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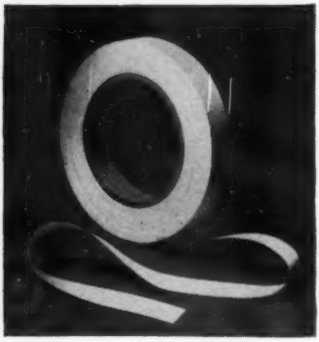


*Asbestos Corporation Limited's Normandie Mine, near Coleraine, Quebec, Canada.*

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# MODERN TESTING METHODS

**(Part I of a series of articles entitled "Modern Testing Methods", by Charles Z. Carroll-Porczynski, Head Deputy, Textile Testing Department, British Belting & Asbestos Ltd., Cleckheaton, Yorkshire, England.)**

## ASBESTOS TEXTILES LEVELNESS TESTING.

The ultimate aim in every textile spinning process is to produce yarn with perfect uniformity of thickness along its length and of equal thickness in all bobbins spun. This also applies to asbestos trade and the analysis of the customers complaints confirms this statement beyond any doubt.

The main source of the irregularities found in asbestos yarns is the asbestos card. Any fault arising in this process tends to be emphasized in the final product due to the fact that the subsequent spinning stage is merely the twisting operation with complete asbsence of doubling and drafting employed in the manufacture of other man-made or natural fibres, and consequently there is no further chance to eliminate or reduce such faults. The two main types of variations are: (1) Variation "across" the asbestos card, and (2) Variation along the roving.

One of the practical methods of determining variations "across" has been originally developed at Torridon for woolen cards in order to simplify the testing procedure and to enable the test to be carried out on mill cards with a minimum of stoppage or interruption of production and little waste of material.

This method is equally suitable for asbestos and the the test can be carried out at any time during the running of the card.

Procedure—The machine is stopped, and for each condenser-bobbin, strips of stout but flexible paper about 2 inches wide and slightly longer than the condenser-bobbin are inserted into the angle between the cheeses of roving and the "incoming" ends of roving. The card is then started and is run for a length of time dependent on the size of sample required. About 100 revolutions of 9 inches diameter surface drums has been found to be the minimum amount which gives satisfactory results. The



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card is again stopped and a second set of paper-strips inserted. About five revolutions of the drums are now made, and the condenser-bobbins are removed in the normal way, and taken to a bobbin-stand.

All layers of roving resting on top of the second set of strips are now very carefully cut with scissors, sliding one blade along the paper surface, and the resulting loose surplus roving is removed. The papers will now fall away.

Similar cutting is now done above the first strips of paper. Care should be taken to ensure that all roving ends lying above the strip are cut, and material should be cut from one cheese only at a time, i.e. some slight separation of cheeses by hand may be necessary, but this operation has never been found difficult. As removed, the samples of roving are placed in numbered envelopes or wage packets, and later weighed.

Care must be taken, of course, in numbering the condenser-bobbins, and it is recommended that they are marked at the left-hand side of the condenser and numbered downwards in the condenser for later identification.

One advantage of the method is that every length of roving is automatically obtained "in phase", i.e. represents carding during the same period of time.

Roving variation may be represented graphically as well as statistically. The variation "across" has two important aspects: (a) The magnitude, which can be calculated as the coefficient of variation and (b) a characteristic shape or pattern i.e. graph has a certain form due to the manner in which the weight of roving is distributed between various ends across the condenser.

Examination of the graphs may indicate whether the variation is of a random or recurrent nature and may provide information leading to the identity of a particular defect in the card such as: (a) the incorrect setting of the hopper or intermediate feed, or (b) the presence of abnormally slack or abnormally tight condenser tapes.

The variation along may be determined by cutting and weighing short (1-2 inch) or long (several feet or yards) lengths of roving, the results being usually presented graphically. This well known method is somewhat



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tedious and not always accurate due to the difficulties in maintaining uniform tension during unreeling and cutting of the samples and generally is unpracticable for routine mill work in view of the length of time required for such tests.

