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CONTENTS

	Page
"OUTPUT LIMIT" IN ASBESTOS PRODUCTION	2
DENOVAN FIBRE EXTRACTION & BASIC GRADING SYSTEM	8
BUILDING	16
AUTOMOBILE SALES	18
MARKET CONDITIONS	20
PRODUCTION	28
IMPORTS & EXPORTS	30
INDUSTRY NEWS	38
ASBESTOS STOCK QUOTATIONS	46
ASBESTOS PRICES	48
ASBESTOS PATENTS	50

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"OUTPUT LIMIT" IN ASBESTOS PRODUCTION

By: W. E. Sinclair, M.I.M.M., Consulting Engineer to Putten's Asbestos Corp.

There seems to be no relief in the persistent spiral of rising working costs in the changing world conditions today. This is a position that forces producers to consider every possible means to reduce the upsurge or, at least, to maintain costs at current levels.

From all reports it is obvious that conditions are not conducive to stable prices in either essential working supplies or in the ultimate selling price of asbestos, and yet, fortunately, the demand is steady.

In many productive fields, rising wage scales also constitute an unavoidable working cost factor so that little, if anything, can be done to ameliorate high productive costs. Even the most diligent and intensive research studies have done little, as yet, to resolve this problem.

Most producers have introduced every known means of operational efficiency as a means of maintaining profitably recovery even to the extent of resorting to maximum mechanization as a possible counter to labor costs.

However desperate the whole matter may be, every effort is encouraged by the steady and growing demand for all asbestos varieties which appear necessary today to provide the industry with all it requires to maintain its economic viability, thus providing producers with a sense of confidence in the future.

This favorable outlook overrides the immediate question of cost structure and, in fact, encourages consideration of increasing production, where this is possible.

Consideration of the question is mentioned because such a functional change on a productive scale is certain to introduce several factors that need careful study to ensure continued smooth operations without excessive capital expenditure.

It is commonly understood that a certain way to reduce unit costs is to increase the scale of operations and thereby increase output. Theoretically, this may be accepted as correct but only in such cases where proved and developed ore reserves are available in excess of current supplies and where mining and milling plant are sufficient to handle an increased tonnage.

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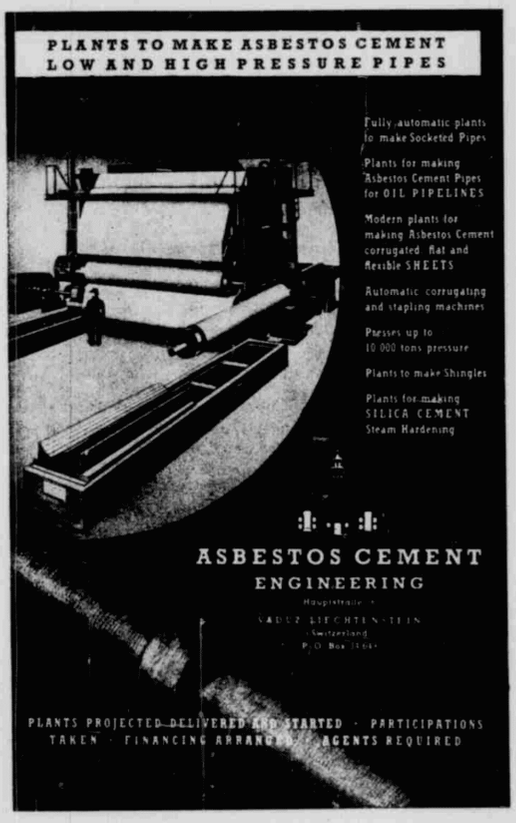
The scale of operations in every undertaking is of paramount importance since this is the key that must control the size or extent of the whole layout. Indeed, it constitutes the initial foundation of every project and the determination of all the relevant factors based on the rate of production. It is these factors that have jointly led to the term "output limit" relative to the scale of operations.

This evolves from initial calculations that give the maximum possible production figure to secure the highest profits in the future life of the mine. In other words, therefore, the estimated initial value of a mine, founded on its proved ore reserves, constitutes the major factor in assessing the highest economic output. This, of course, is wholly dependent on the capital available for the purchase of plant and equipment necessary for the initial layout for future operations as planned.

It is obvious then that in the original planning of a mining proposition, everything connected with production is developed according to the "Output Limit" which is, therefore, the maximum tonnage that can be economically handled and treated. In these circumstances, any mine that has been planned in this manner, would find some difficulty in stepping up output, unless there happens to be a new and additional orebody discovered and the necessary capital is available for its development and for the extra plant and equipment for milling and treatment of the additional ore. Otherwise, without these extra provisions, it is clear that the commonly accepted axiom that the positive way to reduce costs is to increase the scale of operations is not always feasible or correct.

In the study of this question, in all its pros and cons, allowance must be made for the many cases in which mines have lacked initial systematic planning. In others there may have been failure to make due allowance for the quantity of asbestos recoverable from the estimated ore reserves (and their value) at an assured average market price. This is important, because the asbestos recoverable will consist of many different grades, each of varying price and of fluctuating demand.

A further essential consideration is that the capital available is apportioned economically as it will affect the rate of production and, at the same time, allow the amount expended to be recoverable in a certain number of years.



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Here again, provision must be made for the possible speculative nature of the undertaking, an accepted fact in all mining estimates.

In summing up this matter of the scale of production, it should be remembered that theory cannot give way entirely to the practical necessities of finances, because the material available (that is the ore or the asbestos in it) and the essential plant and equipment to extract it, are the dominating limitations.

