PLAINTIFF'S EXHIBIT CSR-395



UP—FROM DOWN UNDER

"Australian Blue" Asbestos comes to America — from below the Tropic of Capricorn

...ep in the rain-starved Great Plateau area of Australia ...quantities of fine high-grade Blue Asbestos. 200 miles of ...il desert challenge its transportation to the sea . . . 200 ...les of sand and heat, to test the mettle of men who mine ...is precious mineral. When trucks are no longer available, ...sty camels — "ships of the desert" — are called into ser... carrying water and food into the mines — returning ... the sea with valuable cargoes of Asbestos. Then begins ... long voyage of 12,000 miles to America, where this fine "Australian Blue" is used in a large measure in war production.

* * * * *

In spite of the tremendous hardships and problems of transportation vital raw Asbestos is brought to America by Asbestos Limited Inc., the only company in America that specializes in the supply of raw Asbestos from every known source . . . to provide the right type of Asbestos for every specific need—for American Industry and Victory!

If you are manufacturing for war purposes, possibly we can assist you to conserve asbestos...and to obtain better results. Your inquiries will receive our prompt attention.

PLAINTIFF'S EXHIBIT 10546-0

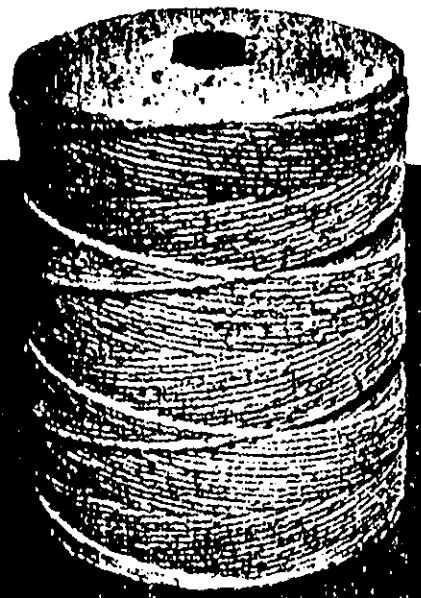
ASBESTOS LIMITED INC.

8 WEST 40th STREET, NEW YORK, N. Y. . . . JOHANNESBURG, SOUTH AFRICA . . . WORKS: MILLINGTON, NEW JERSEY

EVERY TYPE OF RAW ASBESTOS CARRIED IN STOCK: ARIZONA • AUSTRALIAN • BOLIVIAN • CANADIAN • CHINESE • CYPRUS • INDIAN • RHODESIAN • RUSSIAN • SOUTH AFRICAN BLUE AND YELLOW

Manufacturers of *Asbestos Cement Board and Cyprus Asbestos Siding* . . . Creators and exclusive manufacturers of *New Era Insulation*, lightest rigid insulation for all temperatures

SOUTHERN ASBESTOS



YARNS

Southern produces fine and heavy Asbestos Yarns in various grades of tensile strength and uniformity. Whatever their use, Southern Asbestos Yarns maintain high quality standards. High tenacity Asbestos Yarns are a Southern specialty. Yarns may be treated with various compounds for a wide range of uses. Write for Folder No. 1011.

A COMPLETE LINE OF ASBESTOS TEXTILE PRODUCTS

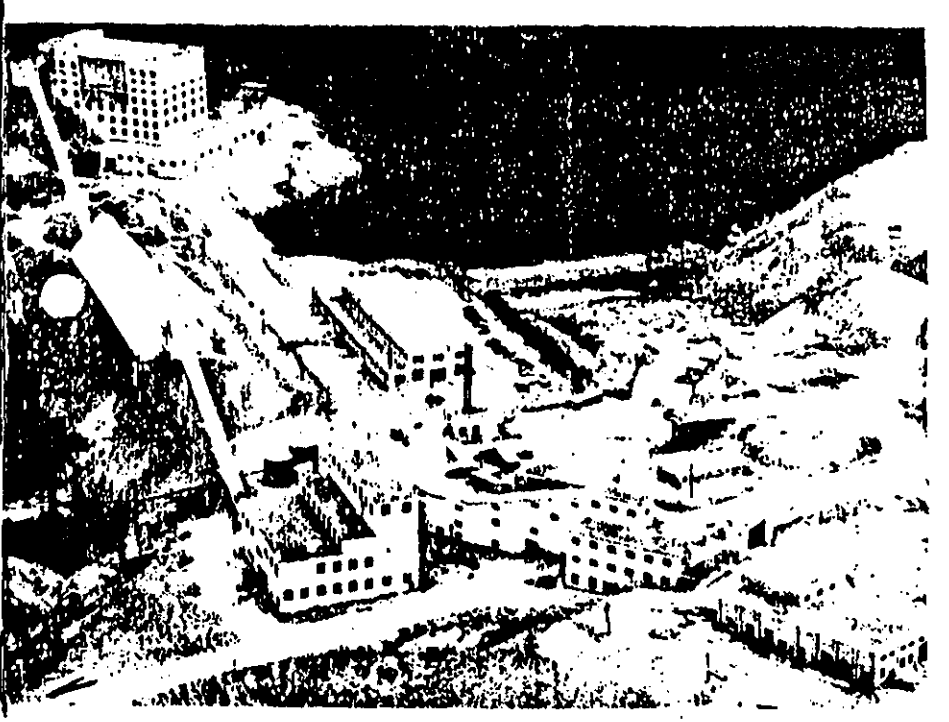
THREAD • CORD • CLOTH • ROPE
ROVING • TUBING
CARDED FIBRE • LISTING TAPE
WICKING AND OIL BURNER WICK

Southern's technical and production facilities are available to develop new and improve old uses for asbestos fibres and textiles. Over 25 years of combined specialized experience is at your service.

SOUTHERN ASBESTOS COMPANY • CHARLOTTE 1, N. C.

(1)

• ASBESTOS



Johnson's Asbestos Company's plant, Black Lake, P. Q., Canada

NOVEMBER 1954

P-454
6-9-93

PLAINTIFF'S EXHIBIT
10546.0

Exports From Canada

(Published by Dominion Bureau of Statistics)

	August 1954 Tons (2000 lbs.)	Value
Unmanufactured Asbestos:		
Crude		
United States	17	$ 23,231
United Kingdom	...	....
South America	..	..
Central America & Mexico	....	....
European Countries	22	19,713
Other Countries	....	....
	39	$ 42,944
Milled		
United States	11,513	$1,823,672
United Kingdom	2,261	484,668
South America	2,282	418,012
Central America & Mexico	275	40,870
European Countries	6,085	1,078,372
Other Countries	2,917	470,361
	25,333	$4,315,955
Shorts		
United States	42,956	$2,034,006
United Kingdom	2,070	84,771
South America	764	56,678
Central America & Mexico	30	1,242
European Countries	2,824	187,248
Other Countries	514	39,216
	49,158	$2,403,161
Grand Total—Unmanufactured Asbestos	74,530	$6,762,060
Manufactured Asbestos Goods:		
Brake Lining		$ 37,101
Packing		1,716
Other Materials		86,106
		$ 123,923

THE RUBEROID CO.
New Appointment

Robert R. Heiges has recently been appointed sales manager of the company's newly formed gypsum division.

Mr. Heiges has spent all of his working career as a sales executive in the building materials business. In his new position he will have charge of sales of all gypsum products made by the company with headquarters at Ruberoid's executive offices in New York City.

CSR

THE COLONIAL SUGAR REFINING CO. LTD.
SYDNEY, AUSTRALIA

Sole Distributors for
AUSTRALIAN BLUE ASBESTOS LIMITED, PRODUCERS OF AUSTRALIAN RAW BLUE ASBESTOS. MINES AT WITTENOOM, W.A.

SOLE SELLING AGENTS

Argentine, Belgium, Brazil, Denmark, France, Egypt, Great Britain, Holland, India, Italy, Norway, Pakistan, Portugal, Spain, Sweden, Switzerland. — Minerals Fibres Ltd., Market Buildings, Mark Lane, LONDON.

Austria, Czechoslovakia, Germany, Hungary, Japan, Poland, Yugoslavia. — Carters (Merchants) Ltd., Winchester House, Old Broad St., LONDON.

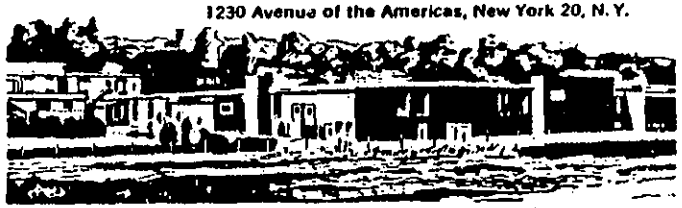
Australian Blue is an ideal fibre for asbestos cement and for purposes requiring good heat insulation and acid resistance. It possesses excellent spinning properties. Samples are available upon request.

ASBESTOS TEXTILES

US RUBBER

are manufactured in our own modern plant at Stark Mills, Hogansville, Ga. Spinning and weaving operations are closely controlled for maximum uniformity in asbestos yarns, fabrics and tapes. Specialties developed to meet customers' requirements.

Write: Asbeston® Dept., Textile Division
UNITED STATES RUBBER COMPANY
1230 Avenue of the Americas, New York 20, N.Y.



P-454 (2)

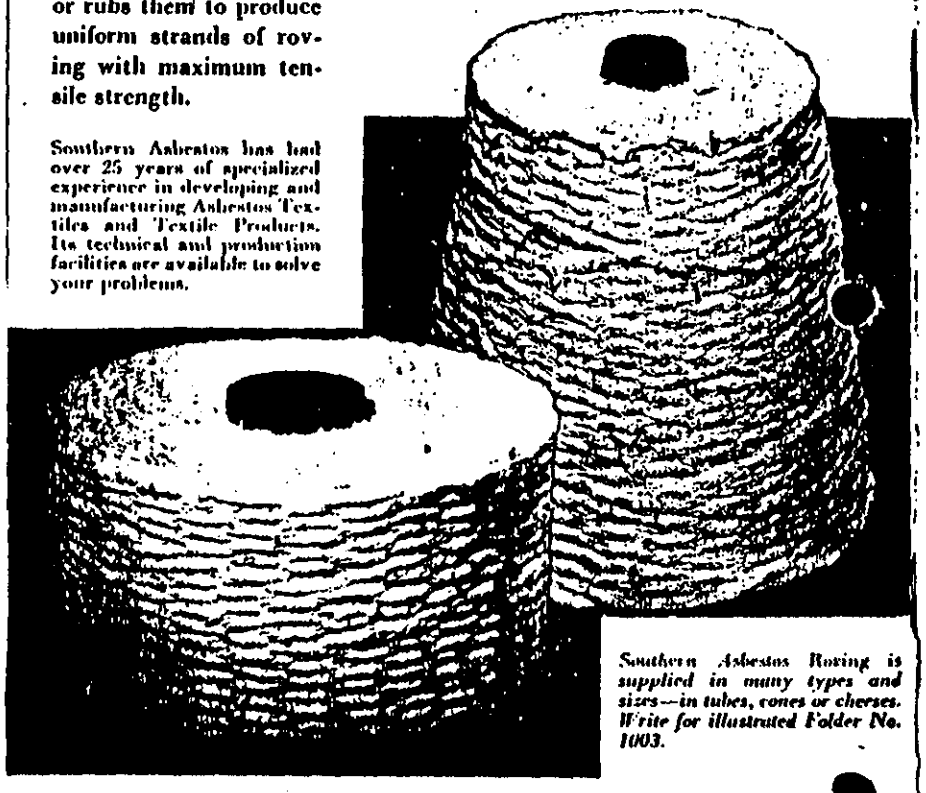
SOUTHERN ASBESTOS

ROVING

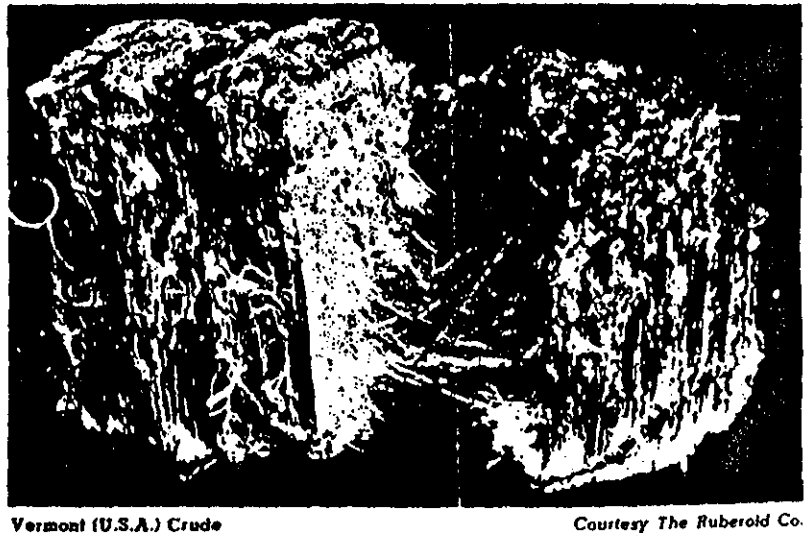
ASBESTOS

Southern Asbestos Roving—a single cord of untwisted asbestos fibre—is widely used to flame-proof many types of electrical wires and cables. Carefully selecting the proper fibres, Southern cards them and condenses or rubs them to produce uniform strands of roving with maximum tensile strength.

Southern Asbestos has had over 25 years of specialized experience in developing and manufacturing Asbestos Textiles and Textile Products. Its technical and production facilities are available to solve your problems.



Southern Asbestos Roving is supplied in many types and sizes—in tubes, cones or cheeses. Write for illustrated Folder No. 1003.



