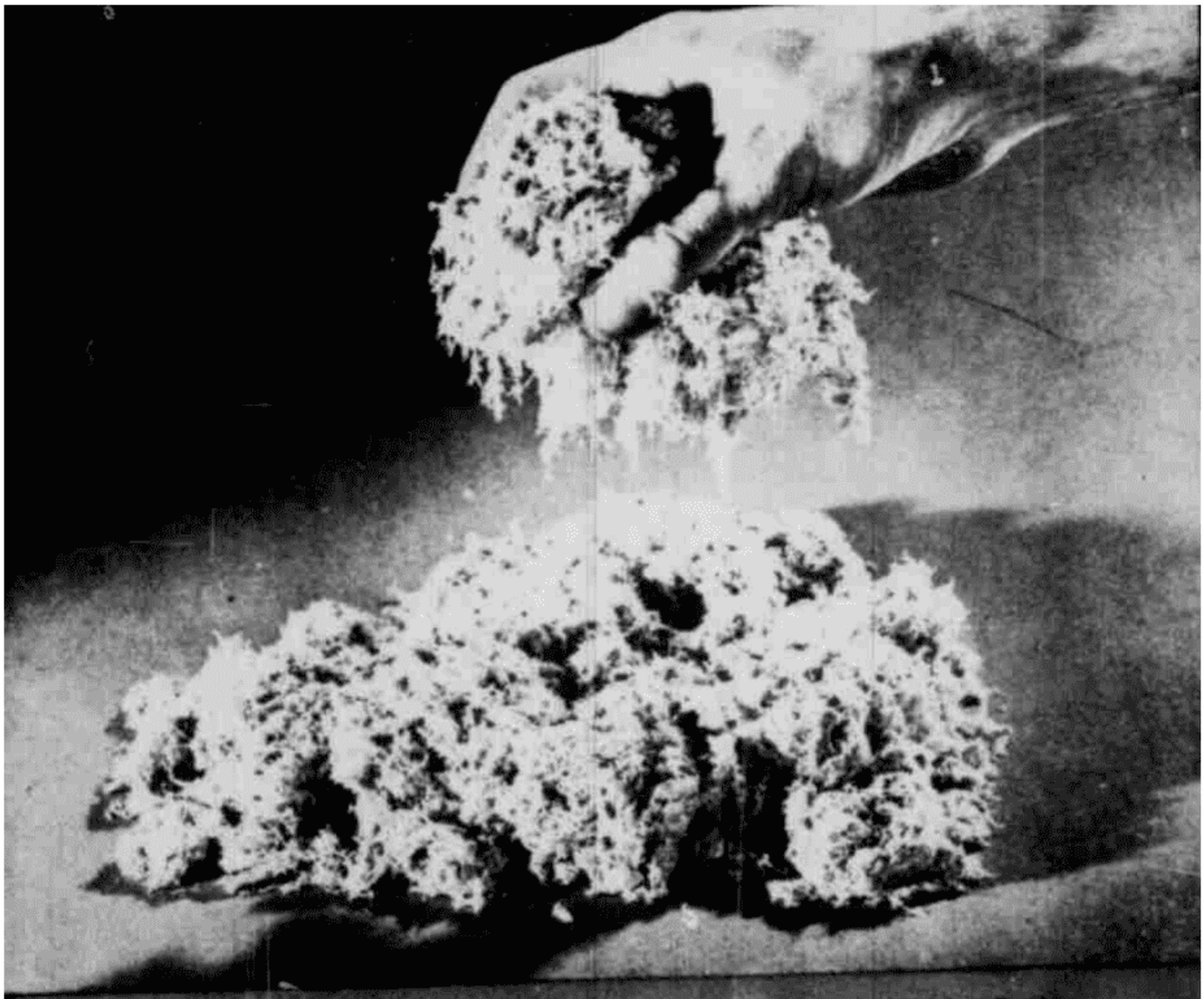


Canadian Milled Chrysotile Asbestos Fibre from the Thetford Mines District, Quebec

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SEPTEMBER 1966

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ASBESTOS

VOLUME 48 SEPTEMBER 1966 NUMBER 3

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BRITISH ASBESTOS INDUSTRY

Part 2A: Greater Use of Moulded Goods

By: C. Z. Carroll-Porczynski

(Part 2B will appear in the October 1966 issue of ASBESTOS).

(This is the second of four parts of the article "British Asbestos Industry" which has been written by Mr. C. Z. Carroll-Porczynski, a leading expert in the Asbestos Industry, for publication in ASBESTOS. The remaining two parts will appear in future issues.)

The asbestos-cement industry in Britain absorbs about half of the imported asbestos fibre, using a wide range of grades for its many products, and the demand for these materials is steadily growing. In addition to asbestos-cement roofing, wall cladding, partitions, tiles and asbestos-cement pipes for water mains, chimney flues and sewage applications, recent years have witnessed a great expansion in the use of asbestos-cement for moulded goods such as cold water cisterns, air extractors and ventilators, telephone terminal pillars and in the construction of high cooling tower fan stacks[1] and others.

The export of asbestos-cement goods from Britain is as follows: 1946 export of asbestos-cement sheets, slates, and so on, 39,442 tons valued at £689, 542 (U.S. $1,930,-717) (quoted from Annual Statement of Trade, 1946 — Board of Trade); 1964 export of asbestos-cement celluose fibres, cement, and so on, 57,938 tons valued at £2,003,420 (U.S. $5,609,576) (quoted from Trade and Navigation Account, 1964 — Board of Trade).

Although asbestos-cement pipes are facing competition in some fields of applications from pitch-fibre pipes and plastics pipes, asbestos is also finding use in these competitive materials as a reinforcing or a filling agent.

Composite Roofing and Lining Material

A promising use of asbestos as composite roofing material has been developed in Britain by H. H. Robertson Company (British Patent #677,996). In this process, a metal sheet is coated on either or both surfaces with a layer of a metal of low melting point (zinc, tin, lead), which serves as an adhesive to a thick asbestos paper or felt.