As an incidental but important part of this whole question it should be remembered that research in every branch of mining production has reached out beyond the precincts of the laboratory because it is now so closely related to the technological and economic advance in practice. Electronic and mechanical progress which, in turn, is identified with man in his labor, is the result of creative engineering. Similarly, in operative techniques and the tools employed in every sphere today, research work leads on to increasing economic productivity.

In every productive branch of the industry there is a continuous quest for improvement in machines and products, notwithstanding the maintenance of quality control on output. Apart from the stimulation of competitive effort in the productive world, indirectly, such control not only helps in reducing production costs but often reveals new products and may even lead to re-evaluation of current methods and processes.

To maintain this race economically, an important concept is to consider pioneer studies as a means of discovering facts by practical but critical investigation.

In spite of modern advance in mechanization and standardization, good mining manual practice may be improved under different conditions if new ideas are brought to bear on every day routine operations, even including communications and transportation.

In a similar manner, ancillary factors, such as new materials and new possibilities of mechanized attack, must have an inevitable impact on the economics of extraction whether consideration is given to increasing production beyond the "Output Limit" or to the maintenance of the existing maximum operational scale.

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The Denovan Fibre Extraction & Basic Grading System

By: R. A. Denovan, President, Denovan Limited, Dalkeith, Ontario, Canada

The Denovan Fibre Extraction System was described in the August 1962 issue of "ASBESTOS".

It is essentially a vertical stack of extraction units; each unit comprising a Denovan Vertical Fiberizer, a Denovan Concentrator, and a Denovan Gyrating screen with the necessary fans and collectors, where sufficient fibre has been released by the preliminary crushing the "stack" starts with a Concentrator and is followed by the necessary units to extract all commercial value in the ore.

The advantages are: (a) that the ore falls freely through the System without screening; (b) all free fibre is removed in each unit with most of the fine granular material thus removing the cushioning effect hence adding to the efficiency of extraction; (c) as the fibre is removed by air, it can be elevated above the extraction point hence the screens can be above and in position to permit the screen residue to be directed to any of the following stages; (d) the whole "stack" is under vacuum; and, (e) by adjusting the speed and number of hammers in the fiberizers and the screen meshes to suit the type of ore and the stage of extraction—with the running control of the air velocity through the Concentrators a very close control is obtained of the grade of fibre extracted in the various stages.

As a strong air blast is needed in the Concentrators to insure the efficient removal of the free fibre, enough fine granular material is removed with the fibre to keep the fibre sufficiently dispersed for effective screening, that is, for the removal of short fibre through the screen before reaching the hood.

All screens used are double deck. Fibre is aspirated from the top deck and the fractions from the middle and undersize are directed to the particular following stage where the contained fibre is most efficiently processed.

For aspirating the fibre from these first screens, our grading hood system is used, thus in combination with the series extraction system an efficient basic grading is obtained.

Finally the collected fibre (already graded by staple

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length) is processed through the Denovan Air Classifier, which grades the fibre for texture.

The overall result is a fibre with a basic grading both for staple length and for texture, done in a system with almost unlimited control in extraction in both grading systems.

A list of Denovan machines as published in "ASBESTOS" is given below with date of publication:

EVOLUTION OF DENOVAN ASBESTOS MACHINES

May 1962	Verticle Fiberizer and Willow
June 1962	Gyrating Fibre Screen
July 1962	Concentrator
August 1962	Fibre Extraction System
May 1963	Air Classifier
October 1963	Angle Head Hammer
May 1964	Grading Hood System

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- automatic sheet corrugation and quick maturing of them
- modernization of pipe machines with two forced feeded sieve cylinders.

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CANADIAN PRICE INCREASES—Several Canadian asbestos producers have recently announced price increases in certain grades of fibre which are to be effective January 1st, 1965. These will be the Industry's first price increases since October 1957. In this seven-year interval, production costs have increased and quality has improved. Customers are demanding higher quality and, as a result, producers have had to improve milling techniques.

Prices of shingle, paper and plastics fibres are to go up by as much as 10% while increases in selected grades in the short fibres will be more modest, probably around 5%. At the moment, there is no indication of any increase in the spinning or textile grades.

KENNETH R. MacDONALD, Vice President-Purchasing, retired from *The Ruberoid Co.* effective September 30th, 1964.

A dinner party was held in honor of Mr. MacDonald at the Waldorf-Astoria Hotel in New York City on September 24th, 1964, and 140 of his business associates and friends, made through the years, attended the celebration.

A native of Nova Scotia, Mr. MacDonald had 29 years of service with Ruberoid—joined the company in 1935 as Insurance Manager, named Assistant to Director of Purchases, in 1938, became Director of Purchases in 1941 and Vice President-Purchasing in 1958, the position he held upon his retirement. From 1917-1929 he had been associated with The Flintkote Company and prior to that had worked for various Canadian Bureaus.

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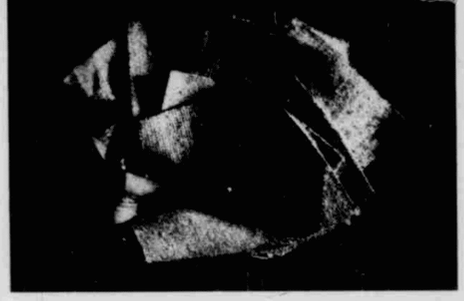
Gold Bond
ASBESTOS FIBRES

ASBESTOS TEXTILE INSTITUTE will hold its *20th Anniversary Conference* October 8th and 9th, 1964, in New York City at the Barbizon-Plaza Hotel. Along with this conference will be ATI's *20th Anniversary Celebration* on the 9th of October, featuring the usual order of business, Committee and Legal Counsel reports. "The First Twenty Years" by J. A. Bettes, Jr., and "What Makes A Star Salesman A Star?" by the guest speaker, H. B. (Doc) Sharer, of the U. S. Rubber Company.