Vermont (U.S.A.) Crude — *Courtesy The Ruberoid Co.*

JANUARY 1957

A COMPLETE LINE OF ASBESTOS TEXTILE PRODUCTS

THREAD • CORD • CLOTH • ROPE • YARNS • CARDED FIBRE
TUBING • LISTING TAPE • WICKING AND OIL BURNER WICK

SOUTHERN ASBESTOS COMPANY • CHARLOTTE 1, N. C.

P-455
6-9-93

PLAINTIFF'S EXHIBIT
10546.0

AUTOMOBILE SALES

	October 1956
Passenger Cars	352,140
Motor Trucks	92,684
Motor Coaches	298
	445,122

In October 1955, a total of 601,256 motor vehicles were sold. In the ten months of 1956 the total was 5,552,663.

These figures were supplied by the Automobile Manufacturers Association, New Center Building, Detroit, Michigan.

„Tropag"
ASBEST- & ERZIMPORT OSCAR H. RITTER K. G.
Hamburg · — · Ballindamm 7
Importers since 1909 of
ASBESTOS - ORES - MINERALS

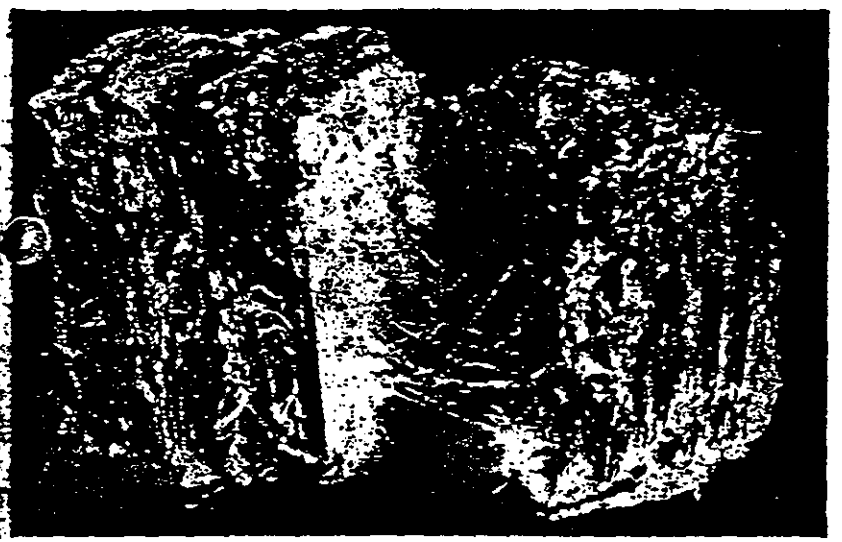
Complete Plants for making
ASBESTOS CEMENT PIPES
Socketed and Non-socketed
Precision Steel Mandrels
Plants for Making Sheets, Small Cement Plants
Plants designed, equipped and financed.
ASBESTOS CEMENT ENGINEERING CO.
Hauptstrasse 26
VADUZ-LIECHTENSTEIN (Switzerland)
P.O. Box 444.72

METRO ASBESTOS PROCESSORS LIMITED
South Porcupine, Ont., Canada
PRODUCERS OF
RAW ASBESTOS FIBRES
Trade Inquiries Solicited to:
EXCLUSIVE SALES AGENT
LOMA INDUSTRIAL PRODUCTS LTD.
4 Richmond St., East Toronto, Ont.
CABLE ADDRESS: LIPCO TEL.: EM 2-1681

THE COLONIAL SUGAR REFINING CO. LTD.
SYDNEY, AUSTRALIA
Sole Distributors for
AUSTRALIAN BLUE ASBESTOS LIMITED
MINES AT WITTENOOM, W.A.
SOLE SELLING AGENTS
● Minerals Fibres Ltd., Market Buildings, Mark Lane, London
Argentine, Belgium, Brazil, Chile, China, Colombia, Denmark, France, Egypt, Formosa, Great Britain, Holland, India, Israel, Italy, Mexico, Norway, Pakistan, Peru, Philippines, Portugal, Spain, Sweden, Switzerland, Thailand, Turkey, Uruguay, Venezuela.
● Carters (Merchants) Ltd., Winchester House, Old Broad St., London
Austria, Czechoslovakia, Germany, Hungary, Japan, Poland, U.S.S.R., Yugoslavia.
Australian Blue is an ideal fibre for asbestos cement and for purposes requiring good heat insulation and acid resistance. It has excellent spinning properties. Samples are available on request.

R-455 (2)

ASBESTOS



Vermont (U.S.A.) Crude *Courtesy The Ruberoid Co.*

MAY 1959

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6-9-93
PLAINTIFF'S EXHIBIT
10546

PRODUCTION-STATISTICS

CANADA
(Dept. of Mines, Province of Quebec)
Tons 2,000 lbs.

Production for February 1959 (Quebec)	55,832
Other Provinces	4,252
	60,084

Total production for February 1958 was 53,949 tons.

AFRICA (Rhodesia)
(Published by Rhodesia Chamber of Mines)
Tons 2,000 lbs.

Production for December 1958	9,885.99 tons
Valued at	£ 659,093
Production for December 1957	12,375.75 tons
Valued at	£ 814,396
Production for 1958	127,115.18 tons
Valued at	£8,593,726
Production for 1957	132,124.01 tons
Valued at	£9,016,388

AUSTRALIA—STATISTICS
(Published by Bureau of Mineral Resources)
Tons 2,240 lbs.

	Quarter Ending September 30, 1958
Production	
Chrysotile	429
Crocidolite	4,272
	4,701
Imports	
Amosite	3,416
Chrysotile	8,992
Crocidolite	..
Other	232
	12,640
Exports	
Chrysotile	..
Crocidolite	1,291
Other	25
	1,316

Australian Blue Asbestos Limited



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SOLE SELLING AGENTS

Minerals Fibres Ltd., Market Buildings, Mark Lane, London.
Argentine, Belgium, Brazil, Chile, Columbia, Denmark, France and French Morocco, Egypt, Eire, Great Britain, Holland, India, Israel, Italy, Mexico, Norway, Pakistan, Peru, Portugal and Portuguese Africa, Spain, Sweden, Switzerland, Turkey, Uganda, Uruguay, Venezuela.

Carters (Merchants) Ltd., Winchester House, Old Broad St., London.
Austria, Czechoslovakia, Germany, Hungary, Japan, Poland, U.S.S.R., Yugoslavia.

In Australia, address inquiries to:—
AUSTRALIAN BLUE ASBESTOS LTD.,
89 St. George's Terrace, Perth, Western Australia.

P-456 (2)

Exports From Canada

(Published by Dominion Bureau of Statistics)

	August 1954 Tons (2000 lbs.)	Value
Unmanufactured Asbestos:		
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South America		
Central America & Mexico		....
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Other Countries	...	....
	39	$ 42,944
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Austria, Czechoslovakia, Germany, Hungary, Japan, Poland, Yugoslavia. — Centers (Merchants) Ltd., Winchester House, Old Broad St., LONDON.

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Write: Asbeston® Dept., Textile Division
UNITED STATES RUBBER COMPANY
1230 Avenue of the Americas, New York 20, N. Y.



PLAINTIFF'S EXHIBIT 10546.0

Imports of Asbestos by United Kingdom

Raw Materials

	October 1954 Tons (2240 lbs.)
From: Union of South Africa	731
Southern Rhodesia	1,113
Basutoland, Bechuanaland & Swaziland	317
Canada	5,715
Other Commonwealth Countries and the Irish Republic	2
Foreign Countries	29
	7,907

These figures were supplied by the Mining Journal Limited of London.

ASBESTOS ASPHALT INSULATION, INC.

Daniel S. McGuire is the new President of Asbestos Asphalt Insulation, Inc. of Chicago. *Frank C. LaRue* remains as Executive Vice President and *T. M. Thorsen* is Comptroller.

Over thirty years distributing and applying Asbestos, Asphalt, Roofing and Insulation Products, contractors for Pipe and Boiler Coverings that or cold lines in volume running several millions of dollars, this company is located at 2300 Fullerton Avenue and serves the central Midwest states.

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Austria, Czechoslovakia, Germany, Hungary, Japan, Poland, Yugoslavia. — Canters (Merchants) Ltd., Winchester House, Old Broad St., LONDON.

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Complete Plants for making Asbestos Cement Pipes
Socketed and Non-socketed.
Automatic Pipe Testing Machines — Precision Steel Mandrels
Plants for making Sheets.
Plants designed, equipped and financed
ASBESTOS CEMENT ENGINEERING CO. S. a r. l.
Viale Misurata, 10 Milan, Italy
Agents for overseas:
WIPOLEX, 71 Lincolns Inn Fields, London, W.C.2

KINLOCH ASBESTOS
(PROPRIETARY) LIMITED
The largest exporters of Chrysotile Fibre mined in the Union of South Africa
BARBERTON, STOLTZBURG AND DOVERSHOEK
CHRYSOTILE ASBESTOS MINES
Loveday House Cables
P.O. Box 1964, Johannesburg "CHRYSOTILE," Johannesburg

» ATLANTA «
Allgemeine Handelsgesellschaft m.b.H.
BREMEN BREITENWEG 25
Importers of
RAW - ASBESTOS

ACE ASBESTOS MANUFACTURING CO.
Importers, Exporters, Processors of All Varieties of
RAW ASBESTOS
for
Every Use
451 COMMUNIPAW AVE. JERSEY CITY, N. J.

Asbestos Brake Lining. Replacement business seems to be booming in most parts of the country. However, it is slow in the southeast for the first quarter. National averages show increase over the first quarter of last year. Replacement market for this year should exceed both 1953 and 1954 and equipment should be close to record of 1953.

Asbestos Paper. The demand for paper has improved but competition is keen. There is little change in the *Millboard* market but it continues to be competitive for the volume that is available. Production still exceeds demand for *saturated paper* but demand is expected to increase with the roofing season now on.

Insulation. High Pressure. Orders for this material are very slow at present, although a large volume of commercial work is being figured now. However, the pattern of intense competition among all construction sub-contractors continues. Practically all sizable jobs are being taken at very little or no markup. There is a temporary reduction in volume of industrial work to be bid.

Insulation. Low Pressure. There has been a slight pick-up in demand with the coming of better weather.

Asbestos Cement Products. This market is seasonally strong and about as steady as this time last year.

For March and April roofing and siding reflected favorable increase over the same period for last year.

Although production exceeds demand for corrugated and flat there is a slight improvement which is termed as "seasonal".

The Pressure and Sewer Pipe Markets continue strong. House pipes and Electrical Conduits are feeling the effects of the increased seasonal demand.

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

CAN OFFER LIMITED QUANTITY FIBER DISCOUNT ON MINE PRICE

WRITE FOR DETAILS

Address Box 58-S, "ASBESTOS," 407 Western Saving Fund Bldg., Phila. 7, Pa.

INDUSTRIAL SERVICE COMPANY

Builders of

ASBESTOS CEMENT MACHINERY

Our experienced engineers and machinists offer the industry entire machines built to deliver maximum production.

Your Inquiries Are Invited

1-51 Paterson Avenue **E. Rutherford, N. J.**

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Austria, Czechoslovakia, Germany, Hungary, Japan, Poland, Yugoslavia. — **Carters (Merchants) Ltd., Winchester House, Old Broad St., LONDON.**

***Australian Blue** is an ideal fibre for asbestos cement and for purposes requiring good heat insulation and acid resistance. It possesses excellent spinning properties. Samples are available upon request.*

CANADA'S ASBESTOS GOODS 1953

The Asbestos Products Industry, 1953, a seven page folder issued recently by the Dominion Bureau of Statics at Ottawa, gives various statistics concerning Canada's asbestos manufacturing industry. Briefly a few figures are of special interest: factory shipments by the manufacturers of asbestos goods in Canada in 1953 were valued at $22,030,972.

Divided as to products these figures will be of more than usual interest:

	1953 Quantity	1953 Selling At Works Value	1952 Quantity	1952 Selling At Works Value
Asbestos Brake Linings				
Molded	Ft.	$3,073,335		$ 2,918,294
Other	Ft.	399,553		430,237
Asbestos Pipe and Boiler Coverings		1,586,667		1,668,880
Asbestos Clutch Facings	No. 1,023,551	551,574	1,070,689	597,019
Asbestos Gaskets		88,451		79,537
Asbestos Packings (All kinds)		525,084		1,009,451
All Other Products †		15,886,308		12,935,142
		$22,030,972		$19,638,570

†Includes asbestos dryer felt, hydraulic hose, asbestos shingles, asbestos yarn, asbestos millboard, asbestos cement wallboard, asbestos cloth, asbestos cement pipe, etc. Figures for these commodities cannot be shown separately as in most cases there were only one or two producers in this industry.

	1953	1952
Number of Plants	18	17
Average Number of Employees	1,930	1,826
Salaries and Wages	$6,223,824	$5,448,895
Cost of Fuel & Elec. at Works	557,589	$35,910
Cost of Materials at Works	10,363,034	9,306,930
Gross Selling Value of Products	22,030,972	19,638,570

Of the 18 factories reporting in 1953, 7 were located in Quebec, 8 in Ontario, 1 in Nova Scotia and 2 in British Columbia.

Other tables, concerning imports, exports, materials used in the Asbestos Products Industry, etc., are included in the pamphlet which may be obtained from the Industry and Merchandising Division at Ottawa for 25c. Ask for "The Asbestos Products Industry - 1954".

Creator of "Hector", the asbestos producer, Gerhard Brinkmann, the new Canadian cartoonist received national recognition during April.

Featured in a two-page spread of cartoons in WEEKEND Magazine which has a circulation of over a million copies, Brinkmann's work in the asbestos country was noted by the editors. "Today, an advertising illustrator who has had several books of cartoons published, Brinkmann lives in Granby, Quebec, from where he sets out to seek new cartoon ideas in asbestos mines, department stores and factories," the WEEKEND editor reported.

