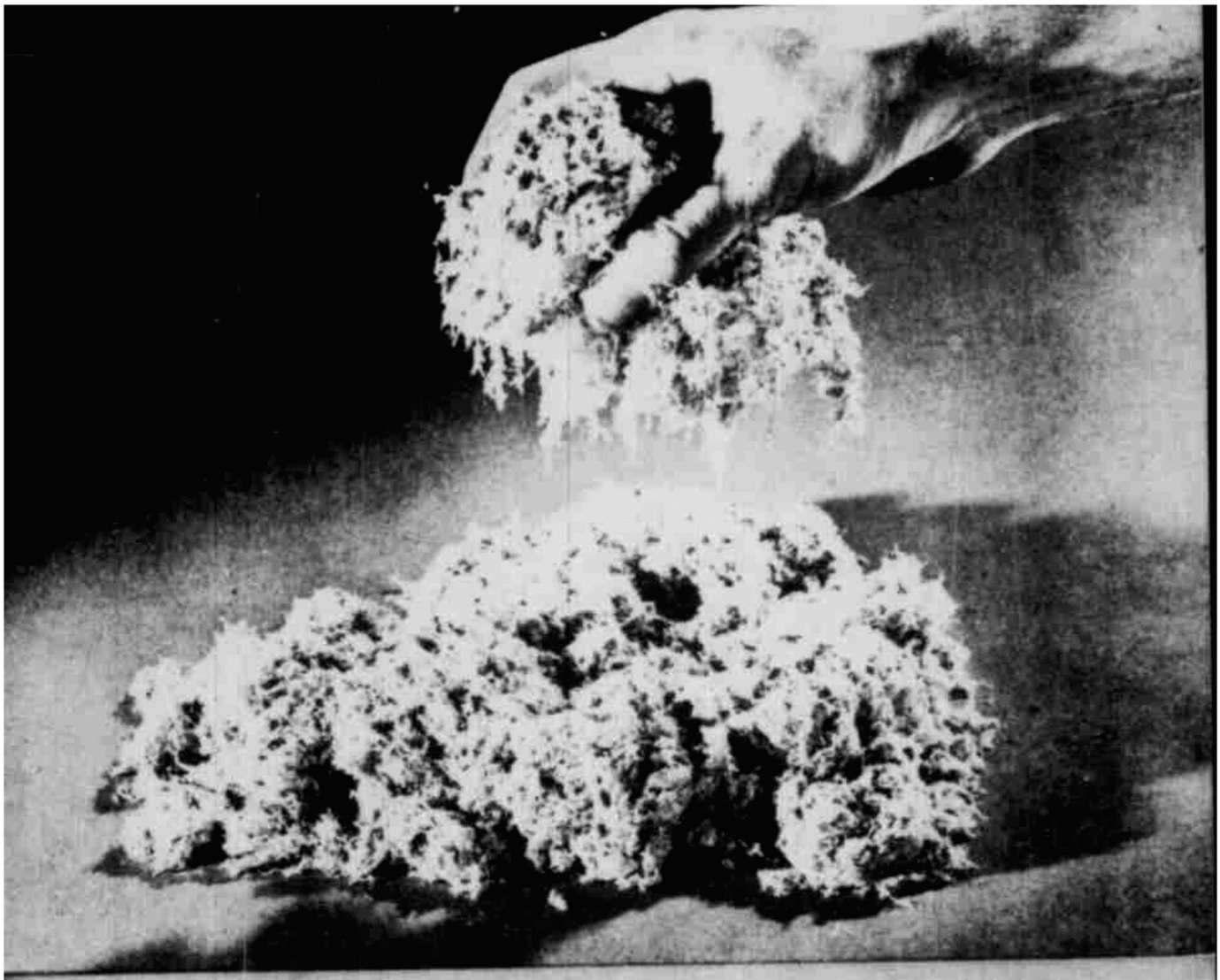


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ASBESTOS

VOLUME 48 FEBRUARY 1967 NUMBER 8

CONTENTS

FIBRE ATTRITION IN MILLING OPERATIONS 2
LONG FIBRED AMOSITE 12
K. RHEINHOLD—
RECEIVES ASBESTOS STORY RING 16
AUTOMOBILE SALES 20
BUILDING 24
MARKET CONDITIONS 28
PRODUCTION 36
IMPORTS & EXPORTS 38
INDUSTRY NEWS 42
ASBESTOS STOCK QUOTATIONS 46
ASBESTOS PRICES 50
ASBESTOS PATENTS 52

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FIBRE ATTRITION IN MILLING OPERATIONS

By: W. E. Sinclair*

*Deceased

A study of modern processing methods of fibre extraction reveals an outstanding advance in milling techniques notwithstanding the ever present existence of certain constitutional variables inherent in the different classes of asbestos and their ores.

Half a century of practical study and methodology combined with growing technological progress has helped in the mastery of the many inconstant factors and, as a result, the development of a positive pattern of treatment. The general principles of processing by means of dry pneumatic separation have, in theory, attained the status of a standardized system, originally established as a result of practical experience gained in the treatment of chrysotile on the "Serpentine Belt" on the Canadian field.

The expansion of this practice in other fields abroad has been marked by progressive changes, albeit with modifications necessary in the treatment of different asbestos qualities as these are more commonly manifest in the amphibole varieties.

In some of the extreme variable conditions it has been suggested that milling methods are often the result of individual preferences rather than the judgment based on proved comparative data. However, even allowing for an accepted system, no yardstick is actually available to determine absolute results to explain the differences in personal opinions. It is rightly said that any physical means aimed at checking milling results is usually approximate, depending largely on the human equation.

This question remains uppermost when consideration is given to the conditions existing in the treatment of the amphibole ores and especially amosite and crocidolite, whose fibres are imbedded in excessively hard ironstone host rocks. The basic aim, in every case, is the reduction of the ore in successive stages to release the contained fibre within economic limits, no matter the degree of hardness of the ore. Obviously, the usage of effective machines and their



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Thetford Mines, Quebec
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correct placement to achieve satisfactory results is of vital import.

Improved plant design has assisted considerably in processing advance to produce maximum fibre recovery. This trend is but a natural effect brought about by the changing demands of industry due principally because manufacturers, to conform to modern fabrication techniques, require cleaner fibre, graded and classified to uniform standard specifications. The call for increasing outputs, even including the finest rejects (shorts and floats, etc.), has resulted in a race for intensive production methods by the introduction of research studies in the design of special machines. The basic aim, of course, is to achieve clean separation and the completeness of fibre recovery.

Unfortunately, in securing maximum efficiency in certain crushing machines, the grinding and shearing effect is often responsible for serious attritional damage to the fibres before they are swept from the machine. As we know, the principles of differential disintegration consist simply of the reduction of the ore to effect the complete separation of the fibrous constituent and the gangue material. The final procedure aims at the recovery of the fibre strands in an opened (fiberized) condition resembling and retaining, as nearly as possible, their natural valuable properties. This is a fact and viewpoint that should not be overlooked in every stage of asbestos recovery.