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Robertson Thain Company is marketing a similar material under the name Colour Galbestos. This material has been used in a number of power stations and other industrial works, and recently in the Dungeness nuclear power station as a lining material for buildings, reactors, and so on. It is produced by hot-galvanizing a steel sheet, applying asbestos felt on to a still soft zinc coating (on both sides) and pressing to effect a firm bond between the asbestos fibres and steel sheet. The layers of asbestos felt are then impregnated with bitumen and coated at a temperature of 150-170°C. with a film of a modified polyester resin containing coloured pigments. The plates have excellent corrosion-resistant properties. For heat insulation, they can be combined with glass-reinforced resin materials or asbestos boards.

In the same field two companies belonging to British Uralite group are in process of expanding their production of roofing materials. One of these, the Nuralite Company, is building a new factory at Livingston, near Edinburgh, for the manufacture of Nuralite flexible, weatherproof roofing, membranes, pre-formed flashings and other asbestos-bitumen building products, while Cellactite Limited is making a composite roofing material consisting of steel core with asbestos bitumen bonded sheet on both sides.

Another range of composite roofing material is being manufactured by the Ruberoid Company Limited. These include a bituminous asbestos based damp-proof course and roofing felts.

Composite panels 8 feet 9 inches by 5 feet wide (2.7m by 1.5m wide) constructed of glass reinforced polyester resin on a backing of fibrous asbestos, and bonded to Dexion slotted steel angle framework, were recently used in England in the first plastics house. This construction, known as Resiform House, was developed and put into production by William Old Limited.

Flooring Materials

Asbestos-vinyl floor tiles have found wide acceptance in Britain as a flooring material. The main producers of vinyl-asbestos floor tiles are Semtex Company, a subsidiary of the Dunlop Rubber Company, Marley Tile Company

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and Armstrong Cork Company. Ferodo Limited is producing non-slip stairtreads, which are extensively used by the building industry.

INSULATING MATERIALS

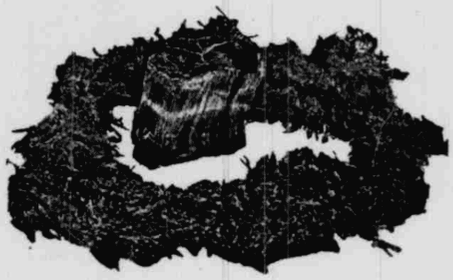
Sprayed Asbestos

The technique of spraying asbestos to produce coatings for heat and sound insulation, fire protection and the prevention of condensation was created in Britain in 1931 by J. W. Roberts Limited, who secured world-wide patents for their Sprayed Limpet Asbestos process. It has been continuously developed and improved with the result that it is now known throughout the world. The asbestos fibre and cement mixture is applied as an airborne stream with jets of atomized water, the resulting coating being then lightly pressed back with a float to the required thickness and density. It thereby provides coatings which are in intimate and continuous contact with the surface being treated, following all contours regardless of complexity and thus being extremely versatile.

Recent examples of Sprayed Limpet Asbestos applications include the New York State, the General Electric Company in U.S.A. and the General Motors Futurama buildings at the New York World's Fair and the fireproofing of the 52-story Prudential Centre tower in Boston, Massachusetts. It was also applied for insulation and sound deadening to the ceiling of the Olympic Judo Stadium, Tokyo. Additions within the last year to the many luxury liners insulated and fire protected by this process include the Italian ships, "Michelangelo" and "Raffaelo", the Home Lines "Oceanic" and the currently building Swedish America liner "Kungsholm". New applications continue to be developed, a recent instance being in mining.

The capillarity of asbestos fibres has been put to work with excellent results to control condensation in buildings such as swimming pools and on the steel shells of railway cars[2]. The roofs and sides of such structures are chilled by outside atmospheres and by radiation to clear skies. Their temperature is thus frequently lowered below the

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dew point of the inside atmosphere and condensation can result to a major extent. If Limpet asbestos is applied to the interior surface, the amount of condensation is greatly reduced and such water as is formed within the insulation is withdrawn by wicking action to the exposed surface and re-evaporated to atmosphere. Used in this way, Limpet also reduces to a minimum heat losses through the structure and lowers the noise level within by absorption of sound waves.

The worth of Limpet asbestos is appreciated in the current modernization program of British Rail where it is finding increasing use by designers of diesel, diesel-electric and electric locomotives[3]. In these and in railway carriages, Limpet Asbestos is frequently applied between double floors and on the underside of steel or light alloy flooring sheets where it has the added function of reducing the transmission of track noise.

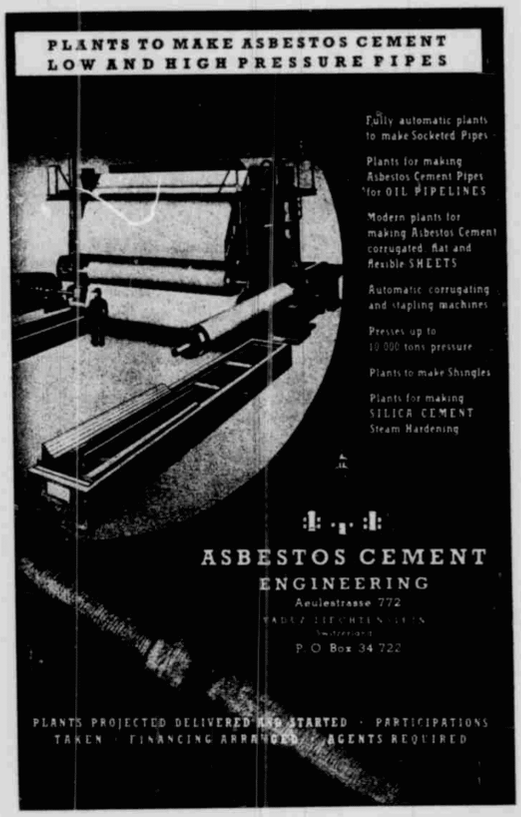
Limpet Asbestos is also extensively used for chemical and power plant. The perfect jointless fit to the insulated surface prevents convection losses. This, coupled with its low thermal conductivity and relatively high thermal capacity, makes it ideal for plant work. It has been adopted for the insulation of turbines all over the world and is now ordered by most leading turbine builders. Sprayed asbestos provides also protection against fire for road tankers which carry ethylene or propylene oxide[4].

In addition to the J. W. Roberts Limpet process, use is being made of Seel sprayed asbestos insulation available from Chancery Insulation Limited, a member of the Universal Manufacturing Company Limited. A similar Kenspray process, applied by William Kenyon and Son Thermal Insulating Company, uses mainly asbestos/mineral wool fibre blends.