(From Asbestos Producer, April 1955)

CSR

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Exports From U. S. A.

(Figures by Bureau of Census)

	April 1955	
	Tons (2240 lbs.)	Value
Unmanufactured Asbestos.		
To: Europe	125	$14,509

Manufactured Asbestos Goods:	April 1955	
	Quantity	Value
Asbestos Pipe Covg & Cement	Lbs. 353,963	$ 47,845
Asbestos Textiles & Yarn	Lbs. 70,835	66,599
Asbestos Packing	Lbs. 112,886	128,166
Asbestos Clutch Facings & Linings	No. 118,373	87,865
Asb. Bk. Lng. (Mld. & S. Mld.)	Lin. Ft. 151,892	40,464
Asbestos Bk. Lng. Rolls (Woven)	Lin. Ft. 44,888	30,821
Asbestos Bk. Lng.—Other	Lbs. 414,519	365,112
Asbestos Construction Materials	Lbs. 3,298,633	311,484
Asbestos Manufactures—Others		37,568
		$1,114,214

CSR

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UNION ASBESTOS & RUBBER CO.
25-YEAR CLUB

Twenty-three of the 26 members of the Union Asbestos and Rubber Company's 25-Year Club attended the club's annual dinner meeting at the Sheraton-Blackstone Hotel, Chicago on October 14. Club members have a total of 745 years service.

Four new members, inducted into the club and presented with watches, were *Miss Adeline Freimuth*, secretary to the sales manager of the Heating and Cooling Division; *Arthur K. Engelland*, cost accountant at the Blue Island plant; *George A. Novak*, plant manager of the Bloomington, Illinois, plant; and *John J. Frazer*, supervisor of the packing department, Bloomington.

Diamond studded membership pins were presented to six members with more than 30 years service. They included *Louis Stein, Adolph Titz, Miss Florence Smith, Joseph Welding, John Tietz, John S. Lunsrall and Charles L. Moorman.*

CURRENT RANGE OF PRICE

As of November 10, 1955

	Per Ton of 2,000 lbs., f.o.b. Globe, Arizona	
Arizona—		
No. 1 Crude (soft)	$1,500.00 to	$1,750.00
No. 2 Crude (soft)	900.00 to	1,050.00
No. 3 Crude (soft)	400.00 to	450.00
Filter Fibre (soft)	250.00 to	450.00
No. 1 Crude (semi-soft)	1,200 to	1,500.00
No. 2 Crude (semi-soft)	900.00	
No. 3 Crude (semi-soft)	400.00	
Canada—	**Per Ton 2000 lbs. f.o.b. Mine**	
Group No. 1 (Crude No. 1)	$1,100.00 to	$1,500.00
Group No. 2 (Crude No. 2; Crude Run-of-Mine and Sundry	600.00 to	1,000.00
Group No. 3 (Spinning Fibre)	300.00 to	525.00
Group No. 4 (Shingle Fibre)	150.00 to	200.00
Group No. 5 (Paper Fibre)	100.00 to	140.00
Group No. 6 (Waste, Stucco or Plaster)		77.00
Group No. 7 (Refuse or Shorts)	35.00 to	70.00
Vermont— Per Ton of 2000 lbs. f.o.b. Hyde Park or Morrisville, Vt.		
Group No. 3 (Spinning & Filtering)	$ 321.00 to $	348.00
Group No. 4 (Shingle Fibre)	156.00 to	173.00
Group No. 5 (Paper Fibre)	109.00 to	132.00
Group No. 6 (Waste, Stucco or Plaster)		77.00
Group No. 7 (Refuse or Shorts)	37.00 to	61.50

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Australian Blue is an ideal fibre for asbestos cement and for purposes requiring good heat insulation and acid resistance. It possesses excellent spinning properties. Samples are available upon request.

Asbestos Shingles (Not Impreg.)			
	Canada	940,510	97,691
	Mexico	328,540	16,902
	Italy	1,772,404	65,641
	Other Countries	122,098	5,374
Asbestos Manufactures—Others			267
		3,387,491	$228,789

Exports From U. S. A.

(Figures by Bureau of Census)

Unmanufactured Asbestos:

	September 1955	
	Tons (2240 lbs.)	Value
To: Europe	114	$12,816
Mexico	31	4,995
South America	23	1,803
Other Countries	69	6,410
	237	$26,124

Manufactured Asbestos Goods:

		September 1955	
		Quantity	Value
Asbestos Pipe Covg & Cement	Lbs.	301,505	$ 33,334
Asbestos Textiles & Yarn	Lbs.	56,953	70,051
Asbestos Packing	Lbs.	116,541	126,011
Asbestos Clutch Facings	No.	142,214	101,671
Asb.Bk. Lng. (Mld. & S. Mld.)	Lin. Ft.	120,910	49,014
Asbestos Bk. Lining Rolls	Lin. Ft.	19,535	16,110
Asbestos Bk. Lining—Other	Lbs.	373,533	319,726
Asbestos Construction Materials	Lbs.	3,052,194	271,857
Asbestos Manufactures—Others			35,272
			$1,023,046

SWEDISH CEMENT OUTPUT

The Swedish cement industry's capacity has increased from 1,100,000 tons to 2,500,000 tons a year in the period 1939/1955, according to the secretary of the Swedish Cement Sales Company.

Consumption during the last decade has increased by six to seven per cent annually. About 300,000 tons of the current production is exported. By 1957 the total annual capacity is expected to be 3,000,000 tons.

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ADVOCATE MINES — NEWFOUNDLAND

The latest news of the Newfoundland mining scene was the major asbestos discovery of Advocate Mines. The find was made in Advocates huge concession (1,675 square miles) on the Burlington Peninsula up north.

Drilling already has shown an estimated sixty-five thousand tons per vertical foot. Advocate says this is based on dimensions of approximately 2,500 feet in length, still open at both ends and a width of around two hundred and eighty-five feet. Officials seem highly optimistic of a sizeable operation based on this find and two others which lead them to believe that a whole new asbestos field has been uncovered. The news caused a flurry of excitement in Nefoundland mining circles.

(From Canadian Mining Journal)

CURRENT RANGE OF PRICE

As of September 10, 1956

Arizona—	Per Ton of 2,000 lbs., f.o.b. Globe, Arizona	
No. 1 Crude (soft)	$1,500.00 to	$1,750.00
No. 2 Crude (soft)	900.00 to	1,050.00
No. 3 Crude (soft)	400.00 to	450.00
Filter Fibre (soft)	250.00 to	450.00
No. 1 Crude (semi-soft)	1,200.00 to	1,500.00
No. 2 Crude (semi-soft)	900.00	
No. 3 Crude (semi soft)	400.00	

Canada—	Per Ton 2000 lbs. f.o.b. Mine	
Group No. 1 (Crude No. 1)	$1,400.00 to	$1,725.00
Group No. 2 Crude No. 2; Crude Run-of-Mine and Sundry	750.00 to	1,100.00
Group No. 3 (Spining Fibre)	350.00 to	575.00
Group No. 4 (Shingle Fibre)	170.00 to	225.00
Group No. 5 (Paper Fibre)	110.00 to	140.00
Group No. 6 (Waste, Stucco or Plaster)		$2.00
Group No. 7 (Refuse or Shorts)	33.00 to	75.00

Vermont— Per Ton of 2000 lbs. f.o.b. Hyde Park or Morrisville, Vt.		
Group No. 3 (Spinning & Filtering)	$ 253.00 to	$ 333.00
Group No. 4 (Shingle Fibre)	172.00 to	199.00
Group No. 5 (Paper Fibre)	116.00 to	145.00
Group No. 6 (Waste, Stucco or Plaster)		$2.00
Group No. 7 (Refuse or Shorts)	39.00 to	72.00



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CAPE ASBESTOS ISSUES SECOND EDITION OF BRAKE & CLUTCH LINING BOOKLET

A second edition of the "Capasco" brochure giving details of this well-known range of moulded brake and clutch linings has just been issued by the manufacturers, The Cape Asbestos Company Ltd. of London, England.

The second edition contains for the first time a section headed "Recommended Method of Brake Shoe Re-lining with Capasco" to enable users to obtain the maximum performance in-built into Capasco friction materials.

Two pages of photographs give a selection of leading manufacturers who fit Capasco moulded materials as original equipment, including the London Transport Executive, Commer Cars Ltd., The Austin Motor Company Ltd., Bristol Commercial Vehicles Ltd., Transport Vehicles (Daimler) Ltd., The Ford Motor Co., Ltd., and the Group represented by Albion Motors Ltd., Leyland Motors Ltd., Scammell Lorries Ltd., A. E. C. Ltd., and a number of continental chassis manufacturers.

THE FLINTKOTE COMPANY
Third Quarter Report

The Flintkote Company and subsidiaries reported for the third quarter a consolidated net income of $1,779,759, equal after preferred dividend requirements to $1.21 per share on 1,419,331 shares of common stock outstanding. This compares with net income of $1,570,760, or $1.06 per common share (based on current outstanding shares) for the corresponding period last year.

Net sales for the third quarter this year rose to $28,570,403 from $26,688,393 in the third period last year. Provision for U. S. and Canadian income taxes amounted to $1,716,626 against $1,591,715.

For the first three quarters this year, net income amounted to $3,953,557, equal after preferred dividend requirements to $2.70 per common share, compared with $3,961,528, or $2.62 per share for the corresponding 1955 period. Net sales amounted to $81,900,230 compared with $79,620,610 for the corresponding period last year. Provisions for U. S. and Canadian income taxes for this period amounted to $4,059,764 against $4,012,685 in the 1955 period.

A. S. T. M.

Copies of the Edward Marburg Lecture, "A Technology for the Analysis, Design, and Use of Textile Structures as Engineering Materials," by Walter J. Hamburger, which was presented at the 1955 Annual Meeting of the American Society for Testing Materials, are now available. Copies may be obtained from the American Society for Testing Materials, 1916 Race Street, Philadelphia 3, Pa., at $1.50 each

UNITED STATES RUBBER COMPANY
Nine Months Report

Net profit for United States Rubber Co. was $23,453,685, equivalent to $3.61 a share of common stock for the first nine months of 1956, according to the report issued recently to stockholders.

Net profit for the same period last year was $22,390,561, equivalent to $3.40 a share of common stock after deducting hurricane flood losses amounting to $5,090,285 or 94 cents a share. These earnings figures are based on total shares outstanding after a 2 per cent stock dividend paid last December.

Net sales for the nine-month period were $675,147,998, compared with $688,775,628 for the same period last year. Net profit was equivalent to 3.5 per cent of sales compared with 3.2 per cent in 1955.

Net sales for the third quarter of 1956 were $211,052,544, compared with $231,726,559 for the same period in 1955. Net profit for the quarter was $4,794,579, equivalent to 64 cents a share of common stock. Net profit for the same period of 1955 was $3,285,395 or 37 cents a share of common stock after deducting flood loses.

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Australian Blue is an ideal fibre for asbestos cement add for purposes requiring good heat insulation and acid resistance. It possesses excellent spinning properties. Samples are available upon request.

AUTOMOBILE SALES

	October 1956
Passenger Cars	352,140
Motor Trucks	92,684
Motor Coaches	298
	445,122

In October 1955, a total of 601,256 motor vehicles were sold. In the ten months of 1956 the total was 5,552,663.

These figures were supplied by the Automobile Manufacturers Association, New Center Building, Detroit, Michigan.

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A new line of asbestos fibre gasketing materials made by the Industrial Division of the Armstrong Cork Company of Lancaster, Pa., has unusual flexibility characteristics. A 1/32-inch sheet of the new "Accopac" asbestos fibre compound will withstand sharp bending around a pencil without piping or cracking. Manufactured by a patented "center-saturation" process, the new gasket compositions are available in several types of rubber binders, can be supplied as roll goods, sheets, or die-cut parts.

To enjoy the lowest net cost of Asbestos Fibre, obtain highest price for your empty burlap asbestos bags by selling them to
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154 Nassau Street
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RHODESIAN CHRYSOTILE ASBESTOS
regular supplies of long Spinning Grades, Filter Grades, shorter Grades (comparable 5T and 9Z)
Affiliate: A. J. Hollander (Rhod) (Pvt), Ltd.
Bulawayo, Rhodesia.

Trade-in housing, a currently much discussed topic among home builders and realtors, is the subject of a new copyrighted booklet just published by National Gypsum Company, 325 Delaware Avenue, Buffalo 2, N.Y.

After pointing to some of the strengths of the housing industry, National Gypsum in a foreword to the booklet, says the industry "has been slow to master the sales and promotional techniques commonplace in other consumer industries. As compared with the hard driving automotive industry . . . housing gets a disproportionately small share of the American consumer's dollar."

Roofing shingles of asbestos-cement can be identified by their rigidity. Their stonelike nature enables them to hug the roof even in high windstorms. Because it is difficult for the wind to get under them, they are difficult to dislodge.

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regular supplies of long Spinning Grades, Filter Grades, shorter Grades (comparable 3T and 3Z)

Affiliate: A. J. Hollander (Rhod) (Pvt), Ltd.
Bulawayo, Rhodesia.

PRODUCTION STATISTICS

Canada
(Department of Mines, Province of Quebec)

Tons 2,000 lbs.

Production for April 1957 (Quebec)	102,141 Tons
Other Provinces	5,225
	107,366

Total production for April 1956 was 99,558 tons

Africa (Rhodesia)
(Published by Rhodesia Chamber of Mines)

Tons 2,000 lbs.

Production for February 1957	10,272.97 Tons
Valued at	£711,455
Production for February 1956	9,925.25 Tons
Valued at	£738,267

JIG FOR ASBESTOS SIDING CUTTER

"Pete" Peterson, Tulsa, Oklahoma, Ruberoid Co., salesman in the Old American Division, is a lad with an inventive turn of mind. His latest brain wave is a jig for use with asbestos-cement shingle cutters. He noted the time consumed by siding mechanics in marking and cutting shingles located at the junction between shed roofs and gable walls.

