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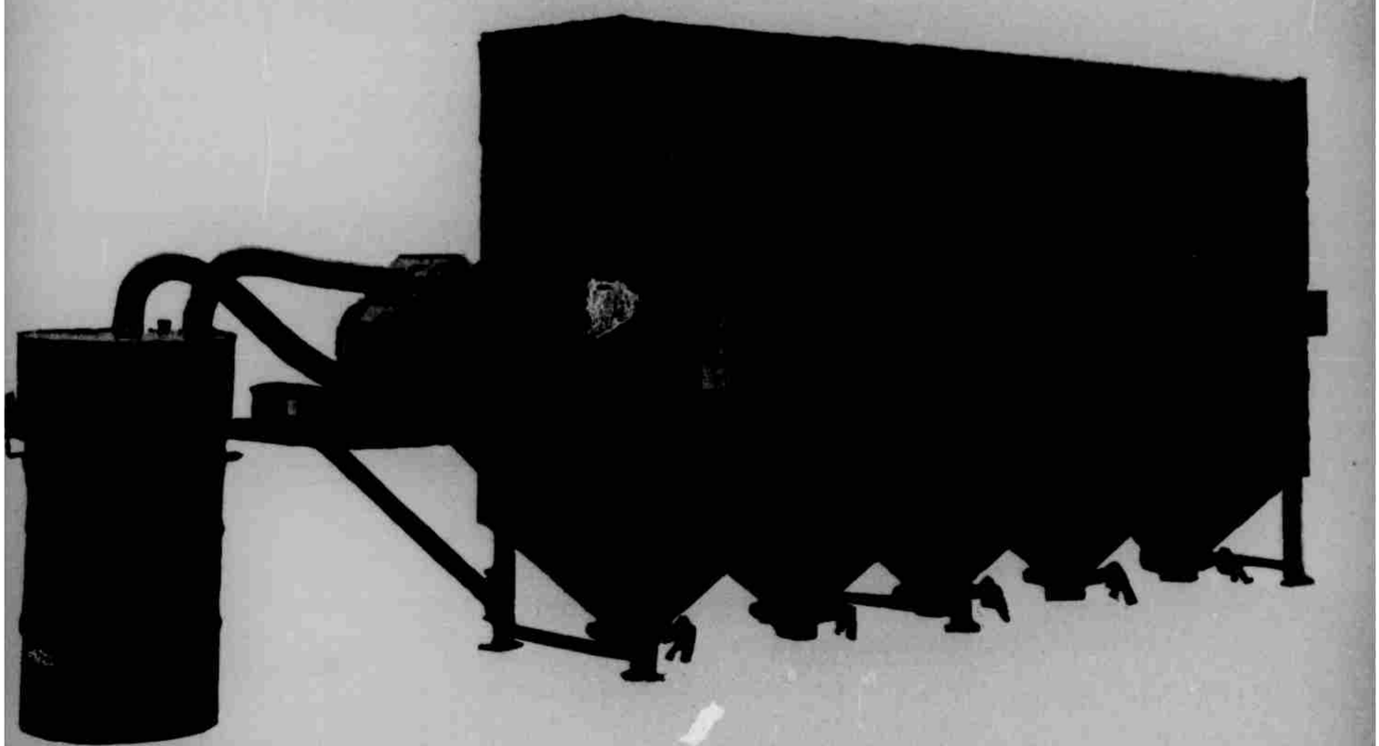
June 1980

ASBESTOS

Devoted to the International Asbestos Industry

—FEATURING—

KERMATROL DUST COLLECTORS



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We're helping industry appreciate the "locked in" benefits of asbestos with ads like this one.

We want our customers to continue taking advantage of the unique properties of asbestos. Too often, their ability to do so is hindered by decisions based on emotion rather than factual information. So we're calmly and repeatedly explaining the facts about asbestos-containing products in a series of full page, four-color ads, appearing regularly in the industrial edition of *Business Week*.

The advertising program is designed to let industry management know that in an extensive range of finished products, such as asbestos/cement sheets and pipe, gasketing materials, asphalt-based coatings, latex and resin-bound papers, and friction materials, the asbestos is "locked in" by various binders to form environmentally safe materials. And once "locked in," the release of asbestos into the environment will not be significant during normal product use.

Our investment in advertising is not nearly as large as that directed toward developing safer ways to ship, handle, and use asbestos. But in many ways, it's equally important. We think it's part of our job as the world's leading producer of asbestos. And part of our continuing commitment to the future of asbestos.

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When our asbestos is used in the manufacture of architectural building panels, it becomes "locked in." So our customers can keep on using it.

The addition of asbestos to cement products contributes to their overall strength, durability, fire resistance, and dimensional stability, and imparts flexural properties much greater than those found in unreinforced concrete. In these asbestos-cement architectural building panels and in an extensive range of other finished products containing asbestos, the asbestos is "locked in" with rubber, cement, asphalt, latex, or other binders, to provide environmentally safe materials. Once "locked in," the release of asbestos into the environment will not be significant during normal product end use.

As a result, our customers can continue taking advantage of the unique properties of asbestos. In thousands of asbestos-containing products, asbestos serves an essential function that has not been duplicated on a cost-performance basis.

While EPA and OSHA have established standards that limit the amount of airborne asbestos generated during production or fabrication of a product, in factory or on site, there are virtually no hazards associated with the proper end use of finished products where the asbestos is "locked in."

As one of the world's leading suppliers of asbestos, we at Johns-Manville are vitally concerned with helping our customers meet these standards. On any problem anywhere, we're ready to help.

We have years of experience in creating systems that effectively and economically control asbestos dust generated in the handling of asbestos fiber and in the machining and fabricating of products containing asbestos. Our experience can help you to eliminate or substantially reduce employee exposure to asbestos.

For example, we package asbestos in pulpable bags that are added directly to the mix where they disperse along with the asbestos. Other bags can be opened automatically with dust-controlled equipment.

In shipping, we utilize damage-free bulkhead rail cars and shrink-wrapped palletized units to help prevent damage during shipment and storage. We're also developing new methods of shipping such as high-density fiber blocks and other innovations that will help maintain dust-free environments and make it easier to handle asbestos safely.

We'd like to help. For more information on safe handling of asbestos, write on your company letterhead to Denis Kelleher, Asbestos Fiber Division, Johns-Manville, Ken-Caryl Ranch, Denver, CO 80217.

JM

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ASBESTOS

VOLUME 61 **JUNE 1980** **NUMBER 12**

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CONTENTS

KERMATROL DUST COLLECTORS 4
COMPANIES & PRODUCTS 10
MARKET CONDITIONS: GENERAL BUSINESS 14
MOTOR VEHICLE FACTORY SALES 15
PRODUCTION—IMPORTS—EXPORTS 16
CURRENT ASBESTOS PRICES 23
THE ASBESTOS MINING SCENE 28
NEW ASSOCIATION LEADERS 32
BIRTHDAY GREETINGS 34
1979 ANNUAL REPORTS: TURNER & NEWALL LTD. 36
CERTAINTEED CORPORATION 40
ASBESTOS STOCK QUOTATIONS 42
WELCOME TO NEW ADVERTISER 42
NEW ASBESTOS PATENTS 44
CALENDAR OF EVENTS 46

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Asbestos Magazine, 1980, June 1980
ACL Doc 12734 · Page 5 of 52
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asbestosclaims.law/library/12734/5

KERMATROL DUST COLLECTORS

Offer High Efficiency at Low Costs

In view of existing regulations governing cleanliness of air in the workplace and the possibility of even more stringent requirements in the future, it is only natural that much effort is being expended to develop devices for removing the maximum amounts of dust and other pollutants from plant air at the lowest possible cost.

The latest system for industrial dust control to come to our attention is the Kermatrol dust collector, a modular unit combining a unique, high-efficiency filtration system with an automatic, self-cleaning feature, offering extremely high efficiency at low initial cost and low operating expense.

These collectors provide mechanical air filtration by means of High Efficiency Particulate Air (HEPA) filters, specially modified to permit filtration of particulate matter to below 0.1 micron in size and to provide ease of dust release from the filter surface. While HEPA filters have been in use for many years, the absence of a self-cleaning feature has made it economically impractical to apply such filters to industrial dust collection.

The development of a microporous dust release coating for the filter media has resulted in more effective filtration and permits repeated use of the same filter cartridges. Extended cartridge life, in some cases as much as five years or more, eliminates costly rebagging required by bag-type collectors or the likewise costly replacements required with less durable filter cartridges.

Kermatrol filters are high efficiency absolute filters of the HEPA type to which an ultrafiltration membrane has been applied over the entry side surfaces. The membrane has pores of molecular dimensions and is, itself, a film of some 10 to 25 nanometers thick cast onto the much thicker porous substrate of the HEPA media which provides mechanical support. Since it is

---

THE COVER

An automatic, self-cleaning H.E.P.A. (absolute) permanent-cartridge-filter-type dust collector, available from Kermatrol Corporation, Santa Monica, California; standard systems are competitive with baghouses and occupy less space.

Asbestos Magazine, 1980, June 1980
ACL Doc 12734 · Page 6 of 52
Published by AsbestosClaims.Law
asbestosclaims.law/library/12734/6

not possible to ensure complete coverage of the media—a minimum of 95% coverage of the surface is the criterion for filter acceptability—the HEPA media backup ensures a minimum efficiency of 99.99% throughout the filter, including those areas with incomplete membrane coating.

The membrane is fabricated with pores having an average diameter of one nanorneter. Essentially molecular flow is established when air passes through the membrane and turbulence within the media is reduced, minimizing the power required for operation. A lowering of the pressure drop across a filter coated with the ultrafiltration membrane is experienced as compared to an uncoated filter. Alternately, for the same filter configuraion and media surface area, larger volumes of air can be handled with the same power expenditure.

Pores of one nanometer size do not plug or fill with particulate. When a particle of dust approximately the size of a pore arrives at the membrane, the thermal energy of the particle exceeds its capability of lodging in the pore and the particle will invariably exit, either up or down stream. Particles smaller than the pore (less than 0.001 micron in size) will pass through the HEPA backup media as if it did not exist.

The ultrafiltration membrane not only improves the efficiency but also serves to prevent plugging of the filter. The membrane, covering 95% of the filter surface, holds the dust accumulation on its smooth surface whence it can be easily removed by various methods.

Kermatrol safety systems provide a one-on-one backup of the primary filter with an after-filter of the same HEPA type and strength. The pressure drop across the after-filter is continuously monitored by an independent pressure switch. A small leak in the primary filter or its seal will cause the after-filter to load with dust, increasing its resistance to air flow. When the pressure drop across the after-filter exceeds a predetermined limit, the pressure switch actuates an alarm in the form of a red light indicator, an optional audio alarm, or both.

Any leaks in the primary system are usually quite small and there is ample time to effect repairs. Throughout the period of leakage the after-filter collects all of the potential emission and, by virtue of its leak-free seals and tested integrity, any exhaust emission is prevented. The degree of leakage and, therefore, the time during which operation may be continued before necessary repairs to the primary filter must be performed, can be estimated by observing the rise in differential pressure across the after-filter. A small leak can result in a loading rate of the after-filter which

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may permit as much as two to three months uninterrupted operation with the protection of the after-filter only. However, the system cannot be considered completely safe during such periods and repairs should be effected as soon as possible. Repairs can often be made in-place and, under some circumstances, while the dust collector is in operation. The repair of a primary filter element will often take as little as 15 minutes.

The double filter safety system, with the exception of periods of primary filter leakage, will provide a guaranteed maximum particulate emission of one microgram per cubic meter of air. During alarm periods, the system will provide a guaranteed maximum of 50 micrograms per cubic meter of air, identical to that of the single filter system.

Operation of the Kermatrol dust collectors is entirely mechanical and relatively quite simple. Dust and air are entrained by suction through hoods, enclosures or nozzles designed for optimum dust capture and containment and then conveyed through ducts to the hopper of the dust collector. Dust collects on the undersides of the HEPA filters while clean air exits from the top of the unit or, optionally, may be ducted for use elsewhere.

Cleaning of the filters at predetermined intervals moves accumulated dust to the vacuum bin, silo or drum for disposal. Heavy fractions of dust fall to the bottom of the hopper and are removed by screw conveyors or various types of discharge valves.

Air volume handled by a single module is related to the dust loading of the air to be filtered, the rise in pressure drop across the filter as a consequence of loading and the pressure drop corresponding to the design flow rate. Air volume capacities range from 1000 cfm to 2500 cfm per module at resistances of 1 to 10 inches w.g., depending on the loading and type of dust being collected.