FERODO ITALIANA—On September 2nd, 1964, the Archbishop of Mondovi blessed the foundation stone of the new factory of *Ferodo Italiana S.p.A.*, a subsidiary of *Turner & Newall Limited*. Mondovi is 50 miles south of Turin and the factory site is only a mile from the proposed Turin-Savona autostrada. Work on the new factory has just begun. The first phase, costing £2-million, is due for completion towards the end of 1965 and first production is planned for the same time. Linings (for drum brakes, disc brakes and clutches) for the automotive industry will be manufactured, for the initial equipment and replacement markets. Ferodo linings are already established on technical grounds in Italy. So far these linings have been imported from the United Kingdom. But the doubling of Italian vehicle production in the past five years has created a new situation—local manufacture will provide shorter supply lines and closer technical liaison with Italian vehicle manufacturers. Guests at the ceremony will be able to inspect a car which is equipped as a mobile test bed, with instruments to record brake usage, including the number of brake applications and rates of deceleration at various brake pressures.

THE RUBEROID CO. has formally broken ground to signal the start of construction of its new $3,000,000 floor tile plant at Vails Gate, in New York's Hudson Valley.

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JOHNS-MANVILLE JM ASBESTOS TEXTILES

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BUILDING

AUGUST 1964—A sharp decline in the value of total construction contracts during the month of August 1964 was reported by F. W. Dodge Company, a division of McGraw-Hill, Inc. The value of construction contracts in the United States during August 1964 (with percentage changes from August 1963) totalled $3,759,833,000, down 7%; non-residential building, $1,274,576,000, down 4%; residential building, $1,678,598,000, down 11%; and, non-building construction, $806,659,000, down 6%.

At the end of eight months, 1964 contract value, at $32,423,472, was leading the amount for the comparable 1963 period by 6%.

CIAP—The award for "Enterprise in New Product Development" made on the results of a national competitive run in conjunction with the Scottish Industries Exhibition 1964 has been won by *Cape Insulation and Asbestos Products Limited* for their achievements in the development and successful large scale manufacture of *Rocksil*—a rockwool material for thermal and acoustic insulation. This is the first time that an award of this kind has been made to Scottish industry. Cape Insulation is a member of the Cape Asbestos Group of Companies.

O. H. STOREY, JR., Assistant General Sales Manager for the Building Products Division of *The Flintkote Company*, died September 29th, 1964, of injuries sustained two days earlier in a fall at his home at Ridgewood, New Jersey. He was 52 years old. Mr. Storey, active and widely known in gypsum association and industry circles, joined Flintkote seven years ago as product manager for gypsum at Dallas, Texas, later moved to Camden, New Jersey, with the advent of Flintkote's new gypsum plant there, and recently relocated in the northern New Jersey area.


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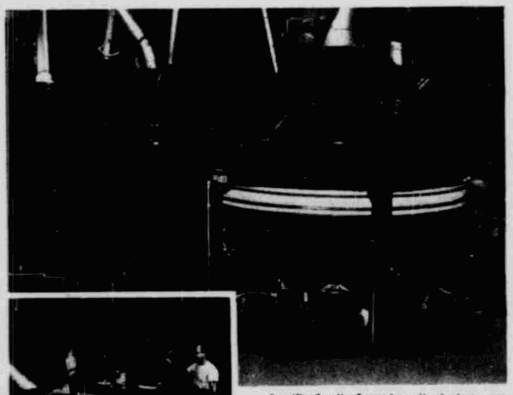
AUTOMOBILE SALES

JULY 1964—The Automobile Manufacturers Association, Detroit, Michigan, has issued the following statistics for July 1964 of motor vehicle factory sales from plants in the United States: passenger cars 570,335, trucks and buses 121,110; total for July 1964 was 691,445 compared to 789,968 in July 1963. Total motor vehicles for the first seven months of 1964 amounted to 5,934,474 compared to 5,549,409 for the same period last year.

RAYBESTOS-MANHATTAN's Asbestos Textile Division at Manheim, Pennsylvania, is chief supplier of asbestos fabrics for *W. E. Palmer Company*, a thriving Boston, Massachusetts, sail loft. Palmer tailored an asbestos safety curtain 129′ wide and 30′ high to enclose a spray painting area at a U. S. Navy installation at Quonset Point, Rhode Island. Although Palmer still makes large curtains for industry, most of its present work with asbestos textiles consists of fabricating the precise-fitting curtains required for theatrical applications. Among the more notable is that designed and rigged at the New York State Theatre at Lincoln Center, which was made in two sections to cover the front and back of a steel frame 70′ wide and 46′ high. These curtains were made of R/M's HSRC-treated asbestos cloth. HSRC (Heavy Skim Resin Coating) is a special sizing which lays the fiber and dresses up the cloth.

CANADIAN JOHNS-MANVILLE has invited tenders for a $350,000 office addition to its asbestos mining facilities near Asbestos, Quebec, Canada.

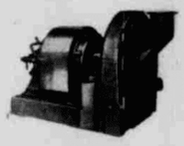
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MARKET CONDITIONS

GENERAL BUSINESS.

General business continues to improve. Steel and automobile production are both well ahead of the corresponding months of 1963 and industrial output generally is rising. Settlements arrived at by Chrysler and Ford with the Autoworker's Union have averted strike threats to these companies. This is good news, so far as continuity of production is concerned, but inflationary implications of the agreements are worrying some economists who fear the beginning of a general upward wage-price spiral to be followed by a recession. However, a large majority of economists seems to feel that generally good business is in prospect for the balance of this year and the entire succeeding year.