The selection of milling machines depends, in some cases, on the tonnage capacity or that of machine efficiency contingent upon prevailing conditions, such as, the stage of milling and the all-important question as to the possible attritional damage to fibres in the reduction processes. This applies especially to the fine crushing, disintegration, fiberizing and grading stages.

It is strange that, notwitstanding the marked advance in milling systems, little research work has been concentrated on this question, that is the damage to fibres in the process of comminution in modern milling procedure. This is strange because it has been proved in many cases that the expected recovery of different fibre grades, based on measured fibre lengths in the ore, indicates a definite de-

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crease in tonnage of the longer milled grades, but an increase in the shorter fibres and rejects. Also, in most instances, the net result is a reduced overall tonnage recovery as compared with calculated estimates.

It is well known that theoretically there is no limit to the number of fibre strands that can be extracted from a chunk of crude asbestos. This is because there is no basic size or diameter of asbestos fibres. Down to the limit of ordinary micro-observation, each fibre is just a bundle of smaller fibres so that, in theory, as already suggested, there is no limit to the opening up process, but in practice, using modern fiberizing machines, it is obvious that a stage would soon be reached when the fibres, if not entirely broken or damaged, are weakened in the process of being reduced to a fluffy mass. There is no doubt that this stage often occurs in the opening up process in modern milling machines.

Fine crushing and fiberization are the most critical and important operations of any milling process which, incidentally, calls for a specially designed centrifugal type of milling unit. There are many various designs in this class of plant today. Unfortunately, however, the mechanical action of most of these mills, where revolving hammers or beater arms are arranged to impinge on the material, there is a pronounced tendency to shear and cut the fibre as it is released from the rock. It would seem that if the crushing effect of a machine consists of a nipping action instead of the grinding and shearing effect there is a better chance that the released fibres would escape the severe treatment inevitable or unavoidable in the centrifugal type of crusher. There are not many crushers that are made to impart this action in the fine crushing stages of asbestos treatment.

It is recognized that the degree of fiberization should depend on the ultimate end use of the product. The crushing or fiberizing machines in this objective should be tested and proved effective on the sized ore delivered to this stage, particularly in their performance and ability to impart the minimum amount of friction and grinding action in the process of reduction. This, indeed, is an axiom applicable in every field and stage of comminution where fibres are exposed to the hazards of attrition.

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It is this considered question that makes it clear that tonnage capacity in modern damaging machines should be of secondary consideration, indeed, it is an example where economy, in the form of machine efficiency and maximum output, should be sacrificed on the altar of fibre quality.

The one and possibly only solution to this problem would appear to be found in the revolutionary idea of rubber-lined crushing machines, and, indeed, the introduction of rubber-lined plant throughout the mill would not be amiss.

The use of rubber in machines of various kinds, as a saving in metal wear, is not new, but has yet to be introduced in asbestos plant design as a counter to the damaging effect of wholly steel constructed crushers. This is another surprising factor when consideration is given to the close control of fiberization, especially in the changing techniques and requirements in the growing utilization of asbestos.

Greater attention is being paid to the tensile strength of individual fibres in the fabrication of many products. Actually this presents a rather difficult problem to resolve in modern milling methods. Rubber-lined machines would undoubtedly overcome the weakening of individual fibres.

Early experiments with rubber in various crushing machines such as ball and hammer mills, and also in centrifugal gravel pumps, soon indicated that there was no significant wear as compared with the older all-metal units. Indeed, early research and normal tests proved conclusively that when fitted and bonded in the right manner, rubber outlasts steel linings in mills and other plant and yet is just as effective in output capacity.

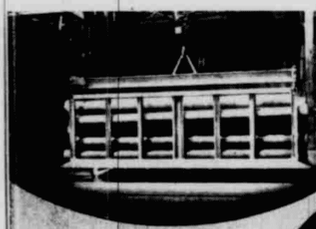
Whilst rubber has, in recent years, demonstrated that there are many instances where it can replace steel directly with definite cost advantages and other tests have shown convincingly that in some applications it offers material advantages in technical performance. This indicates that there should be a complete absence of the usual grinding and pulverizing functions of most fiberizing machines. It is because of the action furnished by steel hammers impinging on the fibrous ore necessary to promote the general principle of inertia that finally causes the severe smashing of the particles against corrugated steel liners in the casing of the machine.

AUTOMATIC PLANTS TO MAKE SOCKETED PIPES

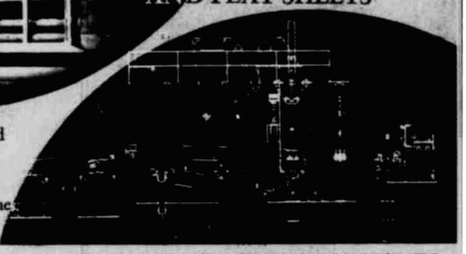


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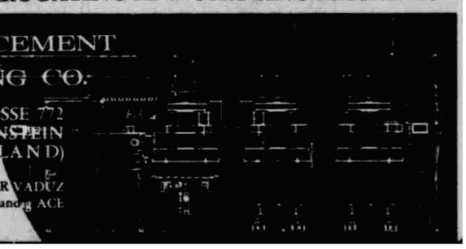


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While in most cases where rubber linings and rubber covered beater arms have been introduced, it has been found that the working life is generally increased by two to three times that of steel, giving a similar material cost saving to the older types. This, in itself, is an encouraging factor, but the material advantages in avoiding damage to the material being treated and yet to ensure the complete and maximum extraction of these, will prove a wonderful advance in the recovery of perfect undamaged fibre.

The results secured would obviously add in general to the profitable recovery from the ore which, as we know, depends entirely upon fine crushing without attritional effects.

As already mentioned, rubber has also been introduced in various other plant and equipment, including certain types of special screening machines with a vibratory action. The main object of this innovation is to save wear and tear on fine wire mesh screening but it also proves most beneficial in avoiding the tendency for the material to pack and blind the openings, thus increasing efficiency and preventing damage to fibres which is sometimes prevalent in steel wire screens.

CANADIAN SHIPPERS COUNCIL—Sixteen important Canadian trade associations have joined to create the Canadian Shippers Council, an association that will seek to speak with a united voice for Canadian companies in matters of international transportation of cargo. As one of its primary tasks, the council will undertake to develop closer cooperation and consultation between shippers and carriers in international trade. This is a matter of increasing importance in the light of rising costs and significant changes in ship design and materials-handling equipment, and in such labor-saving practices as pre-palletization and containerization.

The council's chairman is *I. C. Campbell*, vice-president and treasurer of Asbestos Corporation Limited. He will represent the Canadian Export Association, one of the 16 founding associations.