Peterson's solution is a platform which fits over the cutter. There is a yardstick at one end for measuring lengths, and a groove to receive a miter gauge to assist in cutting angles.

The enterprising salesman has no thought of cornering the asbestos shingle cutter jig market and if you are interested in getting the dimensions and construction details write to "Asbestos Cutter Jig", Old American Roofing Mills Div., The Ruberoid Co., 7600 Truman Road, Kansas City 26, Mo.

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A. S. T. M. — COMMITTEE C-16
THERMAL INSULATION

Committee C-16 of A.S.T.M. will meet at the Hotel Chateau Laurier in Ottawa, Canada, on October 7, 8, 9 and 10th, as guests of The Canadian National Research Council.

It will be a combined meeting with C-24 on Acoustical Materials and E-6 on Methods of Testing. Building Construction Several Canadian Technical Societies and Committees will also be in attendance. It will also include an inspection of the Montreal Road Laboratories of N.R.C. and their new Building Research Center. A feature of C-16 meeting will be the presentation of a paper on Nuclear Effects on Thermal Insulation by Dr. V. P. Calkins of General Electric, Chairman of Sub II of Committe E-10 on the subject of Radiation Induced Changes in Materials.

C-16 is studying the matter of forming a sub-committee to determine test methods for determination of radiation effects on thermal insulations induced by nuclear reactions.

This work has been assigned to Dr. Wayne Ellis of Benjamin Foster Company.

The Spring Meeting of Committee C-16 will be held at the Hollywood Beach Hotel, Hollywood, Florida on March 5, 6 and 7th, 1958.

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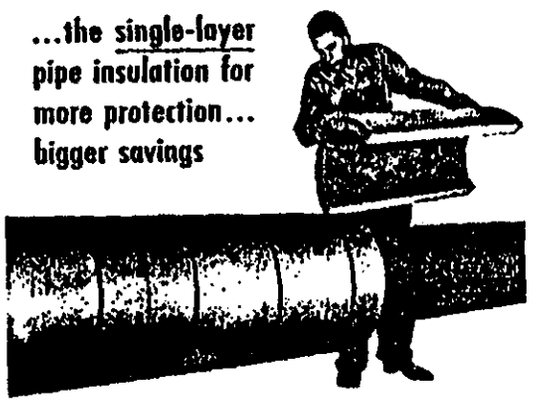

Unibestos protects pipelines up to 1200° F. Single-layer construction cuts application costs...seals in more heat at the joints than double-layer insulations. Available in sectional form through 44" O.D.

UNARCO...for the best in asbestos insulation

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Sheet Packings Fiber End Tape
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High Pressure Rod Packing Blue Asbestos Packing—cold resistant
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KEASBEY & MATTISON CO.
New Appointments

Clifford O. Hodges, Laconia, has been appointed Plant Accountant of Keasbey & Mattison Company's Meredith asbestos textile plant.

Prior to joining K & M in November, he was associated with the Laconia Needle Co. where he was employed in an administrative capacity. A graduate of Bristol High School, Mr. Hodges served with the Army Air Corps during World War II.

Hugh B. Carleton has been named new process and product investigation supervisor at Keasbey & Mattison Company.

Formerly associated with American Cyanamid Co., Mr. Carleton holds a bachelor's degree in chemical engineering from Northeastern University, Boston, Mass. He has done advanced study at the Stevens Institute of Technology and the Newark College of Engineering.

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Antony Gibbs & Co., Inc.
61 Broadway
New York 6, New York
Tel. Digby 4-6580



View of Blue Asbestos Reducing Mill

ASBESTOS FIBRES
Chrysotiles, Blues, Amosites
Agent in the United States for
S. A. ASBESTOS TRADING (PTY.) LTD.

Australia — Statistics
(Published by Bureau of Mineral Resources)

Tons 2240 lbs.

	Quarter Ending June 30, 1957	
Production		
Chrysotile	432	tons
Crocidolite	2,553	
	2,766	
Imports		
Amosite	1,370	tons
Chrysotile	4,633	
Crocidolite	50	
Other	65	
	6,118	
Exports		
Chrysotile	92	tons
Crocidolite	2,646	
	2,738	

CSR

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Write: Asbestos® Dept., Textile Division
UNITED STATES RUBBER COMPANY
1230 Avenue of the Americas, New York 20, N.Y.



UNITED STATES RUBBER CO.
First Quarter Report

Sales of United States Rubber Co. during the first three months of 1958 were approximately 196 million dollars compared with 232 million dollars in the same period last year.

Net income for the first quarter is estimated at 3.8 million dollars, equivalent to about 44 cents a share of common stock compared with 5.2 million dollars or $1.20 a share of common stock during the first quarter of 1957.

The drop in first quarter sales was due, in part, to sharp cut-backs in the production of new automobiles with a resulting decline in demand for original equipment tires, foam rubber, plastics parts and upholstery fabrics. In addition, sales of industrial rubber products, chemicals and plastics were lower.

THE RUBEROID CO.
First Quarter Report

Net sales and net income for the first three months of 1958 declined from the corresponding period of 1957 according to the report received from The Ruberoid Co.

Net Sales amounted to $14,148,951 and net income was $221,153, or 15c a share for the first quarter of this year. For the first quarter of 1957 net sales were $16,944,808 and net income was $670,523, or 45c a share.

All directors were re-elected at the annual meeting.

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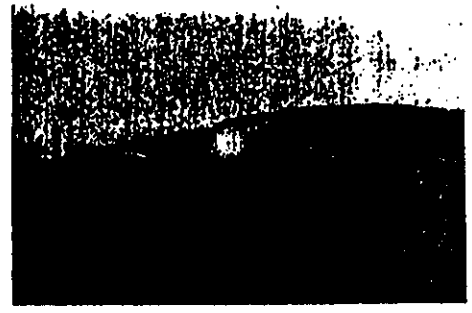

View of Kuruman Main Mill

ASBESTOS FIBRES
Chrysotiles, Blues, Amosites
Agent in the United States for
S. A. ASBESTOS TRADING (PTY.) LTD.

THE RUBEROID CO.

Changes In Personnel

The Ruberoid Co. has announced three promotions in the company's sales organization.

W. O. Neel, sales manager of the Denver, Colorado district, became manager of Ruberoid's asbestos fibre division on July 1. He will make his headquarters in New York City. He joined Ruberoid in 1954 as special assistant to the vice president in charge of sales, was made Salt Lake City district sales manager the same year and took over the combined Denver-Salt Lake City district in 1957.

James C. Murphy, assistant sales manager of the Dallas, Texas district, became sales manager at Denver. He became assistant sales manager at Dallas in 1955, and has been a member of the Ruberoid Sales organization since 1951.

Frank J. Schmitt, Jr., sales representative at Oklahoma City has been made assistant sales manager at Dallas. He joined Ruberoid in 1929 as a planning clerk. He became office manager of the company's St. Louis plant in 1935 and worked as assistant to the general superintendent from 1942 to 1947 when he became a sales representative in Oklahoma.

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View of Blue Asbestos Reducing Mill

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Chrysotiles, Blues, Amosites

Agent in the United States for

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THE COVER

The photograph on our cover is an air view of the new Johns-Manville Transite pipe plant at Denison, Texas. This new plant is the most modern of its type in the industry and represents more than half a century of accumulated engineering experience in the production of Transite asbestos-cement products. It consists of five steel, concrete and corrugated Transite, one-story buildings. It is on a 469-acre site on the banks of the Red River adjacent to Lake Texoma, ninth largest water reservoir in the world.

America's biggest utility, the American Telephone & Telegraph Co., was named as the building industry's best customer. A.T.&T. during 1957 spent more than $215 million on construction.

The building magazine, Architectural Forum, lists for the first time in its August issue the 100 top U. S. builders. Rounding out the big five after A.T.&T. were Ford Motor, Western Electric, Kaiser Aluminum and General Motors.

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BUILDING

Contracts for future construction in the United States in September totalled $3,215,919,000, an increase of 26 per cent above the like month of 1957, F. W. Dodge Corporation, construction news and marketing specialists, reported.

Dodge vice president and economist George Cline Smith said that the September increase of 26 per cent was the greatest increase over the corresponding month of 1957 that has been reported so far this year. "However," he added, "September marks the third month in a row with an increase of more than 20 per cent over last year, and the fifth consecutive month in which the dollar volume of contracts amounted to more than $3 billion."

"Publicly owned projects," Dr. Smith reported, "continue to provide the major part of the stimulus, but in September privately owned projects also increased sharply. Public-ownership contracts rose 29 per cent over September, 1957 and private projects were up nearly 25 per cent."

According to Dodge figures, residential building contracts in September totalled $1,460,270,000, up 27 per cent from the similar month of a year ago. September contracts covered 114,642 dwelling units, an increase of 33 per cent over the corresponding month of 1957; the largest percentage gain in this category this year. The spread between the percentage gain in dollar volume and in the number of units reflects the trend toward smaller average size units, particularly apartments.

Heavy engineering contracts in September amounted to $863,415,000, an increase of 62 per cent above the like 1957 month. As mentioned above both public works and utilities contracts registered impressive gains.

In the non-residential category in September contracts for future construction totalled $892,234,000, a gain of 3 per cent over the similar month of a year ago. Commercial building contracts registered a gain of 31 per cent; manufacturing building contracts however were down 17 per cent.

AUTOMOBILE SALES

	August 1958
Passenger Cars	194,974
Motor Trucks	55,227
Motor Coaches	265
	250,466

In August 1957, a total of 611,749 motor vehicles were sold. In the eight months of 1958 the total was 3,829,167.

These figures were supplied by the Automobile Manufacturers Association, New Center Building, Detroit, Michigan.

ASBESTOS-CEMENT MACHINERY

Wet machines with Auxiliaries for the production of 24" to 48" wide, flat or corrugated sheets in commercial lengths.

Moulding Equipment, Rotary Cutters, Wet and Dry Trimmers, Finishing and Texturing Machines.

Your inquiries are most welcome

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PRODUCTION STATISTICS

CANADA
(Dept. of Mines, Province of Quebec)
Tons 2,000 lbs.

Production for February 1969 (Quebec)	65,832
Other Provinces	4,252
	69,084

Total production for February 1968 was 53,949 tons.

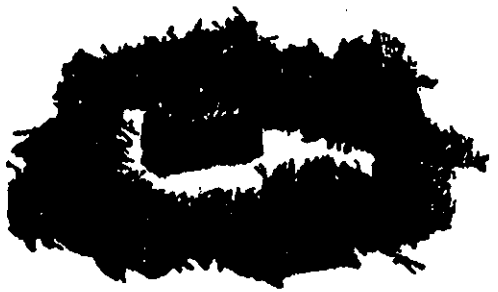
AFRICA (Rhodesia)
(Published by Rhodesia Chamber of Mines)
Tons 2,000 lbs.

Production for December 1968	9,885.99 tons
Valued at	£ 659,093
Production for December 1967	12,275.75 tons
Valued at	£ 814,396
Production for 1968	127,115.18 tons
Valued at	£8,693,726
Production for 1967	132,124.01 tons
Valued at	£9,016,388

AUSTRALIA—STATISTICS
(Published by Bureau of Mineral Resources)
Tons 2,240 lbs.

	Quarter Ending September 30, 1968
Production	
Chrysotile	428
Crocidolite	4,272
	4,701
Imports	
Amosite	3,416
Chrysotile	8,992
Crocidolite	..
Other	232
	12,640
Exports	
Chrysotile	..
Crocidolite	1,291
Other	25
	1,316

Australian Blue Asbestos Limited



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THIS AND THAT

An ingenious and inexpensive new counting and tallying device, worn like a wrist watch, is finding scores of daily uses in industrial plants and laboratories. Technologists and research men use the WRIST TALLY COUNTER for counting operations in laboratories and pilot plants. Industrial engineers and efficiency experts employ it in time-and-motion studies. Tally clerks and checkers find it invaluable for cargo and production tallies; counting traffic; recording pile driver strokes; tallying loads or batches of sand, cement and other materials; and dozens of other uses. It is also popular with golfers for recording scores.

Worn on the wrist, the Tally Counter cannot be lost or mislaid. Operation is simplicity itself; just push the button and count is tallied on visible dials. The Tally Counter totals to 99 and dials are easily reset to zero by turning knobs. Lightweight, sturdy Swiss construction assures durability and efficiency under hard use. Dimensions are 1-7/16" x 1-1/4" x 1/4". Leather wristband included. Remarkably low priced at $4.95 postpaid. Available on direct order from Edmund Scientific Company, Barrington, New Jersey.

Robert W. Egolf, an honor graduate of Ambler High School, Ambler, Pennsylvania, was the recipient of the sixth annual Keasbey & Mattison Co. scholarship to the College of Engineering of Drexel Institute of Technology, Philadelphia, Pennsylvania. Mr. Robert R. Porter, President of Keasbey & Mattison, made the presentation. K&M instituted the $1800 scholarship as a means of encouraging qualified high school graduates to enter the engineering profession. Young Egolf will study physics at Drexel and work at Keasbey & Mattison during the industry periods in which he will participate under the Institute's Co-op Program.

The Travelers Insurance Companies studies show that exceeding the speed limit caused 12,770 deaths and 980,000 injuries during 1958 on our highways.

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MARKET CONDITIONS

GENERAL BUSINESS.

The rise in general business activity has slowed up during the summer months, in accordance with the usual seasonal pattern. However, there are increasing signs that a strong pickup can be expected in the very near future and that this can be expected to continue for the balance of the year. The steel situation is a disturbing factor and could become more so if it continues appreciably longer. However, there are signs that a settlement can be reached within a reasonable length of time. Auto production is virtually at a standstill as model change-overs are being made and the "Big Three" prepare to offer their new "economy" models. It is widely predicted that introduction of these compact cars will result in a significant increase in total sales of the automotive industry, which in turn promises an expanding market for that industry's many suppliers.