Dust loading of a single module will vary with the density of the material. Dusts which are heavy and tend to compact will permit heavier loading than those which are light and tend to remain fluffy. Frequency of cleaning is determined by the period of time required to achieve optimum loading. Continuous operation is provided without air flow stoppage since vacuum cleaning of the filters takes place while the equipment is in full operation.

Filter modules are arranged in rows so a single sweep of the vacuum cleaning head, by progressing under succeeding filters, will clean the dust accumulation from all the filters in the row. The cleaning cycle consists of a forward traverse under all the filters and a return traverse to the point of start. A pressure rise "demand" cleaning system is also available as an option.

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Hoppers with integral screw conveyors are standard as well as hoppers with bottom valve outlets for disposal into drums or onto conveyors. Hoppers may be fitted with multiple inlets and inclined baffles are provided to deflect heavier particles to the bottom of the hopper.

Standard-duty dust collectors will provide service to 250°F. High temperature systems equipped with silicone rubber seals and hoses will operate up to 550°F and very high temperature systems may provide service up to 1000°F. All units are essentially waterproof and fireproof.

Aside from their function of removing hazardous or annoying dusts from plant atmospheres, Kermatrol dust collectors can yield significant profits in applications where reusable industrial dusts may be recovered. In a number of cases, savings realized as a result of dust recovery have paid for the initial installation in the first year of operation. The extraordinarily clean air discharge which makes it possible to recirculate the filtered air, results in substantially reduced heating costs in areas where plant heating is a necessity.

The modular design makes for extreme flexibility in selection and installation of these systems without the costs of special designs and constructions to fit existing plants of widely differing layouts and sizes. The introduction of this line of equipment to the general market for the first time should meet with favorable response from those involved in plant design and operation under modern-day clean air restrictions.

The systems are designed and manufactured by KERMATROL, 606 Wilshire Boulevard, Santa Monica, California 90401 and are being made available through licensees and subsidiaries in many countries outside the United States including England, Holland, Sweden, Norway and Germany. Further information may be obtained direct from the manufacturer.

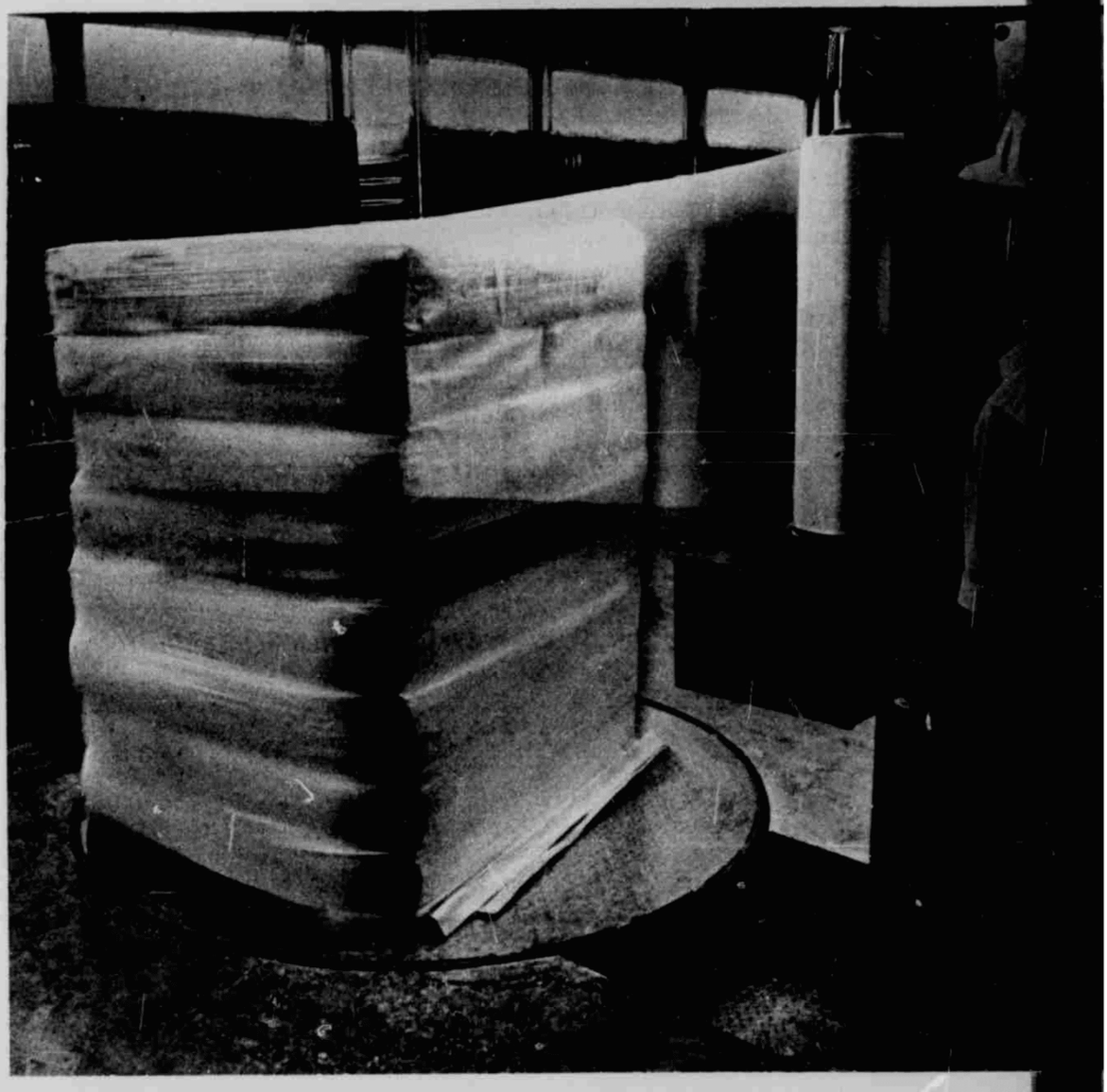
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ACL Doc 12734 · Page 10 of 52
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wrapping broken bags dust problems.



Lac d'Amiante du Québec, Ltée now supplies two-ton units of asbestos fiber consisting of forty 100-lb. bags completely stretch wrapped in a tough polyethylene film. This protective wrapping virtually eliminates bag damage:

- During car loading and unloading.
- During transit.
- In storage and in-plant handling.

Stretch wrapping is your best assurance that shipments will arrive damage and dust free. It also reduces unloading expense and helps control dust problems in your operation. It's available for a very nominal charge.

Stretch wrapping is evidence of LAQ's concern for its customers and the environment. For details contact Lac d'Amiante du Québec, Ltée, P.O. Box 608, Black Lake, Quebec, Canada. Tel.: 418-423-4221. Or call a representative near you.

LAQ

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Asbestos Magazine, 1980, June 1980
ACL Doc 12734 · Page 11 of 52
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COMPANIES & PRODUCTS

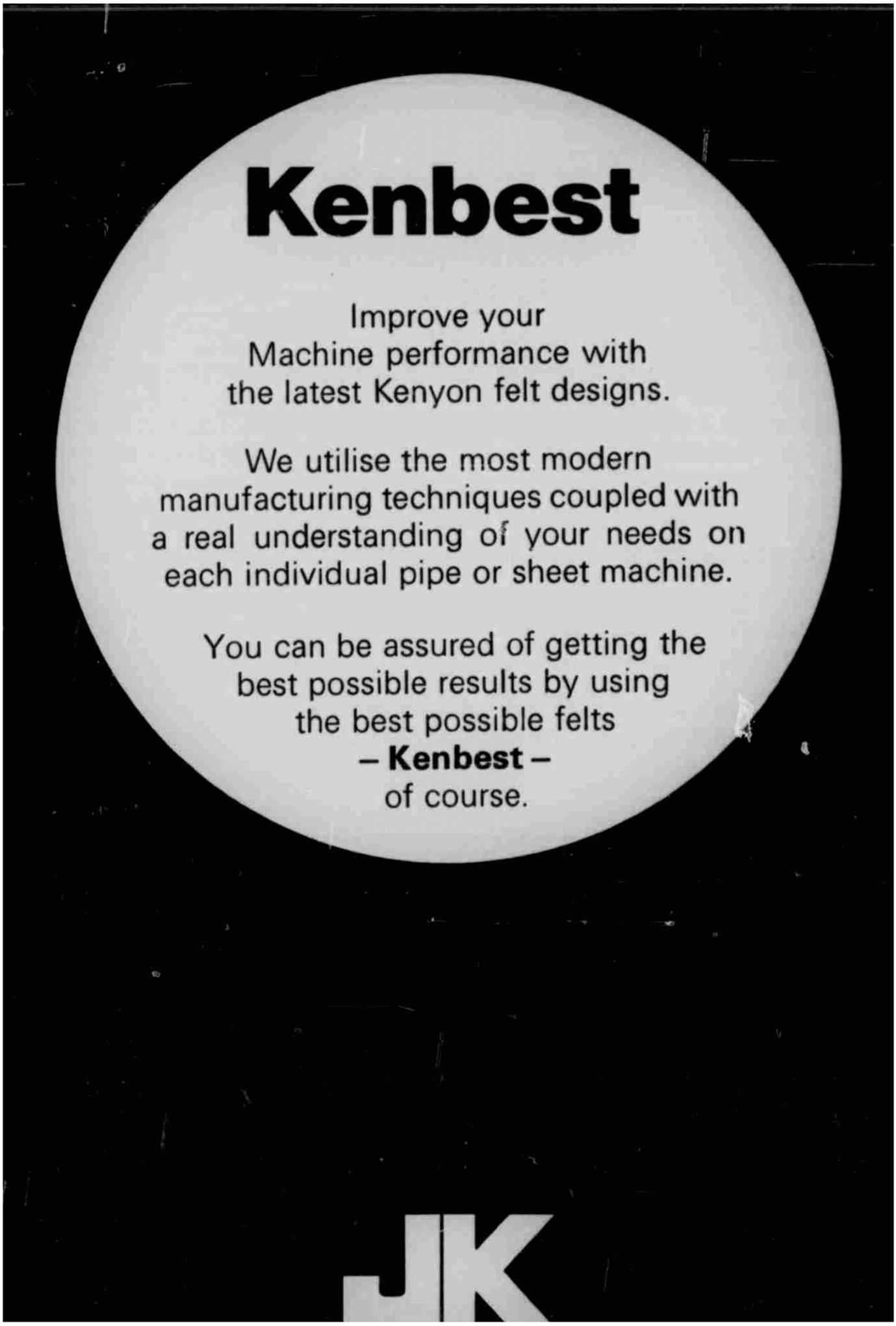
CAPE ACQUISITIONS

Effective January 1, 1980, *Cape Industries Ltd.*, London, England, has acquired all of the share capital of *Durasteel Ltd.*, Wellingborough, Northants. The book value of the assets purchased is approximately £450,000. Durasteel is a private company engaged in the manufacture of specialized fire protection products including fire doors, partitions, cable trays and ducting. The specialized products are based on a unique composite of galvanized steel sheet and fiber-reinforced cement. . . . Agreement was reached for the purchase, effective March 29, 1980, by *Cape Universal Claddings Ltd.* of the assets of Stenni (U.K.) Ltd., Blackburn, Lancashire. Stenni is a private company which makes polyester-resin-glass-fiber-based decorative cladding panels, impregnated with crushed stone.

TURNER & NEWALL MODIFIES & EXPANDS

Turnall A.C. (Pvt) Ltd. has shut down its asbestos-cement pipe plant at Bulawayo, Rhodesia, from May-October 1980 in order to rebuild the existing four-meter Mazza pipe machine to incorporate two vats and to operate at a higher speed. The cost will be approximately 1.5-million Zimbabwe dollars and capacity will increase one-third, to give a production output of 37,000 metric tonnes per annum. . . . At a cost of approximately $7.1-million, three expansion projects have been completed in the United States and Europe by *Philip A. Hunt Chemical Corporation* (52% owned by T&N). Physical expansion plus the installation of processing equipment for more efficient production of dry toners and developers for office copying machines and computer printers took place at the operation at Berea, Ohio. At Limerock, Rhode Island, capacity has been doubled for the production of organic intermediates. The new $2.6-million plant of NV Hunt at St. Niklaas, Belgium, is now producing photographic chemicals and electrostatic toners. . . . T&N reached an agreement in principle with *James Hardie Industries Ltd.* for the acquisition by James Hardie of T&N's 40% minority holding in *Hardie-Ferodo Pty. Ltd.*, Australia, thereby making Hardie-Ferodo a wholly-owned subsidiary of James Hardie. Turner & Newall is the parent company of Ferodo in the United Kingdom. The association between Ferodo and Hardie-Ferodo will continue, i.e., Hardie-Ferodo will still sell its products under that name, it will remain the Australian vendor for Ferodo's products and it will continue technical interchanges with Ferodo. The cash consideration involved in the transaction will be A$4,422,800. . . .