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Long Fibred Amosite

Ordinarily long fibred asbestos carries a substantial premium in price over shorter fibres. The exception is long fibred Amosite, which is priced at very little premium over the shorter and medium grades. The potential of these long fibres is still largely untapped.

Grade D3, the longest Amosite grading, is an unusual material. Fibre length averages from two to six inches with occasional crude chunks eight to ten inches long. The high heat and chemical resistance and excellent fibre strength of Amosite is well know, but the remarkable resiliency and bulking characteristics of the long fibred gradings are sometimes overlooked. D3 Amosite is ideally used as a low-cost, light-weight, thermal insulating material. In textile applications it can be readily carded or garnetted into low density batts and non-woven felts.

An example of the high bulking property is in the sprayed insulation for thermal or acoustical applications. With D3 Amosite, as much as 50% greater coverage can be achieved than with conventional sprayed material. Further evidence of the bulking characteristics of Amosite is found in asbestos rope. When made with D3 Amosite, asbestos ropes, for a given diameter, weigh only one-third to one-half as much as ordinary asbestos rope.

Highly resilient, phenolic bonded insulations have been produced utilizing long fibred Amosite at densities as low as one pound per cubic foot. In filtration applications, Amosite felts and fibres are currently being considered for the control and filtration of smoke, smog and other airborne pollutants. A light-weight, non-woven felt, made of D3 Amosite, can be impregnated advantageously with bituminous products or other plastic materials. Amosite products of this type are being evaluated as a durable, impermeable ditch liner for reclamation and irrigation projects. A light-weight, low cost roofing material is a potential product.

Grade D3 Amosite is a low-cost material. In its crude form it is priced at about one-half the cost of cotton, sisal, or other organic fibres, and less than one-half the cost of continuous filament glass fibre. It is comparable in price to

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Group 4 Chrysotile asbestos. Processing or fiberizing the crude is easily and inexpensively accomplished in a hammermill or attrition mill. To those thinking of better products, a new look at long fibred Amosite may prove interesting. In applications where a product requires stability, high strength, and low density, D-3 may be the answer.

(Reprinted from North American Asbestos Corporation, Asbestos News, January 1967)

CHRYSOTILE ASBESTOS (relationship of the surface and thermal properties to the crystal structure), by Edward Martinez, appeared in the November 1966 issue of the Canadian Mining & Metallurgical Bulletin. Due to its unique properties, chrysotile asbestos is used in many diversified applications. In recent years, a better understanding of the structure and properties of chrysotile has evolved due to the research efforts of many investigators. A summary of the results of some of these investigations is given. An attempt is made to show the relationships between the properties of chrysotile and its crystal structure. Examples are cited in which methods have been developed for modifying the properties to improve the performance of asbestos in some applications. These include the effect of pH on the positive zeta potential, and the addition of sodium silicate to improve filtration characteristics. The dehydroxylation and formation of forsterite when chrysotile is heated are also discussed.

"ASBESTOS BULLETIN"

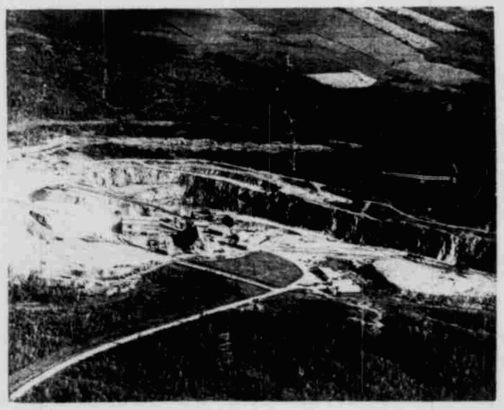
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K. RHEINHOLD

Receives Asbestos Story Ring

At an informal ceremony held at the Hotel Eisenhut, Rothenburg, Germany, Mr. Klaus Rheinhold was presented with the Asbestos Story Ring. Mr. Rheinhold recently retired as a partner of the firm of Becker & Haag, of Hamburg, after many years of service to the Asbestos Industry in Germany and in other parts of central Europe. His firm has acted as distributors for the fibres of Asbestos Corporation Limited for some fifty years.

The presentation was made by Mr. A. L. Penhale, President of Asbestos Corporation Limited at a small gathering of friends of Mr. Rheinhold, which took the form of a dinner at the hotel. A moving eulogy of Mr. Rheinhold was made by Mr. Werne Wilke, General Manager of Rex Asbestwerke of Schwabisch Hall.

The Asbestos Story Ring symbolizes in its design the production and manufacture of asbestos fibre from mine to finished product. Mr. Rheinhold is the ninth recipient and the first European to be so honored.

MESSRS. L. G. HANCOCK & E. A. WRIGHT, of Perth, Australia, have purchased all the assets of Australia's only asbestos mining company at Wittenoom Gorge, Western Australia, in a determined effort to keep it in production. The transaction will be subject to State government approval of the transfer of the blue asbestos claims now held by Australian Blue Asbestos Pty. Limited, the operating subsidiary of Colonial Sugar Refining Company. Messrs. Hancock and Wright acquired Wittenoom to keep it intact and to prevent it being broken up. They believe that in time they will be able to re-establish the mine on a much bigger scale. A possible result could be the establishment of an asbestos-cement factory at Cape Lambert, near Roebourne. Drilling already done in the Wittenoom area has shown a field with an established life of 30 years on a throughput of 15,000 tons a year.

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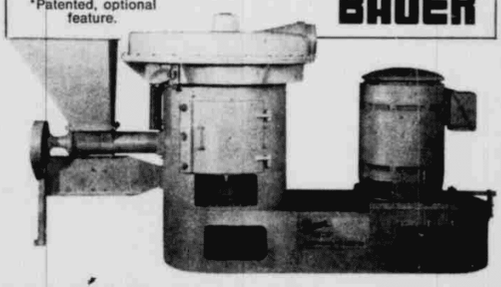
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HANDBOOK OF ASBESTOS TEXTILES, third edition, is now available and may be obtained directly from the Asbestos Textile Institute, P. O. Box 239, Pompton Lakes, New Jersey 07442 at a cost of $1.50 per copy, plus postage. This edition is dedicated to the memory of *Dr. Myril C. Shaw* who served as Executive Secretary of the Institute from 1948 to 1963, and whose work as Research Fellow contributed in countless ways to the advancement of the asbestos textile industry.

The new 102-page edition is substantially the same size as the former edition, but the text has been updated in many places and it contains data which it is hoped will prove helpful to users and others who may benefit from knowing about asbestos textiles and their adaptability to numerous industrial requirements. The titles of the various chapters are: introduction, the mineral asbestos, the mining, milling and grading of asbestos fibers, processing asbestos textiles, asbestos textile products (lap, roving, yarn, cord, thread, cloth, tape, tubing, wick, rope, non-woven felts, carded fiber), ASTM specifications and methods of testing, glossary, and index.