ASBESTOS—RAW MATERIAL.

Quebec asbestos fibre shipments for the Industry during August 1964 totalled 109,122 tons or 8,822 tons lower than the same period last year.

Year to date shipments at 52,270 tons exceed the same period 1963 by 35,984 tons or approximately 5%.

ASBESTOS—MANUFACTURED GOODS.

Asbestos Textiles. With the high rate of automobile production and consequent demand on heavy industry for supplies and parts, coupled with the overall strength of the economy, there is a continuing strong demand for asbestos textiles. The volume of new orders is increasing and mills are having to extend deliveries. The Asbestos Textile Industry looks for a continuation of the present level of operation for the fourth quarter of this year.

Asbestos Brake Lining. 1964 continues to be a record year in sales (perhaps not dollar-wise but unit-wise). Prices have again become quite soft due to intense competition for this increasingly large market, both in original equipment



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sales and in the replacement market. This situation will continue throughout this year and should continue well into 1965.

Asbestos Paper & Millboard. The demand for these materials continues at an even pace and competition is keen, especially for large requirements. A continuation of present conditions is anticipated through the end of the year.

Asbestos Saturated Paper. After a normal first six months, the amount of sales has substantially increased and indications are that a high level of business will occur during the balance of the year.

High Pressure Insulation. Volume of orders for this material remains strong but business is highly competitive. This situation should remain for the balance of 1964.

Low Pressure Insulation. Demand is continuing at a steady rate and should remain so for the rest of the year.

Asbestos-Cement Pipes. Present market is not quite as good as this time last month due to the softening of the housing market and the fall-off of the Accelerated Public Works Program.

Asbestos Filter Fiber. The asbestos filter fiber market remains strong due to water and beer filter demand and also demand for sugar filter which is normal for this time of year. The demand for white low iron asbestos precoat and acid washed asbestos filter fiber, for the balance of 1964, is expected to exceed 1963 by approximately 5%.

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

J. L. TUCKER — Registered Professional Engineer—Textile Consultant

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	Carey 7M-90	*Brand X*
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Information and samples may be obtained from your Carey Asbestos Fibre Sales Engineer or by contacting Carey-Canadian Mines, Ltd., P. O. Box 15095, Lockland, Cincinnati 15, Ohio, or The Philip Carey Company, Ltd., Ville St. Laurent, Montreal 9, P.Q., Canada.

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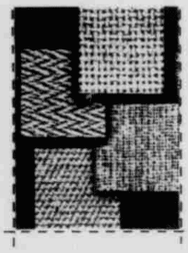
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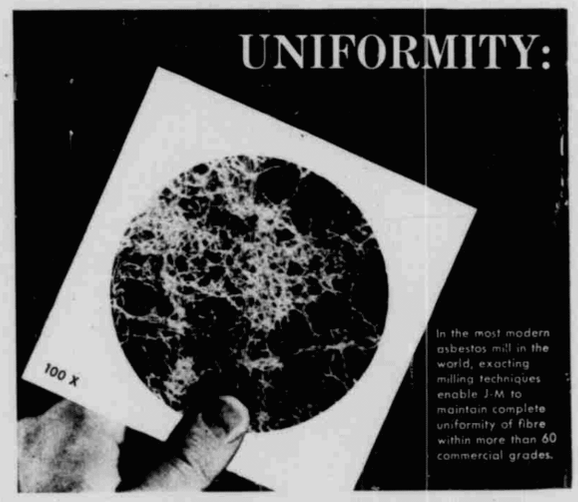


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For TEXTILE literature write Asbestos Textiles Department, Box 14, New York 16, N.Y.

JOHNS-MANVILLE JM

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PRODUCTION

Canada—The Dominion Bureau of Statistics has issued the following for the month of JULY 1964 in short tons: Producer's Shipments totalled 118,795 (Quebec—101,732 and Newfoundland, Ontario and British Columbia—17,063). Total shipments for July 1963 were 113,224.

Southern Rhodesia—The Ministry of Mines, Salisbury, has issued the following statistics on asbestos. JULY 1964—Production 12,253.34 short tons, valued at £554,003.16.08d.

Swaziland—According to Reuters (figures issued by the Geological Survey and Mines Department), Swaziland produced 33,351 short tons of chrysotile asbestos during the YEAR 1963, compared with 32,830 during 1962. All of this asbestos was exported.

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IMPORTS & EXPORTS

Imports Into U.S.A.

(Figures by Bureau of the Census) — April 1964

Unmanufactured Asbestos: — Short Tons

Amosite, Crude—Republic of South Africa	2,839
Crocidolite (Blue), Crude—Australia	125
Republic of South Africa	1,212
Chrysotile, Crude—Canada	1
Rhodesia & Nyasaland	155
Chrysotile, Spinning Fibres—Canada	1,468
Chrysotile, Other—Canada	66,615
United Kingdom	100
Asbestos, Other—Canada	3,657
Mexico	10[illegible]
United Kingdom	1
Finland	110
Mozambique	50
Republic of South Africa	25
	76,458
Valued at:	$6,664,528

Manufactured Asbestos Goods:

	Pounds	Value
A-C Pipes, Tubes, Fittings	4,507,344	$265,265
Asbestos-Cement Articles, Other	1,722,220	150,956
Asbestos Yarn, Rope, etc. & Other		73,668
		$489,889

Unmanufactured Asbestos: — May 1964 — Short Tons

Amosite, Crude—Republic of South Africa	706
Crocidolite (Blue), Crude—United Kingdom	25
Republic of South Africa	2,781
Chrysotile, Crude—Canada	8
Rhodesia & Nyasaland	1,000
Yugoslavia	50
Chrysotile, Spinning Fibres—Canada	1,365
Chrysotile, Other—Canada	46,529
Yugoslavia	55
Venezuela	624
Asbestos, Other—Canada	1,848
Finland	228

