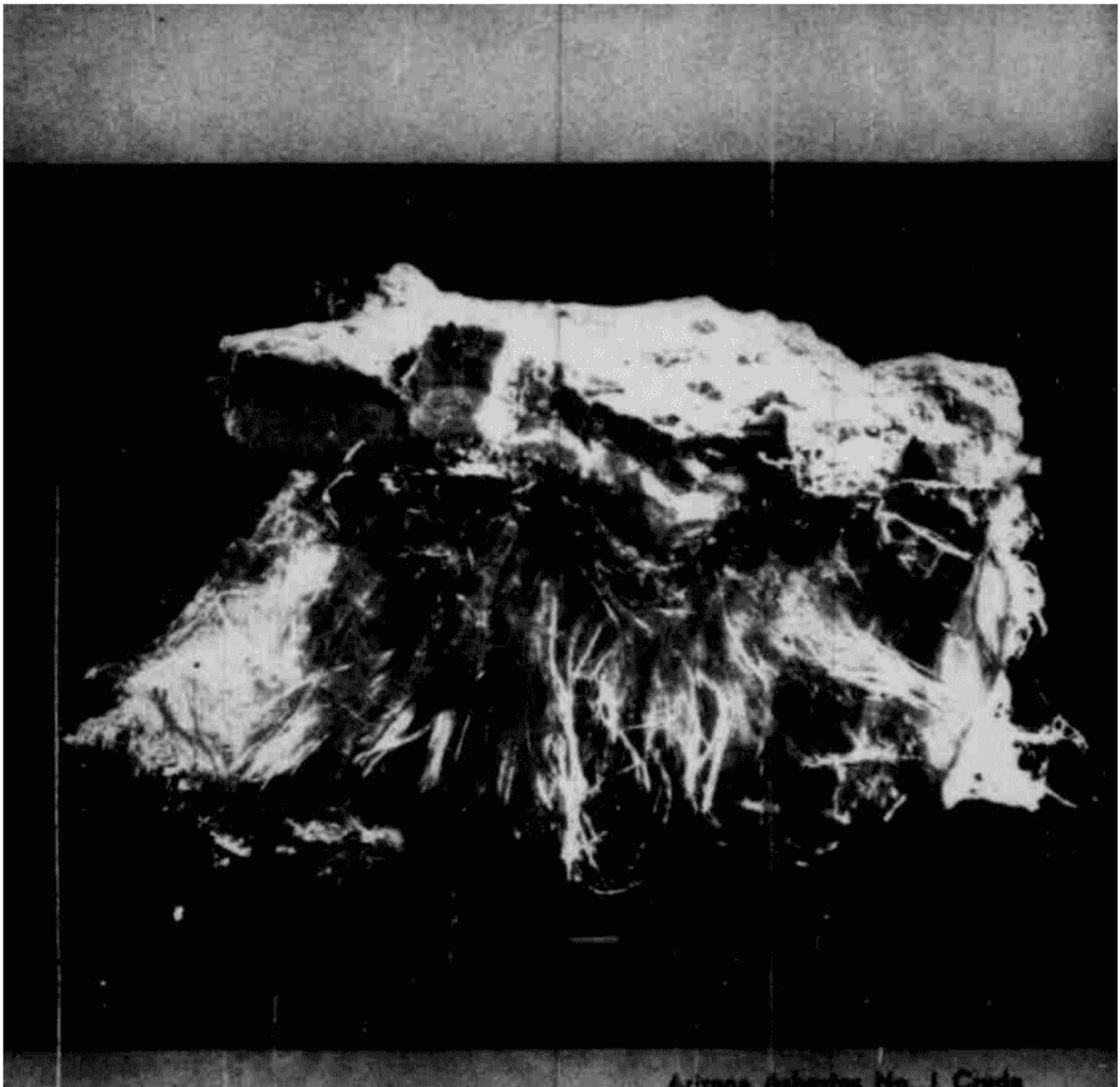


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ASBESTOS

VOLUME 47 FEBRUARY 1966 NUMBER 8

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WHAT TYPE OF FELT?

For Manufacturers of Asbestos-Cement Sheets and Pipes

By: John Ford, Scapa Dryers Limited, Blackburn, England

It is only natural that each felt manufacturer will recommend his own product and it adds to the confusion of users by his quoting the most remarkable performance on the particular type of felt he is recommending.

ALL-NYLON and NEEDLED SYNTHETIC felts are now accepted by a great many mills throughout the world. Indeed, present production and machine speeds would be impossible without the very considerable use of synthetic or similar modified fibres.

I have previously written on the additional cleaning necessary to enable modern felts to give the best performance and to enable high productive speeds to be achieved. Work is still proceeding in this field, experiments are well advanced and developments can be expected in the near future.

There is some confusion as to the relative merits of felts of the NEEDLE-REINFORCED (N.R.) and BATT-ON-BASE (B.O.B.) type. Needling, as is well known, is a means of mechanically intertwining and locking together fibres. Synthetic fibres are notoriously slippery and unless a very close structure is preferred, some means of attaching fibre to fibre is necessary if these are to withstand the strains to which a felt is subject, without partial or complete disruption.

Needling, however, offers further possibilities. A nap or hairy surface can be teazled or raised on the woven felt on one or both surfaces and this provides ideal conditions for the needling process to intertwine fibres. If a heavy nap is raised on the woven felt, then a very smooth surface, which is still part of the actual felt and still an integral part of it, can be given without too seriously interfering with the "openness" of the felt structure.

This type of felt is know as "NEEDLE-REINFORCED" and can be varied within the limits of NO NAP, giving a very coarse surface with "knuckles" to the maximum NAP; the structure will stand, thereby giving a very smooth surface.