Asbestos Magazine, 1980, June 1980
ACL Doc 12734 · Page 12 of 52
Published by AsbestosClaims.Law
asbestosclaims.law/library/12734/12



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asbestosclaims.law/library/12734/13

Agreement in principle was also reached with Acmil for the acquisition by Acmil of T&N's minority stake in *Acmil Plastics (Australia) Pty. Ltd.*, for a consideration of A$1,650,000.

NATIONAL SELLS CEMENT DIVISION

General Dynamics Corporation has purchased, for $100-million, the Cement Division of National Gypsum Company. The transaction involves mills at Alpena, Michigan, with capacity to produce 2.27 metric tonnes per year of cement; a mill at Evansville, Pennsylvania; and related storage and distribution facilities. [Mining Engineering]

INTERASBEST RECEIVES CONTRACTS

INTERASBEST Gesellschaft m.b.H., St. Johann/Tirol, Austria, announced the awarding of two contracts from *Turners Building Products Ltd.*, Nigeria, for two complete asbestos-cement corrugated sheet manufacturing plants. Interasbest has delivered, assembled and started the systems, with the official openings of the plants taking place in March 1980. Each fully-automatic plant has the capacity to produce 160 tons of sheets per day.

J-M CLOSES A/C PIPE OPERATION

On May 22, 1980, *Johns-Manville Canada Inc.* announced the halting of the asbestos-cement-pipe-making operations at its plant at Scarborough, Ontario, putting 170 of the 430 striking employees out of work. Reason given for the shut-down was a declining market for the products, a determination which was made following an intensive economic analysis of the future of a/c markets. Other operations will continue at the plant at Port Union.

R/M JOINT-VENTURE IN MEXICO

Raybestos-Manhattan, Inc., and *Holding Fiasa S.A. de C.V.* have established a joint venture—*Itapsa S.A. de C.V.*,—to make and market drum brake linings and disc brake pads. The venture will result in expanded production of friction materials at Los Reyes La Paz, Mexico City. In additon, Itapsa, a division of Holding Fiasa, will be the exclusive sales agent for R/M's complete line of friction products throughout Mexico and Central America.

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MARKET CONDITIONS

GENERAL BUSINESS

Any remaining doubts that the economy is in recession were dispelled when the Index of Leading Economic Indicators for April showed a drop of 4.8%, the largest monthly decline since the Index was originated in 1948. Adding to the gloomy outlook were Commerce Department reports that new factory orders decreased by 5.5% in April, the greatest drop since that of December 1974, and construction spending fell 3.6% in the same month. In Detroit, automakers scheduled June production at 545,000 passenger cars, about 34% below production in the same 1979 month. This reduction presages further temporary plant closings and, with more than 220,000 production workers already laid off, signaled the poorest automobile business since the 1975 recession.

While the Administration still officially maintains the recession will be relatively mild and short, many private predictions are being altered to call for a steep and deep decline followed by a halting and lengthy recovery. As noted previously, considering the Administration's established record for inconsistency, there is really no telling what stimulative policies might be initiated in an effort to turn the economy around before the November election, even though history would indicate the practical impossibility of reversing the present downtrend in such a short time. In any event, current negotiations between Congress and the President, in an effort to produce a balanced budget for fiscal year 1981, would seem to be an exercise in futility since the slumping economy will cause substantial changes in revenues and expenditures which will, on balance, practically assure a hefty deficit for the year in question.

As of this writing, the Federal Reserve Board has again cut the discount rate, banks have been lowering their prime rates, the yield on short-term Treasury bills has been halved in about two months and long-term interest rates have dropped to a point where some new bond issues were brought to market with fair success near the end of May. Unfortunately, the lowered cost of borrowing, while an encouraging development, cannot, by any means, give the economy the boost it needs to quickly halt the current slump.

It now appears certain that the opponents for the Presidency in November will be Messrs. Carter and Reagan, with Mr. Ander-

Asbestos Magazine, 1980, June 1980
ACL Doc 12734 · Page 16 of 52
Published by AsbestosClaims.Law
asbestosclaims.law/library/12734/16

son a likely third party candidate. Despite the advantages enjoyed by the incumbent, the record of the Administration leaves much to be desired and, faced with a potentially divided Democratic Party and with almost certain further deterioration in the economy, Mr. Carter is anything but an odds-on favorite to win a second term.

MOTOR VEHICLE FACTORY SALES

FIRST QUARTER 1980—Motor vehicle factory sales from plants in the *United States* totaled 2,290,712 during the first three months of 1980, compared with 3,293,541 in the like period a year earlier. Breakdown for the latest three months is: 1,780,671 passenger cars (down 23.6%) and 510,041 trucks and buses (down 47.1%). . . . Factory sales from plants in Canada reached 360,278 motor vehicles to March 1980, against 485,815 a year earlier. [Motor Vehicle Manufacturers Association of the United States, Inc.]

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PRODUCTION—IMPORTS—EXPORTS

AUSTRALIAN IMPORTS & EXPORTS

For the *Half Year Ended December 1979*, Australia *imported* 12,843 metric tonnes of asbestos, valued at A$6,368,624, compared with 18,521 tonnes, valued at $8,593,969, for the same six months a year earlier. Breakdown by variety of asbestos for the latest period (with comparative year-earlier figures in parentheses) is: Chrysotile, 9,023 tonnes, $4,592,388 (11,456 tonnes, $5,229,584); Amosite, 2,940 tonnes, $1,383,581 (5,567 tonnes, $2,338,981); Other, 880 tonnes, $392,355 (2,498 tonnes, $1,025,404). . . . *Exports* of all types of asbestos for the *Half Year Ended December 1979* totaled 31,929 tonnes, valued at $9,292,658, compared with 16,237 tonnes, valued at $6,612,898, for the like period to December 1978. [Australian Bureau of Statistics]

CANADIAN FIBER SHIPMENTS

Primary Canadian Producers' shipments of asbestos (including tonnage for own use and concentrate shipped from Asbestos Hill) amounted to 103,835 metric tonnes in *March 1980* compared with 123,243 tonnes in the third month a year earlier. Cumulative total for *January-March 1980* is 287,210 tonnes: 244,817 tonnes from plants in Quebec and 42,393 tonnes from plants in Newfoundland and British Columbia. Total shipments for the first three months of 1979 were 341,016 tonnes: 302,038 tonnes from Quebec plants and 38,978 tonnes from the remaining operations. [Canadian Department of Energy, Mines and Resources]

CANADA'S FLOOR TILE OUTPUT

Production of vinyl-asbestos floor tile by Canadian manufacturers for the *First Quarter 1980* reached 12,048 metric tonnes, compared with 10,263 tonnes during the like 1979 period. . . . *Shipments* totaled 10,796 tonnes in the latest three months vs. 9,486 tonnes a year earlier. [Statistics Canada]

SOUTH AFRICAN PRODUCTION & EXPORTS

Asbestos *production* in the *First Half 1979* totaled 118,260 metric tonnes against 127,444 tonnes in the like 1978 period (down 7.2%). Breakdown for the latest six months is: 55,766 tonnes of Crocidolite (down 19.9%), 43,678 tonnes of Chrysotile (up 12.5%), and 18,816 tonnes of Amosite (down 0.5%). No Transvaal Crocidolite was produced in the latest period, compared with 77 tonnes during the first half of 1978. . . . *Exports* in the *First Half of 1980* were valued at R46,716,758, down 15.3% from the R55,169,523 reported for the like period a year prior. By variety of asbestos, the values for the latest half year are: Crocidolite—R31,452,271 (down 17.9%), Chrysotile—R7,751,501 (up 30.2%), Amosite—R7,512,986 (down 31.2%). [South African Department of Mines]

Asbestos Magazine, 1980, June 1980
ACL Doc 12734 · Page 18 of 52
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asbestosclaims.law/library/12734/18



And only one material can protect the man who gets him out. At every race track there is a fireman wearing special protective clothing at all times.

Obviously this suit is made of aluminized asbestos because only asbestos can protect the wearer in temperatures that make magnesium wheels go off like flash guns and causes chassis to melt. As a matter of fact, asbestos is the only woven material that can make this claim and without it, race drivers, firemen and others who work in these environments would be defenseless.

Asbestos. We couldn't live the way we do without it.

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When life depends on it, you use asbestos.

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3635 Central Parkway, Cincinnati, Ohio 45223, **U.S.A.**
Other representatives world-wide

IMPORTS INTO THE UNITED STATES

From: U.S. Bureau of the Census

FEBRUARY 1980

UNMANUFACTURED ASBESTOS:

Crocidolite, South Africa	s.tons	903	$ 604,967
Chrysotile Crudes, Rhodesia	s.tons	22	29,592
Chrysotile Spinning Fibers, Canada	s.tons	1,055	811,195
Rhodesia	s.tons	124	115,152
Chrysotile, Other, Canada	s.tons	41,070	11,014,197
Mexico	s.tons	2	366
Other Crudes & Fibers, Canada	s.tons	994	245,483
Japan	s.tons	13	4,440
		44,183	$12,825,392

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos yarn, cloth, tape, etc.	Lb	951,129	$ 1,512,210
A-C pipes, tubes & fittings	Lb	988,803	133,764
Other asbestos-cement articles	Lb	3,817,285	686,937
Other asbestos articles		..	571,434
			$ 2,904,345

JANUARY-FEBRUARY 1980

UNMANUFACTURED ASBESTOS:

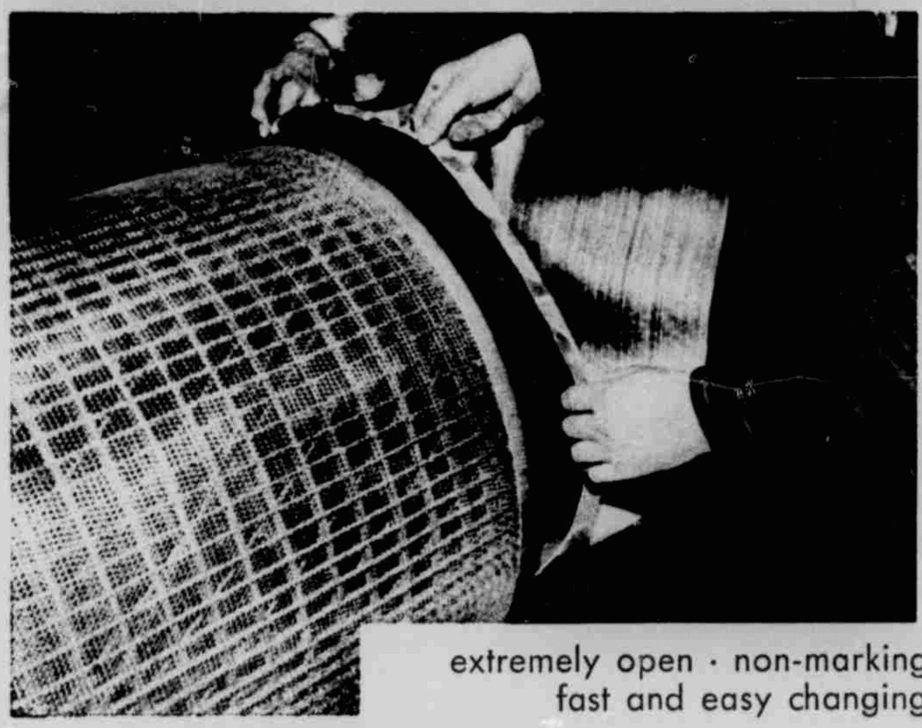
Crocidolite, South Africa	s.tons	3,712	$ 2,390,625
Chrysotile Crudes, Rhodesia	s.tons	22	29,592
Chrysotile Spinning Fibers, Canada	s.tons	1,648	1,237,411
Rhodesia	s.tons	124	115,152
Chrysotile, Other, Canada	s.tons	71,481	18,362,425
Mexico	s.tons	2	366
South Africa	s.tons	22	2,408
Other Crudes & Fibers, Canada	s.tons	1,850	450,007
Germany, Fed. Rep.	s.tons	1	4,726
Japan	s.tons	13	4,440
South Africa	s.tons	594	382,141
		79,469	$22,979,293

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos yarn, cloth, tape, etc.	Lb	1,455,563	$ 2,304,905
A-C pipes, tubes & fittings	Lb	1,854,169	253,716
Other asbestos-cement articles	Lb	7,959,074	1,484,728
Other asbestos articles		..	976,780
			$ 5,020,129

January-February 1979: U.S. imports of unmanufactured asbestos totaled 109,195 short tons, valued at $27,290,726; imports of manufactured asbestos products were valued at $3,927,862.