W. S. HOUGH has resigned as Manager of the Asbestos Textile Department of *Johns-Manville Corporation*, effective the end of February 1967. A graduate of Rutgers University, Mr. Hough joined J-M in 1926 as a research chemist. He was progressively a sales engineer, founder and manager of the Aviation Industry and the Chemical Industry Departments, Chicago district sales manager of industrial products, and manager of mechanical packings. He was also a past Vice President of the Mechanical Packing Association and is presently on the Board of Trustees of the Chemists' Club of New York. Mr. Hough has been very active in the Asbestos Textile Institute, having served as Treasurer in 1959 and 1960, and President in 1961 and 1962. Presently he is serving as Chairman of the Sales Promotion Committee, and in that capacity has sparked the drive to review the Handbook of Asbestos Textiles, the new edition of which is now available for distribution.

Mr. Hough, with his wife, expects to travel considerably in 1967 before announcing any future business plans.

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Automobile Sales

NOVEMBER 1966 motor vehicle factory sales from plants in the United States totaled 982,806 (passenger cars—832,834; trucks and buses—149,972). The total for November 1965 was 1,058,094. The total for the first eleven months of 1966 was 9,408,560 compared to 10,014,374 for the same 1965 period.

United States motor vehicle imports for November 1966 were as follows: new passenger cars—78,687 valued at $109,431,534; used passenger cars—303 valued at $339,832; trucks and buses—4,781 valued at $9,795,077; and, automotive parts—valued at $43,050,823. (Automobile Manufacturers Association)

RECORD MINERAL OUTPUT—1966 was another record-smashing year for United States mineral industries, the fifth in a row. Preliminary year-end estimates by the U.S. Bureau of Mines show that the physical volume of output for most minerals rose appreciably and total value of production soared to a record $22.8-billion, at least 6.5% above 1965. This 1966 value gain is the largest in a decade. Total value for nonmetallic minerals other than fuels rose 4%, approximately the same as the 1965 gain. Asbestos attained new highs, gaining 17% in production and 19% in value. California again accounted for most of the production gain.

U.S. RUBBER will establish a 1,200-acre industrial park at the former Erie Army Ordnance Depot near Port Clinton, Ohio. The company will occupy about 20% of the three-million square feet of floor area, including the coated fabrics operations it started in 1965 on a portion of the site. Operations will include light fabrication, finishing and distribution of some industrial products, tire storage and textile storage. Other activities are being studied for future expansion. *John J. Kelley* has been appointed property operating manager, and will be in charge of the industrial park development.

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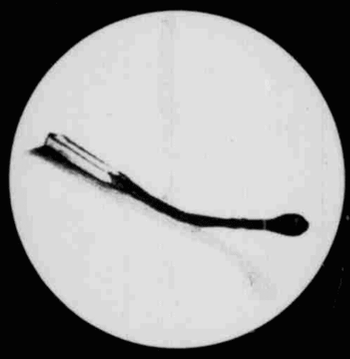
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ASBESTOS CEMENT INDUSTRY, by V. N. Somani, appeared in Business Digest India (1965, 13, No. 7, 73-5). The development of the world's asbestos-cement technology is surveyed and the situation and problems of the Indian asbestos industry are discussed.

DRILLING AND BLASTING AT NORMANDIE MINE—In the September 1966 issue of The Canadian Mining and Metallurgical Bulletin, R. B. Hall and J. E. McMenamin describe the evolution of open-pit drilling and blasting practices at the Normandie mine of Asbestos Corporation Limited. Normandie mine is situated about ten miles south of Thetford and all mining is carried out in an open pit. (Mining Magazine—December 1966)

1967 SURVEY OF MINES covers the whole spectrum of Canada's mining industry, from the giants to the exploration bets. It tells how Canadian mining has grown from many small operations into a business that now includes some of the biggest industrial organizations in the world. This 41st annual survey covers company reviews, development activities, price range, production tables, maps, defunct companies, etc. (The Financial Post, $7.00)

THE ASBESTOS CEMENT INDUSTRY AND THE NATIONAL ECONOMY, by Y. S. Grizak, has been translated from Russian and covers production growth capacities for sheets and pipes under the last seven-year plan. Since output is still insufficient to meet the constantly growing demand for asbestos-cement goods, a new five-year plan has gone into effect which calls for doubling the production rate. To fulfill this plan, it is necessary to streamline operations of existing factories. Under the new plan, 24 factories will be reconstructed and a number of new units built. Irregularities of asbestos supply and failure to observe the required process conditions are being eliminated. Operating machinery in many factories is out of date and equipment in the asbestos-cement industry will be replaced.



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Building

DECEMBER 1966—The total value of December construction contracts was $3,189,285,000, 14% below the comparable year-ago amount of $3,698,208.000. Most of the December-to-December decline was in residential building. The gain came almost entirely from the nonbuilding construction category, with a heavy volume of highway contracting and utilities projects boosting the month's total. Both housing and nonresidential building were holding about even with their November rates of activity. Housing has finally leveled off from its precipitous decline, while nonresidential building remains fairly stable at a high level.

Nonresidential building contracts, at $1,358,371,000, slipped behind their year-ago value for the first time in 1966. Commercial and industrial building, hospitals, public buildings, and recreational facilities participated in the 5% decline. Educational and religious buildings, however, scored gains.

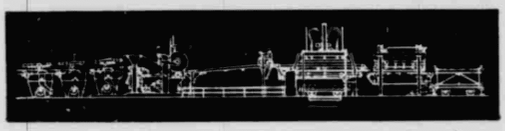
Residential building contracts were valued 38% below the high year-ago total, but the $903,245,000 total suggested that the severe 1966 housing decline has been arrested.

Nonbuilding construction contracts were valued at $927,669,000. Continued strength in contracts for both highway construction and utilities expansion led to this 13% advance.

YEAR 1966—The year closed out with a modest upswing in contracts for future construction. Construction contract value advanced 2% from 1965, to a record amount of $50,150,085,000. Nonresidential building reached another all-time high, at $19,393,085,000, gaining 13% over 1965's total. Manufacturing buildings, schools, and hospitals advanced the most in a year in which every major nonresidential building category showed at least a 5% increase. Residential contract value, including one-family homes, apartments, and nonhousekeeping buildings such as hotels and dormitories, reach $17,827,380,000,. This 16% decline from 1965's total was attributed to last year's tight money condition. Nonbuilding construction contract value reached $12,929,620,000, a 20% advance over 1965.

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ASBESTOS-CEMENT PRODUCTS are making impressive strides in a drive for a bigger piece of the "construction action". Big gains are being shown in the use of curtain wall cladding, particularly on sophisticated commercial buildings. Substantial growth is also being recorded in the use of asbestos-cement Transite Pipe used in water and sewer lines as well as in special industrial applications where temperature, pressure and corrosive strength play an important part. Officials at *Canadian Johns-Manville Co. Ltd.* say a number of factors have helped boost sales. Rising freight and labor charges have resulted in architects and builders seeking light-weight and easy to apply materials for building construction. Asbestos-cement cladding answers these needs. In addition, new techniques have been developed which have made asbestos siding for homes, and cladding for industrial and commercial buildings more sophisticated, more aesthetically pleasing and able to meet a wider range of requirements.