Felts of the BATT-ON-BASE variety consist of an

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adequately porous base felt strong enough to withstand all machine strains and onto which is needled a fleece of fibres —usually synthetic. The needling process attaches these firmly to the base structure which it covers, to give a very smooth non-marking surface. The amount of fleece or BATT can be varied from little to virtually any amount and may be applied to one or both surfaces of the felt.

Besides offering advantages to the asbestos-cement sheet, a needled surface on the underside of the felt provides additional resistance to the wear caused by suction boxes, etc., and because felts are usually worn out by friction from these boxes, needling substantially prolongs the working life.

It will be seen therefore that if desirable a similar felt of the N.R. type and the B.O.B. type could be manufactured, the only difference being that with the former the nap or fleece is part of the base fabric whereas with the latter it is attached during the needling process.

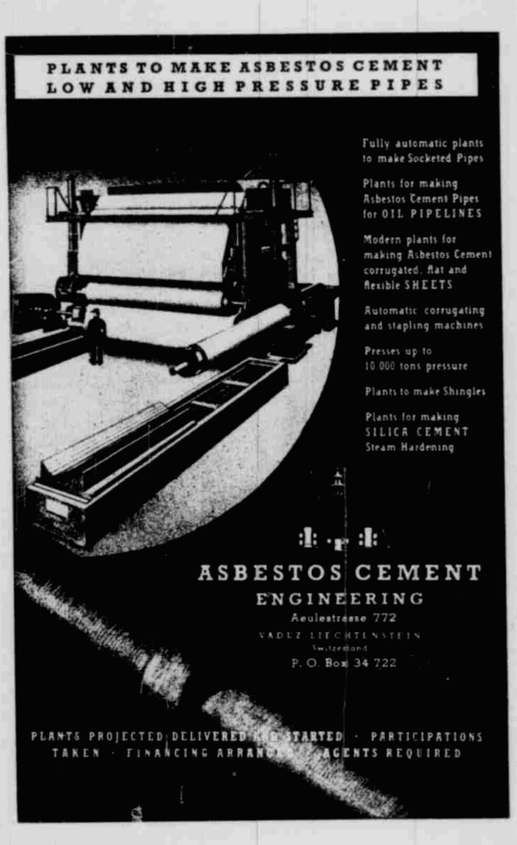
In practice, however, the degree of BATT or surface in the B.O.B. is greater than in the N.R. type and consequently more likely to absorb moisture within its structure, whereas the N.R. type will drain more freely through the weave.

It is here that we have the pointer to choosing the correct type of felt.

We must consider the water shedding characteristics or freedom of the furnish. Some fibres are very free draining but the behavior of asbestos fibre with cement is probably the most relevant. A high free draining asbestos fibre content is required to allow B.O.B. felts to perform satisfactorily. Where high draining properties are not essential, a B.O.B. felt will give a wetter sheet which is desirable for moulded products with acute radii.

At the other extreme when using fibres with a high moisture retention and/or a greater proportion of cement in the mix, much water has to be expressed by pressure and suction and in these circumstances an N.R. felt is to be preferred.

As the laminae build up they carry a fair amount of moisture and unless a coarse felt with readily accessible voids is used the layers may refuse to adhere, causing delamination. For this reason some users prefer the N.R.



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felts with large "knuckles" which guard against delamination.

A stronger NYLON felt permits a higher machine speed to be achieved and will enable output to be maintained when the asbestos-cement product calls for an increased number of thinner layers. The very thin lamina will allow the slower draining B.O.B. felt to work more efficiently.

To summarize then, a B.O.B. felt will provide a very smooth surface sheet amenable to moulding provided a fairly free draining furnish is used whilst for less free draining furnishes the N.R. felt is to be preferred.

Certain Operating Techniques
Apply to Both Types of Felt Start-Up

The first care is to acknowledge that warm water drains more readily than cold meaning a circuit temperature between 80/105 degrees F. (27 to 40 degrees C.) is desirable and beneficial for felt speeds of 100/200 f.p.m.

Initially, synthetic felts tend to carry excess water on the surface and for this reason and after adequate wetting out (immediately the felt is dressed) spraying should be kept to a minimum, better still eliminated for the initial 20/30 minutes while the felt settles down and then progressively introduced to give optimum spraying after about 1½ hours.

Sieve/screen sprays should likewise be checked for the first hour or so for these invariably cause a moisture vapor to rise, adding water to the layer which if too heavily laden will leave the felt to fall into the vats or build up on the sieve.

A "Doctor" board on the felt immediately in front of the couch rolls, say 3", will direct initial excess water to the sides of the sieve, instead of allowing it to well back beyond the crown of the screen where it would tend to seep through the weave to overload and dislodge the layer. These should be discarded once the felt is run in.

A low vat level exposing the maximum screen area also assists drainage during start-up of a new felt.

A further reason for indifferent pick-up at start-up may arise as a result of the felt shedding fibres onto the sieve thus "blinding" the screen. This can be caused by high pressure sprays on the inside of the new felt forcing

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loose hairs onto the surface and the recommended initial reduced spraying should obviate it.

Where felt whippers are used fibre shedding can be particularly troublesome during the first twenty-four hours, especially with B.O.B. felts, and for this reason start-up would benefit from initially eliminating whipping.

Machine Conditions

At all times the N.R. and B.O.B. felt should be run tighter than a conventional type felt. Even so, the felt may tend to slip or skid (due to the smoothness of the synthetic fibres, also to the increased speed achieved). A greater lap around the drive roll (a surface contact through 180° is desirable) or a supplementary driven roll assembly may be an advantage.

Vacuum box area can be increased with advantage, i.e. less applied vacuum over a wider surface extracts more water and reduces felt wear; a roller topped vacuum box further reduces wear.

Inverted suction boxes between each pick-up should be installed with a progressively increasing vacuum.

The felt should be run as squarely as possible by seeing that the colored line woven across the felt is not allowed to distort, otherwise the weave will close and the felt narrow.