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EXPORTS FROM THE UNITED STATES

From: U.S. Bureau of the Census

FEBRUARY 1980

UNMANUFACTURED ASBESTOS:

Asbestos crudes, fibers & stucco . . . . . s.tons	2,550	$ 1,205,881
Asbestos sand & refuse . . . . . s.tons	1,070	280,143
	3,620	$ 1,486,024

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos yarn, cloth, tape, etc. . . . . Lb	293,138	$ 419,106
Asbestos-Cement shingles & clapboard . . . Lb	799,908	199,727
Other asbestos-cement articles . . . . . Lb	1,575,119	729,355
Asbestos gaskets . . . . . Lb	128,130	255,697
Asbestos packings & seals . . . . . Lb	313,140	1,362,561
Asbestos insulation	..	592,627
Brake linings & disc brake pads	..	4,362,887
Clutch facings & linings	..	771,206
Other asbestos articles	..	3,207,980
		$11,901,146

JANUARY-FEBRUARY 1980

UNMANUFACTURED ASBESTOS:

Asbestos crudes, fibers & stucco . . . . . s.tons	6,019	$ 2,460,071
Asbestos sand & refuse . . . . . s.tons	1,844	644,707
	7,863	$ 3,104,778

MANUFACTURED ASBESTOS PRODUCTS:

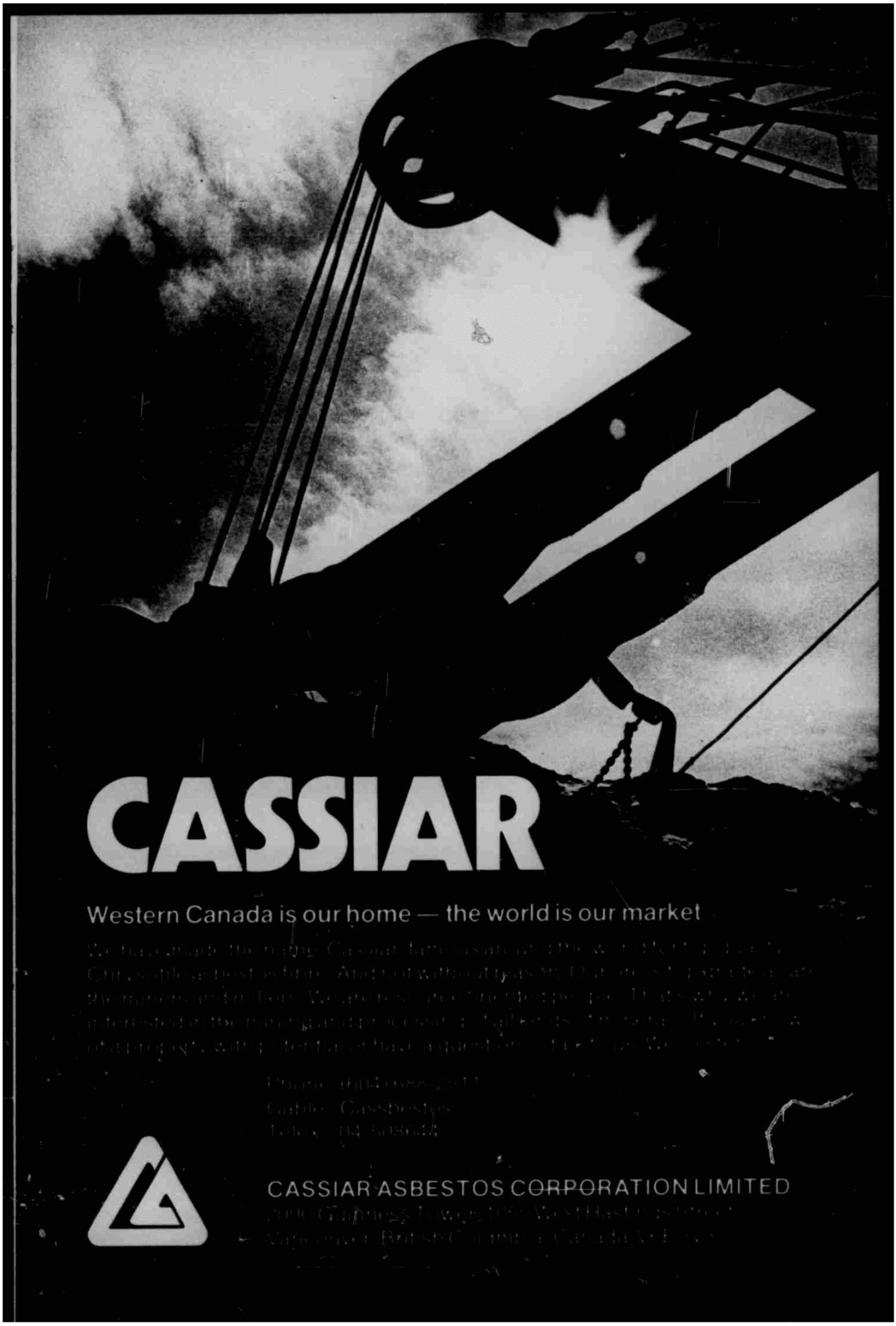
Asbestos yarn, cloth, tape, etc. . . . . Lb	614,887	$ 1,042,066
Asbestos-Cement shingles & clapboard . . . Lb	1,634,935	389,230
Other asbestos-cement articles . . . . . Lb	4,800,382	1,617,827
Asbestos gaskets . . . . . Lb	197,669	525,135
Asbestos packings & seals . . . . . Lb	627,835	2,594,796
Asbestos insulation	..	906,975
Brake linings & disc brake pads	..	7,621,031
Clutch facings & linings	..	1,437,144
Other asbestos articles	..	5,541,529
		$21,675,733

January-February 1979: U.S. exports of unmanufactured asbestos reached 6,525 short tons, valued at $2,188,366; exports of manufactured asbestos products were valued at $22,342,347.

NEXT ISSUE

HY-VAC, the high-power, vacuum-cleaning system, manufactured by NFE Canada Ltd.

Asbestos Magazine, 1980, June 1980
ACL Doc 12734 · Page 22 of 52
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CASSIAR
Western Canada is our home — the world is our market
CASSIAR ASBESTOS CORPORATION LIMITED

EXPORTS FROM CANADA

From: Statistics Canada

JANUARY 1980

Short Tons

UNMANUFACTURED ASBESTOS:	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
Western Europe	..	457	15,446	14,629
Eastern Europe	..	331	894	20
Middle East	..	..	182	29
Africa	..	..	652	415
Asia	..	230	6,748	10,765
Oceania	..	5	1,387	64
So. & Cen. America & Antilles	..	165	7,356	3,003
United States	..	516	6,745	29,240
	..	1,704	39,410	58,165

The total amount of unmanufactured asbestos exported in *January 1980* was 99,279 short tons (90,061 metric tonnes), valued at C$38,773,000.

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos cloth, dryer felts & sheets	C$	464,000
Asbestos brake linings & facings		336,000
Asbestos-Cement building materials		1,472,000
Other basic asbestos products		965,000
	C$	3,237,000

FEBRUARY 1980

UNMANUFACTURED ASBESTOS:	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
Western Europe	..	635	15,731	10,747
Eastern Europe	..	72	1,107	..
Middle East	..	100	2,007	..
Africa	..	..	474	150
Asia	..	253	7,807	9,873
Oceania	..	..	453	36
So. & Cen. America & Antilles	..	67	2,724	3,183
United States	..	703	10,246	35,662
	..	1,830	40,549	59,651

The total amount of unmanufactured asbestos exported in *February 1980* was 102,030 s.t. (92,564 m.t.), valued at C$41,920,000.

Manufactured Asbestos Products:

Asbestos cloth, dryer felts & sheets	C$	527,000
Asbestos brake linings & facings		265,000
Asbestos-Cement building materials		1,910,000
Other basic asbestos products		1,084,000
	C$	3,786,000

Asbestos Magazine, 1980, June 1980
ACL Doc 12734 · Page 24 of 52
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EXPORTS FROM CANADA—CONTINUED

JANUARY-FEBRUARY 1980

UNMANUFACTURED ASBESTOS:	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
Western Europe	..	1,092	31,177	25,376
Eastern Europe	..	403	2,001	20
Middle East	..	100	2,189	29
Africa	..	..	1,126	565
Asia	..	483	14,555	20,638
Oceania	..	5	1,840	100
So. & Cen. America & Antilles	..	232	10,080	6,186
United States	..	1,219	16,991	64,902
	..	3,534	79,959	117,816

The total amount of unmanufactured asbestos exported in *January-February 1980* was 201,309 s.t. (182,625 m.t.), valued at C$80,693,000.

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos cloth, dryer felts & sheets	C$ 991,000
Asbestos brake linings & facings	601,000
Asbestos-Cement building materials	3,382,000
Other basic asbestos products	2,049,000
	C$ 7,023,000

January-February 1979: Canadian exports of unmanufactured asbestos totaled 239,792 short tons (217,541 metric tonnes), valued at C$83,181,000; exports of manufactured asbestos products were valued at C$4,781,000.

CURRENT ASBESTOS PRICES

QUOTED FROM COMPANY PRICE LISTS

ASBESTOS CORPORATION

PER TON OF 2000 LBS., F.O.B. MINE

AS OF JANUARY 1, 1980

CANADIAN DOLLARS

Grades 3Z to 3F spinning fiber	$1125 to $1750
Grades 4T to 4A asbestos cement fiber	846 to 1102
Grades 5R to 5D paper fiber	530 to 626
Grade 6D paper and shingle fiber	380
Grades 7TS to 7D shorts	122 to 233

CASSIAR ASBESTOS

PER TON OF 2000 LBS., F.O.B. NORTH VANCOUVER, B.C.

AS OF JANUARY 1, 1980

CANADIAN DOLLARS

AAA	nonferrous spinning fiber; Canadian Group 3	$2000
AA	nonferrous spinning fiber; Canadian Group 3	1600
A	nonferrous spinning fiber; Canadian Group 3	1150
AC	nonferrous spinning fiber; Canadian Group 3	1050
AK	asbestos cement fiber; Canadian Group 4	975
AS	asbestos cement fiber; Canadian Group 4	900
AX	asbestos cement fiber; Canadian Group 4	825
AY	asbestos cement fiber; Canadian Group 5	575
AZ	asbestos cement fiber; Canadian Group 6	375

Specialty grades AK100, AS100, AX100 and AY120 are increased an additional $25.00 per ton above list price of base grade.