The standard types of electronic instruments developed for testing of the regularity of woolen or cotton slubbings are not suitable for asbestos as the normal or commercial asbestos yarn is made from one or more varieties of asbestos containing varying amounts of iron (magnetic rating), mixed with about 10 to 15% of cellulosic fibres (viscose or cotton).

The only instrument which has proved so far to be of interest to the asbestos industry is the V. I. R. A. Roving Levelness Tester developed by Dr. Martindale for testing worsted tops and rovings. The author's early attempts to adopt this instrument for testing the regularity of asbestos roving were not very succesful due to the following causes: (a) accumulation of short fibres in the measuring rollers, (b) the tendency of roving to draft out by 10% or more.

Further experiments however, carried out by W. I. R. A. at Torridon, with the use of a modified version of this levelness tester has produced satisfactory results.

The difficulty mentioned in (a) was overcome by fitting to both the rollers a set of clearers or scrapers to prevent the fibres remaining on the testing surfaces, and the drafting effect was reduced by making both rollers positively driven and by a modified feed channel which narrows and grips the material for only a short distance, just before it is fed into the grooved roller.

It was also found that the worsted type creel was not generally suitable for asbestos roving due to the much lower strength of the latter, and this was therefore replaced by a package holder requiring much less force to turn it.

The Levelness Tester is designed to produce a pen-on-paper trace of the thickness variations in a roving or slubbing, and the basic principle of its operation is as follows:

The creel stands at the side of the machine and from



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# J-M Asbestos Cloth

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## Johns-Manville ASBESTOS TEXTILES

*This advertisement appears in*
TT-3424 Asbestos—May, 1955



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this roving is fed through the nip of two rotating wheels or rollers. The lower roller have a groove in its circumference, and the upper roller presses the roving into this groove. As the roving is drawn through the machine by the positive drive to the lower roller, the upper roller rises and falls as the roving thickness varies. The movement of the upper roller is magnified and transmitted by a system of levers to a pen recording in ink on paper. The magnification factor can be varied by adjusting a micrometer screw (normally kept clamped) and the ratio of chart length to roving length can be varied by moving gear box levers.

There are four sets of rollers (grooves and wheels) which cover the range of sliver and roving weights given in the table below:

| Width of groove in lower roller | oz/5-yds. | Drms/40-yds. | Measurable Roving Weights Grains/yd | Grms/Metre |
|---|---|---|---|---|
| 1/32 inch | .... | 2 to 6 | 1½ to 4 | 0.1 to 0.3 |
| 1/16 inch | .... | 6 to 30 | 4 to 20 | 0.3 to 1.5 |
| 1/8 inch | .... | 30 to 120 | 20 to 80 | 1.5 to 6.0 |
| 1/2 inch | 1 to 4½ | 120 to 600 | 80 to 400 | 6.0 to 30.0 |

These figures are given by W. I. R. A. as being specifically applicable to worsted material, but they are also approximately correct for asbestos.

The ratio of chart length to sliver length can be 1/2, 1/5, 1/10, 1/20, 1/50 or 1/100.

The irregularity of two rovings of the same weight per unit length can be compared by visual examination of the chart. If, however, it is desirable to detect small differences in irregularity, the charts must be measured. The full value of the instrument in its application to asbestos may be best illustrated by the summary of an experiment carried out by the W. I. R. A. on an asbestos card. In one case, 12 ends of asbestos rovings were collected in a suitable manner for investigation and each of the 12 ends of roving was passed through the levelness tester. The charts produced were then studied together and the coefficients of variations were calculated in some instances. Taking the end number from left to right on the front of the condenser, the samples being placed in correct sequence as dictated by tape order, the numerical re-



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sults obtained from the levelness tester were as follows:

| Sample No. | 3A. | 1A. | 4A. | 2A. | 3B. | 1B. |
|---|---|---|---|---|---|---|
| End. No. | 1. | 2. | 3. | 4. | 5. | 6. |
| Mean Chart) | | | | | | |
| Ht. (ins.) | .969 | .764 | .955 | .767 | 1.013 | .881 |
| C. of V. % | .... | .... | .... | .... | 30.43 | 26.36 |

| Sample No. | 4B. | 2B. | 3C. | 1C. | 4C. | 2C. |
|---|---|---|---|---|---|---|
| End No. | 7. | 8. | 9. | 10. | 11. | 12. |
| Mean Chart) | | | | | | |
| Ht. (ins.) | 1.000 | .756 | .958 | .857 | .972 | .860 |
| C. of V. % | 26.86 | 40.47 | .... | .... | .... | .... |

The Mean Chart Height is an indication of the weight per unit length of the roving under examination, the length of roving tested in arriving at the figures being 10.5 ft. in each case.