PIPE INSULATION

Asbestos-Magnesia

Over 75 years, 85 per cent magnesia has attained a reputation as one of the most permanent practical conservers of heat for temperatures up to 600°F. (316°C.).



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In the form of fine-grained and light basic carbonate of magnesia, it is bonded with about 15 per cent of chrysotile and Amosite asbestos fibres and moulded into block or pipe insulation form.

These materials are finding use in the insulation of boilers, steam pipes, chemical and industrial plants and marine installations.

The principal manufacturers in Britain of this type of insulation are Newalls Insulation and Chemical Company Limited and Darlington Insulation Company Limited.

Calcium Silicate

In addition to asbestos-magnesia insulation, a range of calcium silicate-asbestos materials has been recently developed in Britain. This material is being made by Newalls Insulation and Chemical Company Limited, Cape Asbestos Company Limited, and Darlington Insulation Company Limited. The process for the production of these materials comprises adding solid silica to the initial mixture of dissolved silica and Portland cement, whereby the additive will react with the calcium silicate hydrate of the wet cake in a subsequent hydrothermal treatment. In a process recently patented by the Cape Asbestos Company Limited[5] a mixture of 100 pound (45 kg) water, 0.75 pound (340 grams) fiberized Amosite asbestos, 1.1 pound (499 grams) finely ground quartz, 2.7 pound (1224 grams) high-lime white Portland cement, and 1.9 pound (861 grams) of raw sodium silicate is heated to about 55°C. (131°F). The resulting thick slurry is moulded in a filler press; the shapes are autoclaved in saturated steam and then dried.

Moulded Asbestos Insulation—

Caposite And Caposil

Caposite preformed pipe sections and blocks developed by Cape Asbestos are made from pure Amosite asbestos, suitable for application to hot surfaces up to 1,000°F. (538°C.). For a higher range of temperatures Cape Asbestos is producing Caposil blocks for up to 1850°F. (1010°C.) and a range of insulations for steam pipe fittings — flange covers, moulded tees, bends and elbows.

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Asbestos Boards And Tiles

Both the Turner and Newall Group and Cape Asbestos are producing these materials on a large scale. IB.121 Turnall asbestos insulation board manufactured by Turners Asbestos Cement Company Limited and Asbestolux boards made by Cape Asbestos Company Limited are non-combustible insulation materials widely used by the building industry in the construction of suspended ceilings, curtain walls, partitions and stanchions to give fire protection and insulation. Inorganic and chemically inert, they resist acid, mould growth and termites, and withstand the effect of steam and moisture without sagging or warping. They can be drilled and sawn, painted or plastered.

IB.121 and Asbestolux boards with perforated surfaces are also used for acoustic purposes. Newalls Insulation and Chemical Company is manufacturing a fireproof asbestos acoustic board known as Paxboard. When fitted in offices and factories it provides not only a sound absorbing ceiling but also heat insulation.

Turners Asbestos Cement Company manufacture Turnall Asbestos LDR panels, which can be supplied faced with decorative veneers. The product, providing a high degree of fire resistance and sound insulation, is suitable for partitioning and external applications such as infill panels in curtain wall constructions.

Sindanyo asbestos and electric arc and heat resisting board has been developed for the electrical industry by Turners Asbestos Cement. Sindanyo boards withstand temperatures of up to 350°C. (662°F.), and are employed as constructional materials for laboratory furniture and equipment where high temperature operations are to be carried out.

Marinite asbestos shipsboard, manufactured by Marinite Limited, and Turnall asbestos shipsboard, product of Turners Asbestos Cement Company Limited, are materials developed for use in the shipbuilding industry. Marinite Company was formed jointly by Cape Asbestos and Johns-Manville Corporation of America in 1952.

Both products are pressed non-combustible sheets for all ships' joinery work including bulkheads, ceilings and

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linings in crew and passenger accommodation, and can be painted or veneered to suit any decoration scheme.

In addition, increasing industrial uses have been found for Turnall LDR panels and Marinite as materials for insulating ovens, kilns, dryers, lehrs, and ducting.

Asbestos Millboard And Paper

Asbestos millboard finds a variety of uses such as linings of stoves, garages, cinema projection rooms, electric switchboxes, refrigerators, dry-cleaning machines, garbage incinerators, hoods of cars, ceilings over boiler smoke stacks, plain and metallic gaskets, paddles in glass mills, stove pipe rings, the layers in metal-clad doors between the outside metal and the wood case, table pads and stove mats.

The main manufacturers of asbestos millboard in Britain are the Turner and Newall Group and Cape Asbestos Group of Companies. The latter, in addition to white asbestos millboard, is also producing pure blue asbestos board, finding numerous uses in the chemical industry.

Asbestos paper, manufactured by the Turner and Newall Group, is used extensively in the electrical industry and for the reinforcement of plastics. Also produced on a large scale by the same group is asbestos felt which, impregnated with bitumen, is suitable for roofing or as an insulation wrap for pipelines.

UNITED ASBESTOS CEMENT CO. LTD. of Malaysia (joint venture with Turner & Newall Ltd., James Hardie Asbestos Co. Pty. Ltd. (Australia), and the Eternit Group) will begin its building material operations this month with the production of light-weight corrugated roofing sheets. Other types of asbestos-cement sheets and moulded products will later be added to the range. A pipe division for the production of asbestos-cement pressure pipes suitable for water supplies, and conduit for underground electricity cables, is expected to come into production in December of this year. The management of the company is in the hands of James Hardie Asbestos Co. Pty. Ltd. Malaysian employees have been trained in Australia for executive and technical posts.

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W. E. Clark (1905-1966)

William E. Clark, former vice president and general manager of the textile division of United States Rubber Company, died Wednesday, August 10th, 1966, at Harkness Pavilion Hospital, New York. He was 61 years old and resided in Fort Lauderdale, Florida.

Mr. Clark started with U.S. Rubber in 1931 as a clerk at Stark Mills, Hogansville, Georgia. He organized and directed the textile division's industrial relations programs and held managerial positions in textile production before he was elected a vice president of the company and named general manager of the textile division in 1951. He retired from U.S. Rubber in December 1963 with 32 years of service. Since that time he did part time consulting work and was associated with Dr. George Gordon, Chief of The National Bureau of Standards, Textiles and Apparel Technology Center, as special advisor, in Washington, D. C.