Felt Cleaning

Is best achieved by high pressure sprays applied to the back side of the felt followed by a suction box on the face side. Some users prefer to lightly wash off the opposite side immediately following the vacuum box before passing the felt through the squeeze rollers, the top roll being rubber covered.

Shutdown

It is essential the felt be slackened if the shutdown is likely to exceed an hour. Before doing this throughly spray the felt from the high pressure spray for at least fifteen minutes. If the shutdown is to exceed twenty-four hours, an acid wash with a solution of Hydrochloric, Acetic or Sulpamic Acid is desirable. Acid washing should be immediately followed by water washing to clear acid from the pumps and other machine parts.

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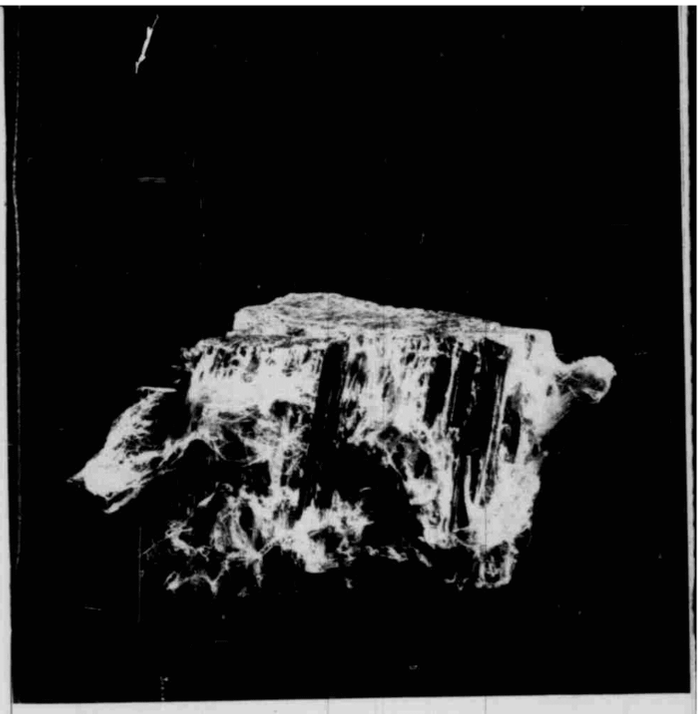
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Glassblower Uses Asbestos

Advancements and research in science are difficult without the skills of a glassblower and the use of asbestos. University of Texas graduate students doing research require complicated dewars with a vacuum to 10-7mm of mercury, oil diffusion pumps, vacuum systems, and plasma tubes for their doctoral degrees. The glassblower could not make these complicated, intricate apparatus without asbestos.

University of Texas glassblower, Cleon Yates, constructs apparatus for Physics Research. Many of the objects he makes have never before been constructed.

When a smaller glass section is to be sealed in a larger glass section, the wall or empty space between the two sections must be even or parallel to the fraction of an inch. To get this precision, the glassblower uses asbestos, wrapped around the smaller section. The asbestos will not burn, it is flexible, and easily removed from the object. Mr. Yates also uses asbestos to seal tight glass joints.

Also, the top of the glassblower's work table is completely asbestos. He can drop hot glass on the table, and it will not burn. With the intense fires and heat the glassblower uses, this is necessary.

In almost every job, the glassblower utilizes asbestos. One man who watched the glassblower in his work said, "This has been bothering me for a long time. You must have asbestos hands. You hold the glass so long." The glassblower stopped his work and showed his smooth hands.

MESSRS. GEBR. WEHRHAHN request, supplementary to the article "Modern Ways of Precuring Asbestos-Cement Pressure Pipes" issued in July 1965 ASBESTOS on pages 2-12, to point out that decisive constructional features of the kiln described in this article on pages 10 and 12 are based on developments and suggestions of *Messrs. Toschi GmbH. & Co. KG*, Asbestzementwerke, Bremen-Hemelingen, Germany. Especially, the described kiln makes use of the two German Patents 1043910 and 1053381 which belong to the above-mentioned firm. If in any particular case these two patents are put into practice, a previous license-grant by Messrs. Toschi GmbH. & Co. KG is necessary.

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IDCNA INSULATION MANUAL—After many years of discussion, IDCNA has started the editing of a National Thermal Insulation Standards & Reference Manual, as approved by the Association at the 1965 Annual Meeting in New York City.

IDCNA Board of Directors will hold its 1966 Spring Meeting at the Americana Hotel, Bal Harbour, Florida, on Thursday, February 24th, 1966. Plans for the activities of the Association will be announced at that meeting.

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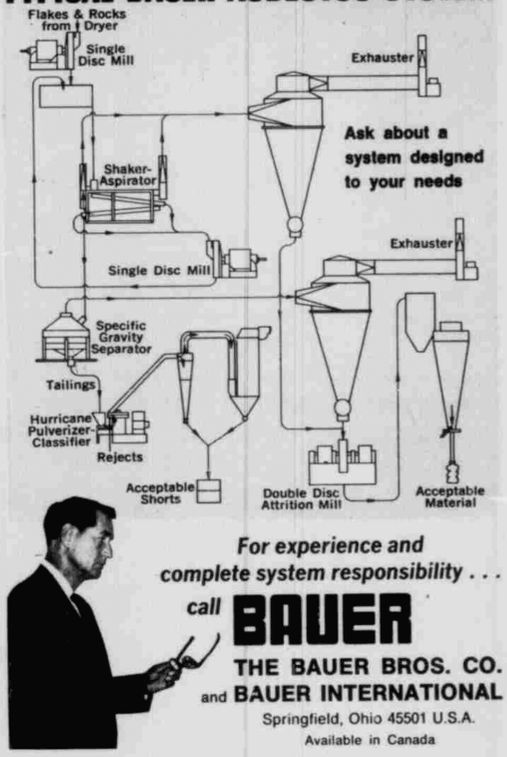
THE BAUER BROS. CO. fully describes, in new Bulletin G-8-A, the high capacity Centri-Sonic Classifier, which separates dry, powdered material into two sharply defined fractions above and below the desired particle size in the sub sieve range of 200 mesh or finer. Photo diagrams, cut away drawings, exploded views and a typical system installation drawing illustrate design, construction and operational features. Principal production advantages of the unit are sharp "one pass" classification at any desired particle size, accurately controlled separation which assures uniformity of quality, exceptionally high capacity, and wide range of applications in the processing industries. The bulletin lists typical uses and provides specifications on the four available sizes, which range from 5 HP to 100 HP. In certain production runs, the Centri-Sonic has provided 10 to 15 times the output of other centripetal classifiers.