The points which were observed in the results were as follows:

(1) The charts showed that high spots sometimes occurred simultaneously on adjacent ends. This may be taken as indicative of a variation in the thickness of the web along the card in the corresponding region.

(2) The same chart showed that a long term variation was taking place along the card. This was portrayed by a gradual falling off in the chart height for all ends, with the possible exception of the first.

(3) The mean chart heights given in the table show that there was a fairly regular variation in roving weight across the card, this being shown by the fact that two high mean chart heights were separated by a low one. It is felt that this variation was probably introduced by the condenser tapes. However, the average deviation from the average mean chart height (.896") is only 8.2% and within a 10% limit normally accepted in the asbestos trade.

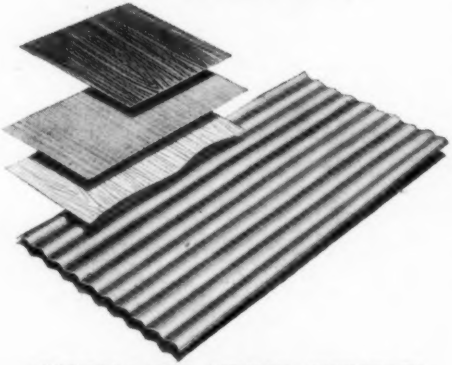
The reliability of the Roving Levelness Tester in the examination of asbestos roving has been proved at Torridon by testing samples of roving of four different counts whose nominal value in yards per pound were 450; 800; 1,450; 2,500. In this investigation, roving was passed through the tester at two speeds: (1) a fast speed—that available on commercial models—the hundred readings



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being spread over 17.8 ft. of roving; (2) a slow speed, the hundred readings being taken within 6.2 inches.

At the beginning and end of each hundred readings, the roving in the groove was marked with a spot of ink. The lengths of roving between the ink marks were subsequently cut out from the bulk and weighed. The weights per unit lengths were thus obtained together with the Mean Chart Heights (M. C. H.) from the computor readings.

The total range in weight per unit length was from .0016 to .0126 gms. per cm. and that in Mean Chart Height from .25 to 2.1 inches approximately, and this probably covers the normal range over which the tester would be required to work.

For each of the four samples and at each of the four speeds, ten pairs of results (weight per unit length and M. C. H.) were obtained so that for each speed, forty pairs of results were available for analysis.

**(Part 2 will be published in a future number of "ASBESTOS")**

## ASBESTOS 1895 - 1955

Sixty years ago, a tiny village at the foot of Webb Mountain (Quebec, Canada marked the site where the city of Asbestos now stands. Due du Roi was a muddy lane, leading to the village of Wotton and the whole village consisted of a few wooden buildings.

In 1897, the first Roman Catholic priest was appointed to the community and two years later, seceding from the township of Shipton, the village was named Asbestos. The first mayor was H. Roux and U. J. Bruneau was secretary-treasurer. The population was 600.

In 1901, the first general store was opened and the village became a town. By 1921, its population has risen to 1908. Today, 10,000 people live in Asbestos, 93 per cent of them French-speaking. All this growth has resulted from the operation of Canadian Johns-Manville which mines and mills the district's asbestos.

In the meantime, Webb Mountain has disappeared. In its place is the great Jeffery Mine open pit.

(From the March 1955 issue of "The Producer".)