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UNIVERSAL JOINTS—Sociedade Tecnica de Hidraulica, S.A.R.L., Lisboa, Portugal, have available a catalog describing the many advantages of their asbestos-cement (Cimianto) Universal joints. The catalog covers a summary description, mounting, dismounting and tools. According to the company, these joints are adopted in Portugal by all asbestos-cement pipe manufacturers.

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Automobile Sales

JUNE 1966 motor vehicle factory sales from plants in the United States totaled 985,896 (passenger cars—818,583; trucks and buses—167,307). The total for June 1965 was 1,058,576. The total for the first six months of 1966 was 5,855,412 compared to 6,029,327 for the same 1965 period.

United States motor vehicle imports for June 1966 were as follows: new passenger cars—80,772 valued at $99,812,420; used passenger cars—377 valued at $511,075; trucks and buses—4,816 valued at $9,499,590; and automotive parts—valued at $45,515,528. (Automobile Manufacturers Association)

ASBESTOS WITH PLASTICS AND RUBBER, by Hans Berger (translated from German by Ralph E. Oesper, Emeritus Professor of Analytical Chemistry, University of Cincinnati)—Although the use of asbestos for reinforcing plastics is well-known due to new developments within the past decade, this book will be of special importance to the asbestos and plastic industries. The text is divided into three parts: manufacturing under low pressure, under high pressure, and without pressure. The book contains many valuable tables of the properties of the finished products, a comprehensive summary, and patent literature ($7.50 per copy).

FRENCH INSTALLATION GUIDE—A new French language booklet designed for use by engineers and contractors working on Transite Ring-Tite water pipe projects has been produced by *Canadian Johns-Manville Company Limited*. The 128-page booklet gives compete instructions for the handling of the asbestos-cement pipe, trenching, assembly and coupling, cutting and machining, service connections, pressure and leakage tests, repairs, and bridge crossings as well as other facets of installation procedures. It also contains many drawings and charts to more clearly illustrate the procedures to be followed for proper installation of the pipe.

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GRADE D3 AMOSITE, longest of the Amosite asbestos gradings, is finding increasing textile usage in a variety of non-woven fabrics where high heat resistance is required. Amosite cannot be spun or woven in usual textile operations due to its high resilience and bulkiness. However, the long-fibre Amosite (2-6 inches) is well suited for creating low-cost and low-density non-woven felts and batts with carding or garnetting equipment. Using the garnetting process, non-woven fabrics of virtually 100% Amosite asbestos can be produced. Bonding, if any, can be with organic plastics or inorganic binders. Recent developments include low-cost non-woven fabrics of Amosite for protective liners under ironing board covers, for welding curtains, for use as fire-smother and fire protection blankets in industry, and even as underlay protection for upholstery fabrics where resistance to heat (stopping cigarette burn-through) is desired. *North American Asbestos Corporation* has a limited supply of non-woven Amosite asbestos fabric for those interested in seeing a swatch of the material.

PACKAGING—According to North American Asbestos Corporation, a new type of paper-lined burlap bag for shipping both Amosite and Crocidolite (Blue) Asbestos has been successfully tested on shipments between the mines in South Africa and the United Kingdom. The new, impervious package enables cleaner shipments by eliminating dust which occasionally occurs with fibres packed in ordinary burlap bags. Test shipments of the new bags from Africa to the United States began arriving last month.

SEAWAY CLOSING—North American Asbestos Corporation advises it is not too early to remind its Canadian and Midwestern customers that ice will be closing the St. Lawrence Seaway about November 30th. The last scheduled sailing of the Kerr Line to Montreal will be the ship Thorsdrake, which will load Amosite and Blue asbestos fibre at East African Ports in October and arrive at Montreal about November 20th, 1966.

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R/M PYROTEX FELT—Physical properties of Raybestos-Manhattan's Pyrotex Felt No. 9394 are listed in a new specification chart available to design engineers and product planners. The chart includes pertinent design data, such as tensile, flexural, shear and impact strengths, water absorption, dielectric properties and thermal conductivity. Pyrotex, manufactured by R/M in felt form and finished-processed by independent laminators, is impregnated with a phenolic resin system and laminated for use as a structural and thermal insulator where temperatures range as high as 700°F.

J-M VINYLCRAFT—Johns-Manville Corporation has introduced a new and luxurious Vinylcraft flooring line with Vinyl Brick, a richly embossed *vinyl-asbestos* floor tile. An outstanding characteristic of Vinylcraft flooring is that all the tiles are identical in design and the border on all sides of the tiles is of uniform width and depth. Because of this, the tiles may be installed in any direction. Vinyl Brick comes in a 12" x 12" size and in a 1/8" thickness. It is available in white or red with grouting in a complementary shade. The new tile is intended for use above, on or below grade. It is available everywhere but on the West Coast and is expected to be in production in the West in early 1967.

GLASAL—A publication has been issued by Cape Building Products Limited dealing with Glasal, a new autoclaved asbestos sheet material. It gives basic technical details and includes full color reproductions of contracts for Glasal throughout the world. A feature of the publication is the accuracy with which the color range is reproduced. This has been achieved by producing separately printed color "chips" which are practically identical to the actual colors of Glasal. This process is common to paint manufacturers but has rarely been used to illustrate building materials.



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MARKET CONDITIONS

General Business.

While business continues good, there are some rather definite signs of a leveling off in the rate of growth. The impact of the Vietnam operations on the overall level of business activity is more marked now than previously. This seems to be more than making up for a slight decline in several major consumer goods industries and is also contributing to the continuing high demand for capital goods and a high rate of activity on the part of makers of such goods. Interest rates continue to rise and there is no indication that money will "loosen up" unless the Government should arbitrarily set ceilings on rates of interest on certain types of loans. The stock market has suffered substantial losses since early this year despite continuing good, to record, earnings on the part of many large corporations. Despite Administration statements regarding the healthy state of the economy, there exists, at the moment, a general state of uncertainty as to the immediate and longer term trend of the economy.

Asbestos—Raw Material.

Quebec asbestos fibre shipments for the Industry during July 1966 totaled 108,989 tons, an increase of 12,368 tons or approximately 13% over the same period last year.

