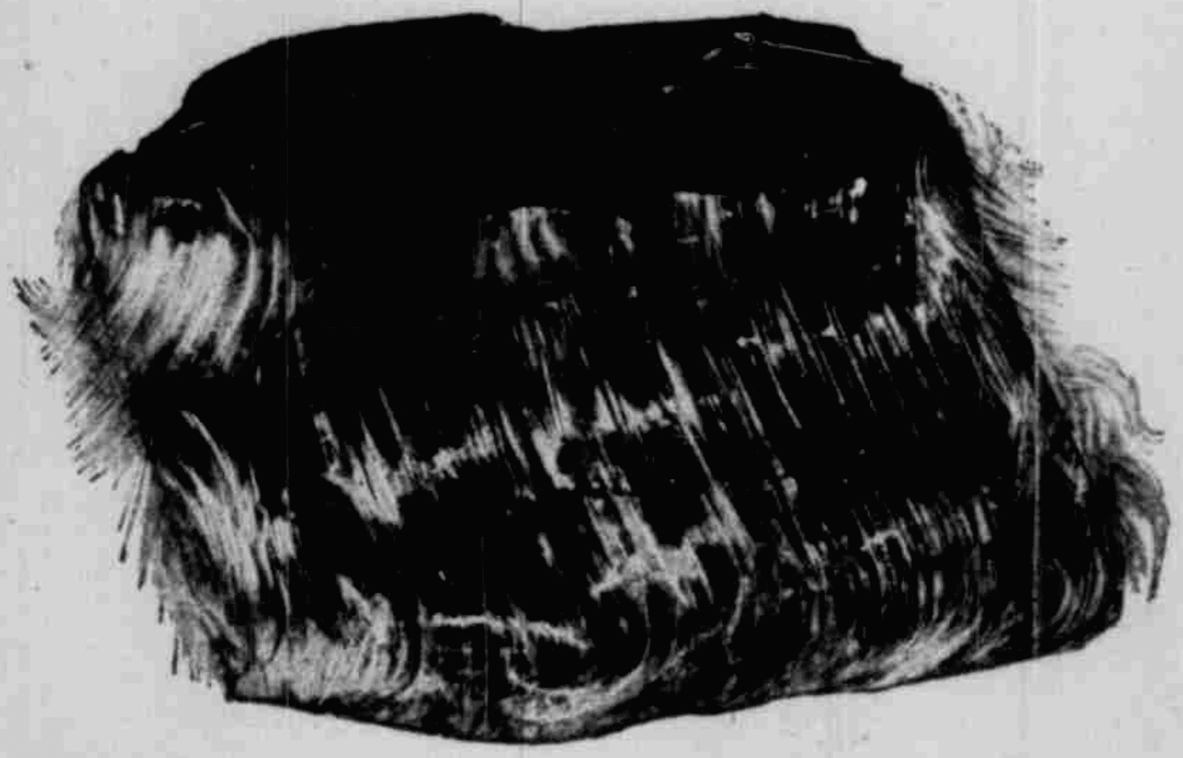


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ASBESTOS

VOLUME 47 APRIL 1966 NUMBER 10

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THE BENEFICIATION OF ASBESTOS ORE

By: W. E. Sinclair, M.I.M.M.

(Mr. Sinclair is Consulting Engineer to Putten's Asbestos Corporation Limited.)

Every aspect of mining operations today is viewed against a background of rising costs, caused mainly by the steady increase in the price of essential supplies and higher wages, plus a trend in currency depreciation.

The development of research in this branch of the industry has, unfortunately, been somewhat neglected because of the natural tendency to direct such work towards new outlets for asbestos products. In some quarters, however, the question of rising extraction costs has certainly created some interest in the subject.

This is reflected in modern practical studies being carried out in different facets of mining practice. Rock breaking is one of the basic operations automatically involving the question of more efficient mechanization and automation, plus handling and haulage operations. These operations are of particular importance where research is already developing advanced practice in new and safer explosive mixtures.

Other lines of thought are being directed to the matter of systematic mining methods and more especially those that refer to the concentration of mining operations or to the limits of selective mining, where such extraction plans can be effectively applied.

It is, of course, fairly obvious that such elaborate layouts cannot be profitably adapted in every mine and particularly in some asbestos mines which, in most cases, are subject to extreme differences in the form of the orebody, depth of workings and the mining methods employed.

In most instances it is the form of the orebody that influences the extraction system employed and, therefore, little can be done to make basic changes except perhaps in a minor form of selective mining or the development of some other type of ore beneficiation as a means of contributing to an upgrading process. Indeed, it is surprising that such a function, in one form or another, has not been more widely investigated as a step towards profitable production, since results mean so much to be gained both directly and indirectly at a little extra cost.



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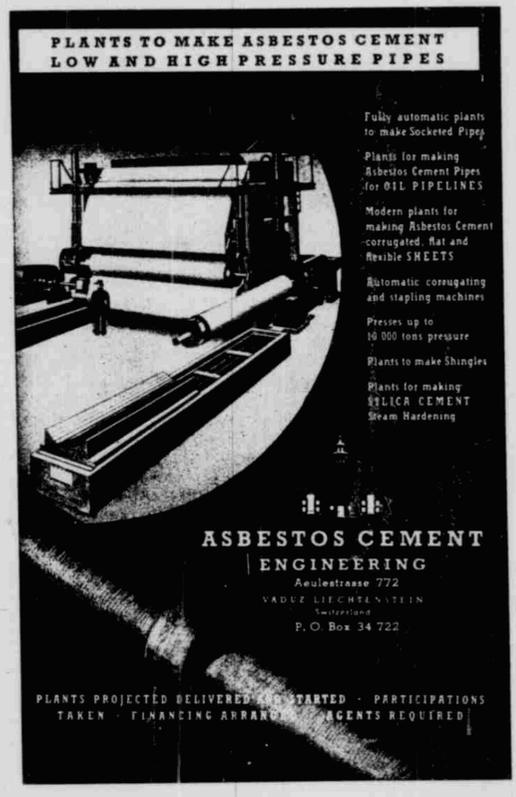
Consider, for instance, the question of selective mining. Where such a system is effectively employed, there is a pronounced increase in output values and greater utilization of mineral resources. In addition, the work lengthens the life of the mine by the efficient extraction of ores of variable grade. The main object of the system, of course, is to overcome pay limit problems by the proportional extraction, based on test results of all working faces, to produce a uniform grade of ore. Needless to say, the system must in no way be connected with the dishonest practice of mining the rich ore (picking out the eyes) and discarding the poor ore.

The important aspect of effective selective mining practice is to check the average value of each and every working face by bulk test sampling, to ensure the maintenance of a regular average run-of-mine grade. Where convenient, face sampling may be done instead of bulk testing.