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# CHRYSOTILE - DEPOSITS OF ARIZONA

By L. A. Stewart, Bureau of Mines,
Information Circular 7706

This paper describes most of the chrysotile-asbestos deposits of Arizona. Mining methods are discussed briefly and asbestos-mill flowsheets are incorporated. Arizona asbestos mines are the only sources on the American continents of naturally iron-free chrysotile spinning fibre that is so urgently needed for electric-cable coverings, especially on warships.

Asbestos was first recorded and recognized in Arizona in 1872, and a minor amount was produced from a deposit in the Grand Canyon in 1900. The discovery of a deposit in the Salt River district in 1912 initiated intensive prospecting, and deposits soon were developed. The total Arizona production of all grades of asbestos through 1953 is estimated at 30,000 to 35,000 tons.

The deposits of the Central Arizona region, which are discussed in this paper, are scattered over nearly 2,000 square miles. The annual output is relatively small, because the asbestos occurs in thin, discontinuous veins and only in areas where intrusions of diabase are adjacent to or crosscut certain favorable units of the pre-Cambrian Mescal limestone. This stratigraphic limitation, combined with other essential geologic conditions, tends to restrict the size of the deposits.

Virtually all of the deposits are in rugged, mountainous country, and many of the mines are on steep canyon walls. In the average mine, production of 1 ton of commercial asbestos requires removal of 30 to 40 tons of waste rock. Mining and transportation costs consequently are high.

Several deposits of chrysotile that is somewhat harsh and of moderate tensile strength have been known for years but were not worked because of the former exacting demands of industry for high-strength, soft asbestos. However, improvements in asbestos fiberization and spinning technique, combined with the urgent need for asbestos, have made this so-called semi-soft fibre desir-



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able, and deposits of this type are now being exploited.

Copies of this Information Circular No. 7706 are obtainable from the U. S. Bureau of Mines, 4800 Forbes St., Pittsburgh 13, Pa.—no charge.

## 85% MAGNESIA MANUAL REVISED

Revision of the "85% Magnesia Insulation Manual" with 80 pages of text, illustrations and tables has been completed by The Magnesia Insulation Manufacturers Association. The first edition was published in 1949. The revised second edition offers new engineering and product data. Copies are available to those concerned with heat insulation by writing the Association at 1317 F Street, N.W., Washington 4, D. C.. stating company and title.

The new edition of the manual contains an explanation of the chemical and physical properties of 85% Magnesia, together with new conductivity, density, and fire-resistance data. The new water-resistant magnesia insulation for underground conduits and other locations subject to flooding or excessive moisture is described. A section is devoted to recommended application techniques for hot piping and equipment.

Tables include the new simplified thicknesses to which 85% Magnesia and diatomaceous silica pipe insulation are manufactured, replacing the obsolete thicknesses such as "standard". Nominal and actual thicknesses are given for pipe sizes up to 24 in.

Lower conductivity (k-factor) of the modern product and adoption of "simplified thicknesses" required recalculation of heat loss tables. These are incorporated in the new edition for 85% Magnesia pipe and block insulation and for combinations of diatomaceous silica and 85% Magnesia insulation. They cover a wide range of operating temperatures of pipe sizes and insulation thicknesses.

The complete data offered are applicable to hot piping and equipment for industrial, commercial, institutional, marine, railway and other users of heat insulation.



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# ASBESTOS

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# DIAMOND DRILLING IS VITAL PART OF ASBESTOS EXPLORATION

"Hot Rodding" for asbestos hundreds of feet below the earth calls for rod grease to lubricate the movements of the rods in the hole, diamond drill bits to get down there, and a purpose. The purpose is the urgent need to seek new sources of asbestos fibre to meet the ever-growing demand for the "magic mineral".

J-M geologists in the Exploration Department of the Asbestos Fibre Division use diamond drilling in areas where magnetometer surveys indicate the existence of favorable series of serpentine rock. Asbestos occurs in serpentine rock. Serpentine rock has a high magnetite content, and a detailed and highly accurate geological map may be produced from magnetometer surveys.