ASTM COMMITTEE C-16, Thermal Insulating Materials, created a special task force to review all specifications, mainly to list significant properties and test methods to complement and increase the usefulness of their specifications. The committee, after several years of preparation and review, has approved for presentation to the Society a proposed recommended practice giving dimensions for inner and outer diameters of rigid preformed thermal insulation calculated for nominal pipe and tube sizes. These standard dimensions allow for radial expansion of heated pipe and tube so that the insulation will fit properly after heating. The insulation can be used at temperatures up to 1200°F.

ASTM COMMITTEE C-16 on Thermal Insulating Materials, Golden Triangle Motel, Norfolk, Virginia, April 3rd through 6th, 1966.

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Automobile Sales

NOVEMBER 1965 motor vehicle factory sales from plants in the United States totaled 1,061,493 (passenger cars 911,877; trucks and buses 149,616). The total for November 1964 was 794,106. The figure for the first eleven months of 1965 was 10,031,546 compared to 8,260,901 for the same period 1964. (Automobile Manufacturers Association)

1965 RESEARCH INDEX, issued by the Ontario Economic Council, Toronto, Ontario, Canada, lists over 460 research projects being undertaken by the Ontario government and associated industries. Included in this listing, under Ontario Research Foundation, Department of Materials Chemistry, is "Studies of the structural and surface properties of chrysotile asbestos using differential thermal analytical techniques" (#147—principal investigators: W. N. B. Armstrong and R. Marson).

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Building

DECEMBER/YEAR 1965—Contracts for future construction work, valued at $3,698,208,000, advanced 3% in December, brought the 1965 total 4% ahead of 1964, and established a new 12-month high of $49,272,170,000. 1966 building activity is off to a good start. After adjustment for normal seasonal differences, the final 3 months of 1965 added up to the best quarter on record for the initiation of new construction projects.

Nonresidential building contract value, at $1,432,864,000 in December, was exceptionally strong, topping the comparable year-ago level by 10%. For 1965 as a whole, nonresidential building contracts, valued at $17,219,239,000, finished 11% ahead of 1964's total.

Residential building contract value in December was $1,446,475,000, 11% over the depressed year-ago amount. All major residential building types showed substantial year-to-year gains in December. Total residential building value for 1965, at $21,247,501,000, showed an increase of 3%.

Nonbuilding construction contract value, at $818,869,000, declined 18% in December, reflecting a drop of several of the key heavy construction categories from their strong pace a year ago. The sharp declines in nonbuilding construction reported in both November and December brought the year's total to $10,805,430,000, 4% below the final 1964 value. (F. W. Dodge Company, a division of McGraw-Hill, Inc.)

T&N/IBSAC 66—Turner & Newall Limited will exhibit at IBSAC 66 (The Industrialized Building Systems and Components Exhibition, Crystal Palace, London, England, May 10th through 21st, 1966). The exhibit will include two houses as well as displays of the products of seven T&N manufacturing companies in the United Kingdom.

BOOK OF ASTM STANDARDS—All of the 1965 parts of the Book of ASTM Standards are now available, including: Part 14—Thermal Insulating Materials ($9.00); and, Part 25—Textile Materials: Fibers and Zippers ($12.00).

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GEORGE A. FASOLD, retired director of research for The Philip Carey Manufacturing Company, passed away January 12, 1966. Mr. Fasold retired from Carey in 1960 with 40 years service. He held 25 patents on asbestos and roofing products and is listed in Who's Who in Engineering.

CAREY EXHIBIT—Visitors to Booth No. 664 at the Plant Engineering and Maintenance Show will see and hear about Careytemp insulations developed and manufactured by The Philip Carey Manufacturing Company. The entire Careytemp line will be on display as well as appropriate Philip Carey roofing, siding and coating products for industrial applications.

ASTM STANDARD — Specification for Asbestos-Cement Non-Pressure Sewer Pipe, C428-65T (separate standard—$1.00 per copy).

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Wien, Austria	Robert Weisz
Taipei, Taiwan, China	Ziang Tai Mercantile Company
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 Erzgesellschaft
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.
Haarlem, Netherlands	Chemische Productenhandel J. J. Van De Vrande
Auckland, C.I., New Zealand	Neill, Cropper & Company, Ltd.
Durban, South Africa	John Beith Pty. Limited
Buenos Aires, Argentina, S.A.	Will L. Smith, S.A.
Sao Paulo, Brazil, S.A.	Intertrade
Barranquilla, Colombia, S.A.	General Sales Corp. Ltda.

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MARKET CONDITIONS

General Business.

General business continues good. Official statistics show that personal income and industrial output among other indicators, showed good gains in December. Particularly encouraging was the jump in housing starts which were at the highest rate since early 1964. A great majority of manufacturers are expecting continued improvement in production and earnings for at least the first half of 1966. While automobile production is somewhat lower than that of early 1965, it is generally predicted that 1966 will be an even better year for car sales. The shortage of skilled manpower and of certain materials is becoming a serious problem in certain areas of manufacturing. In some metal-working plants machines are standing idle for lack of skilled operators, despite the use of crash-training programs. The supply of skilled graduates of conventional trade schools falls far short of the demand for such personnel. The export of copper products has been placed under strict Governmental control because of a world wide scarcity of that metal and its products. It is factors such as these which may act as a brake on economic growth from here on. The inflationary pressures caused by shortages can be very great and diversion of materials and manpower to war materials production accentuates this situation. Our most serious problems remain the war in Viet-nam and inflation and they are definitely linked together.