All in all while business is marking time at the moment, prospects for the near future are quite good.

ASBESTOS - RAW MATERIAL.

July asbestos shipments for the industry ran at approximately the same level as last year. The first 7 months of 1959 still remain 17% ahead of the same period in 1958. Export sales for the first half of 1959 are 25% above the same period last year.

It is expected August shipments will approximate those of 1958 with the remaining months somewhat higher than last year. The year end figure is expected to be 20% to 25% better than 1958.

ASBESTOS MANUFACTURED GOODS.

Asbestos Textiles. The Market Situation continues much improved over the first half of this year and is expected to remain satisfactory for the balance of the year.

Asbestos Brake Lining. The present Market Situation still shows no signs of abating from its current high level (replacement v. O.E.M. is expected to be sharply off for the

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MARKET CONDITIONS

GENERAL BUSINESS.

As this is written one steel producer has settled with the union and negotiations with other producers are continuing. The strike has definitely adversely affected the entire economy and predictions made earlier this year for a booming fourth quarter have been knocked into a cocked hat. Thus far the damage to the country approximates that suffered during the first three months of the 1957 recession. The after-effects promise to be equally serious if not moreso. It can only be hoped that, once the mills get back into production, the direct and side effects of the strike will not be such as to preclude a rapid general recovery of the entire economy. Such effects are difficult to measure and it will be at least two to three months after the end of the strike before a definite trend will be established. The gravity of this situation overshadows all other factors in the economic picture at this time.

ASBESTOS—RAW MATERIAL.

Shipments of asbestos fibre to the industry for the first nine months of 1959 are running 70,250 tons or 12% above the same period in 1958. Export shipments to the end of August dropped slightly and are now running 104,200 tons or 20% ahead of last year for the same period.

The trend of export shipments in October is noticeably upward in anticipation of the close of navigation. Although shipments to the end of August did indicate a down trend, we feel optimistic that year-end results will exceed 1958 by at least 25%.

An acute shortage of 7 Group fibres is currently being experienced and is not expected to improve until early 1960.

ASBESTOS—MANUFACTURED GOODS.

Asbestos Textiles. The Market Situation is fair to good and the outlook should be promising if the steel industry goes back to work soon.

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MARKET CONDITIONS

GENERAL BUSINESS.

Practically all segments of the national economy are enjoying record breaking prosperity as the year 1959 draws to a close. Personal income is at a new all-time high, steel production has already reached a new peak and auto production for January will probably set a new historic record. On the labor front the aluminum industry has reached an agreement with the union. This, in the wake of settlements reached with the copper industry and the larger can manufacturers, may stiffen the union stand in the steel controversy which is still the one biggest question mark as to our general economic well-being for the next few months. As this is written it appears that both the union and the companies will stand pat until the workers ballot on the companies' last offer as required by the Taft-Hartley process.

Corporate reports of earnings continue to make good reading and except for the threat of a resumption of the steel strike industrial activity should continue at a rising tempo for some months to come.

ASBESTOS—RAW MATERIAL.

Year to date shipments for the Asbestos Industry at the end of November ran 78,800 tons or 10% ahead of the same period last year. It is not believed that the optimistic outlook of a 20% to 25% increase in sales over 1958 will materialize and it must settle for a 10% to 15% estimate.

With reference to the export market, again it is felt that a year end estimate of approximately a 20% increase over 1958 is more realistic than the original estimate. Export shipments to the end of October ran 17% ahead of the same period last year.

ASBESTOS—MANUFACTURED GOODS.

Asbestos Textiles. The Market Situation at the present time is satisfactory and the outlook for 1960 is reasonably

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CSR

MARKET CONDITIONS

GENERAL BUSINESS.

General business continues good. Industrial production, personal income and many other yardsticks of our economic health are still trending upward. In mid-February the stock market turned upward rather strongly after a consistently lower trend since the first of the year. Perhaps this marks the end of a correction which was long overdue. Steel production is catching up with demand at a more rapid rate than was expected and deliveries on many items are improving substantially. All in all prospects remain good but we must remember constantly that prosperity, as predicted for the next few years, is not an automatic thing which will happen if we just sit back and wait for it. It still must be earned by us as individuals and as a nation, by careful and thoughtful planning and by good old fashioned hard work.

ASBESTOS—RAW MATERIAL.

Shipments of asbestos fibre for the first two months of 1960 are running approximately 15% above the same period last year.

All grades of fibre are in ample supply, and relatively heavy inventories are being carried by all producers.

Indications are that the foreign asbestos market is very active, and as a result, the industry anticipates increased exports during 1960.

ASBESTOS—MANUFACTURED GOODS.

Asbestos Textiles. The business being obtained for this material at the present time is below capacity levels but the situation is expected to improve very shortly.

Asbestos Brake Lining. January sales in replacement are at a good level. 1959 should be a near record year as

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CSR

INSULATION SELECTED ON BASIS OF EFFICIENCY AT LAKE CHARLES REFINERY

*By: E. M. Skinner**

Each insulation material is most efficient within a given temperature range. Thus, if ideally applied, each layer of insulation would be of a thickness such that the temperature differential between the hotter and cooler sides represents the material's most efficient temperature range.

This was the principle behind the insulation of Cities Service Refining Corporation's Lake Charles, Louisiana, refinery, part of the recent $22 million expansion program for enlarged production of higher octane gasolines. Here Thermalite 85% magnesia and Thermasil calcium silicate, manufactured by Baldwin-Ehret-Hill, Inc., Trenton, New Jersey, were specified for most processing towers, tanks and hot fluid lines.

Where operating temperatures exceed 550F, Thermasil, a hydrous calcium silicate compound was applied as the first *layer in thicknesses that reduced the temperature at its* outer surface to less than 550F. Thermalite, a molded insulating material which is most efficient between 100F and 550F was then placed as a second layer, over Thermasil. For operating temperatures below 550F, a single layer of Thermalite was used.

Different Forms and Arrangements—While insulation types were chosen according to surface temperatures, the form and arrangement of insulating materials depended largely on the size and configuration of the equipment or pipe. In general, the contractor, Fuller-Austin Insulation Company, Houston, Texas, used half round sectional insulation on all piping up to 18-inch diameter. On pipes larger than 18-inch, a segmental form of insulation was applied; i.e., more than two segments were required to cover the 360 degree pipe surface. In both cases, joints were staggered, the material secured to the pipe by wire bands on 18-inch centers, and the insulation finished with 15-pound asphalt and .02-inch thick aluminum jackets.

Since both types of insulation are molded to exact finish size, the surfaces on the inside and outside diameters are

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high-quality materials and in counteracting the dubious economic advantage of lower-grade materials of uncertain and undefined qualities."

For the U.S. manufacturer, competing in the world market on the basis of superior qualities that can be described, assured, and measured by reliable means, nothing will be more helpful than the general use of ASTM standards in offer and purchase. To help promote the wider use of ASTM standards abroad, said Mr. LaQue, there is a need to translate them into other languages. Steps are already under way to do this for Latin America; and the outgoing president urged that his successors pursue this matter on a broad international scale.

New Officers Elected for 1960-1961

The election of new Society Officers was announced during the luncheon. *A. Allan Bates*, Vice-President of Research and Development, Portland Cement Association, Chicago, Illinois, was elected President of ASTM to serve for a one-year term beginning at the close of the meeting. *Russell Wade Seniff*, Manager of Research, Baltimore and Ohio Railroad, Baltimore, Maryland, was elected Vice-President. *Miles N. Clair*, President, The Thompson & Lichtner Company, Brookline, Massachusetts, will continue as Senior Vice-President of the Society.

New members of the Board of Directors elected for three-year terms were: *Arthur R. Belyea*, Chief Chemical Engineer, Consolidated Edison Company of New York, Inc., New York City; *Leslie V. Cooper*, Manager, Miscellaneous Products Development, Firestone Tire and Rubber Company, Akron, Ohio; *Jay C. Harris*, Assistant Director of Research, Detergents, Research and Engineering Division, Monsanto Chemical Company, Dayton, Ohio; *Jerome J. Kanter*, Directing Engineer, Materials Engineering, Crane Company, Chicago, Illinois; *Robert F. Legget*, Director, Division of Building Research, National Research Council of Canada, Ottawa, Ontario, Canada; and, *William H. Willets*, Assistant Manager, Technical Service Laboratories, Titanium Pigment Corporation, New York City.

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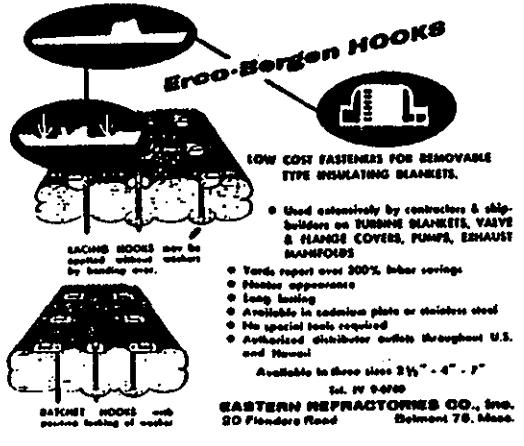
89 St. George's Terrace, Perth,
Western Australia

CSR

CALSILITE-Hi is a new thermal insulation that withstands soaking heat up to 1800°F indefinitely and has the added advantage of being an industrial fireproofing material. This product, developed by THE RUBEROID CO., is effective for insulation of piping and equipment in all types of plants, and for fireproofing walls, partitions and ceilings in refineries and chemical processing plants.

Calsilite-Hi is a calcium silicate compound combined with asbestos fibres and other materials. Available in half-sectional, three segmental and block form, it keeps its strength when wet and returns to its original thermal efficiency when dry, and it resists most chemicals and alkalis in industrial concentrations.

Calsilite-Hi complements Ruberoid's regular Calsilite designed for use on high temperature steam lines and equipment up to 1250°F.



Australian Blue Asbestos Limited



Australian Blue is an ideal fibre for asbestos cement and for purposes requiring good heat insulation and acid resistance. It has excellent spinning properties. Samples available on request.

SOLE SELLING AGENTS

Minerals Fibres Ltd., Market Buildings, Mark Lane, London.
Argentine, Belgium, Brazil, Chile, Columbia, Denmark, France and French Morocco, Egypt, Eire, Great Britain, Holland, India, Israel, Italy, Mexico, Norway, Pakistan, Peru, Portugal and Portuguese Africa, Spain, Sweden, Switzerland, Turkey, Uganda, Uruguay, Venezuela.

Carters (Merchants) Ltd., Winchester House, Old Broad St., London.
***Austria, Czechoslovakia, Germany, Hungary, Japan,* Poland, U.S.S.R., Yugoslavia.**

In Australia, address inquiries to:—
AUSTRALIAN BLUE ASBESTOS LTD.,
89 St. George's Terrace, Perth, Western Australia.

AUTOMOBILE SALES

	August 1960
Passenger Cars	324,020
Motor Trucks	65,948
Motor Cycles	358
	390,326

In August 1959, a total of 316,950 motor vehicles were sold. In the eight months of 1960 the total was 5,403,930.

These figures were supplied by the Automobile Manufacturers Association, New Center Building, Detroit, Michigan.

INDUSTRIAL SERVICE COMPANY

Builders of

ASBESTOS CEMENT MACHINERY

Our experienced engineers and machinists offer the industry entire machines built to deliver maximum production.

Your Inquiries Are Invited

1-51 Paterson Avenue E. Rutherford, N. J.

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89 St. George's Terrace, Perth, Western Australia.

HAROLD H. BURROWS, Senior Vice President Rubber Sales, has retired after 45 years of service with the Manhattan Rubber Division, *Raybestos-Manhattan, Inc.*, Passaic, New Jersey. He joined the Manhattan Rubber Division in 1915, as a billing clerk, later became manager of the Roll and Tank Departments, then Sales Manager of Industrial Rubber Products Division and was appointed Vice President of the Corporation January 19, 1955. Mr. Burrows is particularly well known in the paper and pulp industry where he has a wide acquaintance, *also in the* rubber, chemical and textile industries. He was honored on December 14th, 1960, with a dinner attended by nearly 200 executives, associates and friends at the Robin Hood Inn, *Clifton, New Jersey. Among his friends* were officials and executives of numerous prominent manufacturing companies in the area.

THE HEART OF A GOOD WATER SYSTEM is the title of a four-page folder published by *Keasbey & Mattison Company* describing product features and physical details of asbestos-cement pressure pipe for water systems.

The folder highlights the installation and maintenance economies possible with K&M pressure pipe, and briefly explains the advantages of K&M's patented fluid-tite coupling in providing permanent leak-tight seals. A table of inside and outside diameter, wall thickness and approximate weight per foot, for standard sizes and classes of pressure pipe, is given on the back of the folder.

Copies of Folder AP-27 are available without cost from Keasbey & Mattison Company, Ambler, Pennsylvania.

ac

International Asbestos Cement Review

An architectural quarterly devoted to the promotion of asbestos-cement, published *in English, French and German editions*

Circulation exceeding 44000

Editions Girsberger, 40 Kirchgasse, Zurich, Switzerland

(U. S. agents: Wittenborn & Co. 38 East 57th Street, New York 22)

Australian Blue Asbestos Limited



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Carters (Merchants) Ltd., Winchester House, Old Broad St., London.
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In Australia, address inquiries to:—
AUSTRALIAN BLUE ASBESTOS LTD.,
89 St. George's Terrace, Perth, Western Australia.

CSR

JOHNS-MANVILLE companies in France and Italy have established two *plants to make refractory* products for distribution in the European Common Market.