ASTM STANDARDS/TEXTILE MATERIALS — Specifications for Textile Testing Machines (D76-66), Asbestos Textiles Used for Electrical Insulating Purposes (D2100-66T); Specifications and Methods of Test for Asbestos Tapes (D315-66T), Test for Woven Asbestos Cloth (D1571-66T); Definition of Terms Relating to Textile Materials (D123-66). (Single copy—$1.00)

AUSTRALIA produced 18,502,000 square yards of asbestos-cement sheets during the first seven months of 1966.

Cable Address "Fraruggles" Telephone (201) 379-2186

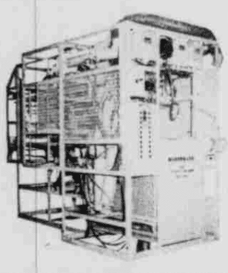
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ASBESTOS WASTE

Frank G. Ruggles Co., Inc.

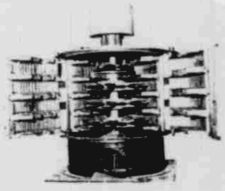
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Drive Equipment
Air Separators
Motorized Floor Sweepers
Bucket, Man Lift & Freight Elevators
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Crushers
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MARKET CONDITIONS

General Business.

While certain sectors of the economy continue to show signs of softness there is little evidence of a real slump in general buiness. Auto sales are off considerably from those of 1966 resulting in substantial production cutbacks by all domestic producers. Home building continues in the doldrums but realtors are predicting an upturn in the near future. The President's address on the state of the union suggested certain measures which, on the whole, could be interpreted as mildly inflationary, and the strong upward movement of the stock market since then indicates that many investors are anticipating an easing of the tight money situation which prevailed during the latter part of 1966 and also are sanguine about the prospects for good business in the months to come.

Recent unrest in China, according to the meager reports obtainable up to now, could well lead to some major changes in the world political situation but it is too early to see what the ultimate outcome will be.

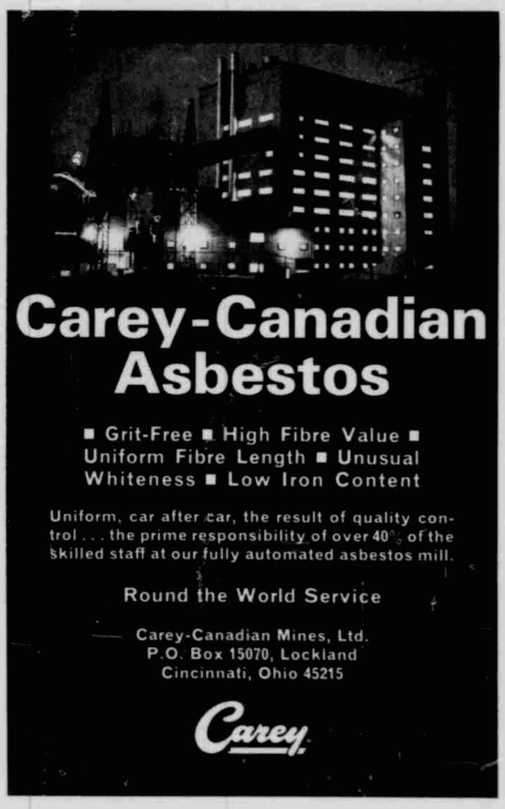
Asbestos—Raw Material.

Quebec asbestos fibre shipments for the Industry during December 1966 totalled 106,254 tons, 21,672 tons or approximately 17% lower than the same period last year.

Total shipments for the year 1966 at 1,332,775 tons exceed those of 1965 by 103,436 tons or roughly 8%.

Asbestos—Manufactured Goods.

Asbestos Textiles. There are strong indications that the sales impetus generated by the demand for asbestos textiles in 1966 will carry well forward into 1967. Sales barometers of the heavy industries, such as oil, steel, and shipbuilding, point toward the continued high usage rate of asbestos textiles. In addition, the wire and cable and



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public utility markets show a strong tendency for further consumption of asbestos products.

Asbestos Brake Lining. The present market situation for this material is excellent and should remain strong during the coming months.

Asbestos Siding. Demand for home improvement work should be on the increase. Consumer income is at a record high; money is tight for new home financing, but available for financing for home improvement.

Asbestos Filter Fiber. The market for Arizona filter fiber is very steady and the usual seasonal increase for the first of the year is being felt. The outlook for 1967 is good and increases are expected in markets for some grades of filter fiber which are in short supply. It is difficult to predict what effect the present Rhodesian situation will have on Arizona markets.

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

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SILUMINITE asbestos paper tubes and sections and "Sindanyo" asbestos-cement machined tubes and rods are described in a revised brochure available from Turners Asbestos Cement Company Limited. Full dimensional details are given and also information on the several grades of tubes and rods designed for differing applications. Rewirable fuse handles, electric heaters and resistance formers are included in the illustration showing typical applications of the products.

R/M 'GATOR TAPE L-8735, a new moisture-, oil- and flame-resistant, woven-asbestos tape for insulating underground cable, has been developed by the Asbestos Textile Division of *Raybestos-Manhattan, Inc.* It is made of high-quality woven asbestos, doubly treated to resist intense heat, moisture and corrosion. Even after being sujected to a temperature of 500°F. for an hour, R/M 'Gator Tape still retains 50% of its original strength. The tape is green-tinted, flexible and outstandingly durable, having a tensile strength of 200 pounds per inch of width. It can be wrapped around cable dry without special preparation or messy aftercoating.

NATIONAL GYPSUM/A-C SHEETING—Air separation plants are usually ugly and noisy, but not the new facility just completed by American Cryogenics, Inc., at Savannah, Georgia. Plant management, aware of the need to overcome community objections to noisy, ugly plants, set out to find a siding that was both attractive and effective in dampening sound. After considering various siding treatments, the firm decided to use National Gypsum Company's dark green Colored Corrugated "400", an asbestos-cement sheeting, factory-finished in Plasti-Clad. It was estimated that the asbestos siding reduced noise transmitted to the outside at least 30% better than metal siding. Asbestos-cement is more porous than metal, and has greater mass—eight times that of some metals—two fundamental factors in reducing sound transmission.

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And they'll do the same for floor tile, caulking compound or acoustical plaster. They also help formulations resist weather, fire and heat. May add years to their life. Processing facilities are conveniently located to give asbestos the desired characteristics you need. In addition, a team of technicians familiar with all phases of asbestos production is available. To know more about Gold Bond® Asbestos—contact National Asbestos Mines Ltd., Thetford Mines, P. Q., Canada, or write to National Gypsum Company, Buffalo, New York 14202.