Asbestos—Raw Material.

Quebec asbestos fibre shipments for the Industry during December 1965 totalled 127,926 tons; 7,008 tons or approximately 5% lower than the same period last year. 1965 total shipments at 1,280,575 tons exceeded those of 1964 by 51,237 tons or 4%.

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Asbestos—Manufactured Goods.

Asbestos Textiles. The first quarter of 1966 appears as a period of continued growth and expansion for the manufacturers of asbestos textiles. If anticipated increases in Government purchases materialize, an added burden will be placed on manufacturing facilities which are already operating at a high level of production. The recent industry-wide price increases are now firmly established and will aid in offsetting the increase in costs sustained over the past two years. Overall, the industry is looking forward to the challenge of 1966 and if current trends are of any evidence, sales for the year will exceed those of 1965.

Asbestos Brake Lining. The present market for this material is good and demand is expected to be excellent during 1966.

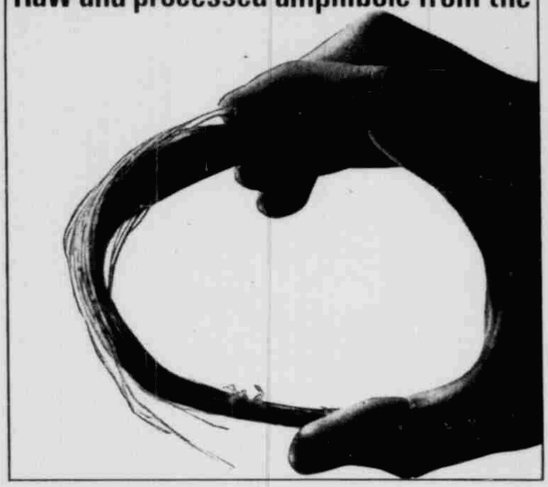
High Pressure Insulation. Volume of business remains very strong and this condition should continue in the coming months.

Asbestos Cement Shingles—Roofing & Siding. As a result of the late start of winter, foundations are still being laid and this favorable situation should guarantee a sizeable inventory of new starts to be roofed and sided. The pessimism felt during the latter part of 1965 concerning the number of housing starts has subsided after the December figures were published. If the trend continues, 1966 should be a good year for asbestos-cement (mineral fiber) products used in residential construction.

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

CIAP PAMPHLET—Cape Insulation and Asbestos Products Limited has introduced a new 12-page promotional pamphlet for the building industry (reference SfB kml). Clearly laid out by products, it gives brief details of description, application and standard sizes and forms. Each page is devoted to one product and referenced to the full data sheet applicable. Line drawings illustrating the method of application and detailed sketches showing typical locations in relation to the structure are provided for each product.

Raw and processed amphibole from the



world's leading producers

* Suppliers of the major part of the world's output of Amosite
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PRODUCTION

Canada—OCTOBER 1965 asbestos production amounted to 1[illegible],192 tons compared to 123,760 in October 1964. Total for the first ten months of 1965 was 1,068,882 compared to 1,097,329 for the same period in 1964. (Dominion Bureau of Statistics, Ottawa)

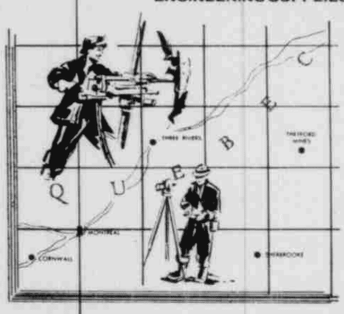
Canada's Mineral Production 1965—(annual preliminary estimate) Canada's mineral industry again, in 1965, exceeded its previous record by shipping products which were valued at over $3,737-million. This is shown in an estimate prepared by the Dominion Bureau of Statistics, Ottawa, Canada. In 1964 the value of minerals was $3,387-million. Over $310-million worth of non-metallic minerals were shipped in 1965, exceeding shipments in 1964 by 9%. Asbestos accounted for an estimated 1,380,210 tons, valued at $139,805,322, which is less than the 1964 record high of 1,419,851 tons, valued at $145,193,443.

Canadian Minerals Yearbook 1963 is a new designation for the annual volume formerly called The Canadian Mineral Industry. The content is essentially the same and consists principally of the reviews of individual minerals and metals which have already been issued as preprints. The reviews cover complete details of production, consumption, developments, trade and prices of the various minerals and metals for 1963. In addition, there is a general review of the mineral industry. (The 640-page volume is available from the Queen's Printer, Ottawa, Canada, or from Canadian Government bookshops—$5.00.)

Canada's Asbestos Products Manufacturers—1963, annual census of manufactures, has been issued as Catalogue No. 44-203 and copies can be obtained from the Dominion Bureau of Statistics, Industry Division, Ottawa, Canada (50¢ each).

Asbestos in 1965 (annual preliminary mineral industry survey)—California maintained its position as the leading domestic producer of asbestos, according to the Bureau of Mines, U.S. Department of the Interior. Production of asbestos increased 15% in quantity and 20% in value over 1964. Most of the increase in production came from California. World production is expected to exceed 3.5-million tons with Canada and the U.S.S.R. the largest producers. Canada continued to be the leading Free World producer, with an estimated output close to 1.3-million tons in 1965. Imports for consumption of all varieties of asbestos based on reports for the first ten months are estimated to be over 725,000 short tons. The greater part of the imports consists of chrysotile from Canada.

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IMPORTS & EXPORTS

Imports Into U.S.A.