Existing structures have been obtained and are now producing refractory products at Niguarda, a suburb of Milan, Italy, and at St. Marcellin, France, according to Dudley T. Colton, Vice President, Johns-Manville International. "Addition of these two plants solidifies J-M companies as leading producers of insulating block and fire brick in the expanding European *Common Market*.

J-M companies also operate a perlite filter aid plant at Hull, England, an asbestos-cement products plant at Mol, Belgium, and an industrial packings plant at Mexico City. In addition, J-M companies are substantial suppliers of *diatomite*, asbestos fibre and finished products to overseas markets.

The Italian and French plants bring to 44 the number of manufacturing *facilities now operated by Johns-Manville* companies in the United States, Canada, Mexico, Great Britain and the Continent.

KEASBEY & MATTISON COMPANY has made available a four-page folder describing a unique flexible asbestos-cement structural sheet. The folder illustrates some of the many uses for this unique bendable KAMFLEX sheet and lists all significant physical properties.

Copies of this Folder (BM-231) can be obtained from Keasbey & Mattison Company, Ambler, Pennsylvania.

ac

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89 St. George's Terrace, Perth, Western Australia

CSR

CAPE INSULATION EXHIBITED

"Caposil HT" and Aluminum Foil Face Asbestos Cloth

Improved "Caposil HT" moulded slabs for high temperature insulation, the result of many months' research and made on a new production line at their Barking Works, were shown for the first time by Cape Insulation and Asbestos Products Limited, a subsidiary of The Cape *Asbestos Company Limited, on their stand* at the Engineering, Marine and Welding Exhibition which opened at Olympia, London, on April 20th, 1961.

The new "Caposil HT" is distinctive for its pleasing white appearance and rigidity. Moulded accurately in a range of sizes up to 36" by 24" from 1" to 4" thick, these slabs are *easily cut and handled. Unaffected by water or* steam and chemically inert, they do not affect the surface to which they are applied. Maximum safe temperature limit is 1850°F.

Second new material on show for the first time was Aluminum Foil Faced Asbestos Cloth made at CAI's *asbestos textile factory at* Hebden Bridge in Yorkshire. The foil forms an impervious water resisting barrier which can be washed down easily. Its applications include marine insulation and the manufacture of asbestos mattresses and insulation jackets.

F. E. Lewis, Senior Vice President of JEFFERSON LAKE ASBESTOS CORPORATION, a 77%-owned subsidiary of Jefferson Lake Sulphur Company, announced that work was started, June 9th, 1961, on the Jefferson Lake Asbestos Corporation's 2,500 ton per day asbestos mill in Calaveras County, California.

A contract for the construction of the 3½ mile access road to the plant has been awarded and the initial work consists of the construction of the access road and clearing of the plant site. A contract was also awarded to mine the asbestos ore for Jefferson Lake Asbestos Corporation.

The plant is scheduled to be on stream by March 1962 and construction costs are estimated at $5,000,000.

Australian Blue Asbestos Limited



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In Australia, address inquiries to:—
AUSTRALIAN BLUE ASBESTOS LTD., 89 St. George's Terrace, Perth, Western Australia.

CSR

GARLOCK INC. of Palmyra, New York, has recently released two very interesting bulletins on their gasket materials.

Bulletin AD-190 (24 pages) details resistance rating for 120 fluids and gases and introduces the newer Garlock Gasket Materials VITON and TEFLON (DuPont Trademarks).

For high pressure, high temperature application on manholes, handholes, boiler tube caps, valve bonnets and flange joints, Garlock offers GUARDIAN (Garlock trademark) Spiral-Wound Gaskets. Bulletin AD-176 carries complete information including the two new important advancements— 1/16", paper thin GUARDIAN gaskets and the new high temperature gasket made with ceramic filler materials.

KEASBEY & MATTISON COMPANY has prepared a complete promotion kit for its distributors and salesmen which points up the advantages of KolorMate, K&M's factory-finished, pre-colored structural and decorative asbestos-cement sheets.

Created around the theme "Show Your Colors", the kit includes 4-page, full-color folders; double-spread, full-color ad reprints; trade publication and Wall Street Journal ad reprints; product news releases; pitch sheets by product manager and advertising manager stressing dealer benefits; business reply cards for additional information; and, a color-swatch booklet attached to an actual product sample.

KolorMate sheets are available in 15 vivid, lasting colors which resist most chemicals and acids, weather, scuffing and abrasion. Flat structural, decorative, and corrugated sheets, they are ideally suited to exterior use. In interior design, K&M panels are architecturally accepted for permanent or movable partitions and for special decorative effects in industrial, commercial or residential construction.

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89 St. George's Terrace, Perth,
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Raybestos-Manhattan, Inc.; C. C. Simonl, Johns-Manville Corporation, R. S. Tallman, Tallman-McCluskey Fabrics Company; and, S. R. Zimmerman, Jr., Raybestos-Manhattan, Inc.

A highway paving research project just laid in Contra Costa County, California, represents the combined effort of the Asphalt Institute, the University of California, the City of Martinez, California State Division of Highways and Johns-Manville Corporation.

The project consisted of placing approximately 1500 tons of asphalt concrete surfacing. Some of the surfacing is a conventional asphalt concrete and the remainder contains 2.5% asbestos fiber for reinforcement. The purpose of this project is to test the strength and durability of the various mixtures under heavy truck traffic.

The complex system of instrumentation of the many measurements which must be made to evaluate the performance of the experimental pavements was installed by the University of California with the assistance of the State Division of Highways. Basic research and preliminary investigation leading to the development of the new paving mixture was done by the *J-M Research Laboratories* and the Asphalt Institute Laboratory at College Park, *Maryland*.

The information which will be obtained from this project may result in improved paving materials with longer life and reduced maintenance cost.

REQUIRED

By important company, technician/consultant for the manufacture of brake and clutch linings. Must be well acquainted with formulae and quality control. Write fully to Box No. H-M-LE, c/o "ASBESTOS", 807 Western Saving Fund Building, Philadelphia 7, Pennsylvania.

Australian Blue Asbestos Limited



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In Australia, address enquiries to....

AUSTRALIAN BLUE ASBESTOS LTD.,
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JOHNS-MANVILLE CORPORATION reorganized a Research and Development group at the Research Center in Manville, New Jersey, it was announced by Dr. Clifford F. Rassweiler, the corporation's Vice President for Research and Development.

Arthur C. Smith, Vice President of the J-M Products Corporation and Director of Plant Engineering was named to the newly-created position of Assistant Vice President for *Research and Development*.

Joseph H. Zettl and *John Q. Trice* were named as Directors of the Research Center to serve in that capacity with *John S. Parkinson*, who has been a Director since 1958.

Laurence R. Blair will serve as Associate Director of Research-Development for Mining, International, and Pipe.

Joseph Dee has been named Associate Director for General Research, Scientific Services, and Dutch Brand.

Peter H. Sorokin, Business Manager of the Center, will have his responsibilities expanded to include all activities dealing with industrial relations and personnel.

Fred L. Pundsack has been appointed Manager of the Central Chemical and Physical Research Department at the Center, succeeding L. R. Blair.

Edmund M. Penner was named a Research Manager and will head the Center's Mechanical Department.

Arthur H. Janssen was selected to manage the Center's New Business Department, succeeding *Herbert L. King*, who has joined the staff of the Manager of the J-M Celite Division.

Carson J. Bergert has been named Chief of the newly-created Flooring Research Section at the Center.

Sidney Lauren has been advanced to Section Chief and will head the Finishes, Impregnants, and Adhesives Section at the Center. Mr. Lauren succeeds *Robert E. Parry*, who will devote full time to his position as Manager of Professional Recruitment and Training.

George W. Constantin was named as a Research Technologist for foam insulations assigned to the Center's Industrial Insulations Department.

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H. W. GREIDER RETIRES

Harold W. Greider, Assistant to the Division Vice President, retired after 38 years of service with The Philip Carey Manufacturing Company, Cincinnati, Ohio.

Joining Carey in 1927 as Research Chemist, Mr. Greider served as Director of Research from 1931 to 1950 and Manager of Quality Control since 1950. During his many years in research work at Carey, Mr. Greider served on The Research Committee, Asphalt Roofing Industry Bureau; Technical Committee, Asbestos-Cement Products Association; Underwriters' Laboratories Advisor's Conference, Asphalt Roofing Industry; and American Society for Testing & Materials. In addition, Mr. Greider is a member of Alpha Chi Sigma, Tau Delta Pi (Honorary) and Sigma Xi (National Honorary Scientific) fraternities. In 1940, Mr. Greider received the National Association of Manufacturers "Modern Pioneer" award. He has been granted nearly fifty United States patents on Building Materials and Thermal Insulation Products—Magnesia, Asbestos, Roofings, etc. Mr. Greider holds some of these patents as sole inventor and others jointly with Carey Research Staff Members; he also has been granted Canadian and Mexican Patents. He is listed in "American Men of Science" and "Chemical Who's Who".

A native of Manchester, Kansas, Mr. Greider attended high school in Topeka, Kansas, and was awarded his Bachelors Degree in Chemistry from Washburn University, Topeka, Kansas and his Masters Degree in Chemistry from Kansas University, Lawrence, Kansas. He has served two four-year terms on the Wyoming, Ohio Board of Education. He and Mrs. Greider reside at 65 Jewett Drive, Wyoming, Ohio.

GUY PHILLIPS, of Phillips Asbestos Mines in Globe, Arizona, passed away February 7th, 1962. Mr. Phillips sold crude and fiberized asbestos throughout the world for many years but had not been active for the past two years due to his plans for changes in milling.

Mr. Phillips will be greatly missed by his family, friends and associates.

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Since the rotor in the 406 can be used in either direction, wear on hammers is reduced. This unit also has built-in air return ducts, to facilitate dust control.

All Bauer hammer mills are equipped with permanent, non-electric magnetic separators for protection against tramp iron.

KEASBEY & MATTISON COMPANY has added Class 2400 asbestos-cement building sewer pipe to its line to offer a more complete sewer pipe package to builders, architects and plumbing contractors. The new pipe can be used when specifications call for extra-strength piping for connections from house to curb and for lateral lines from curb to gravity sewer.

K&M Class 2400 pipe, which is tested at a minimum of 2400 pounds per lineal foot, is available in three sizes—4", 5" and 6" ID- and in 6½' and 13' lengths. A complete line of fittings is available including T's, Y's, elbows, bends, adapters, increasers, end caps and couplings.

TURNER & NEWALL LIMITED will display its wide range of products as a group at the *Stockholm Trade Fair*, May 18th to June 3rd, 1962, which will be the largest British exhibition ever held overseas.

In the exhibition hall two stands (A100 and A63) will show the Group's products and services, while additional space is occupied outside on stand C22.

The display will focus attention on such diverse activities as marine and industrial insulation, automotive braking, power transmission, plastics manufacture, building construction and water supply. Since the number of different products made by T&N companies runs into thousands the presentation is necessarily selective, highlighting new developments and suggesting the general scope of activity.

WANTED

Asbestos fibre salesman covering the U. S. West Coast area.

Confidential replies invited to Box No. 5 c/o "ASBESTOS", 807 Western Saving Fund Building, Philadelphia 7, Pennsylvania.

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In Australia, address inquiries to:—

AUSTRALIAN BLUE ASBESTOS LTD., 89 St. George's Terrace, Perth, Western Australia.

NATIONAL FIRE PROTECTION ASSOCIATION has issued the new and enlarged 12th edition of the *Fire Protection Handbook (NFPA)*. This Handbook, considered the most authoritative reference and text book on the subject of fire, gives the fullest possible treatment of the latest *developments in fire protection and prevention.*

Earlier editions of the book were issued under the title of the NFPA Handbook of Fire Protection, Crosby-*Fiske-Forster.*

The 2216-page volume contains 21 main sections comprehensively covering a tremendous variety of fire subjects.

More than four years of work by NFPA staff engineers and many outside experts, under the editorship of NFPA Technical Secretary George H. Tryon, have gone into the preparation of *this volume which is available, at $17.50 a* copy, from the National Fire Protection Association, 60 Batterymarch Street, Boston 10, Massachusetts.

TEXTILE MACHINERY

We are interested in acquiring new or secondhand machinery to complete our sections of:

a. Weaving of Asbestos Tapes through asbestos tape loom capable of weaving 12 bands of asbestos tape up to 3" in width and 1/4" in thickness.

b. Heavy looms to weave:
   1. Cotton belts till 40 or 48" width (10/14 harnesses).
   2. Asbestos belts till 25" width, any number of harnesses till 22 (for asbestos belts or asbestos woven brake linings till 1" thickness or less).

Reply to: Box No. 9-AS-RB, c/o "ASBESTOS", 807 Western Saving Fund Building, Philadelphia 7, Pennsylvania.

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SOLE SELLING AGENTS

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Hasley Development Corporation, Time & Life Building, New York, United States of America.

Carters (Merchants) Ltd., Winchester House, Old Broad St., London.

Austria, Czechoslovakia, Germany, Hungary, Japan, Poland, U.S.S.R., Yugoslavia.

In Australia, address inquiries to:—
AUSTRALIAN BLUE ASBESTOS LTD., 89 St. George's Terrace, Perth, Western Australia.

JM'S NEW EPOXY-LINED TRANSITE PIPE underground applications are described in a 10-page brochure, prepared for chemical and industrial engineers who specify and design materials to handle aggressive process waters and wastes. It sets forth the principal advantages and economic benefits of the pipe and sums up the industries in which it is used.

The booklet offers data on lining applications and characteristics, an extensive chemical resistance guide with recommendations regarding epoxy-lined pipe for more than 100 chemicals and pipe profiles and coupling data with dimensions and weights. Available fittings are illustrated in cutaway views with tabular data plus typical insulation details and couplings and fittings are shown for process water service, and for wastes disposal.