Obviously, the system can only be applied in certain extraction systems. For instance, it is not feasible in most caving systems, although it has been suggested that check values in such a system might have a bearing on the problem of "overdraw" or "underdraw", particularly in block caving.

However, where selective mining is unpractical in stoping, it is now fairly common practice to deliver mined ore from different working sectors to separate surface bins. Proportional selection is then made from the different stock piles, according to their respective values, to arrive at and to maintain a uniform value of the ore delivered to the mill.

In some cases, where the asbestos bearing rock occurs as a bedded orebody in narrow lodes, wide faces must be mined to allow adequate working space. These circumstances offer an ideal condition for the adaption of a system of resuing. In this case, it is usual to advance the stope face first into the waste rock, either above or below the asbestos veins. Then, the latter is extracted after the waste has been removed. This permits of a clean selection of the ore without the need for stope sorting, a factor that offsets the extra cost of carrying a wide stoping width.



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Unfortunately, dilution of the ore in many stoping systems is inevitable where the asbestos veins are scattered throughout a mineralized channel, in which case recourse must be made to sorting.

Unlike most minerals, asbestos possesses the unique characteristics that make it an easy mineral for ready recognition in a mass of broken ore, simply because its physical properties of color and fibrous nature are in marked contrast to the rock in which it occurs. As against this advantage, underground mining systems do not always provide conditions that assist in a sorting process and, in most cases, insufficient light is a handicap to effective results.

Nevertheless, in many mines sorting underground (as well as on the surface) has proved to be a valuable means of ore beneficiation plus the offsetting of high working costs by the reduction of ore transport and, in some cases, assistance in ground support by the use of the waste sorted out. It is generally found that all the advantages of sorting are directly or indirectly profitable where applicable and, in every case, the ultimate results spell substantial returns.

Where mining systems do not readily lend themselves to sorting, in many mines special provision is often allowed for intensive sorting arrangements in the crushing or milling plants.

Wherever and in whatever circumstances classification of the ore by sorting methods, either mechanically or manually, constitutes one of the major forms of the beneficiation of asbestos ores. The process may consist simply of removing and discarding the waste. This is the more common process and probably the most satisfactory.

However, a more advanced process embracing the same simple principles consists of grading the mineral bearing pieces of ore by picking out those containing fibre of a length equal to or longer than some set standard. This system generally amounts to the selection of ore containing crude or long fibres for special treatment to produce spinning grades for the textile industry.

The question of the cost of sorting is naturally one of importance where the introduction of any process is aimed at reducing working costs. Because of the extreme varia-

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tion in the conditions where sorting can be practiced, operational costs are rather difficult to assess. But, besides the matter of direct costs, cognizance must be taken of the many indirect benefits that accrue. These, in turn, will vary considerably depending on local conditions and the scale of operations. The certain lower cost of the finished product is proportional based on the removal of waste from the ore treated and, automatically, this assists in reducing overhead charges by virtue of the fact that either the flowsheet is simplified or, alternatively, a smaller mechanical plant may suffice, but, in general, a larger tonnage may be treated.

Other factors, besides the possibility of removing a sufficient tonnage of waste at, say, half the normal unit cost, there are other indirect benefits and economies that accrue, such as, the saving in wear and tear of machinery and the lower maintenance charges plus the improved and higher commercial value of the asbestos produced.

In many mines, sorting both underground and in surface workings, has proved to be a valuable means of offsetting high working costs, especially where this cannot be achieved by the introduction of large scale operations to increase output at a lower unit cost.

Admittedly, there are economic limits to the extent to which sorting can be applied. If carried too far, the practice might become top heavy and uneconomic.

A compromise between the rate of production and the rate of sorting and that of milling has to be found and each process must be regulated until the economic optimum for the three supplementary processes working together has been determined.

In milling, it must also be borne in mind that in assessing the cost of sorting to maintain a favorable balance of costs, the running, maintenance and labor costs of the sorting plant should be, at least, partially offset by the saving on milling costs.

Apart from the many advantages gained in any form of beneficiation, as detailed above, one outstanding value is the fact that cleaner ore means cleaner fibre and this, if treated to meet manufacturers specifications, signifies a substantial rise in profits, above the cost of beneficiation.

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Indeed, the ultimate results constitute a form of standardization of asbestos grades and the stabilization of prices.

R/M GLASSBESTOS® LAGGING CLOTHS—Two Raybestos-Manhattan lagging cloths which offer substantial savings in both weight and cost have been approved by the United States Coast Guard as incombustible materials suitable for installation as steam pipe insulation on both merchant and military vessels. The two lagging cloths are used to form outer jackets over thermal insulation on steam lines, pipe flanges, and other high-temperature equipment. Their purpose is to provide a flame retardant covering which will protect the underlying insulation from vibration, shock, and rough usage. *R/M* 10P111 *Glassbestos*, a Grade AAA asbestos cloth with glass yarn insertion, has a tensile strength superior to the heavier Style 16P140 plain asbestos cloth (Navy Style No. 2), and it provides a 21% reduction in weight and a 57% reduction in cost. *R/M* 10P140 *Glassbestos*, also a Grade AAA asbestos cloth with glass yarn insertion, has a tensile strength equal to Style 10P225 plain asbestos cloth (Navy Style No. 1) and is 38% lighter and 47% lower in cost.

R/M MOLDING COMPOUND—Raybestos-Manhattan's Aerospace Division has developed a new "B"-stage asbestos silicone molding compound for aircraft rocket, missile, and space vehicle applications. It is especially recommended for use on electrical or radome applications, where good resistance to elevated temperatures is required, and is also suitable for structural and thermal insulation. A proprietary product designated *R/M Style* 310 *RPD Molding Compound*, the new material is composed of long spinning-grade Chrysotile AAAA asbestos fibers impregnated with a silicone resin system. Strength retention properties of the new compound are rated very good after exposure to temperatures as high as 800°F. for extended periods of time. The compound can be molded at temperatures ranging from 320° to 490° and at pressures from 1,000 to 10,000 pounds per square inch. Mold shrinkage is rated at 0 to 4 mils per inch.