Gold Bond
ASBESTOS FIBRES

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BRAZIL MINERAL RESEARCH—The National Department of Mineral Production responsible for carrying out the 10-year Mineral Research Plan, estimates that imports of mineral raw materials, unless checked by new discoveries, will cost Brazil US$550-million in 1965-68, including US$29.8-million for chrysotile. Over the 3-year period, Brazil will invest US$23-million in mineral research.

SIMPLICITY ENGINEERING COMPANY has entered into an agreement with *Noyes Brothers Pty. Limited* whereby Noyes will manufacture and sell Simplicity equipment under guidance of Simplicity Engineering. Noyes Bros. maintains sales offices throughout the major industrial areas of Australia. They will begin immediate production of Simplicity screens, conveyors, crushers, and feeders for the aggregate and mining industries. Noyes is owned by Crompton Parkinson Limited of England.

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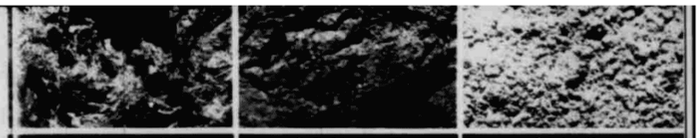
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PRODUCTION

Canada—OCTOBER 1966 asbestos production amounted to 121,338 tons compared to 127,192 in October 1965. Total for the first ten months of 1966 is 1,186,412 compared to 1,068,882 for the same period in 1965. (Dominion Bureau of Statistics, Ottawa)

Canada's Mineral Production 1966—Mineral Shipments in Canada continued to rise during 1966, and total value exceeded $4-billion. In 1965, the value was $3,744-million. Nonmetallic minerals shipped during 1966 were valued at $373,888,500, an increase of 14% above the preceding year. Production of asbestos fibers amounted to 1,491,916 tons, valued at $166,936,725, $20-million more than in 1965. (annual preliminary estimate; Dominion Bureau of Statistics, Ottawa; Catalog No. 26-202)

Asbestos Preprint—Preprints of the Asbestos Chapter of the Canadian Minerals Yearbook 1965 are available from the Mineral Processing Division, Mines Branch, Department of Mines and Technical Surveys, Ottawa, Canada. This chapter covers information and statistics on production and trade for 1964-65, and production and exports 1956-65. It also lists asbestos fibre producers in Canada and contains paragraphs on technology and uses, developments in the various provinces, a world review, prices, and tariffs.

Asbestos in 1966 (annual preliminary mineral industry survey of the U.S. Bureau of Mines)—Domestic production of asbestos reached a new high in 1966 and California continued to be the leading producer. Total production of asbestos (chrysotile and anthophyllite) was approximately 17% higher in quantity and 19% more in value. World production is expected to be in excess of 3-million tons, with Canada being the largest producer (expected to reach 1.4-million tons). New information on production in the U.S.S.R. indicates that production is much lower than Canada. Imports for consumption of all varieties of asbestos based on reports for the first ten months are estimated to be over 750,000 tons. Because of economic sanctions placed on Rhodesia, only 570 tons of Rhodesian chrysotile was received in the United States in 1966.

The General Services Administration issued invitations to bid on approximately 14,698 short tons of amosite and 45,992 tons of crocidolite under a long-range disposal program. Of these amounts, sales were completed for 400 tons of grade DX and 25 tons of M grade amosite.

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IMPORTS & EXPORTS

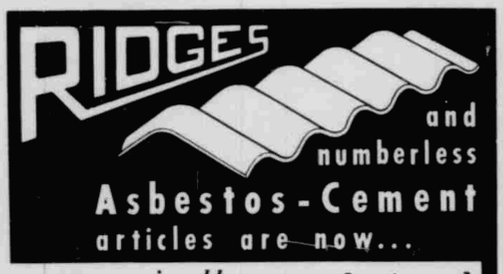
Exports From U.S.A.

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

		SEPTEMBER 1966	
Unmanufactured Asbestos:			
Crude & Spinning Fibres	s.tons	144	$ 26,096
Non-Spinning Fibers	s.tons	1,149	158,465
Waste & Refuse	s.tons	1,745	149,327
		3,038	$ 333,888
Manufactured Asbestos Goods:			
A-C Shingles & Clapboard	Lb	3,260,203	$ 281,228
Other A-C Articles	Lb	1,914,270	193,909
Gaskets & Packing	Lb	512,861	493,874
Textiles & Yarns	Lb	112,704	101,474
Mfrs other than Friction Materials		..	356,507
Clutch Facings, including Linings	No	150,396	124,790
Brake Linings	Lb	687,308	476,242
			$2,028,024

		OCTOBER 1966	
Unmanufactured Asbestos:			
Crude & Spinning Fibers	s.tons	137	$ 27,043
Non-Spinning Fibers	s.tons	113,218	456,122
Waste & Refuse	s.tons	1,518	118,310
		114,873	601,475
Manufactured Asbestos Goods:			
A-C Shingles & Clapboard	Lb	2,862,095	$ 242,952
Other A-C Articles	Lb	315,190	88,024
Gaskets & Packing	Lb	478,569	435,828
Textiles & Yarns	Lb	221,253	109,449
Mfrs. other than Friction Materials		..	428,486
Clutch Facings, including Linings	No	344,968	165,644
Brake Linings	Lb	675,149	490,753
			$1,961,136

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Exports From Canada

(Published by Dominion Bureau of Statistics) SEPTEMBER 1966

Unmanufactured Asbestos: Short Tons

	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
United States	..	1,042	11,270	26,832
United Kingdom	..	620	8,436	7,774
South America	..	5	6,960	2,118
Central America & Mexico	..	20	2,100	418
Europe	3	421	23,577	12,858
Japan	3	156	2,116	4,117
Other Countries	..	140	13,734	3,451
	6	2,404	68,193	57,568

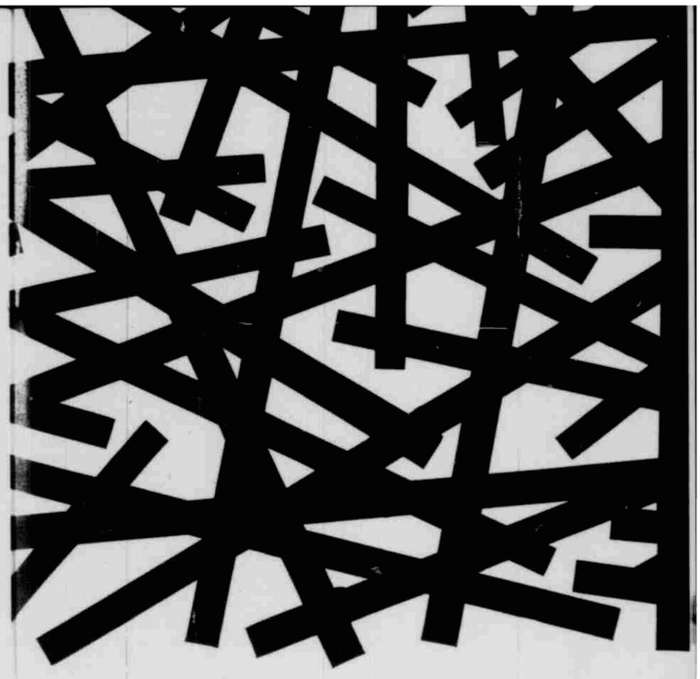
Total Unmanufactured Asbestos—128,171 Valued at—$16,825,000