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ACL Doc 12734 · Page 25 of 52
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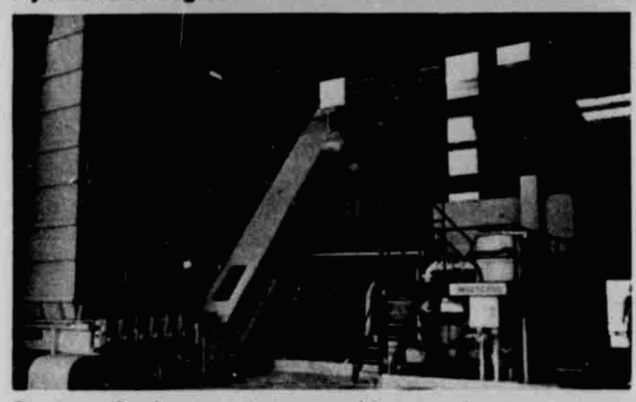
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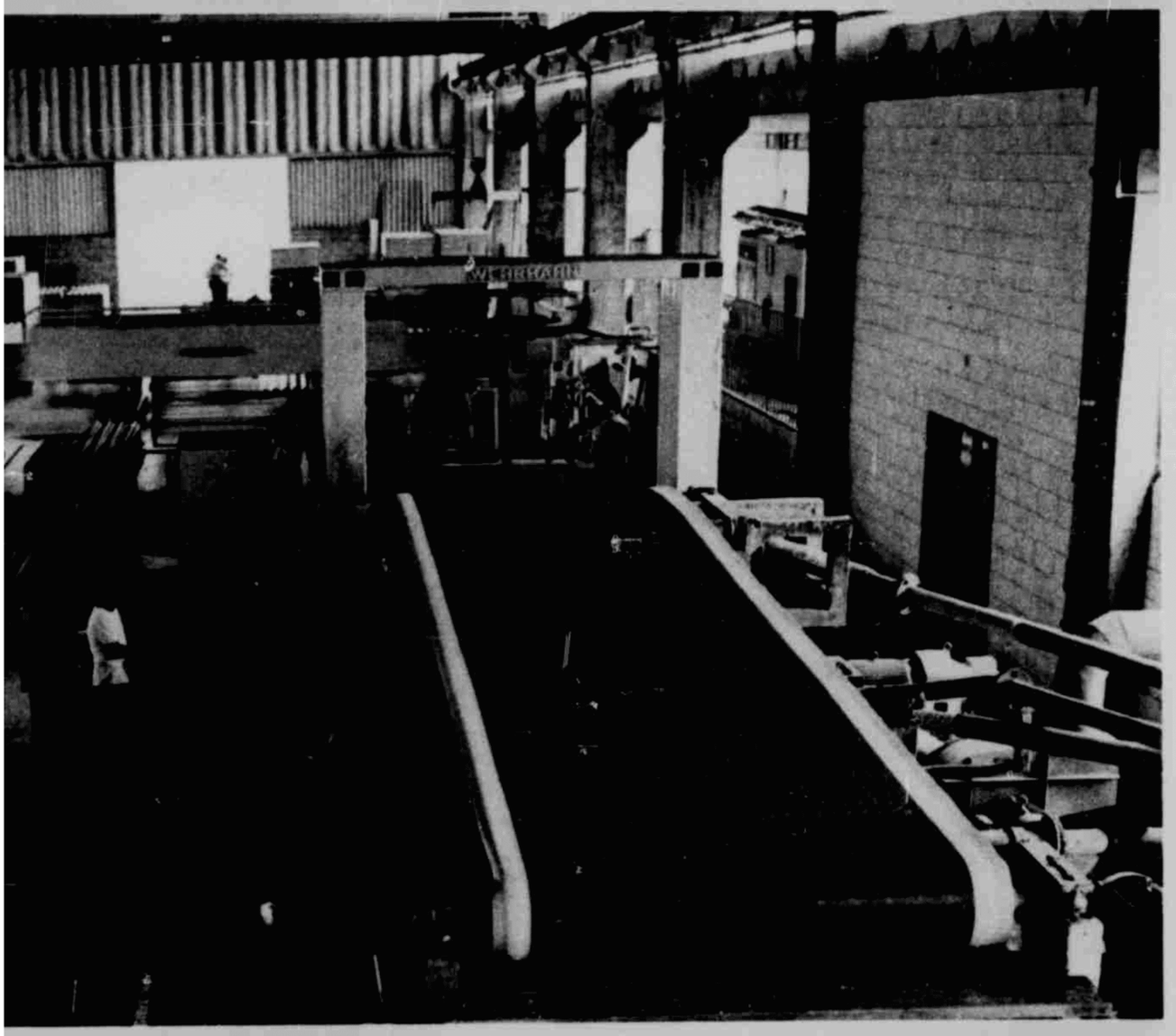


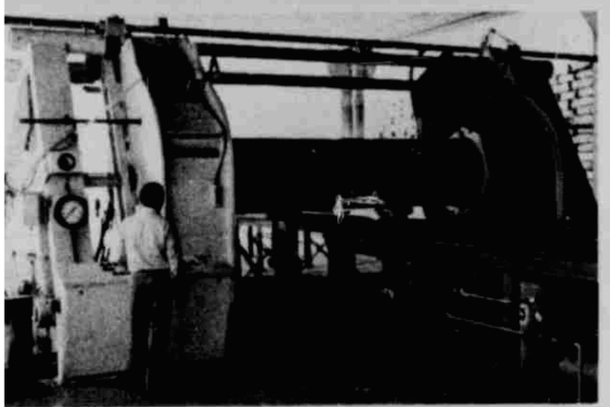
Pipe

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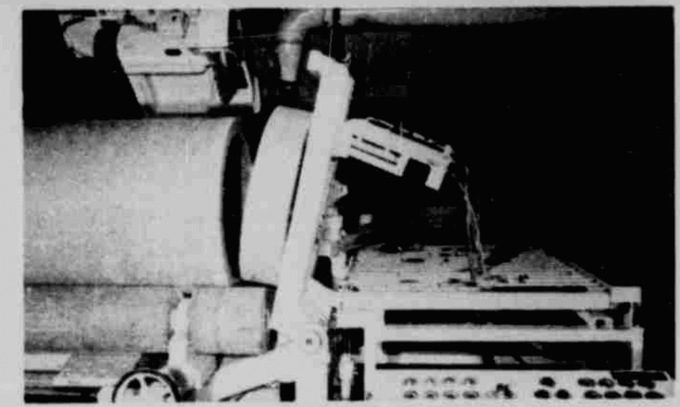
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VERMONT

PER TON OF 2000 LBS., F.O.B. MORRISVILLE, VERMONT

AS OF JANUARY 1, 1979

	U.S. DOLLARS
Grade 4T Fiber	$ 591
Grade 5K Fiber	457
Grade 5R Fiber	388
Grade 6D Waste	284
Grade 7D Shorts	188
Grade 7M Shorts	108
Grade 7R Shorts	100
Hooker No. 1	1250
Hooker No. 2	700

CALIDRIA ASBESTOS

PER TON OF 2000 lbs., F.O.B. KING CITY, CALIFORNIA

AS OF JANUARY 2, 1980

			U.S. DOLLARS
SG-103	pellets in bags	vinyl-asbestos floor tile	$ 122
SG-104	pellets in bulk	vinyl-asbestos floor tile	106
SG-130	open fiber in bags	general	170
SG-200	pellets in bags	rubber tile	160
SG-210	open fiber in bags	general	220
HPP	pellets in bags	rubber reinforcement	204
HPO	open fiber in bags	asphalt	220
RG-110	open fiber in bags	roofing	240
RG-144	open fiber in bags	resin viscosity control	560
RG-244	open fiber in bags	resin viscosity control	2500

CALAVERAS ASBESTOS

PER TON OF 2000 LBS., F.O.B. COPPEROPOLIS, CALIFORNIA

AS OF JANUARY 1, 1980

	U.S. DOLLARS
Grade 4T surface area 6000	$ 661
Grade 5R surface area 8000	434
Grade 6D surface area 8000	318
Grade 7R surface area 10000	115

ARIZONA

PER TON OF 2000 LBS., F.O.B. GLOBE, ARIZONA

AS OF JULY 1, 1976

	U.S. DOLLARS
No. 1 Crude (Soft)	$3000
No. 2 Crude (Soft)	1800
AAA	1300
Group No. 3 nonferrous filtering—plastic	$ 750— 840
Group No. 4 nonferrous filtering—plastic	750— 840
Group No. 7 white shorts	100— 200

BRAZIL

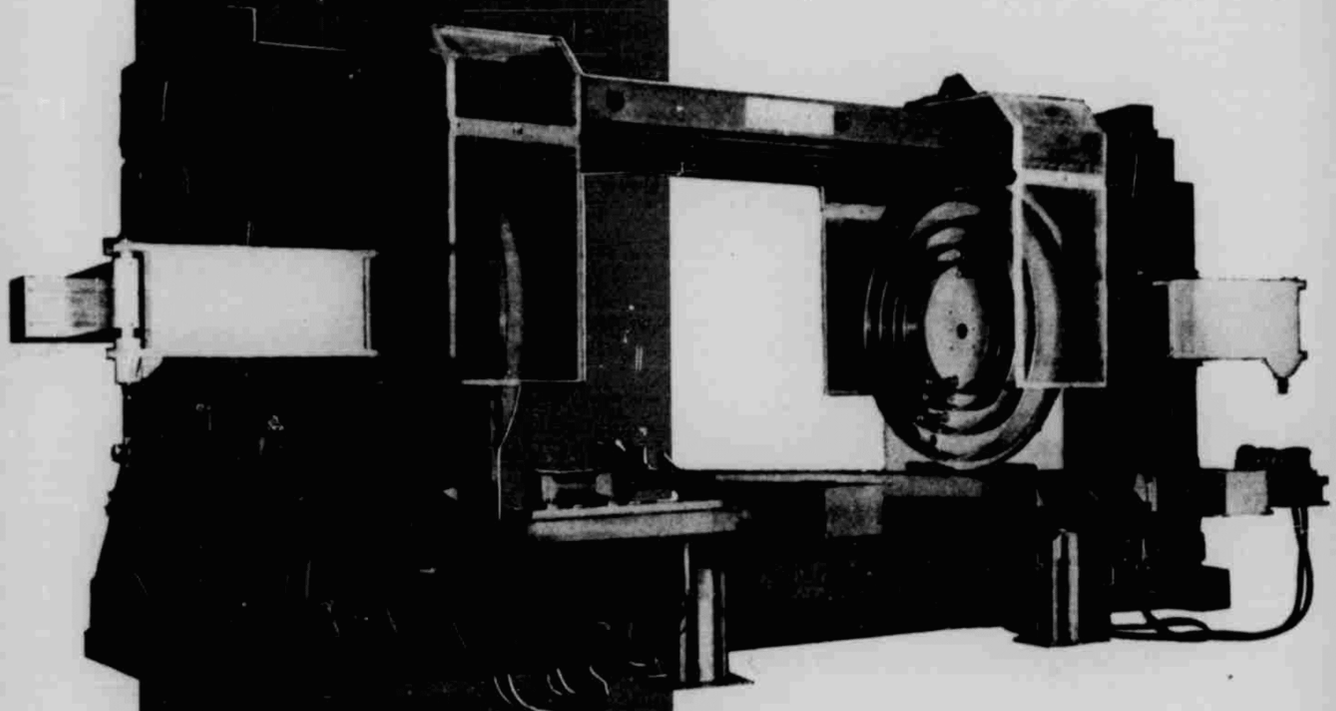
PER TON OF 2000 LBS., F.O.B. MINE

AS OF MARCH 1980

		BRAZILIAN CRUZEIRO $
Grades	4T to 4Z asbestos cement fiber	$16659 to $18696
Grades	5K to 5R asbestos cement fiber	10246 to 14025
Grade	6D asbestos cement fiber	7488
Grade	7TF asbestos cement shorts	2958
Grade	8S shorts	1399

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ACL Doc 12734 · Page 28 of 52
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THE ASBESTOS MINING SCENE

QUEBEC COURT DECISION CHALLENGED

On May 26, 1980, Jules Deschenes, Chief Justice of the Quebec Superior Court, rejected Asbestos Corporation Ltd.'s constitutional challenge of a provincial expropriation law. Mr. Deschenes found the expropriation legislation fully within the powers of Quebec and struck down the company's claim that the provincial law sterilized a firm incorporated under Canada's federal laws. He said the power of expropriation does not encroach on the ground reserved for the federal parliament and that despite its federal charter, Asbestos Corporation must submit to the expropriation. Two days later, the company appealed the court decision. The case is not expected to be heard until sometime during the fall of 1980. Meanwhile, the appeal extends an earlier granted injunction forbidding government seizure until a final decision is reached. . . . While these actions were being taken, Asbestos Corporation settled a strike which began March 4 at its facilities at Thetford Mines, Quebec. About 1,450 blue-collar workers ratified a three-year contract calling for wage increases tied to the cost of living plus a first-year, across-the-board boost of 30¢ an hour and 2% and 3% increases in the second and third years. The average hourly wage will climb to about C$10.90 at the end of the first year.

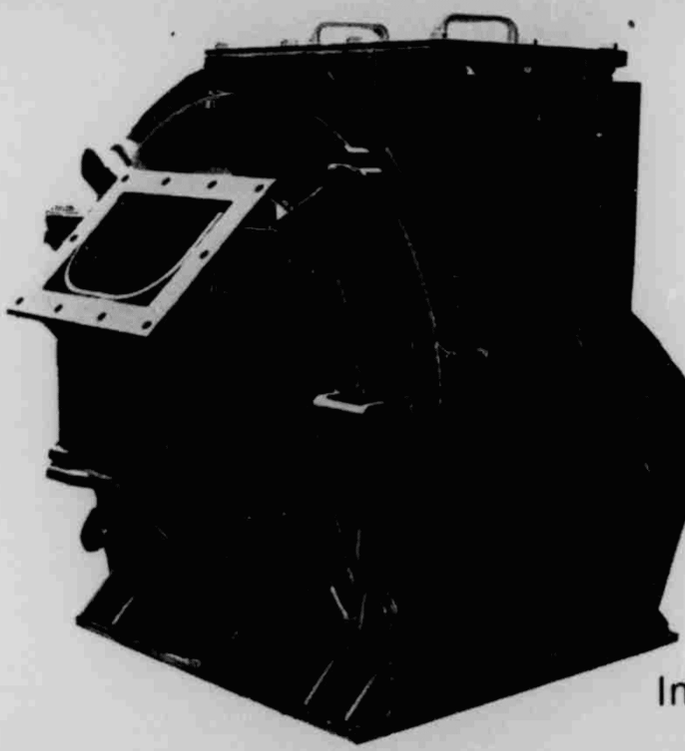
WOODSREEF BARRABA REPORT

At the Woodsreef Asbestos Mine, Barraba, New South Wales, operated by Chrysotile Corporation of Australia Pty. Ltd., subsidiary of Woodsreef Mines Ltd., asbestos production for the *year ended December 31, 1979,* rose 3% over the prior year—to 73,343 metric tonnes. Fiber shipments increased 26% to 80,225 tonnes, revenue from invoiced sales was up 21% to A$24,051,000 and net operating loss dropped 8% to $5.8-million. Exploration expenditure at the complex amounted to $40,000 compared with $7,000 the previous year. Capital and development expenses were $508,000, about the same as in 1978. . . . According to the company, the increase in shipments is in line with its predictions for improved marketing conditions in 1979 and is indicative of the strengthening of demand for Chrysotile fiber in world markets. . . . The tailings recovery circuit continues to operate successfully and mill recoveries are slightly in excess of predictions. . . . No active field exploration was conducted by Woodsreef Mines during the year but a percussion drill exploratory program was completed at Barraba by the subsidiary. This program was successful in proving 2,418,000 tonnes of ore, valued at $9.53 per tonne. Also, there is a further 1.5-million tonnes of possible reserves which remain to be tested.