Year to date shipments at 713,194 tons exceed 1965 shipments by 106,712 tons or approximately 15%.

Asbestos—Manufactured Goods.

Asbestos Textiles. Manufacturers continue to operate at peak capacity, and although delivery dates are still extended, good progress is being made in meeting customer requirements. Since the demand remains brisk, it now appears that the year 1966 will set a new sales record.



Asbestos Brake Lining. The market situation at the present time for this material is excellent and should be good for the rest of the year.

Asbestos-Cement Pipes. There is a definite decrease in the amount of water and sewer projects which appears traceable to a lack of funds. Advance planning declines indicate that the balance of this year will see a low demand for asbestos-cement pipes that could easily carry over into the first quarter of 1967.

Asbestos Filter Fiber. The market for Arizona filter fiber is steady with some indication of an increase in the use of specialty grades. A good market for all grades is anticipated for the rest of the year.

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

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Building

JULY 1966—A sharp decline in housing activity was offset by continued gains in most types of nonresidential construction. These opposing trends left the July total of construction contract value at $4,773,598,000, virtually unchanged from a year ago. While extreme scarcity of mortgage money has driven home builders to their lowest rate of operation in more than five years, most contractors doing nonresidential work are feeling the pinch of another kind of scarcity — that of skilled labor.

Nonbuilding construction contracts reached a new record of $1,499,365,000. Several big projects were prominent in the July tally of nonbuilding construction work, helping to bring the month's total 30% over the year-ago amount. Street, highway and bridge contracts remained very strong.

Residential contract value was $1,460,926,000 and represented a decline of 25%. Both single-family housing and apartment contracts tumbled.

Nonresidential building contracts totaled $1,813,307,000, a 7% gain over last July. Manufacturing building contracts led the advance in this category with a 30% increase. Commercial building — with stores moderately ahead, and offices down slightly — offered only a small gain for July. Hospitals advanced solidly with a 28% increase and educational building contracts ran 4% ahead. Contracts for public buildings were down sharply.

FIRST SEVEN MONTHS 1966: Nonbuilding construction $7,785,425,000 up 16%. Residential building $12,024,845,000 down 5%; Nonresidential building $11,625,927,000 up 15%—total construction $31,435,197,000 up 7%. (F. W. Dodge Company, a division of McGraw-Hill, Inc.)

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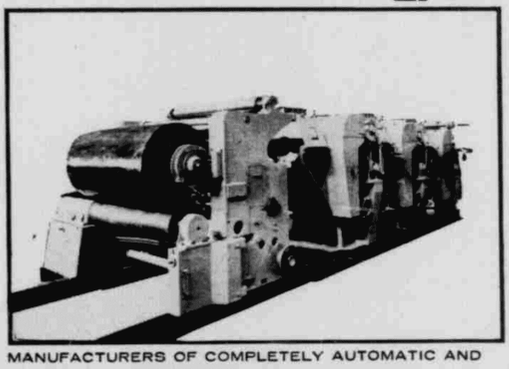
Warehouse stock located at:

Baltimore, Md.	A. B. Kohl Sales Company
Brooklyn, N.Y.	Empire Ace Insulation Mfg. Company
Brooklyn, N.Y.	Smith Chemical & Color Company
Buffalo, N.Y.	Commercial Chemicals, Inc.
Chicago, Ill.	Chicago Firebrick Company
Cleveland, Ohio	Donald McKay Smith, Inc.
Dallas, Texas	Thompson-Hayward Chemical Company
Davenport, Iowa	Thompson-Hayward Chemical Company
Des Moines, Iowa	Thompson-Hayward Chemical Company
Detroit, Mich.	A. E. Fleming Company
Garwood, N.J.	Asbestos Corporation of America
Houston, Texas	Thompson-Hayward Chemical Company
Indianapolis, Ind.	Thompson-Hayward Chemical Company
Kansas City, Mo.	Thompson-Hayward Chemical Company
Knoxville, Tenn.	A. G. Heins Company
Little Rock, Ark.	Thompson-Hayward Chemical Company
Los Angeles, Calif.	E. S. Browning Company
Memphis, Tenn.	Thompson-Hayward Chemical Company
Milwaukee, Wisc.	Sprinkmann & Sons
Minneapolis, Minn.	Thompson-Hayward Chemical Company
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Oklahoma City, Okla.	Thompson-Hayward Chemical Company
Philadelphia, Pa.	George A. Rowley & Company, Inc.
Pittsburgh, Pa.	McCann-Shields Paint Company
St. Louis, Mo.	Thompson-Hayward Chemical Company
San Francisco, Calif.	E. S. Browning Company
Seattle, Wash.	Durkin Chemicals, Inc.
Trenton, N.J.	H. M. Royal, Inc.
Winchester, Mass.	W. D. Egleston Company, Inc.

ASP/HAC//9

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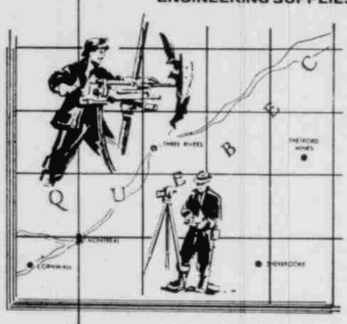




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PRODUCTION

Canada—MAY 1966 asbestos production amounted to 93,343 tons compared to 113,588 in May 1965. Total for the first five months of 1966 is 525,503 tons compared to 443,100 for the same period in 1965. (Dominion Bureau of Statistics, Ottawa)

Cyprus—SECOND QUARTER 1966 production of asbestos amounted to 7,055 short tons: April—1,975; May—2,419; and, June—2,661. (Ministry of Commerce and Industry, Mines Department, Nicosia)

Abitibi Asbestos Mining Company Limited—At last report, the first hole to be put down by Abitibi at its Maizerets Township property in Northwestern Quebec, Canada, was at 330 feet. Asbestos fibre was stated to be present in 220 feet of core.

Dunlop Semtex Limited, London, England, is expanding its interest in Europe and has now acquired a 50% holding in **Domosic,** manufacturers of thermoplastic and vinyl asbestos floor tiles in Italy. Domosic, who has operated under a manufacturing "know-how" license from Dunlop Semtex for a number of years, is a subsidiary of the Mazzucchelli Celluloide Company of Varese, Milan.