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Automobile Sales

JANUARY 1966 motor vehicle factory sales from plants in the United States totaled 950,081 (passenger cars —797,969; trucks and buses—152,112). The total for January 1965 was $936,637. United States motor vehicle imports for January 1966 were as follows: new passenger cars —77,903, valued at $95,244,785; used passenger cars—1,012, valued at $1,318,337; trucks and buses—3,498, valued at $6,290,422; and, automotive parts—valued at $68,680,823. (Automobile Manufacturers Association)

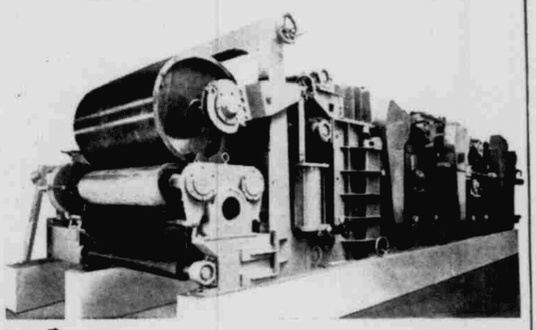
WRAPPING FLAT TYPE RESISTORS, by Edward J. Bodek and Albert L. Pizzi, is a very interesting article which appeared in the July 1965 issue of The Western Electric Engineer. In a process which dates back to the early 1900's, Western Electric has employed a manual wrapping operation to wrap phenolized asbestos insulation around number 18 and 19 flat type resistors. In recent years in order to introduce an improved overall resistor design and effect net cost savings, it became necessary to develop a suitable method and machine for performing the operation mechanically. ASBESTOS will be glad to lend its copy to interested readers.

CENSUS PREPRINT—MC63(2)-32E, Industry Statistics: Abrasive, Asbestos, and Miscellaneous Nonmetallic Mineral Products, preprint of a corresponding chapter of U. S. Census of Manufactures, 1963, Volume II, Industry Statistics, is available from the U. S. Government Printing Office, Washington, D.C. 1966 (30 cents).

CAPE EXHIBIT/IBSAC—Three members of the Cape Asbestos Group of Companies (Cape Building Products Limited, Cape Insulation and Asbestos Products Limited, and Marinite Limited) will exhibit on Stand A-26, at the Industrialized Building Systems and Components Exhibition, Crystal Palace, May 10th through 21st, 1966.



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STANDARDS CONFERENCE—The third national conference of the National Conference of Standards Laboratories will be held at the National Bureau of Standards new facility in Gaithersburg, Maryland, May 9th through 12th, 1966. Along with three days of technical sessions, a fourth day will be devoted to an inspection of the modern NBS metrology laboratories recently completed and activated.

ASTM STAFF CHANGES—T. A. Marshall, Jr., executive secretary, American Society for Testing and Materials, has announced the following changes in staff personnel assignments: *Maurice D. Huber*—Senior Assistant Technical Secretary, transferred from Publications Operations to Technical Operations, *Samuel F. Etris*—Senior Assistant Technical Secretary; *Robert P. Lukens*—Standards Editor; *Roger L. Clark*—Assistant Standards Editor; and, *Muriel Stangler*—Assistant Standards Editor.

PART 12—1966 BOOK OF ASTM STANDARDS, recently published by the American Society for Testing and Materials, contains all the ASTM standards dealing with chemical-resistant mortars, plastic structures, clay and concrete pipe and tile, masonry units, *asbestos-cement products*, and building stone. It replaces and supersedes all previous editions ($9.00 prepaid; ASTM members $6.30).

ASTM 69th Annual Meeting and 17th Materials Testing Exhibit will take place at Chalfonte-Haddon Hall, Atlantic City, New Jersey, June 26th through July 1st, 1966.

ASBESTOS TEXTILE INSTITUTE—general meeting, Barbizon-Plaza Hotel, New York City, June 9th and 10th, 1966.

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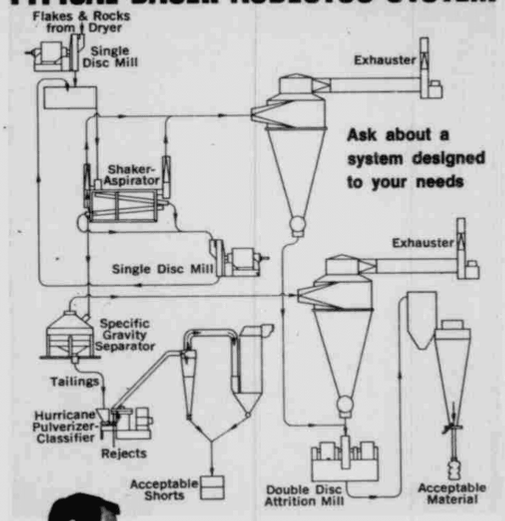
BAUER EXHIBIT—Equipment for grinding, pulverizing, impurity extraction, classification and liquids-solids separation will be displayed at the Mining and Metallurgy Show in Booths 210-212 by The Bauer Bros. Co. (Canada) Limited (May 2-5, 1966, Exhibition Park, Toronto, Canada).

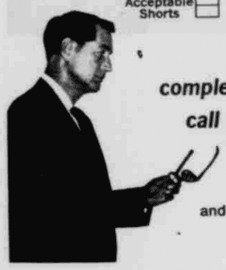
LEAD-ASBESTOS PADS—At Sloan Square, London, England, a new office and apartment building is being completed over one of the local electric railway lines. The building will rest on 29 lead-asbestos anti-vibration pads to isolate it from any train-induced vibration in the ground. The pads themselves are relatively small (the largest 29" x 28") since they rest atop the columns over the track sections. The highest static loading on the pads will be 760 psi. Two of the techniques used are noteworthy. The pads were held in place during construction by cementing them to the caps of the columns with an adhesive. Once the pads are under load, of course, the adhesive will have no effect, but it does maintain alignment during the work without introducing any by-pass path for vibration at a later stage. The other point worth noting is the resilient material used to surround the pad installation before any concrete is poured. This also prevents the creation of a by-pass.

J-M TRANSITE—Transite asbestos-cement pipe, manufactured by Canadian Johns-Manville Company Limited, has been installed in one of the largest rural water systems designed in recent years. The system serves the needs of some 600 homes in the Nechako Improvement District, an area north of Prince George, British Columbia.

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FRED A. MANSKE, President of *National Gypsum Company*, plans to retire from active participation in the business on April 30th, 1966, when he will have reached the company retirement age of 65. He was elected to the Board of Directors in 1951 and has served as President since 1956. Mr. Manske joined National Gypsum in 1934 as a production engineer, was subsequently promoted to production manager and served in that capacity until 1950 when he was appointed vice president in charge of operations. In 1954 he was elected executive vice president of the corporation. He is the author of various articles on industrial management subjects and has been granted numerous patents covering building products, processes and construction systems.

PROPERTIES OF ASBESTOS SUITABLE FOR USE IN CELLULOSIC PAPER, by Dr. A. W. Naumann, Union Carbide Corporation—Chrysotile asbestos is now available in a highly-purified, grit-free form, non-abrasive to Fourdrinier wire and printing plates. Its chemical and physical structure and properties are described relative to the geometry of cellulose pulp fibers. The electrostatic charge properties and surface chemistry of chrysotile in water systems are also discussed in relation to other materials found in paper furnishes.