First Quarter 1980—Asbestos fiber production for this latest quarter totaled 18,990 tonnes, 5% over the same three-month period a year earlier. Fiber shipments rose 37% to 19,981 tonnes, revenue from invoiced sales increased 26% to $6,116,000 and net operating loss rose 3% to $1,443,000. Revenue was lower than predictions primarily due to a zone being encountered in the pit from which production was significantly

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ACL Doc 12734 · Page 30 of 52
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lower than forecast. It should be noted that the loss for the quarter includes depreciation and interest amounting to $1,241,000. Due to financial restraints, it has not been possible to reduce the backlog in waste rock removal. This is continuing to interfere with blending of ore and the availability of alternate ore faces. The average net revenue per tonne of fiber increased approximately 17%, as a result of price increases at the beginning of the year, the cessation of discounting and a slight improvement in the value of the Canadian dollar. Firm sales for 1980 currently total 100,000 tonnes and this should reduce inventory to below normal levels by the end of the year. . . . Installation of additional environmental equipment is proceeding following the release of loan funds from the N.S.W. and federal governments. About half the work has already been completed and the dryer stack baghouse filter, which will be the final item to be installed, should be commissioned by late June 1980.

Financial Restructuring—Woodsreef Mines' bankers have indicated they are not prepared to continue operating the Barraba Mine under receivership. Provisional agreement has been reached with the bank on a restructuring scheme whereby the bank would receive approximately the same funds as they would have if they had liquidated the mine. Negotiations are currently proceeding whereby the Canadian parent company, Woodsreef Minerals Ltd., would raise funds in Canada for working capital. In addition, Woodsreef Mines is negotiating with finance companies for the sale and lease back of the mill complex, mining equipment and the housing estate at Barraba. A technical and economic review of the Barraba Mine, undertaken by Kilborn Ltd., confirms that the mine is viable and can operate profitably.

CASSIAR UPS EXPLORATION

Under a 1980 exploration budget of $1-million, Cassiar Asbestos Corporation Ltd., Vancouver, British Columbia, will be involved in several exploration projects throughout B.C., the Yukon and the Northwest Territories. Included are a joint venture involving an asbestos exploration program in the Yukon and Northern B.C. and some linecutting, magnetometer surveying, geological mapping and bulldozer trenching at an asbestos property at Dease Lake, Northern B.C., acquired last year. Other programs concern a molybdenum prospect in the Cassiar District of Northern B.C., lead-zinc-silver claims in the Tootsee Lake area of Northern B.C., molybdenum-tungsten and a potential porphyry copper prospect near Terrace, B.C., and tungsten in the Yukon and the Northwest Territories. [Northern Miner]

ANTIOQUIA TO PRODUCE NEXT YEAR

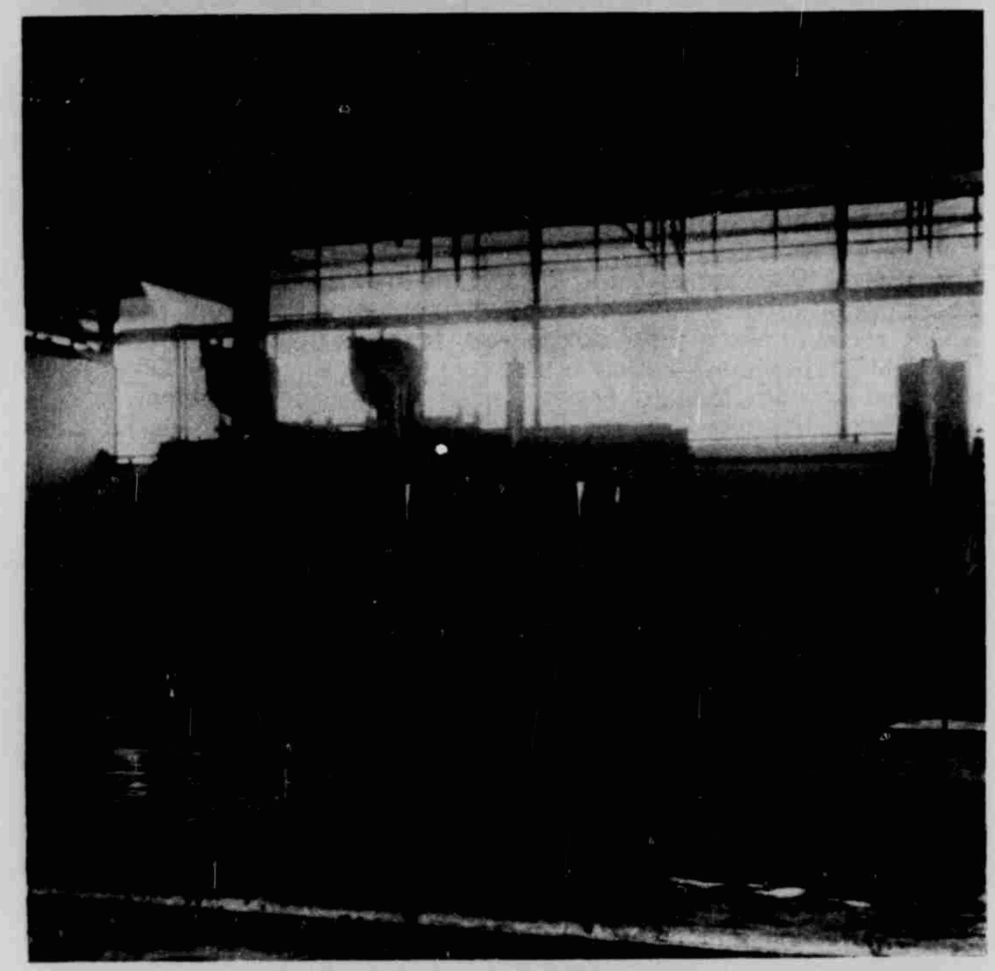
We have been advised by L. A. Serna, President of Minera Las Brisas S.A., Bogota, Colombia, that start-up of production is now scheduled for the third quarter of 1981 at the Chrysotile processing plant at Antioquia, near Campamentos. Initial output is to be some 6,000 metric tonnes per annum, with an eventual annual production of 16,000 tonnes. Total output will be absorbed by Colombian markets.

Asbestos Magazine, 1980, June 1980
ACL Doc 12734 · Page 32 of 52
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NEW ASSOCIATION LEADERS

AMERICAN MINING CONGRESS

Charles F. Barber, Chairman and Chief Executive Officer of ASARCO Inc., was elected Chairman of the American Mining Congress. A lawyer and Rhodes scholar, Mr. Barber succeeds *Nicholas T. Camicia*, Chairman and President of The Pittston Company.

AMERICAN SUBCONTRACTORS ASSOCIATION

July 1, 1980, *Norma Mann* will assume the Presidency of the American Subcontractors Association, succeeding outgoing President *Thomas Barfield*. Head of Mann Steel Co., Dallas, Texas, a major construction firm, Mrs. Mann has played a leadership role in ASA since 1969. Other newly-elected officers include *Frank Carroll*—First Vice President, *Thomas McGlone*—Second Vice President, *Theron Ladner*—Third Vice President, *Robert Johnson*—Treasurer and *Arthur Meushaw*—Secretary.

ASSOCIATION OF BRITISH MINING EQUIPMENT COMPANIES

The Association of British Mining Equipment Companies has appointed *Leslie Reid, C.B.E.*, to be its first Director General. Recently retired from the Diplomatic Service, Mr. Reid's most recent post was as H.M. Consul General in Cleveland, Ohio, covering the consular district of Ohio, West Pennsylvania, Kentucky and West Virginia. In his new position, he will work in conjunction with the Secretaries to ABMEC, Peat, Marwick, Mitchell & Company.

FRICTION MATERIALS STANDARDS INSTITUTE, INC.

Gordon A. Carrigan, of S. K. Wellman Corporation, was elected President of the Friction Materials Standards Institute and *Francis E. Messier*, Automotive Aftermarket Operations, Bendix Corporation, was elected Vice President. The elections took place at a special meeting called because of the earlier resignations of *Ronald R. Moalli* as President and *Ronald L. Cutler* as Vice President. Other FMSI officers include Treasurer—*William F. Messier*, of the Bendix Friction Materials Division, and Secretary—*Edward W. Drislane*, of FMSI.

INSTITUTE FOR RESEARCH AND DEVELOPMENT OF ASBESTOS

New appointments recently announced by the Institute for Research and Development of Asbestos, Sherbrooke, Quebec, include *Dr. Jacques Dunnigan* as Director General and *France Bolduc* as an Administrator, in charge of accounting and various related duties for IRDA. Dr. Dunnigan holds a Ph.D. in biology and had been associated with Sherbrooke University, having been Director of Asbestos Research, Associate Vice Principal for Research and Vice Dean of Research. Mr. Bolduc has 37 years of experience in the asbestos industry, having been Vice President of Nicolet Asbestos Mines Ltd. and most recently in charge of financial management at the Sales Division of Nicolet International Ltd.

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ACL Doc 12734 · Page 34 of 52
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BIRTHDAY GREETINGS to . . .

Ronald L. Cutler, Vice President-Sales, Friction Products Group, Abex Corporation, New York City, July 17.
Harry A. Jensen, President, Armstrong World Industries, Inc., Lancaster, Pennsylvania, July 17.
Alfred Yondola, Vice President and Treasurer, Supradur Manufacturing Corporation, New York City, July 17.
Richard J. Boehm, Manager-Field Personnel Operations, Asarco Inc., New York City, July 18.
W. R. Doughty, Managing Director, Cape Industries Ltd., London, England, July 18.
W. R. Stadelman, President, Ontario Research Foundation, Sheridan Park, Mississauga, Ontario, July 18.
Roy A. Jann, Vice President-Marketing, Raybestos Friction Materials Company, and a Corporate Vice President, Raybestos-Manhattan, Inc., Trumbull, Connecticut, July 19.
Victor L. Persbacker, Vice President-Administration, Abex Corporation, New York City, July 20.
Raymond Chaine, Supervisor, Quality Control, Jeffrey Mine, Johns-Manville Canada, Inc., Asbestos, Quebec, July 21.
William S. Simpson, Chairman of the Board, Raybestos-Manhattan, Inc., Trumbull, Connecticut, July 21.
Robert C. Congdon, Eastern Regional Manager, Carey Canada Inc., Whitehouse Station, New Jersey, July 23.
J. F. Collins, Vice President/Marketing, Union Carbide Corporation, Metals Division, Niagara Falls, New York, July 24.
M. Sanfeliu, Joint Managing Director, Frenos y Embragues S.A., subsidiary of BBA Group Ltd., Barcelona, Spain, July 25.
Richard C. Wareham, President, Special Materials Company, Inc., Milwaukee, Wisconsin, July 26.
Edward J. Day, Manager, Engineering and Technical Services, Division Sales, Johns-Manville Canada Inc., Asbestos, Quebec, July 29.
J. P. Farrell, Chairman—Industrial Contracting and a Director, Cape Industries Ltd., London, England, July 31.
George Sidlo, Manager, Ragland Plant, Cement Asbestos Products Company, Ragland, Alabama, July 31.
W. Horace Beasley, Vice President-Controller, Cement Asbestos Products Company, Birmingham, Alabama, August 1.
B. G. Pewsey, Vice President-Operations, Cassiar Asbestos Corporation Ltd., Vancouver, British Columbia, August 1.
T. A. Dougherty, Vice President-Asbestos and Health, CertainTeed Corporation, Valley Forge, Pennsylvania, August 3.
N. George Belury, President and Chief Executive Officer, Abex Corporation, and Group Vice President-Commercial Products, IC Industries, Inc., New York City, August 4.
Joe B. Cordell, President and Chief Operating Officer, Jim Walter Corporation, Tampa, Florida, August 4.
R. W. Forth, President, Raybestos-Manhattan (Canada) Ltd., Peterborough, Ontario, August 4.
J. P. Gartside, Managing Director, Cape Building Services Ltd., Watford, Hertfordshire, England, August 5.