Scapa Dryers Limited, Blackburn, England, manufacturers of all types of felt for paper, board, and asbestos-cement machines, have announced that effective August 25th, 1966, their London office at Villiers House, Strand, will be closed and their Southern office will open at Tubs Hill House, Tubs Hill, Sevenoaks, Kent. There is no change in the staffing of the office and **R. W. Goodall** continues in charge.

Senegal, French West Africa—President Senghor, attending official dedication ceremonies at the SEN-AC asbestos-cement plant in April 1966 expressed his gratitude to France, the United Kingdom, Belgium, Switzerland, Canada, and the United States for their investments in the project. This 12,000 metric ton per year plant, 26 miles from Dakar, produces asbestos sheets for roofing, walls, and water pipes. According to the director of the Central Bank of West African States, the Senegalese market absorbs only 5,000 tons a year and additional outlets must be found elsewhere—in Mali, Guinea, or Mauritania, for example—if the venture is to succeed. The asbestos utilized by SEN-AC comes from the U.S.S.R., Canada, and Italy. There also are important mines in South Africa and the United States. It was noted that cement is supplied by the Rufisque plant in Senegal.

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IMPORTS & EXPORTS

Imports Into U.S.A.

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

Unmanufactured Asbestos:	MAY 1966	JUNE 1966
Amosite, Crude, South Africa	1,837	2,185
Crocidolite (Blue), Crude, South Africa	4,033	2,575
Chrysotile, Crude, Canada	10	..
Mozambique	202	..
South Africa	85	175
Yugoslavia	..	1,102
Chrysotile Spinning Fibers, Canada	1,530	1,427
Chrysotile, Other, Canada	50,975	57,117
South Africa	420	470
United Kingdom	..	20
Asbestos, Other, Canada	2,599	3,087
Finland	242	95
	61,933	68,253

May 1966 valued at $6,408,147
June 1966 valued at $7,075,334

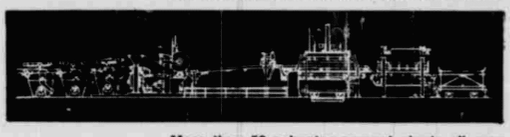
Manufactured Asbestos Goods:		MAY 1966	
Asbestos Yarn, Slivers, etc.	Lb	116,643	$ 88,556
A-C Pipes, Tubes & Fittings	Lb	4,438,115	207,953
Asbestos-Cement Articles, Other	Lb	1,343,075	183,190
Asbestos Articles, Other		..	94,197
			$573,896

		JUNE 1966	
Asbestos Yarn, Slivers, etc.	Lb	212,405	$125,204
A-C Pipes, Tubes & Fittings	Lb	6,716,954	315,126
Asbestos-Cement Articles, Other	Lb	1,372,338	162,084
Asbestos Articles, Other		..	106,673
			$709,087

Cyprus Exports—SECOND QUARTER 1966 exports of asbestos totaled 4,658 tons, valued at £211,148: April—613, £27,825; May—1,008, £41,515; and, June—3,037, £141,808. (Ministry of Commerce and Industry, Mines Department, Nicosia)

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Exports From U.S.A.

(Figures from U.S. Department of Commerce)			MAY 1966
Unmanufactured Asbestos:			
Crudes & Spinning Fiber	s.tons	189	$ 40,287
Non-Spinning Fiber	s.tons	2,753	390,976
Waste & Refuse	s.tons	1,973	161,417
		4,915	$ 592,680
Manufactured Asbestos Goods:			
A-C Shingles & Clapboard	Lb	1,590,762	$ 147,937
Other A-C Articles	Lb	1,026,160	137,414
Gaskets & Packing	Lb	737,870	521,086
Textiles & Yarns	Lb	155,848	116,906
Mfrs other than Friction Materials		..	521,224
Clutch Facings	No	160,921	149,080
Brake Linings	Lb	513,022	353,333
			$1,946,980

Canadian Mines Handbook 1966-1967—Canada's mining industry is booming ahead as never before. Favorable prices and heavy world demand are pacing expansion of existing productive outlets, development of new mines, and establishment of whole new mining complexes. This, in turn, has stimulated a new upsurge in exploration activity. These new developments and other activities may be gleaned from the information on the individual mining companies as presented in this handbook. The new edition lists thousands of active companies, both large and small. Special sections comprise metal mines classified, producing mines—summary, range of mining share prices, and a 29-page section of colored maps covering major producing areas in Canada. Canadian Mines Handbook is available from the Northern Miner Press Limited—420 pages—$5.00 per copy for paper binding and $6.00 for deluxe binding.

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INDUSTRY NEWS

HAPPY BIRTHDAY

R. J. Berry, Vice President, Standard Asbestos Manufacturing Company of Cleveland, Cleveland, Ohio, September 15.
Elliott A. Gordon, Jr., Assistant to Vice President, Floor Tile Division, The Ruberoid Co., New York City, September 15.
W. John Scotford, Technical Director, Wunderlich Limited, Sydney, N.S.W., Australia, September 15.
Jack L. Neal, President, Metate Asbestos Corporation Globe, Arizona, September 16.
Albert Strodtbeck, Secretary, The Clark Asbestos Company, Cleveland, Ohio, September 17.
Walter F. Marcuse, President, Canadian Asbestos Company, St. Laurent, Montreal, Canada, September 18.
John Despard Christian, President & General Manager, Cassiar Asbestos Corporation, Ltd., Toronto, Canada, September 19.
W. W. Oughtred, Executive Vice President, Asbestos Corporation Limited, Thetford Mines, Quebec, Canada, September 19.
S. Ralph Zimmerman, Jr., Executive Vice President, Raybestos-Manhattan, Inc., Manheim, Pennsylvania, September 19.
William R. Whitener, Sales Manager, Pacific Asbestos Corporation, San Francisco, California, September 20.
Philip M. Malouf, President, United Asbestos Corporation Limited, Toronto, Canada, September 21.
Paul R. Sussman, President, The Sussman Asbestos Company, Toledo, Ohio, September 21.
Victor J. Laskoski, Manager, Asbestos Fibre Sales, The Ruberoid Co., New York City, September 22.
Jay P. Nicely, Vice President-Sales, National Gypsum Company, Buffalo, New York, September 22.
Jack B. Stiles, Works Manager, Wunderlich Limited, Rosehill, N.S.W., Australia, September 24.
Win Brown, Vice President, MacArthur Company, St. Paul, Minnesota, September 25.
W. S. Jeffrey, General Manager, Australian Asbestos Pty. Limited, Marrickville, N.S.W., Australia, September 26.
D. W. Jaquays, President, Jaquays Mining Corporation, Phoenix, Arizona, September 27.
John W. Humphrey, President, The Philip Carey Manufacturing Company, Cincinnati, Ohio, September 28.
Sir William C. Fenton, Chairman, British Belting & Asbestos Limited, Cleckheaton, Yorkshire, England, September 29.
George Courtauld, Director, The Cape Asbestos Company Limited, London, England, October 2.
Patrick Talbot-Smith, Managing Director, Universal Asbestos Mfg. Co. Ltd., Tolpits, Watford, Herts., England, October 2.