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Republic of South Africa		165
United Kingdom		54
Valued at:	$5,559,561	55 438

Manufactured Asbestos Goods:	Pounds	Value
A-C Pipes, Tubes, Fittings	6,584,702	$349,368
Asbestos-Cement Articles, Other	2,047,647	231,140
Asbestos Yarn, Rope, etc. & Other	..	100,045
		$680,553

Imports By United Kingdom

(Published by Reuters) — June 1964

Raw Materials	Tons 2,240 lbs.
From: Republic of South Africa	2,240
Basutoland, Bechuanaland & Swaziland	1,045
Rhodesia & Nyasaland	7,261
Canada	8,573
Other Commonwealth Countries & Irish Republic	183
Foreign Countries	550
	19,852

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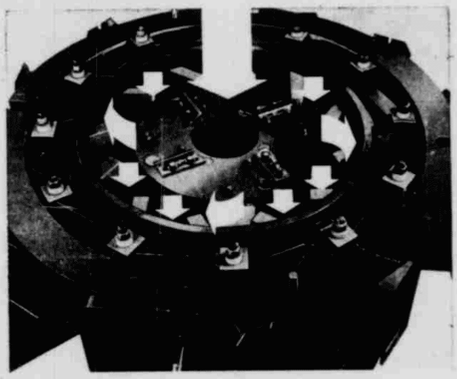
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Exports From U.S.A.

(Figures by Bureau of the Census) June 1964

Unmanufactured Asbestos: Short Tons

Crude & Spinning		Non-Spinning Fibers		Waste & Refuse	
W. Germany	12	France	10	Canal Zone	.5
	—	Japan	80	Italy	61
	12	Korean Rep	285	Japan	292
		Mexico	98	Korean Rep	304
		S. Africa	4	Nansei&Nanpo	8
		Other Ctys	29	Netherlands	88
			506	Switzerland	59
				Venezuela	21
				W. Germany	11
					849

Total Unmanufactured Asbestos—1,367 Valued at $163,048

Manufactured Asbestos Goods:		Production	Value
Cement & Pipe Covering	Lbs	289,491	$ 65,247
Textiles & Yarn	Lbs	158,617	89,503
Packing	Lbs	119,500	158,080
Clutch Facing	No	106,648	107,397
Brake Lining (Mld. & S. Mld)	Lin Ft	59,166	35,412
Brake Lining, Other	Lbs	537,123	362,343
Construction Material	Lbs	4,193,123	385,772
Asbestos Manufactures—Other		..	71,336
			$1,275,000

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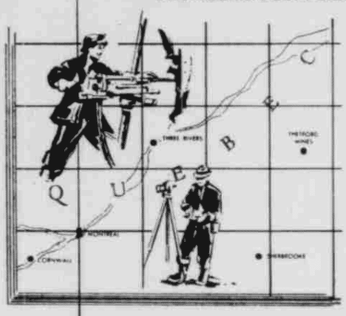
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INDUSTRY NEWS

HAPPY BIRTHDAY

Joseph N. Kuzmick, Vice President & Director, Raybestos-Manhattan, Inc., Passaic, New Jersey, October 15.

David E. Kelley, President, Kelley Asbestos Products Company, Kansas City, Missouri, October 16.

William F. Reed, President & Treasurer, Asbestos Distributors, Inc., Port Chester, New York, October 17.

Charles T. Limerick, Vice President—Manufacturing, The Rubberoid Co., New York City, October 18.

Charles P. Miller, Treasurer, Scandura, Inc., Charlotte, North Carolina, October 20.

E. J. Buczkowski, Certain-teed Products Corporation, Ambler, Pennsylvania, October 22.

Francis E. Dutcher, Vice President for Building Products, Johns-Manville Corporation, New York City, October 24.

Harry E. Humphreys, Jr., Chairman, United States Rubber Company, New York City, October 24.

H. C. Morton, Vice President—Friction Division, The Russell Mfg. Co., Middletown, Connecticut, October 28.

Kenneth T. Dawes, Vice President, Asbestos Corporation Limited, Thetford Mines, Canada, November 2.

Clark A. Bailey, Vice President & General Sales Manager, Johns-Manville Corporation, New York City, November 3.

Ernest S. Sprinkman, President, Sprinkman Sons Corporation, Milwaukee, Wisconsin, November 3.

Kozaburo Nozawa, President, Nozawa Asbestos Industrial Company Limited, Kobe, Japan, November 4.

Charles B. Purcell, President, Western Asbestos Company, San Francisco, California, November 4.

William P. Barry, Assistant Secretary, Smith & Kanzler Company, Linden, New Jersey, November 5.

Dirk Salomons, Director, Asbestcementindustrie-"Asbestona" N.V., Amersfoort, Holland, November 5.

Dr. Richard Gaze, Director, The Cape Asbestos Company Limited, London, England, November 9.

Willis G. Sullivan, Secretary, Asbestos & Magnesia Materials Company, Chicago, Illinois, November 12.

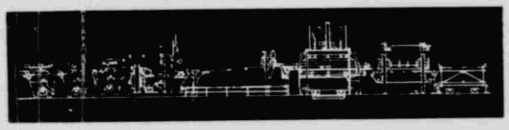
Don L. Hinmon, Vice President for Industrial Divisions, Johns-Manville Corporation, New York City, November 14.

Karl V. Lindell, Chairman, Canadian Johns-Manville Company Limited, Asbestos, Quebec, Canada, November 14.