CORRECTION—In April 1965 "ASBESTOS", page 14, reference was made to the opening, on December 5th, 1964, of the Sri Lanka Asbestos Factory in Ceylon. It was mentioned that the plant was equipped with machinery for two profiles "BIG SIX" and "BIG THREE", manufactured by Messrs. Gebr. Wehrhahn. "BIGSIX" is the registered trade mark of Turners Asbestos Cement Company Limited of England and it is regretted that this mark was used, although in a generic sense, in the announcement.

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Building

FEBRUARY 1966—A big increase in new contracts for construction of factories, offices, stores, and other nonresidential buildings nudged the February value of contracts for all types of future construction work to $3,269,858,000, 1% above the year-ago amount. According to Mr. George Christie, Dodge chief economist, "February's surge in industrial and commercial building contracts was one more indication of the added strength in business capital spending this year. In line with businessmen's recently-escalated investment plans, record capital appropriations, and swelling orders for machinery and equipment, the February rate of contracts for industrial plant construction set a new high for the five-year-long investment boom."

Total nonresidential building contract value, at $1,258,741,000, was 19% ahead of last February's amount. Commercial building value posted a 21% increase with a good showing in both stores and offices. Manufacturing buildings also made a strong gain over the year-ago contract total, increasing 29%. Among the institutional nonresidential building categories, educational building was up sharply in contract value, while hospital construction fell behind last year's "none-too-sprightly" pace. Contracts for public buildings dipped moderately, while religious buildings advanced.

Residential building, at $1,298,672,000, held even with last year's value. Housekeeping units showed a 1% gain in contract value, while nonhousekeeping residential buildings declined 14% from the year before.

After a very strong January total, nonbuilding construction, at $712,445,000, dropped 18% in February. The two biggest categories in the nonbuilding construction group (highways and utilities) showed substantial declines in February from their 1965 levels. On a cumulative basis, however, contracts for construction of utilities continued to hold a comfortable lead over last year; highway contract value remained unchanged. Contracts for water supply and sewerage systems declined, along with dams and reservoirs, missile and space facilities, and airports.

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MARKET CONDITIONS

General Business.

General business continues to be very good. Unemployment has dropped to a point where much of it is either voluntary or caused by an almost complete lack of skill on the part of the individual. Manufacturing industries are almost uniformly hard pressed to find competent labor which they desperately need. This fact plus unprecendented demand in some areas of manufacturing has led to a situation where deliveries are being extended up to a year or more in extreme cases. There is a real possibility that the boom could be strangled due to this condition. With Government requirements on the increase, there is a distinct possibility that a priority system of some sort may be applied. Anything of this type would place certain industries under Government regulation and this is never conducive to peace of mind on the part of those affected. Inflation remains a serious threat. The recent rise in interest rates on the part of large lending institutions may help put the brakes on a runaway inflation and certainly the Administration is trying to keep a lid on prices and wages by use of moral suasion. If this does not work, it is quite possible formal price and wage controls will be considered but only as a last resort. After the long, steady, upward trend in our economy it seems ironic that within a matter of less than six months, we find ourselves in a situation where business is almost "too good".

Asbestos—Raw Material.

Quebec asbestos fibre shipments for the Industry during February 1966 totalled 85,576 tons, an increase of 25,502 tons over the same period last year. Year to date shipments at 163,007 tons exceed those of 1965 by 52,836 tons, or approximately 48%.



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Copenhagen, Denmark	Andreas Jennow A/S
London, England	Central Asbestos Company, Ltd.
Helsinki, Finland	Oy Max Aue
Paris, France	Compagnie Commerciale de Minerais Et Matieres Premieres
Duisburg, Germany	Deutsche Asbest-Gesellschaft G.M.B.H.
Lubeck, Germany	Possehl Erzgeseilschaft
Calcutta, India	Expert Agency Service Private, Ltd.
Tel-Aviv, Israel	K. J. Deutsch
Tokyo, Japan	T. Kakiuchi & Company, Ltd.
Seoul, Korea	IHL-Hung Trading Co.
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Asbestos—Manufactured Goods.

Asbestos Textiles. With heavy industry continuing to operate at a high rate of productivity, the manufacturers of asbestos textiles are encountering difficulty in meeting customer needs. Additionally, purchasing of asbestos for the military is continuing at a high level. Sales for 1966 will undoubtedly exceed the 1965 volume.

Asbestos Brake Lining. The motive friction materials market is quite strong and this condition should continue due to the high volume of production last year of motor vehicles. Also, the new safety inspection laws being passed by many states will create larger demands for friction materials.

Asbestos Paper & Millboard. Demand for these materials continues at a fairly steady pace and no change is anticipated during the coming months. Competition for large requirements of asbestos paper is keen.

Asbestos Roofing Felt. Volume of demand for asbestos roofing felts is running in excess of this time last year and 1966 should be an extremely good year.

High Pressure Insulation. Business is at a very high level, backlog is very heavy, and prices have been increased on major high temperature products. The business outlook for this year is optimistic and 1966 should be a record year.

Asbestos-Cement Shingles, Roofing & Siding. The roofing market is exceptionally strong in the New Orleans area and although the roofing and siding market is seasonally slow, activity should pick up as temperatures moderate and new construction opens up. There is a decided trend toward the use of shingles and numerous specifications are being secured. The business outlook is very favorable but extremely competitive and an active remodeling market is expected shortly.

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Asbestos-Cement Pipes. The market at this time has not yet rebounded from the normal seasonal decline but a firm and steadily increasing demand is expected shortly. It seems likely this upward trend will continue. However, the long range outlook is somewhat uncertain as defense spending and tighter fiscal controls may affect construction spending on housing, water and sewer programs.

Asbestos Filter Fiber. The Arizona filter market continues to retain a good volume of activity. Business for the balance of 1966 looks firm due to an increase of interest from foreign markets.

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

SURVEY OF MINES 1966—Mining is in the forefront of the latest wave of growth in the Canadian economy, according to this survey. Output of metallic and nonmetallic minerals has been expanding at a rate of 10-12% annually, with excellent demand and considerably improved prices pointing to further increases. Expansion of mining facilities is underway and new properties are being discovered. This comprehensive survey covers Canadian mineral production, price range of mining stocks, stock exchange commission rates on mining stocks, principal milling plants, individual chapters on the various provinces, defunct companies, a map section, etc. Copies of this very comprehensive survey are available from The Financial Post, 481 University Avenue, Toronto 2, Canada ($6.00).