(Figures by Bureau of the Census) — SEPTEMBER 1965

Unmanufactured Asbestos:	Short Tons
Amosite, Crude, Republic of South Africa	3,395
Crocidolite (Blue), Crude, Rep. of South Africa	2,832
Other Countries	27
Chrysotile, Crude, Canada	1
Zambia, Southern Rhodesia & Malawi	989
Other Countries	12
Chrysotile Spinning Fibers, Canada	1,486
Crysotile, Other, Canada	56,229
Republic of South Africa	36
Zambia, Southern Rhodesia & Malawi	1,152
Asbestos, Other, Canada	3,374
Finland	330
Republic of South Africa	10
United Kingdom	12
Other Countries	24
	69,909

Valued at—$6,762,757

Manufactured Asbestos Goods:	Pounds	Value
A-C Pipes, Tubes & Fittings	8,700,913	$455,430
Asbestos-Cement Articles, Other	1,154,125	141,930
Asbestos Yarn, Sliver, Rope, etc. & other		168,864
		$766,224

OCTOBER 1965

Unmanufactured Asbestos:	Short Tons
Amosite, Crude, Republic of South Africa	870
United Kingdom	105
Other Countries	50
Crocidolite (Blue), Crude, Rep. of South Africa	1,045
Chrysotile, Crude, Republic of South Africa	490
Chrysotile Spinning Fibers, Canada	1,232
Chrysotile, Other, Canada	54,926
Other Countries	10
Asbestos, Other, Canada	3,988
Finland	506



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Republic of South Africa	20
United Kingdom	12
	63,254

Valued at—$6,062,422

Manufactured Asbestos Goods:	Pounds	Value
A-C Pipes, Tubes & Fittings	5,276,036	$299,785
Asbestos-Cement Articles, Other	2,013,383	211,567
Asbestos Yarn, Sliver, Rope, etc. & other	..	227,005
		$738,357

Exports From U.S.A.

(Figures by Bureau of the Census) SEPTEMBER 1965

Unmanufactured Asbestos: Short Tons

Crude & Spinning		Non-Spinning Fibers		Waste & Refuse	
Italy	18	Canada	63	Belgium	33
Mexico	58	India	1,460	Canada	121
W. Germany	30	Japan	158	Japan	121
Other Ctys.	4	Korea	436	Korea	254
	110	U. Kingdom	5	Viet-nam	565
		Viet-nam	1,133	W. Germany	28
		W. Germany	40	Other Ctys	55
		Other Ctys.	26		1,177
			3,321		

Total Unmanufactured Asbestos—4,608 Valued at—$642,330

Manufactured Asbestos Goods:		Net Qty	Value
A-C Shingles & Clapboard	Lb	702,590	$ 75,910
Other A-C or Fiber-Cement Items	Lb	448,242	72,170
Gaskets & Packing	Lb	199,725	327,618
Textiles & Yarns	Lb	141,802	85,392
Mfrs other than Friction Materials	..	..	289,452
Clutch Facings incl Linings	No	130,146	135,626
Brake Linings	Lb	588,190	527,799
			$1,513,967

Correction—Exports From U.S.A. for the Year 1964 were reviewed on pages 28 and 30 of August 1965 ASBESTOS. The following corrections should be made to the "Waste & Refuse" figures on page 30: Mexico 100,103 should read 153 short tons; Netherlands 89,192 should read 1,244; total waste & refuse 201,210 should read 13,312; and, total unmanufactured asbestos 214,717 should read 26,819.

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Exports From Canada

(Published by Dominion Bureau of Statistics) SEPTEMBER 1965

Unmanufactured Asbestos:

	Crude	Milled (Short Tons)	Shorts (Short Tons)
United States	..	19,992	42,637
United Kingdom	..	5,925	6,602
South America	..	885	456
Central America & Mexico	..	3,097	849
Europe	2	34,047	16,538
Japan	..	2,133	3,113
Other Countries	..	4,479	1,707
	2	70,558	71,902

Total Unmanufactured Asbestos—142,462 Valued at—$17,514,307

Manufactured Asbestos Goods:

Asbestos Brake Linings & Facings	$ 59,870
Asbestos-Cement Building Materials	134,111
Asbestos Basic Products, Other	10,505
	$ 204,486

Mineral Facts and Problems—The U.S. Bureau of Mines' popular one-volume "encyclopedia of mineral resources", is now available in a new, updated 1965 edition. A comprehensive reference work covering 89 metals, nonmetals, and mineral fuels in individual commodity chapters, the new 1,118-page volume represents an extensive revision of the latest previous edition published in 1960. Unchanged, however, is the useful format which presents a discussion of each commodity under such headings as historical background, geology, mining practices, prices, uses, world trade, research, and outlook. Copies can be obtained only from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. The price is $6.75 per copy, and each of the 89 individual chapters can also be obtained as a separate preprint (Asbestos Chapter—10¢).

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INDUSTRY NEWS

HAPPY BIRTHDAY

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, President, Bell Asbestos Mines Ltd., Thetford Mines, Quebec, Canada, February 22.
Robert E. Cryor, President, Cape Asbestos (Canada) Limited, Toronto, Canada & North American Asbestos Corporation, Chicago, Illinois, February 23.
Dr. D. B. Wicker, Vice President—Research & Development, Huyck Felt Company, Rensselaer, New York, February 24.
R. D. Williams, Vice President, Lake Asbestos of Quebec Limited, New York City, 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, Director of Industry Relations, National Gypsum Company, Buffalo, New York, February 28.
J. L. Rainey, Vice President, American Asbestos Textile Corporation, Meredith, New Hampshire, March 1.
Gordon H. Gibbs, Mining Engineer, Willowdale, Ontario, Canada, March 3.
John H. Matthews, Director & Consultant, Manhattan Rubber Division, Raybestos-Manhattan, Inc., Passaic, New Jersey, March 3.
Kempton Dunn, Chairman & Chief Executive Officer, American Brake Shoe Company, New York City, 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 & Director, National Gypsum Company, Buffalo, New York, March 7.
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.
M. P. Carson, Vice President—Sales, Asbestos Corporation Limited, Thetford Mines, Quebec, Canada, March 10.