Asbestos Magazine, 1980, June 1980
ACL Doc 12734 · Page 36 of 52
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R. D. McIntyre-Brown, Managing Director, Cape Automotive Ltd., Biggleswade, England, August 5.

R. E. Byrne, Jr., Domestic Sales Manager-Asbestos, Union Carbide Corporation, Metals Division, Niagara Falls, New York, August 6.

C. G. Morgan, President, Continental Products Corporation, Chicago, Illinois, August 7.

Gerard A. Piche, Vice President and Mine Project Manager, Johns-Manville Canada Inc., Asbestos, Quebec, August 7.

R. C. Braun, Secretary-Treasurer, Niagara Insulations, Inc., Buffalo, New York, August 8.

Dewey E. Childers, Quality Control Manager, Southern Textile Corporation, Charlotte, North Carolina, August 8.

J. L. Myers, Marketing Manager-Asbestos, Union Carbide Corporation, Metals Division, Niagara Falls, New York, August 8.

H. B. E. Stowe, General Manager, Shabanie Mine, Rhodesian & General Asbestos Corporation (Pvt) Ltd., Shabanie, Rhodesia, August 11.

Grant V. Wilson, President, Grant Wilson, Inc., Chicago, Illinois, August 11.

G. A. McCammon, Vice President-Finance, Asbestos Corporation Ltd., Montreal, Quebec, August 12.

Thomas J. Toerner, Marketing Manager, Norristown Division, Nicolet Inc., Norristown, Pennsylvania, August 12.

Gaston Verreault, Production Manager, Lac d'Amiante du Quebec Ltee, Black Lake, Quebec, August 12.

Paul Kotin, M.D., Senior Vice President-Health and Safety and Environment, Johns-Manville Corporation, Denver, Colorado, August 13.

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ANNUAL REPORTS—1979

TURNER & NEWALL LTD.

Turner & Newall Ltd., Manchester, England, operates worldwide through five operating divisions: plastic and industrial materials, automotive components, chemicals, construction materials and mining. Profits were depressed during 1979 by the combined effects of bad weather, the national road haulage dispute and a national engineering strike. The second half of the year bore the revenue costs of starting three major new plants; home and export markets weakened late in the year, particularly for automotive components and some plastics materials; and production of building materials continued to be affected by completion of a restructuring at TAC Construction Materials Ltd.

Group Sales for the year ended December 31, 1979, rose £42.3-million to £591.9-million and *profit after taxation* was £11-million compared with £22-million for the prior year. *Trading profit in the United Kingdom*, at £17.9-million, was £7.4-million below 1978. In contrast, subsidiaries in Europe and overseas improved their combined trading profit from £23.6-million to £24.6-million in 1979, although profit margins in the second half of the year were lower than those earned in the first six months. U.K. interest charges increased sharply in the second half from 12½% to 17% and the net financing charge for 1979, at £14.1-million, was £5.6-million more than in 1978. In addition, persistent increases in prices for oil and other fuels and in wages were not fully recovered by increased selling prices, leading to a £12.2-million fall in profit margins. . . . During the year, Turner & Newall spent £15.9-million on *new capital equipment* at its U.K. factories and £18-million at the overseas companies. The three major expansion projects now on stream in the U.K. are the new polyvinyl chloride resin plant at Aycliffe, the new glass fiber insulation plant at Washington and the building block plant at Alfreton. . . . A major restructuring and re-equipping of asbestos cement plants at Widnes and Erith were essentially completed by year-end. Overseas, the new automotive components plants at Ibadan, Nigeria, and at Tennessee, United States, and new specialty chemical plants in the U.S. and Belgium were commissioned.

Plastics & Industrial Materials—Total sales in 1979 reached £241.7-million compared with £215.2-million in 1978. Trading profit amounted to £12.2-million vs. £12.5-million. In a difficult year, the companies operating in Europe did well to earn trading profits close to those earned in 1978. As large exporters, all three U.K. companies, particularly TBA Industrial Products Ltd., found their export margins under constant pressure as a result of the strengthening sterling exchange rate and increasing continental and U.S. competition. Exports constitute 45% of TBA's sales. Demand for industrial textiles exceeded expectations. Sales of asbestos textiles were augmented by the successful introduction of the Fortaglas and Fortamid ranges of asbestos substitute materials. New equipment has been installed and additional capital investment authorized

Asbestos Magazine, 1980, June 1980
ACL Doc 12734 · Page 38 of 52
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to increase productivity and further improve TBA's high standard of quality and safety in the manufacture of asbestos products.

Automotive Components—1979 sales were £182.6-million against £164.7-million in 1978 and trading profit reached £11.3-million vs. £14.5-million. Original equipment demand from British vehicle manufacturers was at a low level and the U.K. replacement market remained sluggish throughout the year. Profit margins at Ferodo Ltd. were reduced as higher costs could not be adequately recovered in selling prices. Ferodo increased its exports, notably to original equipment customers in West Germany. Several additional European contracts for brake and clutch linings will begin in 1980. Manufacture of brake linings and disc brake pads began at Turners Engineering Products (Nigeria) Ltd. Dull trading conditions in the U.S. resulted in lower profits from Flexitallic Gasket Co. Inc. and Nuturn Corporation. The industrial gasket business improved toward the end of the year but there was no such recovery in the automotive market. Nuturn opened its new plant at Smithville, Tennessee, and acquired the assets of Worldbestos for £1.4-million, thus strengthening its position in the commercial vehicle brake lining market.

Chemicals—Total sales in 1979 amounted to £58.5-million compared with £53.8-million the prior year. Trading profit reached £5.9-million against £6-million.

Construction Materials—1979 total sales increased to £139.3-million from £137.1-million but trading profit fell to £5.2-million from £9-million. Newalls Insulation Co. Ltd. increased sales and positive contributions were made by insulation products composed of calcium silicate and rock fiber. The new glass fiber line was commissioned successfully and is operating close to designed capacity. TAC Construction Materials Ltd.'s sales were 10% below 1978 levels, reflecting the discontinuance of some paper-based products together with a further decline in exports of building materials and pipes, particularly to Nigeria. U.K. sales of asbestos-cement building materials were sustained and sales of non-asbestos products were increased, particularly of Tacboard and Limpet fire protection board and Tacbloc lightweight building block. Turners Building Products Ltd., British Columbia, produced good results and Atlas Turner Inc., Quebec, incurred a loss for the year, closed two unprofitable activities, and commenced the sale of panels to meet a large U.S. contract for cooling towers. Asbestos Cement Ltd., India, achieved a substantial improvement in profits despite difficult labor conditions. In Nigeria, the expected increase in demand in 1979 did not materialize due to the continuation of stringent credit restrictions. Consequently, Turners Building Prod[illegible] (Emene) Ltd. and Turners Building Products (Arewa) Ltd. operated [illegible] capacity. Improved results were reported for Turnall Ltd., S[illegible]th and that company commissioned new equipment for produc[illegible] sheets suitable for low-cost housing. TAP Building Products [illegible] again achieved good results despite depressed economic [illegible]

Mining—Total sales in 1979 rose to £53.9-millio[illegible] £48.1-million reported for the prior year and trading profit [illegible] £6.9-million to £7.9-million. Compared with 1978, asbe[illegible] stronger demand throughout the year, particularly in the

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tries, and the mines controlled by Turner & Newall found a ready market for their entire output, at higher prices. Bell Asbestos Mines Ltd., Quebec, added a third shift and improved efficiency, thereby resulting in an increase of 36% in ore mined. Higher sales into a larger number of markets were achieved and profits increased substantially. Surface installations were further modernized and groundwork was laid for the introduction of new underground mining methods. Havelock Asbestos Mines (Swaziland) Ltd. experienced more difficult mining conditions but recovered well to produce highly creditable profits. Further progress was made with localization of the labor force and improving dust control at the mine. Dublin Consolidated Mines (Pty) Ltd., South Africa, operated satisfactorily and profits rose from mining and tribute income. The company has acquired a 95% interest in a small gold mining firm in the Northern Transvaal which should be operational by the end of 1980. . . . *Zimbabwe Rhodesia*—Now that Rhodesian asbestos fiber is again available to Turner & Newall, the company reports improved ability to meet the demand for some of its products. Consignments of asbestos fiber from the mines in Zimbabwe have already been delivered to T&N factories in the U.K. In addition, the manufacturing firm has added a number of local acquisitions to its construction materials activity, i.e., companies involved in the manufacture and sale of steel tubes and pipes, brake linings and automotive gaskets.

CERTAINTEED CORPORATION

According to the Annual Report of CertainTeed Corporation, Valley Forge, Pennsylvania, *net sales* for the year ended December 31, 1979, showed improvement over 1978 ($916.2-million vs. $895.4-million); however, *income from continuing operations* declined ($23.5-million vs. $54.4-million). . . . During 1979, emphasis was directed toward concluding CertainTeed's three-year, $310-million *capital expansion program*, while concentrating on current business in a period of considerable economic uncertainty. Approximately $100-million of added production capacity was brought on stream, including three important start-up projects; i.e., a third furnace for glass fiber reinforcement production at Wichita Falls, Texas; a second line for the manufacture of glass fiber bonded mat at Athens, Georgia; and a new glass fiber insulation plant at Chowchilla, California. Also, full-scale production of Insul-Safe II (CertainTeed's new, proprietary, blown-in residential insulation product) began at Kansas City, Kansas, and at Athens, Georgia, and a major expansion was completed at the asbestos-cement pipe plant at Hillsboro, Texas. . . . Overall, building materials sales continued on an upward trend. Vinyl siding performed exceptionally well and all-time high volume and profit levels were noted for PVC pipe. A softness in demand early in the year for residential insulation products, primarily related to reinsulation, contributed to lower glass fiber sales.

Asbestos-Cement Pipe Markets—A general softness in asbestos-cement pipe markets occurred during 1979. Bad weather in the Northeast, long-lasting rains in the Southwest and a fiber strike impacting West Coast production also influenced a/c pipe performance. Strength was apparent in the storm drain market, particularly on the West Coast. A vinyl seal-coat

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lining for a/c pressure pipe was made available for the first time. It is used in areas where highly-acidic waters can affect a pipe's structural integrity. Because of shifting markets, the a/c manufacturing facility at St. Louis, Missouri, was closed. Expansion at Hillsboro was completed, doubling the plant's a/c pipe capacity and providing the capability to better service the growing Southwestern market. CertainTeed made inroads in the international marketplace, an area which is expected to represent some 15% of its a/c pipe sales by 1985. To improve service in the export market, a new, economical epoxy lining capability was developed.

An exciting new business for CertainTeed is in the water well markets (farm, irrigation, industrial and municipal). During the first half of 1980, the company will begin full-scale production of its new line of PVC well products. Large diameter irrigation and sewer pipe will open new markets and present other opportunities. PVC pipe is a high-growth market forecast to expand at the rate of 10% per year during the six-year period ending in 1985. Export potential for PVC pipe also is considerable.