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

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Certain-teed—Ralph L. Lanz, Vice President of Certain-teed Products Corporation, announced the appointment of **Richard E. Reeder** as Industrial Engineering Manager of the Pipe Division. His headquarters will be in Ambler, Pennsylvania, where the division's main offices and one of its four pipe plants are located. Mr. Reeder joined the company in 1959.

Marvin R. Streepy has been appointed Quality Control Manager of the Pipe Division, Ambler, Pennsylvania, of **Certain-teed** and will supervise quality control activities at the company's four pipe plants. He became Assistant Quality Control Manager of Keasbey & Mattison Company in 1957, prior to the purchase of the asbestos-cement pipe division of this company by Certain-teed. In 1962 he was appointed Director of the Ambler Research Laboratories of Nicolet Industries, Inc.

Robert A. Schneider, chief engineer of the Pipe Division of **Certain-teed,** has moved to Riverside, California, to become full-time Senior Consulting Engineer during the construction of the new multi-million-dollar asbestos-cement pipe plant now being built. **Jack L. Anderson,** formerly assistant chief engineer, is now chief engineer at the Pipe Division headquarters in Ambler, Pennsylvania. The new, ultra-modern plant at Riverside, near Los Angeles, will be the fifth pipe plant for Certain-teed, which is the nation's second largest producer of asbestos-cement pipe as well as a leader in the field of building products. The above staff changes were announced by M. Stanley Davis, Jr., in connection with the construction of the new Riverside plant.

American Brake Shoe Company has elected **Boyd E. Bridgwater** a Vice President. He is President of the Bridgwater Machine Division of the company which manufactures molds used in the production of tires for automotive vehicles and all types of industrial equipment.

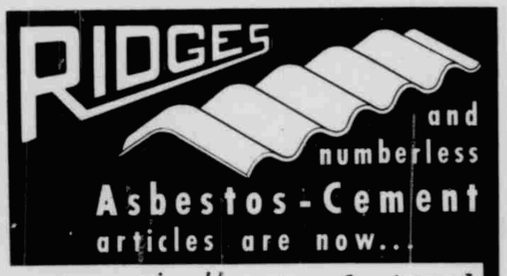
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H. K. Porter Co. announced that **Loy C. Collingwood** was elected Vice President, International Operations. He will be responsible for seven international divisions with a total of fourteen plants in Canada, France, Great Britain, the Netherlands, Germany, Australia and Mexico and will work from Porter's Pittsburgh, Pennsylvania, headquarters.

Mr. Collingwood was previously Vice President and General Manager of H. K. Porter Company (Canada) Limited. He joined Porter in 1954 at the company's Riverside-Alloy Metal Division and managed its Alloy Works in Prospect Park, Pennsylvania prior to his Canadian appointment.

J. Boyd Clarke was appointed General Manager of Continental European Operations for **H. K. Porter Company, Inc.** With headquarters in Paris, France, Mr. Clarke will be responsible for operations in France, the Netherlands and West Germany. Porter products' made in these nations include large industrial castings, fabricated steel assemblies, railway freight cars, hydraulic controls, components and entire systems (France); industrial and automotive rubber and friction products (the Netherlands); and, files for industrial and craft applications (West Germany). Prior to his European appointment, Mr. Clarke was general Sales Manager of H. K. Porter Company (Canada) Limited. Porter also has international operations in Great Britain, Canada, Australia, Brazil and Mexico.

Carey—E. D. Ermenc, Director of Research of The Philip Carey Manufacturing Company, has announced the appointment of **Marion F. Smith** as Research Section Manager, Asbestos and Organic Fibres. Mr. Smith is listed in the seventh edition of "Who's Who in Engineering" as holder of 10 patents, author of magazine articles and a member of American Chemical Society, Technical Association Pulp and Paper Industry, and Canadian Pulp and Paper Association.

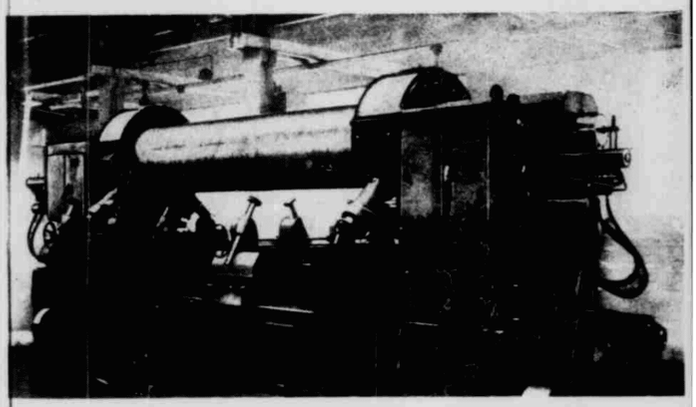
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Ruberoid—David L. Neil, Vice-President—Manufacturing of The Ruberoid Co.'s Roofing Granule Division, has announced that **Thomas F. Gedettis** was named Plant Manager for Ruberoid's new roofing granule facility in Annapolis, Missouri. It is expected that the plant will open this fall.

Wilson L. Blensinger, Jr., was named Sales Representative for **Ruberoid's** Industrial Products Division, Atlanta, Georgia. He will assume responsibility for insulation sales in the states of Georgia, Alabama, Mississippi, Florida and South Carolina. The Ruberoid industrial package is highlighted by a new pressure-molded "Calsilite" thermal insulation and a revolutionary "T/NA 100" multi-purpose insulation jacketing. Other items include asbestos papers, insulation cement, millboard and assorted high and medium temperature insulation specialties. The above announcement was made by Richard W. Henry, Manager, Industrial Insulations.