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Donald A. Bain, Sales Manager, Asbestos Erectors of Canada Limited, Montreal, Canada, October 3.
R. A. Denovan, President, Denovan Limited, Dalkeith, Ontario, Canada, October 4.
Robert E. Skinner, Works Manager, Wunderlich Limited, Melbourne, Victoria, Australia, October 5.
Robert S. Beck, District Manager, Roofing Granule Division, The Ruberoid Co., New York City, October 6.
John W. Brown, Senior Vice President for Sales, National Gypsum Company, Buffalo, New York, October 7.
J. S. Munro, President, Raybestos-Manhattan (Canada) Limited, Peterborough, Ontario, Canada, October 7.
David L. Neil, Vice President-Manufacturing, The Ruberoid Co., New York City, October 11.
A. L. Penhale, President & Managing Director, Asbestos Corporation Ltd., Thetford Mines, Quebec, Canada, October 11.
H. R. Barrett, Executive Vice President, The Philip Carey Manufacturing Company, Cincinnati, Ohio, October 13.
Gordon G. Hazell, Manager, Technical Sales & Field Engineering, The Ruberoid Co., New York City, October 13.

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

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Construction very simple but strong. Performance very easy and regular. Maintenance very cheap. Labour reduced to the minimum. The working is completely automatic in treating and mixing raw materials, in the making of pipes, in curing finishing and testing operations.
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SIX-MONTH REPORTS

ADVOCATE MINES LIMITED reported net income of $1,473,400 for the first half of 1966, more than double of that for the corresponding period of 1965. Ore crushed amounted to 928,168 tons, 32,694 tons of fiber were produced, recovery was 3.52% and fibre shipped amounted to 13,555 tons.

ASBESTOS CORPORATION LIMITED net income for the six months ending June 30, 1966, was $1,588,725, up 77% from $896,250 for the first half of 1965. Sales of asbestos fiber were about 26% higher this year than last, in spite of long-shoremen strikes at St. Lawrence ports. A substantial balance of unshipped orders remain outstanding. The company is arranging to borrow $35-million for general corporate purposes.

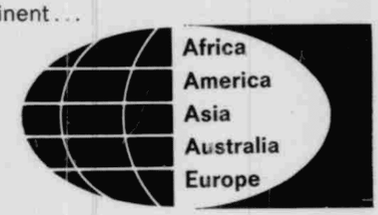
PHILIP CAREY—Net earnings of The Philip Carey Manufacturing Company and subsidiaries for the first six months of 1966 were $1,240,283, compared with $867,499 for the same period of 1965. Sales amounted to $38,600,442, compared with $33,900,-951, an increase of 13.9%.

CASSIAR ASBESTOS CORPORATION LIMITED—Fibre sales for the first six months of this year are following the normal pattern and operations at the Cassiar Mine are proceeding as anticipated. The construction of the new plant at the Clinton Mine is on schedule. Most of the foundation work has been completed and the erection of the Mill and Service Buildings has commenced. Sales of asbestos fiber for the first half of the year were $9,156,240 compared with $8,085,300 for the same period in 1965. Net profit amounted to $1,902,421 against $1,648,535.

NATIONAL GYPSUM COMPANY reported sales for the first six months of 1966 at $123,454,224 and net income of $8,732,615. This compares with sales and net income of $120,684,234 and $8,812,115, respectively, for the first half of 1965.

Regional Mineral Industry Review of Latin America, by Sumner M. Anderson (preprint from U.S. Bureau of Mines Minerals Yearbook 1964, 10¢)—The approximate production of asbestos in South America during 1964 totaled 1,931 metric tons compared to 1,648 in 1963. The principal producing countries were Brazil, Argentina and Bolivia.

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ASBESTOS STOCK QUOTATIONS

Close—August 31, 1966

Advocate Mines Ltd.	$ 4.00*	Flintkote (Pfd-A)	73½
Asarco	55⅝	Johns-Manville	48
Asbestos Corp.	$21.50*	Nat. Gypsum (Com)	29⅝
Philip Carey	32¾	Raybestos-Manhattan	53
Cassiar Asbestos	$14.87*	Ruberoid	39¼
Certain-teed (Com)	13⅛	Seagrave	17¾
Certain-teed (Pfd)	14⅜	U.S. Rubber (Com)	38¼
Flintkote (Com)	16	U.S. Rubber (Pfd)	135

*Canadian currency

The Mineral Industry of Finland, by S. L. Klinger (preprint from U.S. Bureau of Mines Minerals Yearbook 1964, (10¢)—Production of asbestos in 1964 amounted to 10,533 metric tons compared to 9,254 in 1963. 7,554 metric tons were exported against 5,744 in 1963 and 6,755 metric tons were imported in 1964 compared to 6,088 in 1963.

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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 & Short	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	444.00
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,
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- Opening of pressed asbestos.

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ASBESTOS CORPORATION LIMITED

Dr. P. H. Riordon has been appointed Vice President—Operations of Asbestos Corporation effective August 1st, 1966. He replaces **C. H. McNaughton** who has retired from the company.

JOHNS-MANVILLE CORPORATION

John A. Vermeulen has been appointed Production Manager for J-M's Building Products Division. He was formerly Vice President and Director of Engineering at the company's Research and Engineering Center, Finderne, New Jersey.

Jack E. Hesse has been appointed Production Manager of J-M's Pipe Division and elected a Vice President of Johns-Manville Products Corporation. He was formerly manager of the company's Green Cove Springs, Florida, plant.