Copies of TR-323A are available free on request from Johns-Manville, Pipe Division, Box J-JM6-10, 22 East 40th Street, New York, New York.

TEXTILE MACHINERY

We are interested in acquiring new or secondhand machinery to complete our sections of:

a. Weaving of Asbestos Tapes through asbestos tape loom capable of weaving 12 bands of asbestos tape up to 3" in width and 1/4" in thickness.

b. Heavy looms to weave:
   1. Cotton belts until 40 or 48" width (10/14 harnesses).
   2. Asbestos belts until 25" width, any number of harnesses until 22 (for asbestos belts or asbestos woven brake linings until 1" thickness or less).

Reply to: Box No. 9-AS-88, c/o "ASBESTOS", 807 Western Saving Fund Building, Philadelphia 7, Pennsylvania.

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Hunley Development Corporation, Time & Life Building, New York, United States of America.

Carters (Merchants) Ltd., Winchester House, Old Broad St., London.

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89 St. George's Terrace, Perth, Western Australia

JOHNS-MANVILLE CORPORATION

Two new insulating board plants will join the Johns-Manville production line within the next several months, almost doubling manufacturing capacity in wood fibre products.

Located at North Bay, Ontario and Klamath Falls, Oregon, the new plants are designed to meet the growing demand for insulating and building board products, and augment present production by J-M's Jarratt, Virginia and Natchez, Miss., operations.

W. A. Young, formerly Industrial Relations Manager at the Johns-Manville, Toronto, Ontario plant, has been named Plant Manager at the new North Bay location. *W. H. Graham*, Plant Manager at Natchez, has been appointed as Plant Manager of the Klamath Falls plant. His successor as Manager of the J-M Natchez plant is *Fred A. Morgan*, formerly Superintendent of Production, Finishing, Planning and Scheduling at the same location.

THE FLINTKOTE CO.

The appointment of *John G. Flanagan* as general sales manager of the Tile-Tex Division of The Flintkote Company has recently been announced. Tile-Tex produces vinyl-asbestos and asphalt floor coverings.

Mr. Flanagan, who will make his headquarters at the division's general offices in Chicago Heights, Ill., has been associated with Tile-Tex for the past nine years. He previously served as assistant division sales manager on the West Coast and more recently as Southern division sales manager in New Orleans.

BELL'S ASBESTOS & ENGINEERING

Bell's Asbestos and Engineering (Holdings) is repeating 20 percent, with a final of 12½ per cent for 1956 on a capital raised by a one-for-four scrip issue.

Group profits expanded from £605,851 to £685,024. Tax absorbs £354,298, leaving a net profit of £330,726, against £304,100 for the previous year.

PHILLIPS ASBESTOS MINES

Producers of

CRUDES

and

FIBERIZED ASBESTOS

The World's Finest Fibres

DRAWER 71 GLOBE, ARIZONA

Mines and Mills in Gila Co., Arizona

DURASORB FELTS

What Do You Want in Your Felts for Asbestos-Cement?

Life ?

Drainage ?

Finish ?

Stability ?

Uniformity ?

Try DURASORB Needled Felts, product of Albany Felt experience and facilities.

Your Albany Felt Sales Engineer wants to give you more information about these outstanding felts for asbestos-cement shingles, siding and sheets.

ALBANY

FELT COMPANY

Main Office & Plant, Albany, N. Y.

Other plants: Hoosick Falls, N. Y., N. Monmouth, Me
St. Stephens, S. C., Cowansville, P. Q.

ATI 19th Annual Meeting

The Asbestos Textile Institute met on October 3rd an 4th, 1963, and held its Annual Meeting at the Barbizon Plaza Hotel, New York City. On this occasion, the activitie of the several working committees of the Institute were re viewed and the programs for the coming year outlined.

During the course of this meeting, new officers wa... elected to serve the Institute for the next year. S. J. Peele, Jr., of the United States Rubber Company, was re-elected President of the Institute; J. W. Weber, American Asbestos Textile Corporation, was re-elected to serve as Vice President; J. A. Brown, Jr., was re-elected as Treasurer; and, H. E. Sunbury was elected as Executive Secretary and Assistant Treasurer.

In recognition of the dedicated service to the Institute by Dr. M. C. Shaw, as Executive Director and Research Fellow, over a period of the last 17 years, he was presented (see photograph below) with a beautiful gold wrist



The gentlemen in the above picture, from left to right, are: S. J. Peele, Jr., President, Asbestos Textile Institute; W. S. Hough, Johns-Manville Corporation (presenting gift); Dr. Mark C. Shaw, former Executive Director and Research Fellow of the Asbestos Textile Institute (receiving gift); J. W. Weber, Vice-President of Asbestos Textile Institute; and, H. E. Sunbury, Executive Secretary, Asbestos Textile Institute

watch, suitably inscribed by the members of the Board of Governors. Dr. Shaw resigned from his position on August 1st, 1963, to accept a research position with a large manufacturer of asbestos-cement pipes and other building materials.

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[illegible] exports which, in the first nine months of 1963 is lower b nearly one-million Rand (£5,000,000) due mainly to th drop in chrysotile production.

The steady and rising production of crocidolite an amosite is indicative of the fact that the world demand fo these amphibole varieties is steadily increasing and indee displacing chrysotile in the manufacture of many industria products.

The extent to which chrysotile is losing ground is difficult to assess mainly because of the uncertainty of the tonnage of the Russian (and other Eastern countries) asbestos that is being dumped on the European markets.

As already suggested, however, there is no doubt that the unsettled state of world conditions generally is due to the repercussions of political instability and the lack of economic sense in so many newly developed countries. This, in fact, is the main cause of the prevailing depressed state of affairs today.

It is natural that these adverse factors are directly responsible for the unstable commercial demands.

The whole position offers an example of the possible vicissitudes that the producer must be prepared to meet. In any form in which it occurs, from the producers point of view, it boils down to the question of planning production policy on a basis where the product can be extracted at a figure definitely above the normal or basic market price during any depressed period. An important point in this respect is that tonnage output and operating efficiency constitute key factors, because efficient production methods spell increased output at lower costs and therefore, assure returns that are economic regardless of fluctuating demands.

Generalization of the many factors that, either directly or indirectly, influence asbestos production will be found to include both normal and mechanical practice in every sphere based on sound technical considerations.

The growing steepness of the cost gradient today, irrespective of times of recessions makes it imperative to



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Asbestos-Cement Siding. Demand for this product is seasonally slow but should show considerable improvement within the next few months.

Asbestos-Cement Pipes. Present conditions show an unusual demand for pipe products which are normally slow at this time of the year. It would appear from present indicators that the balance of the year should be extremely satisfactory for sales although competitive conditions will keep profits down.

Asbestos Filter Fiber. The demand for low iron white filter fiber is steady and it is expected that the market during 1964 will exceed 1963.

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

ASTM, in connection with an important reorganization of its managerial staff, has announced the following staff changes: George A. Wilson, Director of Publications Operations; Henry J. Stremba, Production Manager; Robert P. Lukens, Assistant Standards Editor; and, Albert L. Batik, Publications Business Manager. Raymond E. Hess, formerly Director of Publications Operations, has retired after being with ASTM for 44 years. He will, however, still be associated with the Society as a Consultant.

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MORGAN WOOL FELT-ASBESTOS PIPE COVERINGS

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MARKET CONDITIONS

GENERAL BUSINESS.

General business continues good. The slow but steady growth in the Federal Reserve Board's figures on industrial production, while not indicating a booming economy, it, nevertheless, is encouraging. Production and sales of steel and automobiles continue to increase, and, as an indication of the broadening of activity, much of the increase in steel sales is for users other than the automotive industry. Signs are that the tax cut is resulting in increased spending by consumers and by industry for capital expansion. While profits, as a percentage of sales, are lower than those normally associated with a period of great prosperity, many corporate reports of first quarter earnings show net profits at all-time record levels. At this writing there is nothing to indicate a downswing in the general economy in the near future.

ASBESTOS - RAW MATERIAL.

Quebec asbestos fibre shipments for the Industry during March 1964 were 75,358 tons, an increase of 8,138 tons or 12% over the same period last year.

Year to date shipments at 202,964 tons are running 29,388 tons, or approximately 16% ahead of the same period last year.

ASBESTOS MANUFACTURED GOODS.

Asbestos Textiles. Sales for the first quarter of 1964 were the highest recorded for the same period in more than a decade. New orders continue at a high level and price stability is evident throughout the industry. With the high rate of productivity continuing in all major industries, there is every reason to believe that the Asbestos Textile Industry is in a most favored position to exceed the average rate of growth of manufacturing industries of the country in 1964.

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BUILDING

JULY 1964—According to F. W. Dodge Company, a division of McGraw-Hill, Inc., the value of construction contracts in the United States, during July 1964 (with percentage changes from July 1963) totalled $4,601,334,000, up 12%; nonresidential building, $1,547,531,000, up 22%; residential building, $2,000,168,000, up 3%; and, nonbuilding construction, $1,053,635,000, up 14%. At the end of seven months, 1964 contract value, at $28,697,165,000, was leading the amount for the comparable 1963 period by 8%.

After a period of some hesitancy, the latest month's construction contract figures again are compatible with the many other buoyant economic indicators which have been making the news lately. Stores warehouses, factories, and electric utilities all played a large part in the July gain which was chiefly the result of a broad advance in industrial and commercial building activity.

THE FLINTKOTE COMPANY directors held their first board meeting in the Middle Branch, Ohio, office of the Diamond Portland Cement Company. Diamond Portland became a division of Flintkote in 1960. At the conclusion of the meeting, the directors reviewed Diamond Portland's $3,000,000 modernization program and then toured Flintkote's new asbestos-cement pipe plant at Ravenna, Ohio built and operated by Flintkote's Orangeburg Manufacturing Company division.

ASBESTOS CEMENT SPECIALIST

with 20 years experience as Engineer and Works Manager for pipes, sheets and moulded goods seeks new field of activities. Fluent in English, French and German, and in excellent health. Reply in confidence to: Box No. 8-KB-85, c/o "ASBESTOS", 807 Western Saving Fund Building, Philadelphia, Pennsylvania 19107, U.S.A.

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NICOLET INDUSTRIES, INC., has recently put into use at its plant in Ambler, Pennsylvania, a giant 6,000-ton monolithic board-producing press which plays an integral part in the factory's manufacture of asbestos-cement products. One of the few such presses being used in the industry, this machine makes the 4x8-foot asbestos-cement sheets, or blanks, from which Nicolet's Monodestos, Resistal, KolorMate and Ebonized Asbestos products are formed. The huge press exerts pressure up to 2,800 psi, compressing a mixture of asbestos, cement, selected fillers and water. Each blank is produced individually from carefully measured, prepared and cleaned mixtures of ingredients to give uniform texture and physical properties. The mixture is then automatically discharged into the diebox where it is compressed by the 50-ton moving platen. Careful adjustment is needed to assure that just the right amount of pressure is applied to the mixture to produce the blank of desired density.

The huge press, which weighs some 375 tons, does not make the finished Nicolet product; it produces the rough sheet that subsequently undergoes various curing, sanding and impregnating processes, depending on the product being made. But by the texture and density of the blanks it does turn out, the monolithic press greatly dictates the quality of the end product.

At present, the press is running 24 hours a day and is capable of producing asbestos-cement sheets up to 4 inches in thickness.

KOLORMATE—Nicolet Industries, Inc., Florham Park, New Jersey, manufacturer of a wide variety of asbestos products, is offering a new catalog describing its KolorMate asbestos-cement sheet. The handsomely-illustrated brochure, available to laboratory equipment manufacturers, designers, hospital and school architects, contains data on KolorMate's physical properties and chemical resistance characteristics. Also included are photographs showing various KolorMate applications in laboratory furniture, building interiors and as architectural panels.

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THE NORTHERN MINER, to celebrate its 50th anniversary in March of this year, has issued a magazine supplement by Norman C. Pearce entitled "50 Years Of Mining". This interesting 16-page supplement relates the story of The Northern Miner, the tale of its times, and an account of its career.

HUMES LIMITED has issued *Technical Bulletin No. 1*, the first of many supplements to "Hume News", the company's monthly journal. This supplement is being introduced as a service particularly to engineers, architects, contractors, and others engaged in work in which technical knowledge is an advantage. The first bulletin pertains to choosing, ordering and designing concrete pipes and further Technical Bulletins will be issued whenever useful material is available.

ASBESTOSPRAY CORPORATION has issued an interesting brochure listing description, application, contractors, and engineering service information as well as the advantages of *Asbestos High Temperature Insulation*. This insulation is a quality mixture of virgin African asbestos fibers and inorganic heat-resistant binders. The components have been combined by a controlled blending process which assures product uniformity and optimum consistency for spray application.

THE NEW WORLD OF FABRICS, by Irmengarde Eberle, is a very interesting, informative and beautifully illustrated book describing the use of textiles, where and how the raw materials are obtained, and how these materials become fibers and then are woven, by hand or machinery, into fabrics. Included in this book is a chapter on asbestos fiber and cloth. One of the purposes this book is for use by schools and public libraries and is available from the publisher, Dodd, Mead & Company, New York City, at $2.79 per copy. (Editor's Note: It will interest our readers to know that the author of this book is the wife of Arnold W. Koehler, who is well known in the Asbestos Industry.)