BRITISH A-C DUCTING STANDARD—Asbestos-cement ducting used in the building industry for flue and ventilation work is now the subject of a British Standard. "B.S. 3954 Asbestos Cement Ducting" specifies the general requirements for the composition, manufacture and dimensions and tolerances of square, rectangular and circular ducting. Appendices to the standard describe tests for hydraulic soundness, water absorption, resistance to acidified water and the effectiveness of protective coatings. (British Standards Institution)



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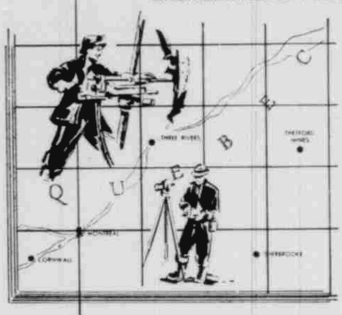
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PRODUCTION

Bechuanaland Exports—2,026 short tons of asbestos (Bechuanaland's most important mineral export) were exported in 1964, valued at R257,888.

California Production—55,041 short tons of asbestos were produced in California during 1964 valued at $4,419,000. This compares with the 1963 production of 19,591 short tons valued at $1,547,000.

Canada—NOVEMBER 1965 asbestos production amounted to 170,663 tons compared to 173,342 in November 1964. Total for the first eleven months of 1965 was 1,239,545 compared to 1,270,671 for the same period in 1964. (Dominion Bureau of Statistics, Ottawa)

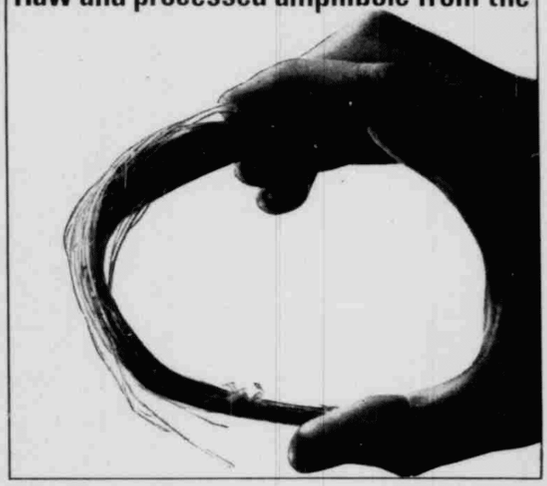
Canada—DECEMBER 1965 asbestos production amounted to 148,010 tons compared to 149,180 in December 1964. Total for the YEAR 1965 was 1,387,555 compared to 1,419,851 for 1964. (Dominion Bureau of Statistics, Ottawa)

Canadian Johns-Manville—Field work and physical testing on the Reeves Township property of Canadian Johns-Manville Company Limited, located in Northern Ontario, has been completed.

At the Jeffrey mine at Asbestos, Quebec, a $4,000,000 investment was authorized, increasing capacity of fibre production 30,000 tons and improving quality of output. Specialized high-speed equipment for removal of overburden and waste rock at lower cost was part of this expenditure. (J-M Annual Report 1965)

Advocate Mines Limited registered net income of $2,059,794 for the year 1965, up from $1,526,880 in 1964, and working capital position improved by $845,514. The mill handled 2,098,630 tons, producing 60,646 tons of A-25 grade asbestos fibre and 995 tons of A-35. A total of 2.1-million tons of ore and 4.48-million tons of waste and overburden were mined, up 43% from the previous year. Construction was started on an improved ore concentration system, permitting a larger percentage of barren rock to be discarded before milling. This is designed to permit mining a lower grade ore while maintaining the mill at maximum capacity. A program of shallow diamond drilling was also initiated during the year, with a view to improving grade control. (The Northern Miner)

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IMPORTS & EXPORTS

Exports From U.S.A.

(Figures by Bureau of the Census) NOVEMBER 1965

Unmanufactured Asbestos: Short Tons

Crude & Spinning		Non-Spinning Fibers		Waste & Refuse	
Italy	83	Belgium	78	Belgium	33
Japan	21	India	1,328	Canada	250
Mexico	1	Japan	65	Colombia	95
W. Germany	14	Korea	100	Japan	607
	—	Mexico	6	Korea	330
	119	Netherlands	125	Netherlands	402
		Viet-nam	444	U. Kingdom	30
		W. Germany	18	Viet-nam	91
		Other Ctys.	39	W. Germany	40
			2,203	Other Ctys.	20
					1,898

Total Unmanufactured Asbestos..4,220 Valued at..$551,746

Manufactured Asbestos Goods:	Net Qty.	Value
A-C Shingles & Clapboard ....Lb.	983,656	$ 94,753
Other A-C or Fiber-Cement Items ...Lb.	727,921	81,533
Gaskets & Packing ....Lb.	448,013	443,547
Textiles & Yarns ....Lb.	104,420	82,692
Mfrs other than Friction Materials	..	296,030
Clutch Facings incl. Linings ....No.	226,269	176,355
Brake Linings ....Lb.	516,995	393,692
		$1,568,602

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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Exports From Canada

(Published by Dominion Bureau of Statistics) NOVEMBER 1965

Unmanufactured Asbestos:

	Crude	Milled (Short Tons)	Shorts (Short Tons)
United States	5	26,495	37,552
United Kingdom	..	3,791	5,408
South America	..	4,904	2,121
Central America & Mexico	..	1,083	250
Europe	2	30,419	11,595
Japan	..	2,513	3,671
Other Countries	..	7,112	1,069
	7	76,317	61,666

Total Unmanufactured Asbestos..137,990 Valued at..$17,537,472

Unmanufactured Asbestos Goods:

Asbestos Brake Linings & Facings	$ 55,263
Asbestos-Cement Building Materials	49,183
Asbestos Basic Products, Other	25,522
	$ 129,968

T&N/Bureau of Standards—Mr. B. Lincoln, Director of Turner &,Newall Limited in charge of the T&N Asbestos Fibre Laboratory in Manchester, England, recently visited South Africa for the specific purpose of advising the Bureau of Standards on equipping its new Asbestos Testing Laboratory and on the methods of operating the T&N equipment which was developed and built at the Manchester Research Laboratories under Mr. Lincoln's direction. The Bureau will remain in direct communication with Mr. Lincoln for purposes of standardization and future inter-laboratory collaborative testing.