Antone B. Perrone has been appointed Staff Engineer on the Headquarters Staff of J-M's Pipe Division Water Pipe Group. He was previously employed as a Civil Engineer in the Tax Department of the City of New York working on assessment of utility properties.

JAMES united steel limited

HALL MACHINERY DIVISION

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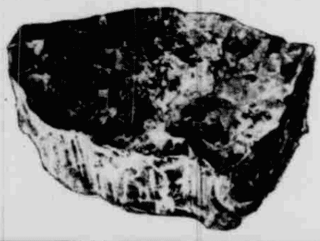
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ASBESTOS PATENTS

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 July 12th through August 9th, 1966.

3,262,165—Heat-Insulating Compositions and Their Use, A. J. Ingham (assigned to Sandvikens Jernverks AB., Sandviken, Sweden), July 26, 1966. In the production of a low-cost, low-density material suitable for use in insulating the head metal during the production of castings and ingots in foundries, the batch consists preferably of 70-90 parts by weight of granulated grog, crushed blast-furnace slag, alumina, fly ash, silica sand or other granular refractory material, 5-20 parts of granulated or powdered cork, up to 5 parts of asbestos fibre, slag wool, rock wool, fibre glass, or other inorganic fibrous refractory material, and 4-10 parts of a binder, such as clay or urea-formaldehyde resin. This composition may advantageously be formed into a shape adapted for surrounding the head metal. This material is also useful as an insulating backing for exothermic materials of either the reducing agent/oxidizing type or the carbonaceous type.

3,262,800—Asphaltic Paint Composition, E. Baxter, July 26, 1966. A smooth-flowing, quick-drying road-marking paint having excellent adhesion and flexibility characteristics comprises at least 50% by weight of a conventional paint base, 6-25% of a lead pigment, 1-10% of silica powder, 3-10% of shellac, 1-5% of an asphalt thinner, 0-5% of zinc oxide, and 1-5% of any one of the following mixtures: asbestos fibres, asphaltum and naphtha; gilsonite and blown asphaltum; and, rosin, gilsonite and naphtha. When applied to asphalt, coal-tar, or concrete pavement surfaces, this paint exhibits good wear quality and high repellency to water and grease.

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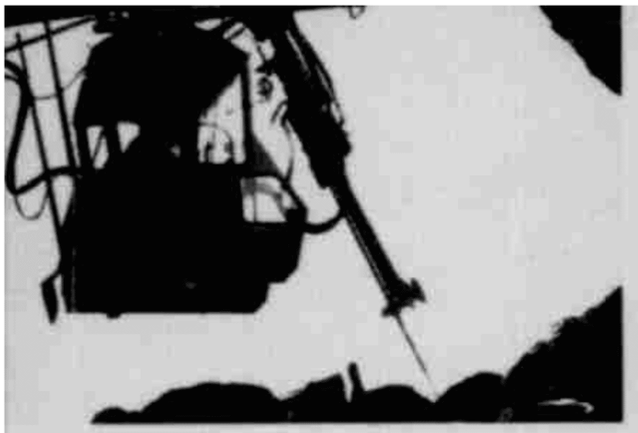
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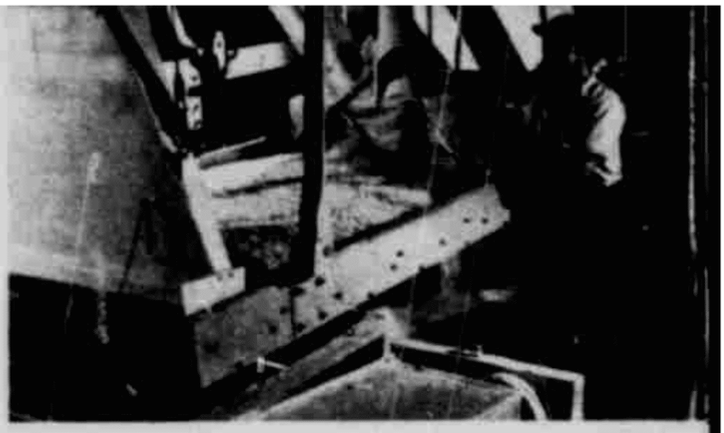
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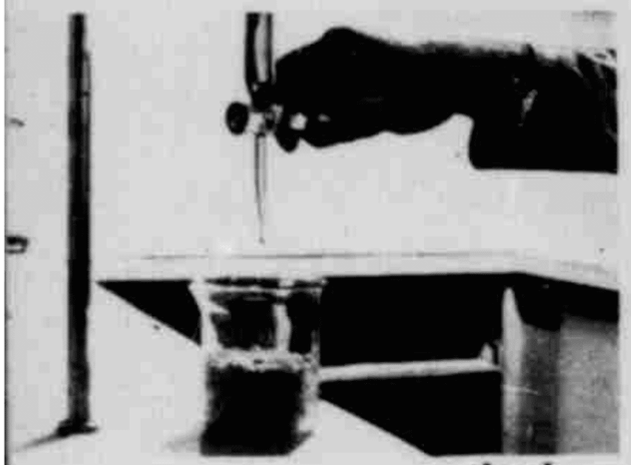
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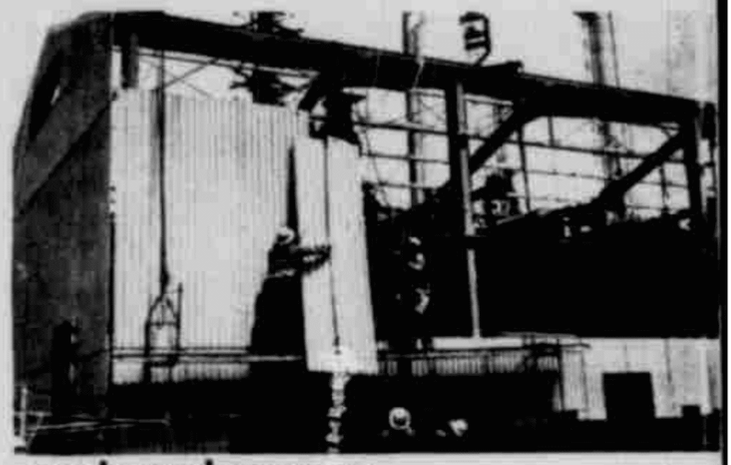
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