Manufactured Asbestos Goods:

Asbestos Brake Linings & Facings	$ 24,000
Asbestos-Cement Building Materials	72,000
Asbestos Basic Products, Other	36,000
	$ 132,000

Export Handbooks—The Board of Trade, London, England, has just published the first two of a new series of export handbooks entitled SERVICES FOR BRITISH EXPORTERS. These publications will be of considerable value to exporters, providing basic information and advice for those manufacturers contemplating overseas market potentials. The first four chapters of booklet No. 1 describe the services provided by the Board of Trade, the Diplomatic Service and the Central Office of Information. Services provided by the British National Export Council, the Export Credits Guarantee Department and others are also outlined in subsequent chapters, as is information on duty, tax relief, export regulations and finance. The second booklet published is concerned with ECGD credit insurance and financial support services. These publications will be revised regularly and information on the above and later editions is obtainable from the Information Division, Board of Trade, 1 Victoria Street, London, S.W. 1, England.

1964 Directory of Mining Establishments has been issued by the Department of Industry and Commerce, Quebec Bureau of Statistics, as Publication No. O-2M. This directory contains a list of asbestos mines and is a supplement to the first series of statistical reports published in connection with the operations of mining establishments.



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Fast filtering – one of the qualities of Amosite Asbestos being increasingly appreciated by asbestos cement manufacturers. Other features are its excellent resilience and its dispersal characteristics in alkaline solutions. Full technical advisory service available from world's leading producers of amphibole fibres.

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INDUSTRY NEWS

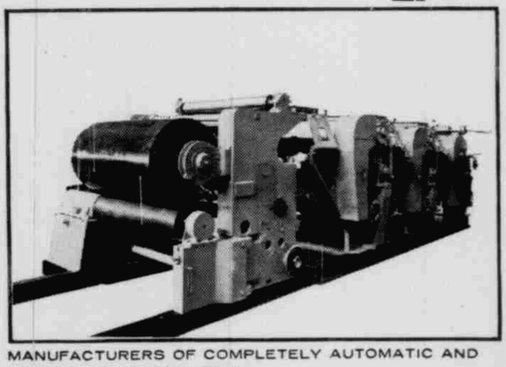
HAPPY BIRTHDAY

John J. Connolly, Insurance Manager, The Ruberoid Co., New York City, February 21.
Robert Sanderson, President, Acme Asbestos Limited, Vancouver, British Columbia, Canada, February 21.
Michael J. Messel, President, Lake Asbestos of Quebec Limited, Black Lake, Quebec, Canada, February 22.
Dr. Roger W. Sanftner, Vice President-Development, Nicolet Industries, Inc., Florham Park, New Jersey, February 22.
George W. Smith, Director, Bell Asbestos Mines Ltd., Thetford Mines, Quebec, Canada, February 22.
Robert E. Cryor, President & Treasurer, North American Asbestos Corporation, Chicago, Illinois, February 23.
Dr. D. B. Wicker, Vice President-Research & Development, Huyck Felt Company, Rensselaer, New York, February 24.
Dr. Morris Lieff, Vice President-Manufacturing & Research, Smith & Kanzler Company, Linden, New Jersey, February 25.
A. S. Johnson, Director, Asbestos Corporation Limited, Thetford Mines, Quebec, Canada, February 28.
Leonard Krez, President & Treasurer, Paul J. Krez Company, Chicago, Illinois, February 28.
David G. Stenberg, Vice President-Trade Relations & Business Development, National Gypsum Company, Buffalo, New York, February 28.
J. L. Rainey, Vice President, American Asbestos Textile Corporation, Meredith, New Hampshire, March 1.
Carl H. Thede, General Sales Manager, Building Products Division, The Ruberoid Co., New York City, March 1.
Robert S. Coleman, Vice President, National Asbestos Mines Limited, Thetford Mines, Quebec, Canada, March 3.
Gordon H. Gibbs, Mining Engineer, Willowdale, Ontario, Canada, March 3.
John H. Matthews, Director, Raybestos-Manhattan, Inc., Passaic, New Jersey, March 3.
W. J. W. Smith, Vice President & Sales Manager, Bell Asbestos Mines Ltd., Thetford Mines, Quebec, Canada, March 3.
Kempton Dunn, Chairman & Chief Executive Officer, Abex Corporation, New York City, March 5.
C. R. Meek, Production Manager, Pipe Division, Certain-teed Products Corporation, Ambler, Pennsylvania, March 5.
Albert E. Binger, Vice President & General Manager, Smith & Kanzler Company, Linden, New Jersey, March 6.
M. E. Curtis, President & Treasurer, Curtis Asbestos Company, Boston, Massachusetts, March 7.
Leonard L. Hank, Senior Vice President-Operations, National Gypsum Company, Buffalo, New York, March 7.

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asbestos cement plants





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William G. Brinker, President, The Clark Asbestos Company, Cleveland, Ohio, March 8.
William A. Sussman, Vice President & Secretary, The Sussman Asbestos Company, Toledo, Ohio, March 8.
D. W. Hills, Joint Managing Director, Turner Brothers Asbestos Company Limited, Rochdale, England, March 9.
M. P. Carson, Vice President-Sales, Asbestos Corporation Limited, Thetford Mines, Quebec, Canada, March 10.
Conrad L. Wiegers, President, Allied Services, Inc., Charleston, West Virginia, March 11.
Haydn S. Wood, Secretary, Philadelphia Asbestos Corporation, Philadelphia, Pennsylvania, March 11.
George R. Vila, Chairman & President, United States Rubber Company, New York City, March 12.
Colin S. Hoyes, Works Manager, Wunderlich Limited, Brisbane, Queensland, Australia, March 14.
William A. Kamke, Vice President & Treasurer, The Sussman Asbestos Company, Toledo, Ohio, March 14.

Simplicity Engineering Company has appointed H. C. BLANCHARD & SONS, INC., of Lisbon Falls, Maine, to serve as dealers for the aggregate, food, pulp and paper industries in Maine and New Hampshire, for its complete line of vibrating screens, feeders, conveyors and crushers.