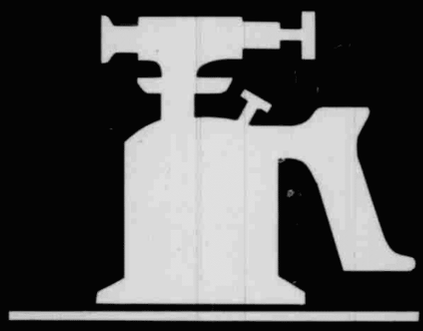
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INDUSTRY NEWS

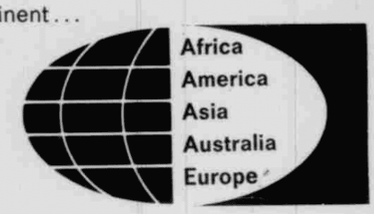
HAPPY BIRTHDAY

Alfred G. W. Sinclair, President, Canadian Johns-Manville Company Limited, Port Credit, Ontario, Canada, April 15.
Philip A. Meyer, Vice President, Asbestos Fibre Division, Nicolet Industries, Inc., Florham Park, New Jersey, April 16.
Richard A. White, Director, Advertising & Sales Promotion, The Ruberoid Co., New York City, April 18.
E. A. Boadway, Chairman, Carey-Canadian Mines Limited, East Broughton Station, P.Q., Canada, April 23.
Carl Resnikoff, Contract Sales Manager, Floor Tile Division, The Ruberoid Co., New York City, April 25.
Edward R. Stevens, President, Baldwin-Ehret-Hill, Inc., Trenton, New Jersey, April 25.
J. Carroll Johnston, President, Atlas Asbestos Company, North Wales, Pennsylvania, April 28.
Robert D. Bradford, President, American Smelting & Refining Company, New York City, April 29.
Merlin W. Simon, Executive Vice President, Sprinkmann Sons Corporation, Milwaukee, Wisconsin, April 30.
Richard H. Jaffer, President, York Insulation Company, Inc., Hillside, New Jersey, May 1.
George O. Hart, Jr., Vice President, Kelley Asbestos Products Company, Kansas City, Missouri, May 2.
Guy George Gabrielson, Jr., President, Nicolet Industries, Inc., Florham Park, New Jersey, May 4.
W. S. Cowell, President, Ferodo (Canada) Limited & Albion Asbestos Packings (1959) Limited, Montreal, Canada, May 5.
F. Parker Smith, Vice President & Director, Bell Asbestos Mines Ltd., Thetford Mines, Canada, May 10.
C. R. Elliott, Vice President & Secretary-Treasurer, Cassiar Asbestos Corporation Limited, Toronto, Canada, May 11.
R. B. Todd, Vice President-Manufacturing, Atlas Asbestos Company, Montreal, Canada, May 11.
Frank C. Waters, Marketing Director, Wunderlich Limited, Sydney, N.S.W., Australia, May 12.
Leslie M. Cassidy, Director, Johns-Manville Corporation, New York City, May 13.

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

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Asarco Annual Report 1965—American Smelting and Refining Company reports that net earnings of $52,456,000, the highest in the company's history, compare with 1964 earnings of $41,918,000. Sales of asbestos fibres during 1965 by Asarco's wholly-owned subsidiary, Lake Asbestos of Quebec Limited, Black Lake, Quebec, Canada, were maintained at a satisfactory level. Production of asbestos fibre amounted to 114,803 short tons in 1965 compared to 103,582 in 1964 and shipments amounted to 106,551 short tons against 115,325. The Cement Asbestos Products Company in Alabama, in which Asarco has a 40% interest, started production of asbestos-cement pipe in June 1965 and is operating successfully.

Cassiar Annual Report 1965—According to the 14th annual report of Cassiar Asbestos Corporation Limited, sales of asbestos fibre for 1965 amounted to $17,526,197 compared with $14,466,691 in 1964 and net profit was $3,688,472 against $3,028,462. During 1965 743,765 tons of ore were mined, 613,404 tons of ore and concentrate were milled and fibre produced amounted to 85,432 tons.

National Gypsum Annual Report 1965—Net sales of $258,984,590 for National Gypsum Company were up from $275,053,791 reported in 1964 and net income amounted to $17,891,274 against $21,976,268. Funds were committed for a new WOODROCK clapboard siding manufacturing facility at the company's St. Louis, Missouri, plant. This expenditure is necessary to meet the growing demand for this new asbestos-cement product and will provide increased production capacity in mid-1966.

Porter Annual Report 1965—H. K. Porter Company, Inc. has reported net sales in 1965 of $278,990,242 compared to $263,045,895 in 1964. Net income was $5,713,308 against $5,134,434. Expenditures for plant and equipment during 1965 amounted to $7,885,190. The Thermoid Division acquired new looms for fire hose production, a Roto-cure unit for sheeting and conveyor belt and additional computer facilities. The new friction product plants have been completed in England and Australia.

R/M Annual Report 1965—Raybestos-Manhattan, Inc. has reported net sales of $105,575,844 for 1965 compared to the 1964 figure of $101,859,363. Net income amounted to $6,363,495 against $5,513,367. R/M is continuing to strengthen its research and development staff. New and improved products are being developed which should help to further increase production and earnings.

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THE RUBEROID CO.

David L. Neil has been appointed Vice President-Manufacturing of Ruberoid's Building and Industrial Products Division. He succeeds **Charles T. Limerick** who recently retired after a 28-year span of service with Ruberoid. Mr. Neil had been vice president-manufacturing of the roofing granule division since joining the company in 1962.

Erwin C. Gutzwiller has been named Vice President-Manufacturing of Ruberoid's Roofing Granule Division. He joined Ruberoid in 1958 as director of engineering, was named vice president-manufacturing of the floor tile division in early 1963, and later that same year assumed the corporate post of assistant to senior vice president-operations.

George J. Garthwaite has been named Sales Manager of Ruberoid's New York Sales District, and **Herbert Frohman** became Sales Manager of the Erie Sales District. Also, **Leo J. Monahan** is now Product Promotion Manager of the Building Products Division and will be headquartered in New York City, and **William J. Frost** is Plant Manager of the Roofing Granule facility in Fairmont, Georgia.

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THE PHILIP CAREY MFG. CO.

Harold F. Plate was appointed Sales Manager for the sales of Carey-Canadian asbestos fibre. Joining Carey-Canadian in 1962, Mr. Plate was named eastern regional sales engineer, and in 1964 became assistant sales manager.

Fred W. Evinger has been appointed Midwest Regional Manager for the sales of Carey-Canadian asbestos fibre. He joined the Carey organization in 1959 and has been sales representative and manager of railroad sales.

THE FLINTKOTE COMPANY

Charles F. Price has been appointed Sales Engineer for Flintite asbestos-cement pipe by Orangeburg Manufacturing Company, a division of Flintkote. Headquartered in Nashville, Tennessee, Mr. Price's territory will include central and western Tennessee and southwestern Kentucky.

JOHNS-MANVILLE CORPORATION

W. D. Gaches was appointed Vice President of the Johns-Manville Sales Corporation and General Sales Manager, Equipment Products Department of the Industrial Insulations Division. He joined J-M in 1947 as a sales clerk, and from 1961 to the present has been District Sales Manager in the Cleveland District.

CAPE ASBESTOS GROUP

A. Brearley, TD, BSc, CEng, AMIMechE, has been appointed Works Director of **Small and Parkes Limited,** Manchester, England, effective February 14th, 1966.