ASBESTOS STOCK QUOTATIONS

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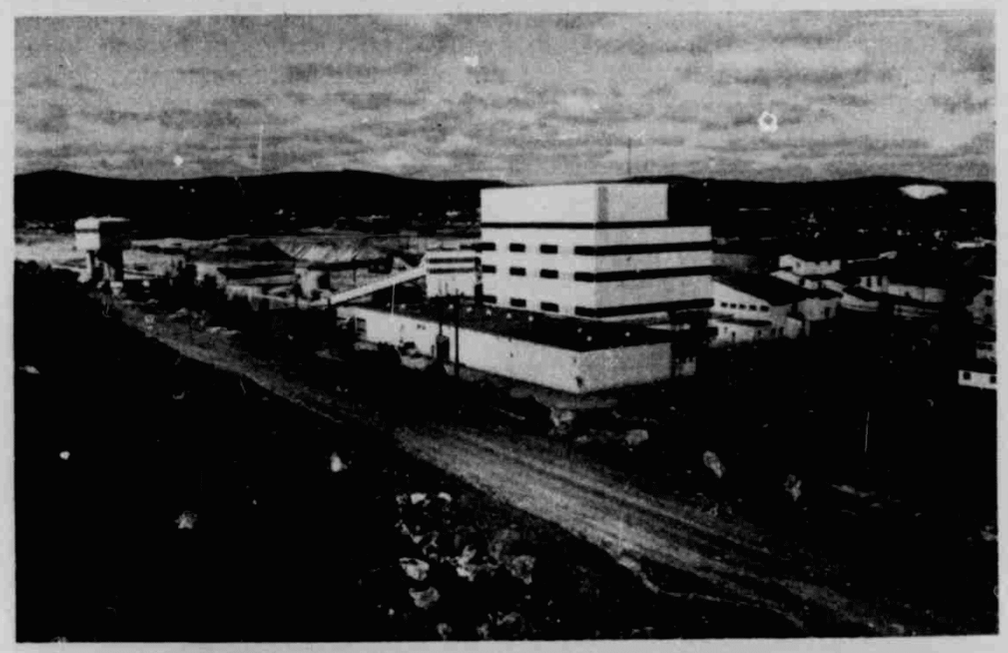
Abitibi Asbestos	C$.90
Advocate Mines	C$1.60
Armstrong World Ind	15
Armstrong (pfd 3.75)	36
Asarco	31
Asbestos Corporation	C$34.25
Bendix	39⅛
Bendix (pfd 3)	37½
Carlisle	23¼
Cassiar Asbestos	C$12.50
CertainTeed	13½
Charter Conso.	pence 148
Colt Industries	39
Colt Ind. (pfd 1.60)	30¼
Colt Ind. (pfd 4.25)	83
Conwest	C$8.50
GAF Corporation	11⅜
GAF (pfd 1.20)	14½
Genstar	23
Genstar (pfd 1.68)	20¾
Gulf & Western	15⅝
G&W (pfd 2.50)	39¾
G&W (Pfd 3.87)	94
G&W (pfd 5.75)	62¾
IC Industries	25¾
IC Ind. (pfd 3.50)	39¼
Johns-Manville	21⅜
J-M (pfd 5.40)	52⅛
Kennecott Copper	25⅞
Lear Siegler	20⅞
Lear Siegler (pfd 2.25)	51⅞
McAdam Mining	C$.63
National Gypsum	21½
Pathfinder	C$.40
Porter, H. K. (pfd 5.50)	66⅝
Raybestos-Manhattan	17¼
Rio Algom	C$28.625
Rio Algom (pfd 5.80)	C$60.50
Supradur	Bid 4¼; Asked 5
Union Carbide	41⅜
United Asbestos	C$5.375
Walter, Jim	30¼
Walter, Jim (pfd 1)	9¼
Walter, Jim (pfd 1.60)	31¾
Woodsreef Minerals	C$.48

We are pleased to welcome THE ASBESTOS GRADING EQUIPMENT CO. S.A. (PTY) LTD., Luipaardsvlei, Republic of South Africa, as a new advertiser—See Page 29.

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ACL Doc 12734 · Page 44 of 52
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U.S. 4,184,906—In the production of laminates, a stack of initially set but incornpletely cured asbestos sheets is formed with polyethylene or other plastic bond there-between, the stack autoclaved to render the plastic bond fluid during completion of curing of the sheets and a compressive load applied to the stack during curing in the direction normal to the bonding film; a layer of metal foil or wire mesh may be included in the stack; J. C. Young; assigned to James Hardie & Coy. Pty. Ltd., January 22, 1980; 5 pages.

U.S. 4,186,065—A blister-free, hole-free diaphragm is prepared by depositing asbestos fibers and resin from an aqueous slurry of an alkali metal hydroxide and alkali metal chloride onto a liquid permeable cathode, heating the deposit while flowing air through it until no entrained water remains and the water-free diaphragm heated to a temperature sufficient to cause the resin to bind the asbestos fibers together; C. R. Dilmore, E. V. Hoover & A. B. Kriss; assigned to PPG Industries, Inc., January 29, 1980; 15 pages.

U.S. 4,186,123—Plastic pipe having good impact strength is made from a mixture of a relatively small percentage of a thermophastic or thermosetting resin and a relatively high percentage of Chrysotile, Amosite or Crocidolite asbestos fibers which have been coated with ethylene glycol or propylene glycol and optionally stearic acid; J. H. Kietzman; assigned to Johns-Manville Corporation, January 29, 1980; 10 pages.

U.S. 4,190,456—In the production of an asbestos fiber product that can be used in asbestos-cement compositions with relative safety during handling and transportation, Chrysotile asbestos is crushed, wet-screened, de-gritted to partially open the fiber bundles, classified into a partially defiberized concentrate, dewatered, contacted with a cationic surfactant, subjected to a complete defiberizing step, diluted to reduce slurry viscosity, classified to further remove deleterious grit, again diluted to induce coagulation of fibers and form stringy fiber agglomerates, again classified to remove grit and short fibers, and dewatered; V. J. Absolon, G. T. Hurst, J. C. Workboys, G. H. Barnett & R. P. Dickson; assigned to ICI Australia Ltd., February 26, 1980; 16 pages.

U.S. 4,190,506—In the production of an asbestos diaphragm for use in an alkali metal chloride electrolysis cell, the asbestos is fluffed with little or no fiber breakage by using a turbo rotary mill, and the fluffed asbestos is deposited on a wire net cathode out of a suspension in sodium hydroxide; N. Kawasaki, N. Yoshida & T. Yoshitugu; assigned to Toyo Soda Manufacturing Co. Ltd., February 26, 1980; 15 pages.

Asbestos Magazine, 1980, June 1980
ACL Doc 12734 · Page 46 of 52
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CALENDAR OF EVENTS

OCCUPATIONAL RESPIRATORY PROTECTION—NIOSH Course #593, Sponsored by the Rocky Mountain Center for Occupational and Environmental Health; *July 7-11* at Las Vegas, Nevada; *August 25-29* at Park City, Utah.

AIR POLLUTION CONTROL EQUIPMENT/OPERATION AND MAINTENANCE—Continuing Engineering Education Course; The George Washington University, Washington, D.C., *July 9-11.*

CURRENT DEVELOPMENTS IN TRADEMARK LAW AND UNFAIR COMPETITION—Seminar of the Practising Law Institute; New York City, *July 9-11.*

SUBSTITUTES FOR ASBESTOS—National Workshop planned by the U.S. Environmental Protection Agency and the U.S. Consumer Product Safety Commission; Arlington, Virginia, *July 14-16.*

SAMPLING AND EVALUATING AIRBORNE ASBESTOS DUST—NIOSH Course #582, sponsored by the Arizona Center for Occupational Safety and Health; Albuquerque, New Mexico, *July 14-17* and *August 18-21.*

COHERENT LASER RADAR FOR ATMOSPHERIC SENSING—Topical Meeting of the Optical Society of America; Aspen, Colorado, *July 15-17.*

NOISE MEASUREMENT—Two courses at the University of Wisconsin-Extension, Madison, Wisconsin: Noise Measurement and Control—*July 21-25;* Advanced Noise and Vibration Measurement and Analysis Techniques—*August 11-15.*

FIRE TRAINING SCHOOL—Basic first-aid fire training course of The Ansul Company at Marinette, Wisconsin; *July 22-24, August 12-14, August 26-28, September 23-25, October 22-24.*

PATENT ANTITRUST—Workshop of the Practising Law Institute; *July 24-25* at New York City; *August 14-15* at San Francisco, California.

ENVIRONMENTAL LAW AND PRACTICE—Seminar presented by the Practising Law Institute; *July 24-25* at San Francisco, California; *August 21-22* at New York City.

DESIGN AND EVALUATION OF INDUSTRIAL VENTILATION SYSTEMS—Course sponsored by the Rocky Mountain Center for Occupational and Environmental Health; Salt Lake City, Utah, *July 28-August 1.*

APPLICATIONS OF X-RAY ANALYSIS—29th Denver Conference of the Denver Research Institute; Denver, Colorado, *August 4-8.*

SOLAR ENERGY AND ENERGY CONSERVATION—Technical Seminar of the U.S. National Bureau of Standards and the National Conference of States on Building Codes and Standards; Denver, Colorado, *August 6.*

AUTOMATION IN MINING, MINERAL AND METAL PROCESSING—3rd Symposium of the International Federation of Automatic Control; Montreal, Quebec, *August 18-20.*

MANUFACTURING ENGINEERING—International Conference organized by the National Committee on Manufacturing Engineering of The Institution of Engineers; Melbourne, Australia, *August 25-27.*

PRODUCTION ENGINEERING RESEARCH—30th General Assembly of the International Institution for Production Engineering Research; *August 28-29* at Melbourne, Australia; *September 1-4* at Sydney, Australia.

Asbestos Magazine, 1980, June 1980
ACL Doc 12734 · Page 48 of 52
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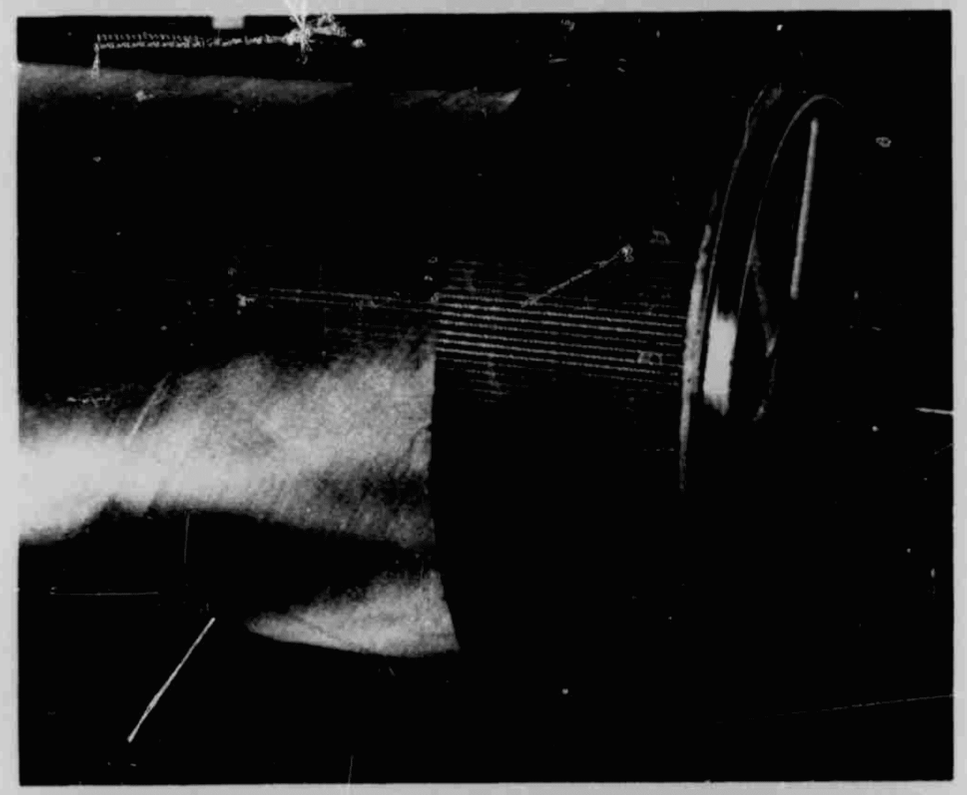
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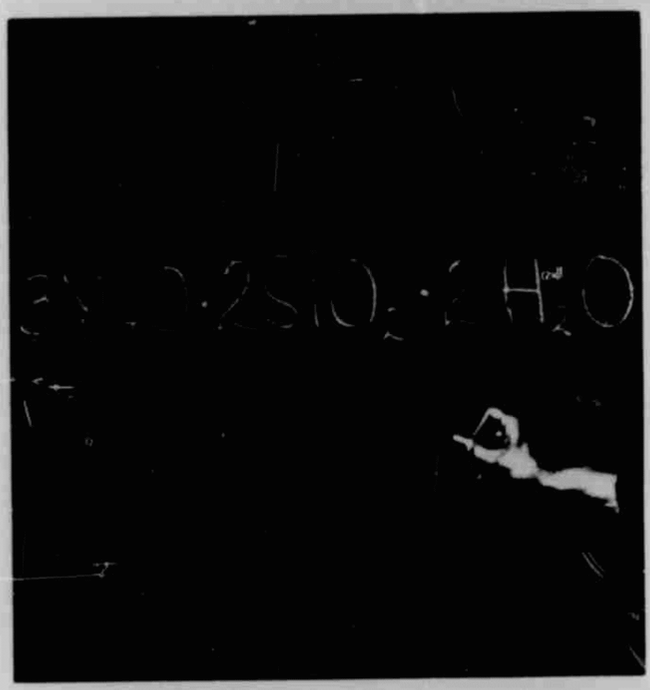
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