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Conrad L. Wiegers, President, Allied Services, Inc., Charleston, West Virginia, March 11.
Haydn S. Wood, Secretary, Philadelphia Asbestos Company, Philadelphia, Pennsylvania, March 11.
George R. Vila, President, Chief Executive Officer & Chairman, 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.

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

Holmes/Caposite—The shares in Caposite Insulations Limited, formerly owned by Cape Asbestos, have recently been acquired by Holmes Blunt Limited of Sarnia, Ontario, Canada. The now wholly-owned company will continue under the name "Holmes Insulations Limited." The head office and principal manufacturing facilities are at Sarnia, Ontario; an amosite pipe covering plant and warehouse is located at North Surrey, British Columbia.

NATIONAL ORGANIZATION

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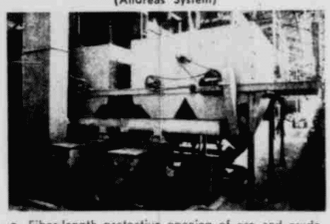
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Turners Asbestos Cement Co. Ltd. again achieved higher sales, but throughout 1965, profit margins were under pressure. In particular, higher sales were again recorded in the cases of "Turnall" ships board and insulation board, "Sindanyo" and "Siluminite" electrical insulation products, "Turnall" sewerage and drainage pipes and "Everite" pressure pipes. The heavy increase in the demand for pipes fully justified the decision taken last year to expand manufacturing capacity. Sales of asbestos felt, millboard and paper constituted a record and steps are being taken to enlarge the output of these products. (Turner & Newall 46th Annual Report)

Turners Asbestos Cement (Nigeria) Limited—Demand for all building products has steadily increased and production has been raised to meet it. The new pipe machine started production in March 1965 and its installation has been amply justified by the orders for pressure, sewerage and drainage pipes. (Turner & Newall 46th Annual Report)

Hindustan Ferodo Limited—The demand for brake linings, clutch facings, asbestos textiles and jointings exceeded the capacity to produce. As a substantial part of the output of friction materials is taken for use on State transport and on locally manufactured vehicles, growth in demand is likely to continue. New machinery is being installed and will be in production early in 1966. (Turner & Newall 46th Annual Report)

Bell Asbestos Mines Limited is operating its Thetford mine at programmed capacity. Detailed planning is in hand for the next stage of mine development, which involves sinking a new shaft and putting into effect an overall plan of operation for many years ahead. Bell Asbestos is responsible for the marketing of asbestos fibre in North America. (Turner & Newall 46th Annual Report)

GUMMI ASBEST KUNSTSTOFFE

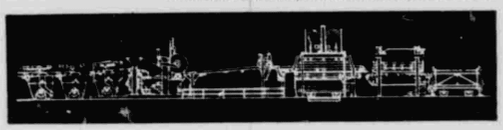
is the asbestos periodical in Europe which covers editorially in each issue the production, processing and application of asbestos. Therefore, it is read by all firms connected with the importing and processing of asbestos in 60 countries and is used for advertising by the asbestos mines all over the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

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Advocate Mines Limited is considering raising the production rate at its Newfoundland asbestos mine to 100,000 tons of fibre annually from a current capacity of about 60,000 tons. Details of the proposal are now being worked out by the mine staff and will probably be ready for submission to the board of directors next spring. (The Northern Miner)

Golden Gate—A 6,000-foot drill program is planned for an asbestos prospect near Haines Junction, Yukon Territory, recently acquired by Golden Gate Explorations. Recommendation of J. Sullivan, consulting engineer, is that twelve holes be put down, each to around 500 feet. During 1963, the property was under option to Consolidated Mining & Smelting.

The Clark Asbestos Company, Cleveland, Ohio, is building a new office and addition to its warehouse. A two-story building, the second floor will be the warehouse and the office will occupy the first floor. The company is demolishing the old office building, which is approximately a century old, and will make a parking lot in this area.

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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 Fibre)	176.00 to	296.00
Group No. 5 (Paper Fibre)	121.00 to	144.00
Group No. 6 (Waste, Stucco or Plaster)	.. to	88.00
Group No. 7 (Shorts & Floats)	40.50 to	75.00

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TURNERS ASBESTOS CEMENT CO. LTD.

J. E. Hutton, who has retired from the board of Turners Asbestos Cement, is succeeded as Sales Director by **J. K. Shepherd.** Mr. Shepherd is succeeded as Works Director by **A. H. Wailes.**

THE FLINTKOTE COMPANY

Harold F. Stepanek was elected a Vice President of Flintkote and will be in charge of the parent company's newly-created Cement Group. He will make his headquarters at Flintkote's executive offices in Radio City, New York.

THE FLINTKOTE COMPANY LIMITED

The Flintkote Company Limited, whose British factories are situated in Ellesmere Port and Clayton-le-Moors, announced the following changes to the Board of Directors: **H. E. F. Pracy** retired effective December 31st, 1965 and **Robert Taylor** has been appointed a Director as from January 1st, 1966. Mr. Taylor has been Manager of the company's overseas sales division and will continue to be identified with the export side of the company's business.

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NATIONAL GYPSUM COMPANY

Charles W. Millard, Jr., chairman of the board and chief executive officer of Manufacturers and Traders Trust Company, Buffalo, New York, has been appointed to the Board of Directors of National Gypsum. Mr. Millard is prominent in Western New York banking and has played an important role in furthering the industrial growth of the area.

