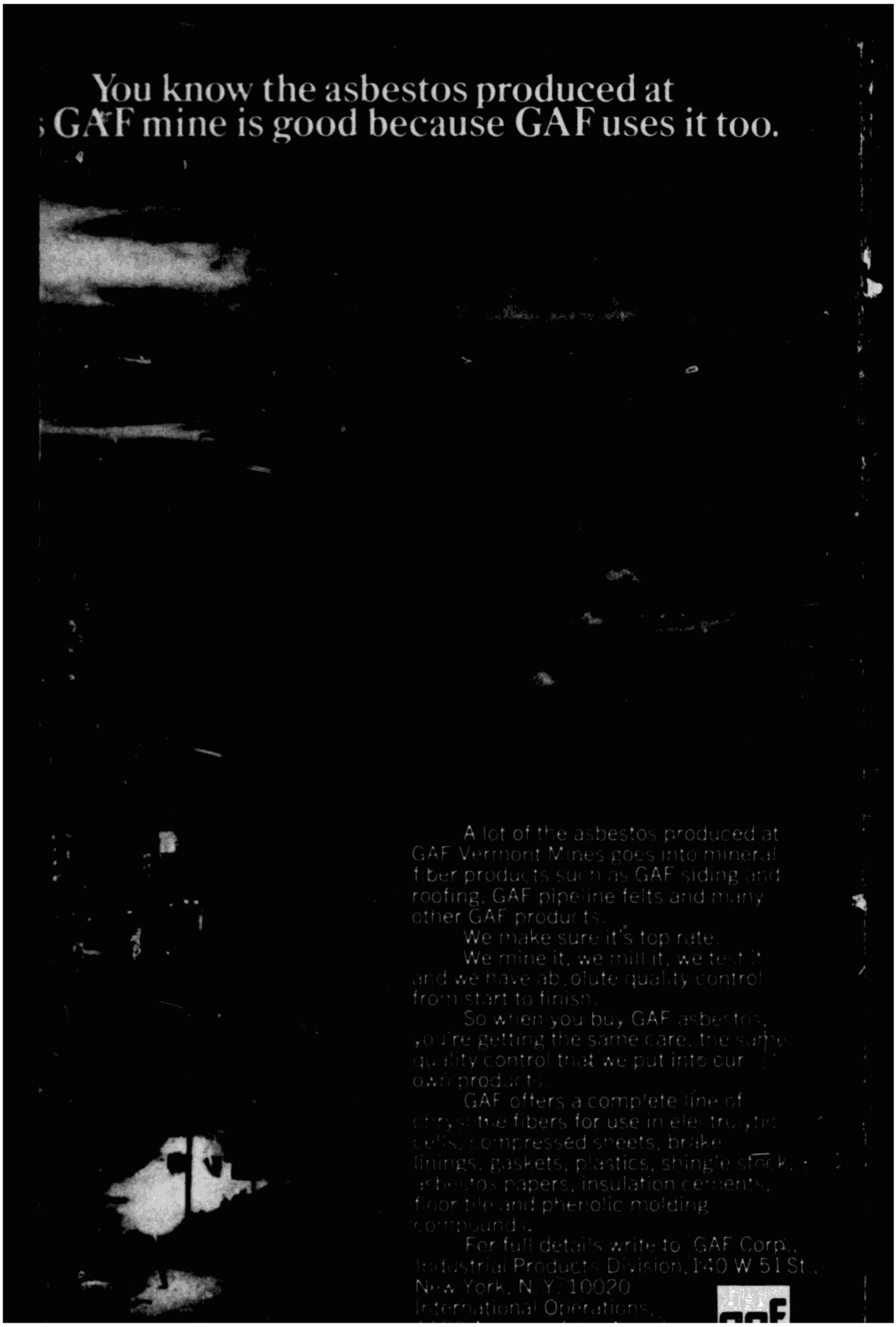
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