U. S. Rubber—J. L. Dorrier, Divisional Manager of Industrial Relations and Management Engineering announced the appointment of **L. Gerald Granger** as Management Engineer of the Textile Division, United States Rubber Co. Mr. Granger, who joined the company in 1959 at its Winnsoro Mills, will be located at the division's Winnsboro, South Carolina, Administrative Center.

Karol W. Smith, formerly Manager of Personnel Development for the Tire Division, has been appointed Personnel Development Coordinator for **U. S. Rubber.** In his new position, Mr. Smith will coordinate company management training programs.

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.

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These figures are compiled from the Commercial & Financial Chronicle. No guarantee as to their correctness.

		SEPTEMBER 1964		
	Par	Low	High	Last
Advocate Mines Ltd.	1	$6.30	$6.70	$6.70
American Brake Shoe	np	58	60½	58½
Asarco	np	50¾	55½	55½
Armstrong Cork (Com)	1	57½	66⅜	58⅛
Armstrong Cork (Pfd)	np	89½	91¼	89¾
Asbestos Corporation	np	23¾	25½	25½
Philip Carey	10	30½	34⅞	31¾
Cassiar Asbestos	np	11	12¾	11½
Certain-teed	1	14¾	16⅝	15⅞
Flintkote (Com)	5	22	24¼	24¼
Flintkote (Pfd)	np	88	90½	90½
Johns-Manville	5	53	55⅜	54
National Gypsum (Com)	1	43	44⅞	43⅝
National Gypsum (Pfd)	np	101	102	101½
Pacific Asbestos	1	1⅞	2¼	2⅛
Porter, H. K.	100	100	101	100¾
Raybestos-Manhattan	np	47	48⅞	48
Ruberoid	1	30¾	33⅞	31⅜
Seagrave	2½	12⅛	13⅞	13⅝
Unarco Industries	5	13¾	16½	16
United Asbestos	1	$2.70	$3.25	$3.00
U. S. Rubber (Com)	5	56⅛	61¾	61¼
U. S. Rubber (Pfd.)	100	168½	173	172½

Havelock Mine—A new shaft at Havelock Mine, Swaziland, work on which began June 1962, is nearly completed. It is 20 feet in diameter, 1,200 feet deep and fully concrete-lined and the cost of the project, at U.S. dollars 2.25 m., includes the development of all the stations and drives. The shaft has been planned to serve the rest of the life of the mine and will eventually replace the old incline shaft which passes through the orebody. The capacity of the new shaft is 90,000 tons of ore per month—an increase of 20,000 tons on the existing shaft.

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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 2,000 lbs. f.o.b. Mine
Canadian Currency

Group No. 1 (Crude No. 1)	$1,410.00 to	$1,475.00
Group No. 2 (Crude No. 2); Crude Run-of-Mine and Sundry	610.00 to	875.00
Group No. 3 (Spinning Fibre)	350.00 to	650.00
Group No. 4 (Shingle Fibre)	180.00 to	245.00
Group No. 5 (Paper)	120.00 to	150.00
Group No. 6 (Waste, Stucco or Plaster)	..	85.00
Group No. 7 (Refuse or Shorts)	40.00 to	80.00

CASSIAR— Per Ton of 2,000 lbs., f.o.b. Vancouver, B. C.
(As of January 1, 1964) 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)	260.00
AK grade (shingle fibre—Canadian Group 4)	220.00
AS grade (shingle fibre—Canadian Group 4)	181.00
AX grade (shingle fibre—Canadian Group 5)	160.00
AY grade (shingle fibre—Canadian Group 5)	120.00

VERMONT— Per ton of 2,000 lbs. f.o.b. Mine
(U.S. Dollars—converted to Canadian equivalent)

Group No. 3 (Spinning & Filtering)	$ 345.00 to	$ 402.00
Group No. 4 (Shingle Fibre)	181.00 to	320.00
Group No. 5 (Paper Fibre)	120.00 to	142.00
Group No. 6 (Waste, Stucco or Plaster)	.. to	86.00
Group No. 7 (Refuse or Shorts)	40.00 to	75.00

asbestos

chrysotile, crocidolite and amosite fibres for:

Asbestos-Cement



Friction Materials







Insulation Materials

Asbestos Textiles

Turners Asbestos Fibres Ltd

Faulkner House, Faulkner Street, Manchester 1, England
Cables: VULBESTON, MANCHESTER Telephone: CENtral 0334
Telex: 66560 *A Turner & Newall company*

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ASBESTOS PATENTS

Abstracts of U. S. Patents on Asbestos and Asbestos Products by Oliver S. North.

Copies of patents can be obtained by sending 25 cents, (in coin), to The Commissioner of Patents, Washington 25, D. C., giving the patent number, date it was issued, name of patentee and name of invention.

Flame Retardant Vapor Barrier Fabric and Method for Producing the Same, No. 3,062,678. Granted on November 6, 1962, to John D. McCluer (assigned to H. K. Porter Company, Inc., Trenton, New Jersey). An asbestos fabric coated with a vinyl type resin polymer with certain flame retardants to produce a flame proof, water repellent, vapor barrier product which is highly resistant to abrasion as well as to corrosive chemicals and has the additional property of shedding molten metal without deleterious effect to itself or to underlying surfaces.