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CERTAIN-TEED PRODUCTS CORPORATION

Charles E. Martin has been appointed to the new post of Marketing Manager, Plastic Products, it was announced by Edward L. Mongold, General Sales Manager of Certain-teed's Building Materials Division. Mr. Martin joined the company in 1960 as a sales representative.

H. K. PORTER COMPANY, INC.

E. M. Nesvig was appointed Vice President and General Manager of the Thermoid Division, H. K. Porter Company. He will be responsible for the operation of twelve Thermoid Division plants as well as a nationwide sales and distributor organization.

R. W. Davison, vice president and general manager of the Fabricated Metals Division since 1963, has been elected Executive Vice President of H. K. Porter. **J. H. Wyres** has been appointed Acting General Manager of the Fabricated Metals Division, replacing Mr. Davison.

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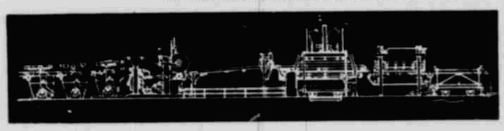
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UNITED STATES RUBBER COMPANY

Joseph W. Chinn, Jr., president and chief executive officer of the Wilmington Trust Company, Wilmington, Delaware, has been elected a Director of U. S. Rubber. He is also a director of the W. T. Grant Company, National Vulcanized Fibers Company, La Floresta Perdida, Inc., Florell Corporation, E.P.F. Corporation, and Magdalena Mining & Investments Limited.

ARMSTRONG CORK COMPANY

Richard L. Collister has been appointed General Sales Manager of Armstrong's Industry Products Division. He succeeds **F. S. Donnelly, Jr.,** who was nominated for election as Treasurer.

Six other changes also were announced for this division: **E. W. Jones**—Manager of the Chicago District Office, replacing **R. L. Fels** who retired after 43 years service; **B. B. Hoff**—Marketing Manager, Equipment Insulation; **W. B. King**—Marketing Manager for industrial insulation products; **G. A. McCormick**—Marketing Manager for gasket, friction and cast urethane products; **J. B. Helmer**—Assistant Manager for gasket, friction and cast urethane products; and, **D. W. Kuhn**—Marketing Manager for mobile home products.

George C. Follmer, assistant manager of the Cleveland district office of Armstrong Cork's Industry Products Division, has been promoted to the newly created position of Materials Manager of Armstrong Contracting and Supply Corporation, a subsidiary. Succeeding Mr. Follmer as Assistant Manager of the Cleveland office is **Paul H. Bletz,** resident marketing representative in Buffalo, New York.

A. B. Condon, assistant manager of the Chicago District Office of Armstrong Cork's Industry Products Division, has been appointed Manager of the San Francisco District Office. He joined the company in 1945 and served in various sales assignments.

J. C. Master, Armstrong's marketing representative in Detroit, was promoted to Assistant Manager of the Chicago District Office, succeeding Mr. Condon. Mr. Master joined the company in 1955.

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(As of July 10, 1964)

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

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

(As of January 1, 1965) Canadian Currency

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

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

As of January 1, 1966) Canadian Currency

AAA grade (non-ferrous spinning fibre)	$ 787.00
AA grade (non-ferrous spinning fibre)	625.00
A grade (non-ferrous spinning—Canadian Group 3)	470.00
AC grade (asbestos cement—Canadian Group 4)	325.00
AD grade (asbestos-cement—Canadian Group 4)	273.00
AK grade (shingle fibre—Canadian Group 4)	231.00
AS grade (shingle fibre—Canadian Group 4)	190.00
AX grade (shingle fibre—Canadian Group 5)	168.00
AY grade (shingle fibre—Canadian Group 5)	126.00

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

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

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

For the beneficiation of asbestos ore,
Modern HAZEMAG Impact Crushers
(Andreas System)



- Fiber-length protective opening of ore and crude.
- Opening of pressed asbestos.

Modern HAZEMAG Rapid-Dryers
(Andreas System)



for drying pre-crushed asbestos-ores of various moisture-contents with fibre-selecting effect.

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75 Beverly Street, Galt, Ontario
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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 February 15th through March 8th, 1966.

3,235,530—Asbestos Fiber Reinforced Moulding Material, Moulded Articles, and Method of Making Same, R. T. Crouch and C. H. Barger (assigned to Johns-Manville Corporation, New York City), February 15, 1966.

3,238,052—Method of Making Calcium Silicate Materials, N. Burak and P. McAnespie (assigned to Joseph Crosfield & Sons Limited, Warrington, England), March 1, 1966.

3,238,056—Microporous Materials and Process of Making the Same, D. B. Pall and C. A. Keedwell (ssigned to Pall Corporation, Glen Cove, New York), March 1, 1966.

COMPLETE PLANTS FOR MANUFACTURE OF ASBESTOS-CEMENT PRESSURE PIPES

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Production quantities excellent - quality largely above B.S.S. prescriptions - prices beyond competition