In order to find out whether asbestos-bearing ore occurs in quantity and quality where geologists think it should be, samples of the ore must be obtained. Diamond drilling is required to bring up the ore samples in the core barrels attached to the end of the drilling rod. With few exceptions, most of the diamond drilling is done by contractors. J-M uses between 150 to 450 diamond drill bits a year. Since the bits are supplied by the contractor, the consumption of diamonds in the bits is included in the contractor's drilling price. A notable exception to this was a job done by J-M geologists in Columbia. There they consumed approximately 5,990 carats in a total of some 400 to 500 bits.

Several varieties of diamond drill bits are used, and the bits are of different sizes and contain different weights of diamonds. Prices of the bits vary according to the diamond caratage contained in the bit. For instance, an AXT bit (with an outside diameter of 2.3 inches) varies in average cost between $75.00 and $90.00.

In the normal drilling operation, a five or ten-foot core barrel is used, and under ideal conditions, the rods would be pulled to the surface when the core barrel was filled with rock. When drilling in bad ground (what geologists call fractured ground), the rods might have to



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**500 Fifth Avenue, New York 36, N. Y.**

**The RUBEROID Co.**

**ASPHALT AND ASBESTOS BUILDING MATERIALS**



*Asbestos Magazine, 1955, May 1955*
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be pulled after each two or three inch advance. This is a role the diamond plays in the quest for asbestos.

(From J-M Pictorial News, April 1955.)

## A.S.T.M. - ANNUAL MEETING

A wide range of subjects relating to research and testing of engineering materials will be discussed at the 58th Annual Meeting of the American Society for Testing Materials to be held at Chalfonte-Haddon Hall, Atlantic City, N. J., June 26-July 1, 1955. A total of 30 sessions are now scheduled beginning on Monday morning and continuing until Friday noon. Six symposiums are scheduled on the following subjects: impact, judgment factors in soils testing, significance of tests of concrete, high purity water corrosion, speed of testing, and metallic materials for service above 1600 F. In addition, sessions are scheduled at which individual papers will be given on the subjects of soils, non-ferrous metals, steel, testing of materials, and fatigue.

Important on each year's program are two lectures, the Edgar Marburg Lecture and the Gillett Memorial Lecture. The Marburg Lecture this year will be given by Dr. Walter J. Hamburger, Director, Fabric Research Laboratory, Inc., Boston, Mass., on the subject of textile fibres. Dr. Fritz V. Lenel, Renssalaer Polytechnic Institute, will give the Gillett Memorial Lecture on metal powders.

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Dwight D. Eisenhower, President of the United States of America proclaimed the week beginning May 22, 1955, as World Trade Week; and requests the appropriate officials of the Federal Government and of the several States, Territories, possessions, and municipalities of the United States to cooperate in the observance of that week.



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# DRYLON
# WET MACHINE FELTS

**Wool and Nylon Blend Fleece**

**Carefully Engineered**

**To Meet**

**Your Individual**

**Problems**

**In**

## ASBESTOS CEMENT PRODUCTS

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## ASBESTOS PAPER

** Our Patented Construction Places the Nylon Where It is Most Effective*

# DRYCOR FELT COMPANY

**STAFFORDVILLE, CONN. USA.**

**Nylon Has Proved Itself Essential in Asbestos Cement Felts*




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# VAST ASBESTOS SOURCE AT BOTTOM OF LAKE

Dredging commences in May at the east end of Black Lake—in the rich Thetford Mines section of the Province of Quebec—to make available for open-pit mining a newly-discovered deposit of asbestos ore on the lake bottom.

Eventually, the entire lake itself will have to be drained to make this mining operation possible but for the early stages of the work the water level of the lake must be maintained to facilitate the removal of the mud, sand and gravel, covering the ore deposit, by hydraulic means.

This work will be carried on by Lake Asbestos of Quebec, Ltd., Canadian subsidiary of American Smelting & Refining Co., which is to operate the mine under lease from United Asbestos Corp., Ltd., holders of the mineral rights, with Shawinigan Water & Power Co. supplying the necessary electric power.

Plans also call for construction of a mill capable of handling about 500 tons of ore daily.

Preliminary stages of the project involved construction of a channel to divert the Becancour River, now emptying into the lake, to its lower section, the natural outlet for the lake.