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Building

The value of contracts for future construction work reached an all-time high of $4,864,226,000 in MAY 1965, 5% ahead of May 1964, it was reported by F. W. Dodge Company, a division of McGraw-Hill, Inc. This month typically brings the year's peak in the value of new construction contracts. Nonresidential building contract value surged ahead to $1,774,580,000, an amount 30% above May 1964. Commercial and manufacturing building continued to spark the growth in nonresidential contracts. Large percentage gains also scored in educational, public, and social and recreational building; hospitals and religious building values declined. Residential building contract value was $2,071,171,000 exceeding the still-buoyant year-ago amount by 1%. One family housing, up 6%, provided all of the increase in May. Contracts for apartments and nonhousekeeping units were both below their totals. Nonbuilding construction contract value totaled $1,015,475,000 and was 17% below the year-ago amount. Streets and highways declined 12%. In addition, the sharp decline in contracts for dams and reservoirs reflects, in part, the fact that several big projects were included in the year-ago figures. Utilities construction held about even with last year.

At the end of five months, cumulative construction contract value was $20,095,889,000 to lead the same period of 1964 by 2%.

BALDWIN-EHRET-HILL, INC. is offering a four-page bulletin explaining how *Thermasil* calcium silicate insulation inhibits stress-corrosion of stainless steel piping, vessels and other equipment operating at temperatures up to 1200°F and gives results of six-day exposure in accelerated Dana test. This bulletin also contains data on physical properties, thermal conductivity, and compliance with Government and ASTM specifications. Thermasil pipe or block insulation is a molded, hydrous calcium silicate insulation—a blend of special inorganic ingredients reinforced with selected long asbestos fibers.

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WALTER E. MILLER, 72, Chairman of the Board and Executive Vice-President of Philadelphia Asbestos Corporation, died on Friday, August 20th, 1965. Mr. Miller had been associated with the insulation firm for 27 years having begun his career as a salesman-estimator. Active in trade association work, he helped to organize the Insulation Distributor-Contractors National Association, Philadelphia Insulation Contractors Association and the Middle Atlantic Insulation Contractors Association and served all three groups as an officer and director.

HOME IMPROVEMENT COUNCIL.—The first annual Southern Regional Home Improvement Conference will be held at the Fontainbleau Motor Hotel, New Orleans, Louisiana, October 3rd and 4th, 1965. The Conference will be co-sponsored by the National Home Improvement Council and the New Orleans Chapter of NHIC.

WANTED TO BUY

1. Used asbestos-cement sheet machine—flat—corrugated; any capacity.

2. Used or new equipment to mold asbestos-cement railroad cross-ties.

For immediate action, write or wire all details of location and prices to Box No. 9-UH-NH, c/o ASBESTOS, 807 Western Saving Fund Building, Philadelphia, Pennsylvania 19107, U.S.A.

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Automobile Sales

AUGUST 1965 motor vehicle factory sales from plants in the United States totaled 444,723 (passenger cars 332,980; trucks and buses 111,733). The total for August 1964 was 339,575. The figure for the first eight months of 1965 was 3,354,553 compared with 6,274,049 for the same period 1964. (Automobile Manufacturers Association)

ASTM COMMITTEE C-17 (Asbestos-Cement Products) — Binders of asbestos-cement products were the subject of a talk presented to Committee C-17 at its Technical Committee meeting. The talk described a study of ten autoclaved and nine normally cured asbestos-cement products which included differential thermal analysis, X-ray diffraction and uncombined calcium chloride analyses.

In the subcommittee works are: advancement of cooperative program to evaluate the Canadian color stability test; study of chemical stability, water hardness and related test methods; formation of task group to consider freeze-thaw tests and exposure to sea water; subcommittee ballot of revisions in strength requirements in specification for asbestos-cement roofing (C 222); letter ballot of revisions in strength and moisture absorption requirements in specification for asbestos-cement siding (C 223); preparation of revised draft for a specification for asbestos-cement bulkhead siding; preparation of specification for insulating panels in which cores are other than fiberboard; review of specifications for linings for asbestos-cement pipe (C 541 T) following suggestions for revision from Committee C-3; and, preparation of proposed specification for asbestos-cement irrigation pipe.

ASTM has designated the annual $6500 free-grant doctoral fellowship as the ASTM Robert J. Painter Memorial Fellowship in memory of the late Robert J. Painter, ASTM executive secretary from 1952 to 1960. Through the years, Mr. Painter was one of the leading spirits behind the development of ASTM's fellowship and grants-in-aid program.

ASTM COMMITTEE WEEK—Shoreham and Sheraton Park Hotels, Washington, D.C., January 30th through February 4th, 1966.

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MARINITE—The Marinite pressed asbestos insulation board, manufactured by Marinite Limited, London, England, and mentioned on page 16 of October 1965 ASBESTOS is not to be confused with Johns-Manville Corporation's trademark "MARINITE". According to Johns-Manville, the only structural-insulating boards available in the United States under the trademark "MARINITE" are manufactured by J-M and the "MARINITE" boards suitable for use in drying chambers are made at J-M's plant at North Billerica, Massachusetts.

SIMPLICITY ENGINEERING COMPANY has issued Catalog 610-65 which describes its line of vibrating pan and grizzly feeders. Construction features and specifications for the five models of Ox-A-Veyor pan feeder are included, as are detailed descriptions of the grizzly feeders available. The 28-page catalog provides drawings and specifications for all feeder models, a chart that quickly computes required feeder capacities, an information form that itemizes all data needed to specify the proper feeder for a particular job, and a diagrammed explanation of the Simplicity Ox-A-Veyor assembly.

LEAD-ASBESTOS PADS—Studies at the Research Building of the Retina Foundation in Boston, Massachusetts, require microscopes so delicate that the vibration caused by a subway 400 feet distant from the building threatens the precision of measurements being made. When the Research Building was erected, this disturbing vibration was quelled almost at the source with lead-asbestos anti-vibration pads. The new building is an extension of the original 3-story laboratory which is also built on lead-asbestos anti-vibration pads. About 50 pads were installed in the original laboratory and results were so successful the owners decided to use them again in the new building—a total of 36 additional pads. Although the pads protect against vibration from the subway, their main function is to isolate delicate laboratory instruments of various kinds from disturbances created by motor traffic on two busy flanking streets.

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J-M CHEMTITE The availability of Chemtite asbestos reinforced plastic drain and vent pipe and mitred fittings in 6-inch diameter has been announced by Johns-Manville Corporation. Six-inch Chemtite pipe is supplied in either epoxy or phenolic resin and is recommended for non-pressure service only, such as venting corrosive gases and vapors or conveying corrosive liquid in gravity service. The new large diameter Chemtite exhibits the properties of light weight, fast inexpensive installation, and wide range of chemical resistance. It is recommended for highly corrosive service at temperatures from minus 50 F. to plus 300 F., and is supplied in Standard IPS schedule 40 OD.

J-M ASBESTOS-ASPHALT PAVING REPORT A report issued in conjunction with the annual meeting of the National Asphalt Paving Association indicates that use of asbestos-asphalt mixes during 1965 showed gains in two directions: the amount of material used and the numbers and types of applications. The report, the fourth such annual report issued by Johns-Manville, surveyed facts and figures going back to 1960 when growing interest in asbestos-asphalt was first observed in the paving industry. Use of asbestos fiber in asphalt mixes has increased four-fold in volume since that time, and many times that in the variety of its application. Chief high volume uses of asbestos-asphalt mixes, reports J-M, are in thin overlays, bridge deck surfacing, and curbing. Many new applications have been reported during 1965 including use in critical high traffic density roadways, problem surfaces such as decks of wooden and steel barges, and critical applications such as hydraulic construction for use as linings of canals and embankments of dams.

CORRECTION A profile of *Marie-Louis Trepanier* appeared on page 18 of the January 1966 issue of ASBESTOS. To bring this profile up-to-date, Mr. Trepanier is now Plant Manager of Asbestos Corporation Limited Normandie Mine, and no longer mayor of the city of Thetford Mines.

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PRODUCTION

California—According to Mineral Information Service (publication of California Division of Mines and Geology), production of asbestos for the YEAR 1965 has been estimated at 70,000 short tons, valued at $6,009,000.

Japan—Asbestos produced in Japan during 1963 (16,520 metric tons) and 1964 (16,310 metric tons) came entirely from chrysotile deposits in Hokkaido, Yamabe District. In the past, a small quantity of amphibole was mined principally in Kyushu. Year-end stocks amounted to 1,389 metric tons in 1963 and 1,282 metric tons in 1964. (U.S. Mineral Trade Notes)

Greece—The recent establishment in Greece of the State-owned Societe Generale de Recherches et d'Exploitations Minieres, exclusively devoted to the development of the country's mining activities, is generally regarded as a major step towards the more active exploitation of Greece's mineral potential. This organization is an offspring of the State-owned Greek Development Bank (E.T.B.A.), formed in September 1964 by a merger of three development companies (Industrial Development Company, Finance Organization for Economic Development, and Credit Organization for Tourism).

A promising asbestos deposit has been found near Kozani and is being developed. Mining and processing are to be started by 1968, with an initial output of 10,000 metric tons of asbestos annually worth some U.S. $2-million.

Australian Bulletin—The Australian Mineral Industry: The Mineral Deposits is available as Bulletin 72 from the Department of National Development, Bureau of Mineral Resources, Geology, and Geophysics, P. O. Box 378, Canberra City, A.C.T., Australia (£6/$12.00—chapters available at 2s.6d/25¢ each). The aim of this 690-page, 55-chapter bulletin is to provide a reference volume outlining Australia's mineral resources. As far as possible, all known deposits of actual or potential economic importance, and deposits or fields from which production has been recorded in the past, are listed, and a brief description is given of the geology of the more important, including many which are no longer productive. A very comprehensive chapter on asbestos is included in the bulletin.

Canada's Asbestos Mines 1963 (Catalogue No. 26-205, annual, 50¢) is available from the Dominion Bureau of Statistics, Industry Division, Ottawa, Canada. It covers statistics on the asbestos mining industry including production, shipments, tonnage of rock mined and milled, imports and exports of asbestos and asbestos products, etc.)

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Algeria, Belgium, Bulgaria, Canada, Denmark, France, Egypt, Eire, Finland, Great Britain, Greece, Holland, India, Iran, Iraq, Italy, Kuwait, Lebanon, Liechtenstein, Morocco, Nigeria, Norway, Pakistan, Portugal, Rumania, Spain, Sweden, Switzerland, Tunisia, Turkey, Uganda, Uruguay, Viet-nam, West Indies.

Husley Development Corporation, Time & Life Building, New York.

United States of America, Yugoslavia.

In Australia, address inquiries to:—

AUSTRALIAN BLUE ASBESTOS PTY. LTD.
89 St. George's Terrace, Perth.
Western Australia.

Exports From Canada

(Published by Dominion Bureau of Statistics)

JANUARY 1...

Unmanufactured Asbestos:

	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
			Short Tons	
United States	12	1,540	21,305	36,293
United Kingdom	..	170	6,875	4,523
South America	..	48	4,567	1,816
Cen. Amer. & Mexico	..	..	1,027	56
Europe	7	1,795	22,767	14,681
Japan	..	7	780	3,027
Other Countries	..	58	3,127	800
	19	3,638	60,428	61,197

Total Unmanufactured Asbestos--125,282 Valued at--$15,692,000

Manufactured Asbestos Goods:

Asbestos Brake Linings & Facings	$ 59,000
Asbestos-Cement Building Materials	150,000
Asbestos Basic Products, Other	47,000
	$ 256,000

(Published by Dominion Bureau of Statistics)

FEBRUARY 1966

Unmanufactured Asbestos:

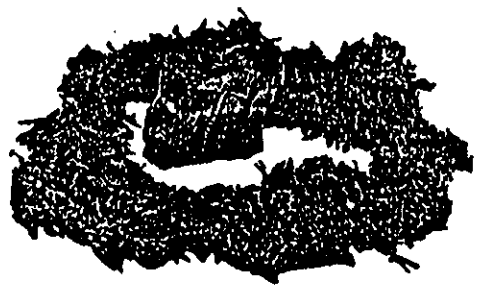
	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
			Short Tons	
United States	2	931	28,184	38,772
United Kingdom	..	70	1,678	1,262
South America	..	..	484	362
Cen. Amer. & Mexico	..	50	746	269
Europe	..	1,051	12,098	3,130
Japan	..	46	785	259
Other Countries	..	..	3,723	1,160
	2	3,188	39,790	45,155

Total Unmanufactured Asbestos—87,135 Valued at—$10,402,000

Manufactured Asbestos Goods:

Asbestos Brake Linings & Facings	$ 122,000
Asbestos-Cement Building Materials	40,000
Asbestos Basic Products, Other	17,000
	$ 179,000

Australian Blue Asbestos Pty. Limited



Australian Blue is an ideal fibre for asbestos cement and for purposes requiring good heat insulation and acid resistance. It has excellent spinning properties. Samples available on request.

SOLE SELLING AGENTS

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and Armstrong Cork Company. Ferodo Limited is during non-slip stairtreads, which are extensively us 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

Australian Blue Asbestos Pty. Limited



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Exports From Canada

(Published by Dominion Bureau of Statistics) JUNE 19

Unmanufactured Asbestos:

	Crude	Milled Gp 3	Milled Gp 4&5	Short Tor Shor Gp 6
United States	..	1,057	16,226	28,6
United Kingdom	..	112	1,058	7
South America	..	..	2,768	2
Central America & Mexico	..	60	3,976	3[illegible]
Europe	..	70	4,226	1,206
Japan	1	40	320	1,320
Other Countries	..	..	6,667	246
	1	1,339	34,192	43,616

Total Unmanufactured Asbestos—78,578 Valued at—$8,976,000

Manufactured Asbestos Goods:

Asbestos Brake Linings & Facings	$ 11,000
Asbestos-Cement Building Materials	112,000
Asbestos Basic Products, Other	63,000
	$ 186,000

ASBESTOS CEMENT PLANTS
FOR HIGH AND LOW PRESSURE PIPES

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.
The production quantity is very high, the quality excellent, better than the BSS prescriptions. Prices beyond competition.

SILVANIT

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(Italy)
Phone 474.874

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