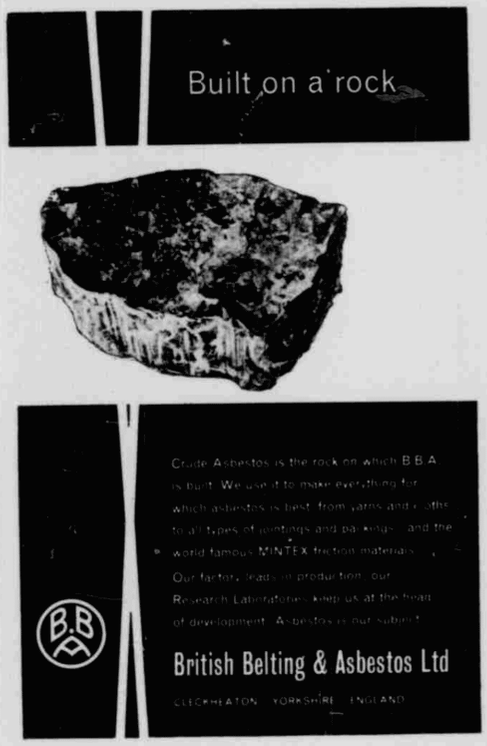
Asbestos Paper Containing Vinyl Alkyl Ether-Maleic Anhydride Copolymer and Method of Forming Same, No. 3,113,064. Granted on December 3, 1963, to S. T. Cukier (assigned to General Aniline & Film Corporation, New York City). In the preparation of asbestos paper containing minor amounts of a vinyl alkyl ether-maleic anhydride copolymer as a binder, 0.05-5% of the binder is incorporated into the aqueous dispersion of asbestos fibre, and sheet is then formed from the dispersion.

Manufacture of Shaped Mineral Fiber Bodies, No. 3,114,671. Granted on December 17th, 1963, to H. Eberle (assigned to Grunzweig & Hartmann A.G., Ludwigshafen, Rhine, Germany). In the production of sheet materials and other shaped bodies, a low viscosity suspension of hydrolyzed starch and chrysotile asbestos or other fibre is treated with at least 4% of unhydrolyzed starch and additional proportions of fiber, the suspension formed into shapes, the shapes treated with steam to gelatinize the starch, and the residual water evaporated.

Bonded Fibrous Insulation, No. 3,118,807. Granted on January 21, 1964, to H. E. Holcomb (assigned to Johns-Manville Corporation, New York City). A bonded, self-supporting insulating blanket suitable for direct exposure to flame consists of 80-85% of mineral wool, glass fiber, or asbestos fiber and 15-20% of a binder comprising dried bentonite, finely ground glass, and a thermosetting resin.

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WOVEN AND NEEDLED

ASBESTOS CEMENT

SHINGLE, PIPE AND

CORRUGATING FELTS

NORDISKAFILT

NORDISKA MASKINFILT AKTIEBOLAGET
HALMSTAD • SWEDEN

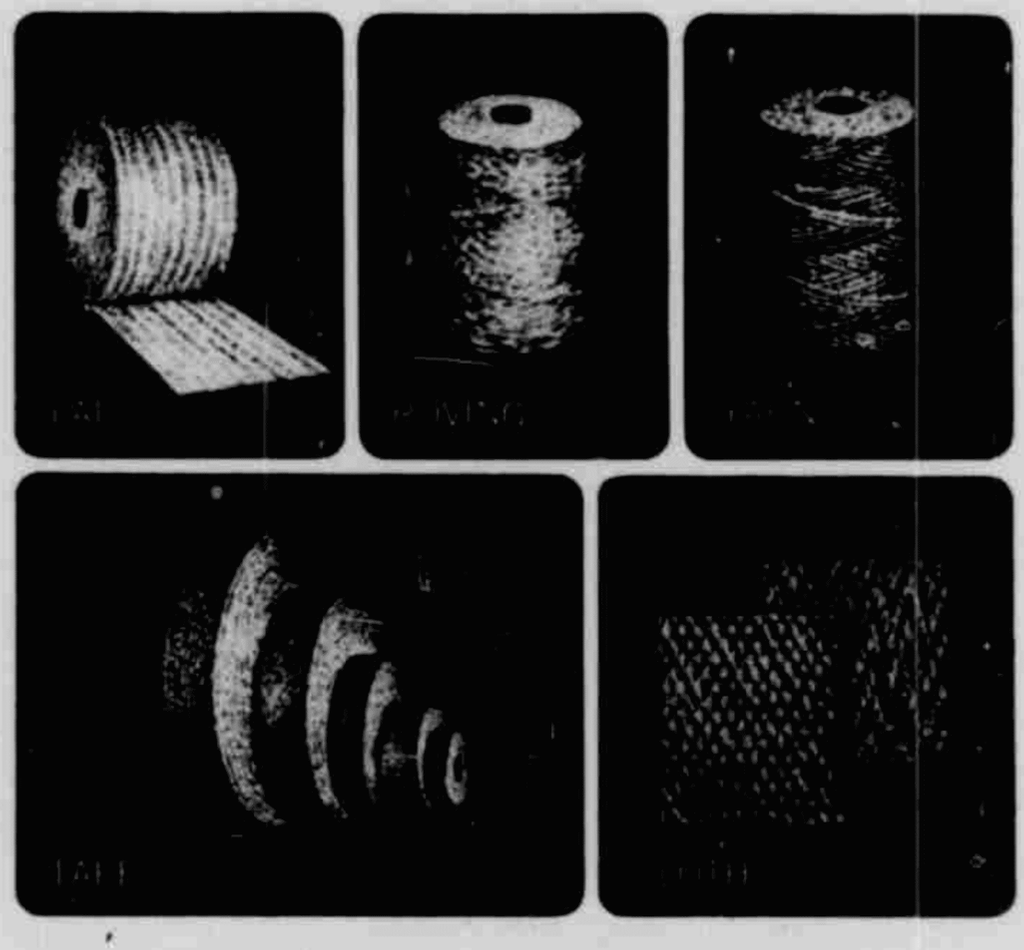
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