This lower section itself has already been deepened and widened for a distance of two miles to ensure rapid run-off during flood periods. A 3-mile roadway has been built to accomodate the 32-inch dredge discharged pipe from the lake to a huge mud-and-gravel disposal area.

The lake is relatively shallow—only 15 feet deep—over much of the area where the ore body lies and it is thought mining can commence before the entire lake has been drained.

Two dams must also be completed. One, just about finished at the south end of the lake, will control the water level during the period of hydraulic dredging. The other, to consist of the dredged material, will block off the basin-like disposal area from the downstream section of the Becancour.



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# SMITH & KANZLER CO.

*Manufacturers of*

**ASBESTOS PAPER**

*Pipe Covering & Blocks*

*Air Cell*

*Wool Felt*

*Anti Sweat*

*Anti Freeze*

*Sponge Felt*

*Multi Ply*

**Established 1920**

**East Linden Ave., Linden, N.J.**




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## BUILDING

Building and engineering contracts reported in the Dodge Reports in the 37 eastern states last month rolled up the highest March dollar totals in history, reports F. W. Dodge Corporation.

The Dodge organization further states that last month's total was exceeded by only one previous month, May 1951, whose total was swelled by huge contracts for atomic energy plants.

The March construction contract total of $2,134,819,000 was 40 per cent ahead of March 1954; 35 per cent ahead of last February, which itself recorded an all-time high for that month.

"When you consider that records were broken month after month through the winter, plus March, it becomes virtually certain that construction will continue at a high rate of activity well into or through the summer; a relatively high rate compared with what we have known in the past," commented Thomas S. Holden, Dodge vice chairman.

"However, while current records are rather spectacular in comparison with those of the past, they do not appear to be out of line with the current needs of our fast-growing economy.

"Even more significant than the March figures alone is the fact that our total for the first quarter was 34 per cent ahead of the first quarter of 1954, the previous high record."

Dodge announced that each of its basic categories of non-residential, residential, and public and private works and utilities, surged well ahead month by month for the first quarter, against the months of last year.

The detailed figures for March; nonresidential, $758,870,000, up 42 per cent over February and up 43 per cent over March 1954; residential, which reached the highest total for this category for any month ever recorded in Dodge's long history, was $989,730,000, up 33 per cent over February and 48 per cent above March 1954; heavy engineering, $386,219,000, up 28 per cent over February and 18 per cent above March 1954.



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# CANADIAN ASBESTOS



THE NICOLET ASBESTOS MINE
Norbestos (via Warwick)
Que.

*Address Inquiries to:*

## NICOLET INDUSTRIES, INC.

**ASBESTOS FIBRE DIVISION**

**70 Pine Street**

**New York 5, New York**



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# MARKET CONDITIONS

GENERAL BUSINESS.

General business continued to show improvment over the month just past. Many figures on first quarter operations are now being released and a goodly number of the larger companies in varied lines experienced record sales and earnings. With the boom apparently gathering momentum many businessmen who, a few months ago, were looking for a definite slackening of activity in the third and fourth quarters of 1955 are now considerably more optimistic and some are quite confident that exceptionally good business will continue throughout the year. On the debit side, the automobile makers are continuing to produce at a record rate and retail sales are not keeping pace. Should present union negotiations break down and should a strike result, dealers could raise prices (by decreasing trade-in allowances) and move their stocks at much improved profit margins. Strike or no strike it seems a curtailment in production is inevitable and this would adversely affect employment and consumption of raw materials by the auto producers and their many suppliers.

ASBESTOS — RAW MATERIAL

It has become quite evident that the asbestos fibre supply/demand ratio has entered a new phase.

Currently all grades with the exception of crude are in plentiful supply and the hectic days of over demand and under supply are a thing of the past.

Normal growth is expected to continue, however, as current uses increase in volume and new uses are developed

The first quarter of 1955 was roughly 5% over the same period of the preceding year and the month of April should exceed in output and shipments the month of March.