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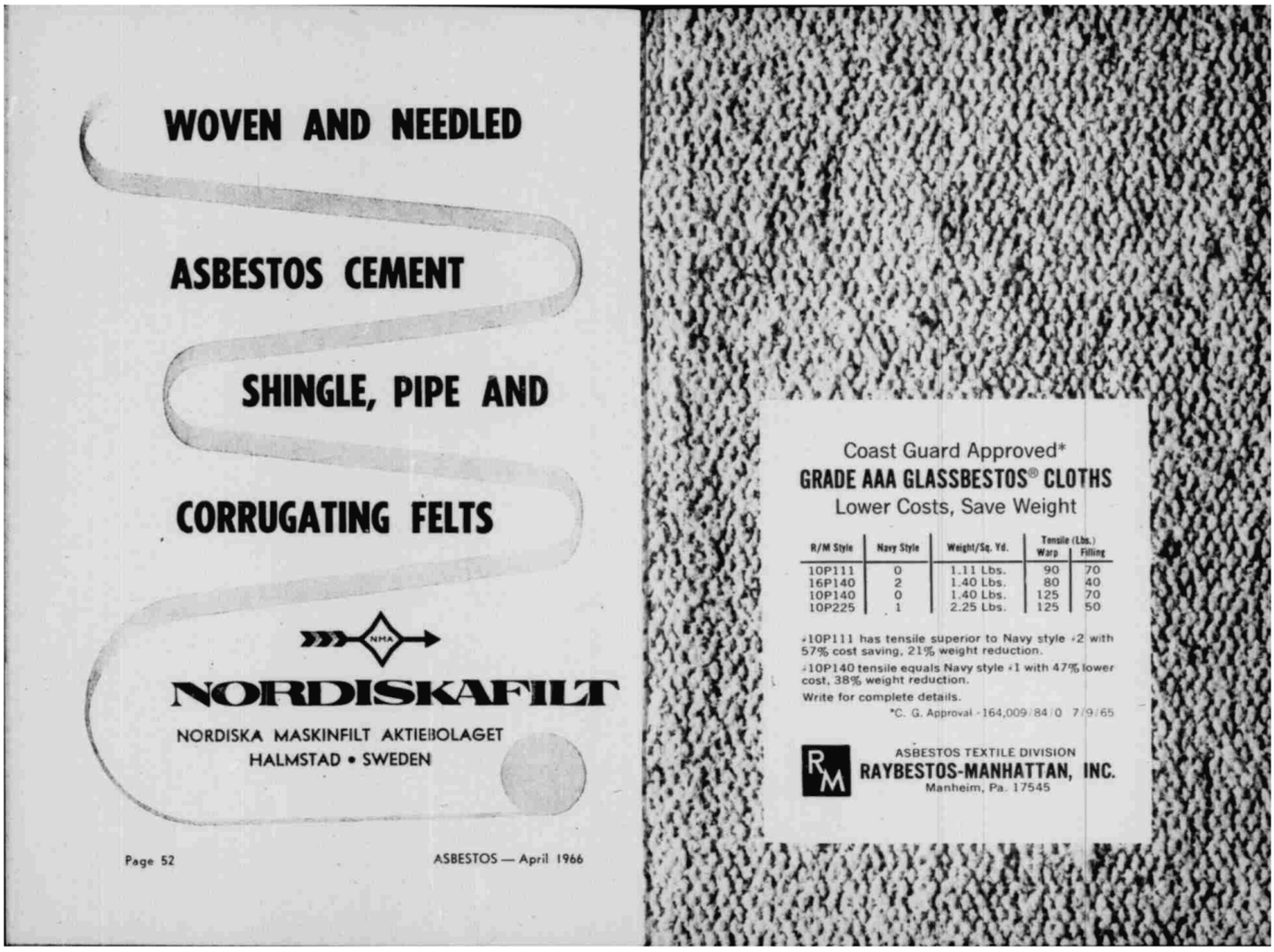


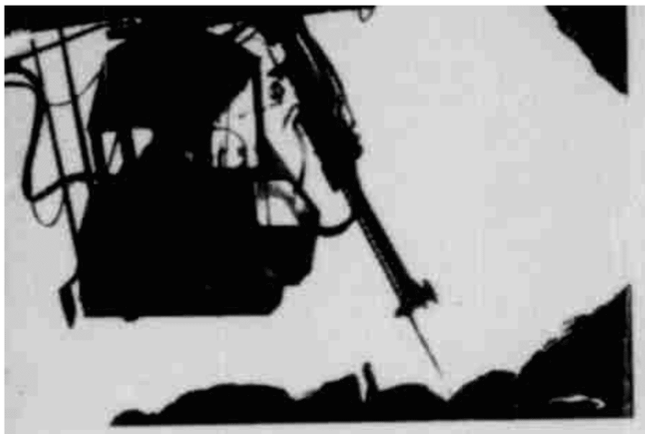
LAGGING IN FRONT

This is B.B.A. Asbestos Fibre-Filled Rope Lagging for Steam Pipe Insulation, one of many of asbestos products, from yarn and rovings to cloth, tapes and jointings of all types and the world-famous MINTEX friction materials made by B.B.A. In production, as in research, we are in the front of our field. To all intents and purposes, B.B.A. *is* Asbestos.

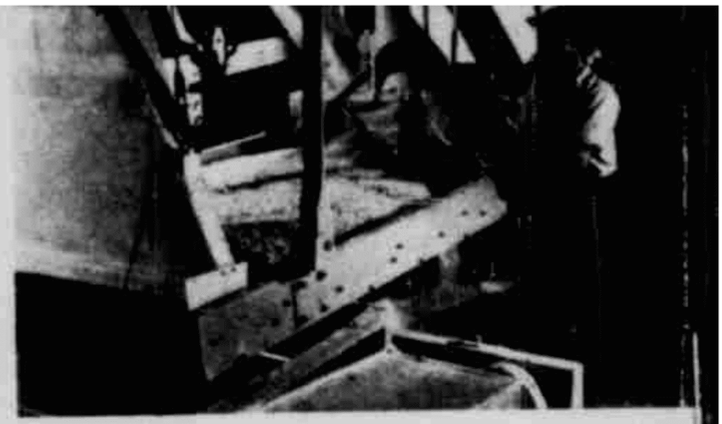
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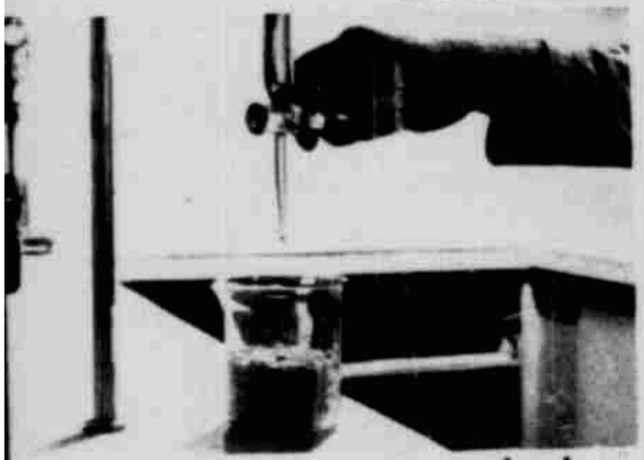

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R/M Style | Navy Style | Weight/Sq. Yd. | Tensile (Lbs.) Warp | Filling
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*10P111 has tensile superior to Navy style #2 with 57% cost saving, 21% weight reduction.
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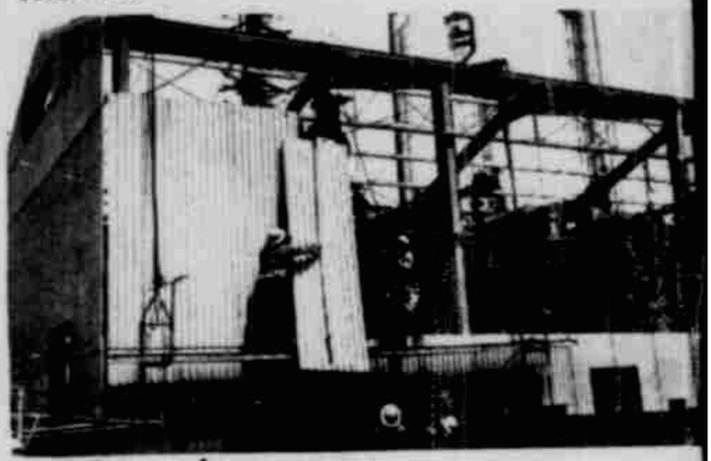
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