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ASBESTOS STOCK QUOTATIONS

Close—January 31, 1967

Abex Corp	32½	Johns-Manville	56⅝
Advocate Mines	*$ 3.60	McAdam Mining	*$ .57
Asarco	66¼	Natl Gypsum (Com)	35⅝
Asbestos Corp	*$23.25	Natl Gypsum (Pfd)	88½
Cassiar Asbestos	$16.12	Patino	$9.40
Certain-teed (Com)	17¾	Ruberoid	23½
Certain-teed (Pfd)	18⅝	United Asbestos	*$2.70
Flintkote (Com)	21¾	U.S. Rubber (Com)	42¼
		U.S. Rubber (Pfd)	155½

*Canadian currency

JOHNS-MANVILLE CORPORATION

William G. Collins, Chief Chemist of the Central Testing Laboratory, Johns-Manville Products Corporation, at the Waukegan, Illinois Plant, took a mandatory retirement on January 31st, 1967. During his 39 years with J-M, Mr. Collins had been associated with practically all phases on the use and manufacturing of asbestos and its products and had been active as a development engineer, industrial engineer, staff supervisor and manager—mostly associated with the technical problems of production. He holds a B.S. in Ceramic Engineering and is a Licensed Registered Professional Engineer. Following his retirement from J-M, he is planning to set up consulting activities.

Colombia—The Colombian Minister of Mines has announced some results from the first part of the national geological survey, which was launched two years ago and on which some US$2-million have now been spent. Although only a small part of the country has as yet been covered by the survey, promising deposits of many minerals, including asbestos, are stated to have been located. A Bill has been presented to Parliament, foreseeing the decalartion of all discovery areas as State land and authorizing the Government to negotiate with private concerns at home and abroad, with the view to drawing up the necessary exploitation agreements. The law lays down that undertakings set up under concession agreements shall be obliged to erect plants for the processing of the ores mined. The Mines Ministry has received a further $US3.5-million to continue the geological survey.

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Sphere Development Corporation, a newly incorporated British Columbia company, plans to explore four asbestos prospects located northwest of Dawson City, Yukon, in the area of Clinton Creek Asbestos Mine. It is reported that these Caley claims have 1,000,000 tons of proven, medium to high grade Group 4 milling asbestos fibre, and most of the other claim groups have showings of serpentine or magnetic anomalies. On three groups, showings of chrysotile asbestos have been located. In 1959, Cassiar Asbestos drove underground workings and later, Canadian Johns-Manville optioned the property and did stripping and diamond drilling with further work recommended, but the option was dropped. (The Northern Miner)

T&N Annual Report 1966—Profit for the year ended September 30th, 1966, after taxation, for Turner & Newall Limited amounted to £9,474,744. This compares with the figure £9,354,741 for the same period a year earlier.

For so long as the present situation continues, T&N cannot expect to receive dividends or information concerning trading activities or financial situation from its subsidiary companies in Rhodesia. Group manufacturing companies which previously used Rhodesian asbestos fibre are now obtaining supplies in replacement from T&N mining companies in Canada and in Swaziland, and from sources outside the Group.

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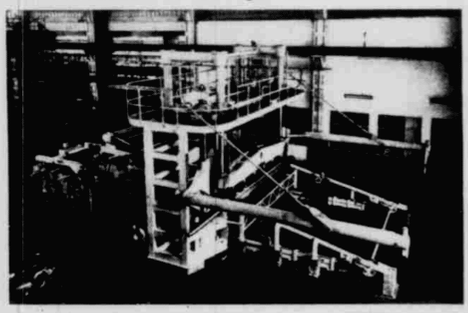
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ASBESTOS PRICES

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

(As of July 10, 1964)

No. 1 Crude	$1,410.00 to	$1,650.00
No. 2 Crude	610.00 to	900.00
AAA	..	800.00
Group No. 3 (Non-Ferrous Filtering & Spinning)	425.00 to	750.00
Group No. 4 (Non-Ferrous Plastic & Filtering)	385.00 to	500.00
Group No. 5 (Plastic & Filtering)	250.00 to	400.00
Group No. 7 (Refuse & Shorts)	58.00 to	90.00

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

(As of 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 Fibré)	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 December 13th, 1966 through January 3rd, 1967.

3,294,562—Refractory Composition, M. J. Caprio and R. F. Krisleit (assigned to Aluminum Company of America, Pittsburgh, Pennsylvania), December 27, 1966. A composition for use in the production of fibered insulating refractories to be used in contact with molten aluminum consists preferably of about 50% by weight of asbestos fiber, 25% of calcium aluminate cement, and 25% of either fibrous potassium titanate or alumina-silica fibrous material. The materials are blended thoroughly in a Hobart mixer or the like, the mixture formed into slabs, and the slabs fired at a temperature of 1400 to 2000°F. whereby both the mixing water and the water of crystallization are driven off, and a ceramic bond is formed. These shapes have good dimensional stability, machinability, and resistance to thermal shock, mechanical shock, and spalling.

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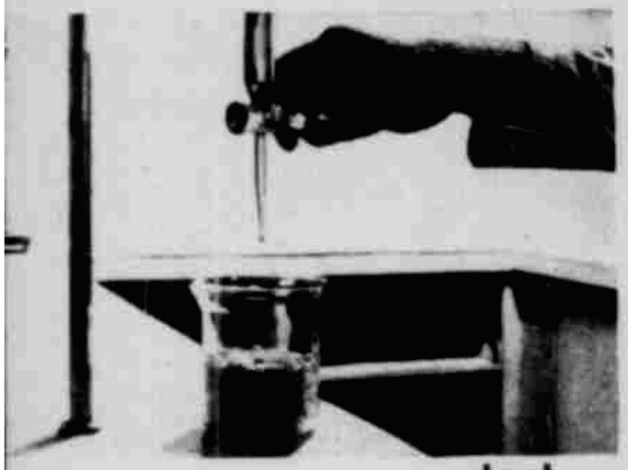
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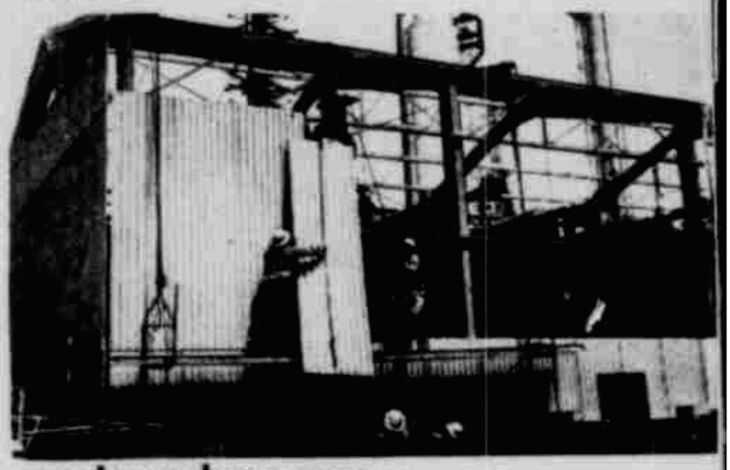
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