ASBESTOS — MANUFACTURED GOODS

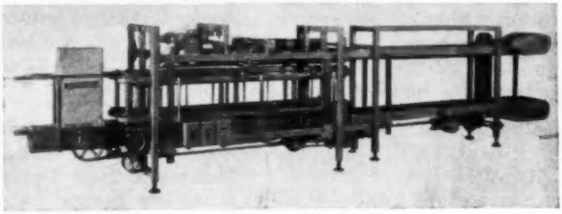
*Asbestos Textiles.* Demand seems to be reasonably satisfactory. Most plants are working on government orders booked some months ago. However, many consistent buyers of asbestos textiles, such as garment manufacturers, electrical producers, etc. have stepped up purchasing.



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- **ADJUSTABLE—to the accepted range of ASBESTOS Bale Sizes.**
- **AUTOMATIC—can be furnished with or without tucking device.**
- **NEW—engineered with the most advanced electrical and mechanical features available.**
- **STURDY—built for efficient-trouble-free performance to give long years of continuous service—finest workmanship and materials.**
- **CUSTOM—DEVELOPED OUT OF THE EXPERIENCE IN THE ASBESTOS INDUSTRY.**



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**Canadian Johns-Manville Corp.**
**The Ruberoid Company**
**Flintkote Mines, Ltd.**

**We are represented in the principal cities of the United States, Canada and Overseas Export Offices in New York City.**

***Your direct inquiry will receive prompt attention.***

**PACKOMATIC**

T. M. REG. U. S. PAT. OFF.

PACKAGING MACHINERY

J. L. FERGUSON CO. JOLIET ILL.

**Chicago, New York, Boston, Philadelphia, Tampa, Cleveland, Denver, San Francisco, Los Angeles, Baltimore, Seattle, Portland, Dallas, New Orleans**




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*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.**

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***WRITE FOR DETAILS***

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## INDUSTRIAL SERVICE COMPANY

Builders of

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

**Your Inquiries Are Invited**

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## 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.*




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# THIS AND THAT

The 1955 edition of the HEATING, VENTILATING AIR CONDITIONING GUIDE, published annually by The American Society of Heating and Air-Conditioning Engineers, has just been issued. This guide is an instrument of service prepared for the profession containing a Technical Data Section of reference material on the design and specification of heating, ventilating, and air conditioning systems; a Manufacturers' Catalog Data Section containing essential and reliable information concerning modern equipment; Complete Indexes to technical and catalog data sections.

Copies of the volume 33, priced at $12.00 each, are available through ASHAE headquarters, 62 Worth Street, New York 13, N. Y.

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Publication of a handbook on the Defense Materials System was announced on March 25, 1955 by the Business and Defense Services Administration, U. S. Department of Commerce.

The 41 page booklet titled "The Defense Materials System in our American Industry" is now on sale by the Superintendent of Documents, Government Printing Office, Washington 25, D.C. and the Department of Commerce Field Offices at 25c a copy.

Sinclair Weeks, Secretary of Commerce, in "A Message for Industrial Management," that serves as a foreword, stresses the need for a "functioning material control system designed to permit rapid industrial mobilization in case of war.

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In 1956 the British Industries Fair will be held at two different times, according to the announcement of British Industries Fair Ltd., organizers of the exhibition. This is in contrast to the 1955 Fair, both actions of which will run at the same time—May 2 to 13.



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# BELL ASBESTOS MINES LTD.

THETFORD MINES, QUE.

CANADA



*Producers of*

*Raw Asbestos Crudes*

*& Fibres*



*Sales Representatives*

*for*

**Cassiar Asbestos Corporation Limited**




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Carolinas Roofing & Sheet Metal Contractors' Association, Annual Convention, Ocean Forest Hotel, Myrtle Beach, S. C., will be held June 23, 24, 25, 1955. Julian McKeithan, P. O. Box 1088, Wilmington, N. C.

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"Your Gateway to World Trade" is the slogan of the Canadian International Trade Fair to be held in Toronto, May 30 to June 10, 1955.

The fair will be housed in permanent exhibition buildings at Exhibition Park, on Lake Ontario, only a few minutes from the heart of Toronto—one of Canada's most important business centers.