UNITED STATES RUBBER COMPANY

John C. Edgar has been named District Sales Manager in Atlanta, Georgia, for the mechanical products division of U. S. Rubber. He succeeds **Homer P. Bond,** who has retired.

Albert L. McNomee has been named Director of Corporate Identity for U. S. Rubber. He will be responsible, on a world-wide basis, for the development and implementation of policies concerning Uniroyal, the company's new world-wide trademark, reviewing and approving its use in all visual communications.

JOHNS-MANVILLE CORPORATION

George H. Martens, Jr. has been elected Vice President for Marketing and a senior officer of Johns-Manville. He succeeds **R. F. Orth** in the marketing responsibility. Mr. Orth, who will reach normal retirement age at the end of 1966, continues in his positions as Senior Operating Vice President and General Manager of the Pipe Division. In his new position, Mr. Martens is responsible for plans, policy and procedures involving J-M's worldwide sales distribution network. He is also responsible for overall administration of the company's trade and government relations programs, economic and market analysis activities, advertising, sales promotion, and public relations efforts.

Richard A. Stapleton was elected a Vice President of the Johns-Manville Sales Corporation. He is Sales Manager, Distributor Products Sales Department of the J-M Industrial Insulations Division.

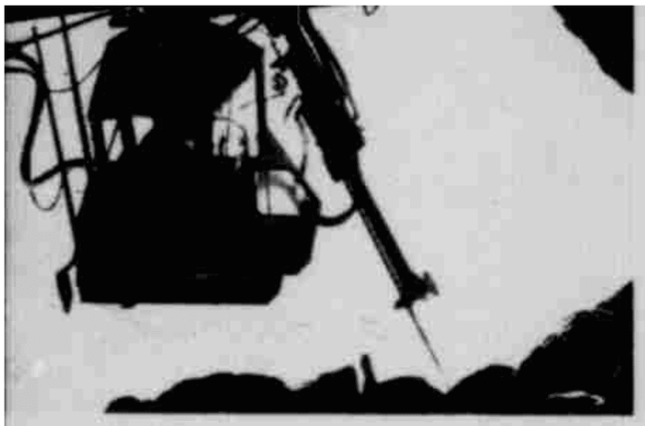
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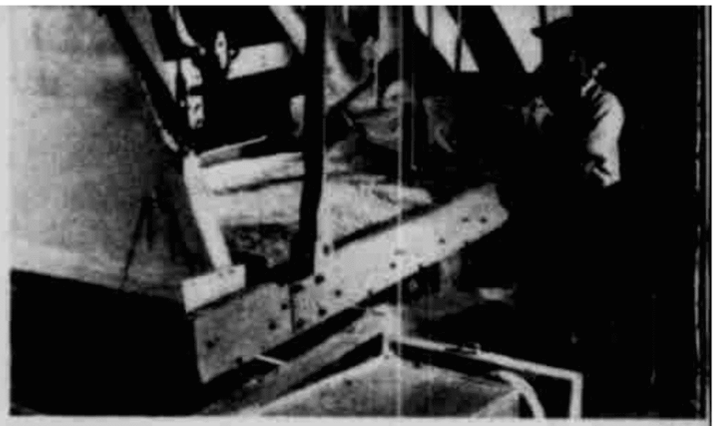
R/M Style	Navy Style	Weight/Sq. Yd.	Tensile (Lbs.) Warp	Filling
10P111	0	1.11 Lbs.	90	70
16P140	2	1.40 Lbs.	80	40
10P140	0	1.40 Lbs.	125	70
10P225	1	2.25 Lbs.	125	50

#10P111 has tensile superior to Navy style #2 with 57% cost saving, 21% weight reduction.
#10P140 tensile equals Navy style #1 with 47% lower cost, 38% weight reduction.
Write for complete details.
*C. G. Approval #164,009/84/0 7/9/65

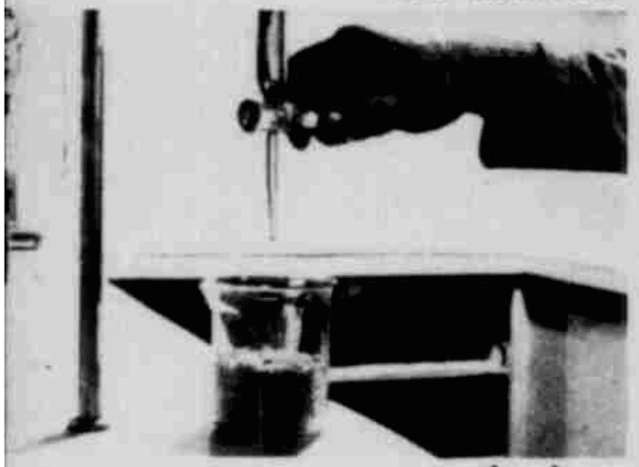
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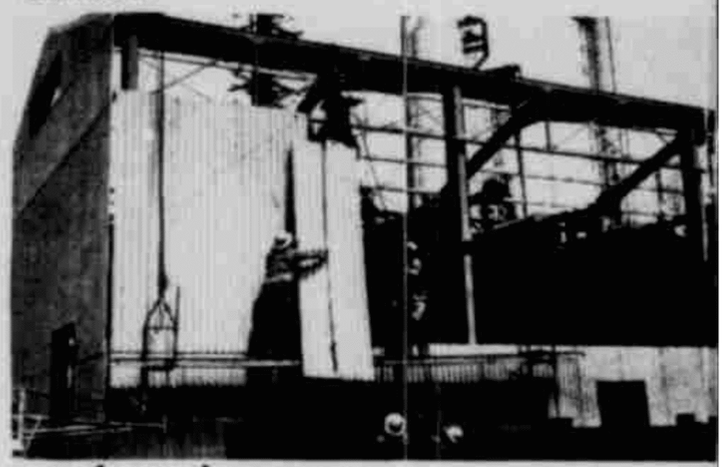
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