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Roofing & Sheet Metal Contractors' Association of Georgia, Annual Convention to be held in Hotel General Oglethorpe, Savannah, Ga., June 9, 10, 11, 1955. B. L. Noblitt, P. O. Box 1196, Augusta, Ga., Secretary.

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Freedom from fire—in the home, at work, at sea and in the air and on the planning broad—will be the theme of the 59th Annual Meeting of the National Fire Protection Association at the Hotel Netherland Plaza in Cincinnati May 16-20.

The week-long conference on all aspects of fire prevention and fire protection is expected to draw more than 1,500 persons from all over North America and abroad.

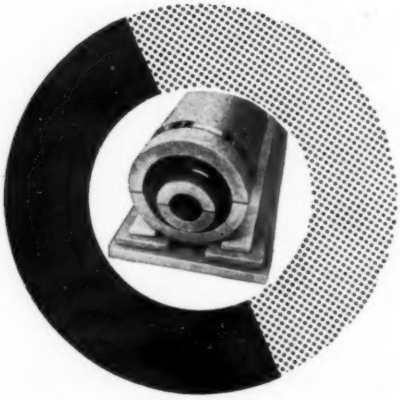
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The 6th National Materials Handling Exposition will be held at the International Amphitheatre, Chicago, Ill., May 16-20. It promises to be one of the most outstanding industrial expositions of recent years.

Although materials handling is as old as the wheel and the lever, it did not really come of age from an industrial engineering standpoint, until shortly after World War II. Materials handling, in turn, has given rise to a still newer science, automation.



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**For your most exacting insulation requirements**

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## AUTOMOBILE SALES

| | March 1955 |
|---|---|
| Passenger Cars | 791,280 |
| Motor Trucks | 102,992 |
| Motor Coaches | 325 |
| | 894,597 |

In March 1954, a total of 633,003 motor vehicles were sold. In the three months of 1955 the total was 2,364,918.

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


**PHILLIPS ASBESTOS MINES**

Producers of

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and

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**The World's Finest Fibres**

DRAWER 71 GLOBE, ARIZONA

Mines and Mills in Gila Co., Arizona

"Tropag"

**ASBEST- & ERZIMPORT OSCAR H. RITTER K. G.**

Hamburg · — · Ballindamm 7

*Importers since 1909 of*

**ASBESTOS - ORES - MINERALS**




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# BLUE ASBESTOS

**MILLBOARD · YARNS**

**PROCESSED FIBERS**

**ROVINGS · CLOTHS**

You get a guaranteed high standard of quality from the *only* manufacturer of Blue Asbestos Products operating its own mines:

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**114-116 Park Street, London, W.1.**

***Your inquiries are invited by the following Cape Asbestos Co. subsidiaries:***

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**NORTH AMERICAN ASBESTOS CORPORATION**

**Board of Trade Building, Chicago 4, Illinois**

In Canada

**CAPE ASBESTOS (Canada) Ltd.**

**200 Bloor Street East, Toronto, Ontario**




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**Canada**

**(Department of Mines, Province of Quebec)**

*Tons 2000 lbs.*

| | |
|---|---|
| Production for February 1955 | 65,566 tons |
| Production for February 1954 | 60,179 tons |

Dominion production for February 1955 is 68,520 tons, a difference of 2,954 tons from the Quebec figure.

**Africa (Rhodesia)**

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

*Tons 2000 lbs.*

| | |
|---|---|
| Production for December 1954 | 6,711.95 tons |
| Valued at | £ 485,444 |
| Production for December 1953 | 6,934.52 tons |
| Valued at | £ 536,292 |
| Production for Year 1954 | 79,961.65 tons |
| Valued at | £5,922,724 |

**Africa (Swaziland)**

| | |
|---|---|
| Production for February 1955 | 2,449 tons |
| Production for March 1955 | 2,626 tons |

**French Morocco**—Figures made available by the Protectorate's Department of Mines indicated a production of 271 metric tons of asbestos for the first half of 1954, compared with 320 tons during the first half of 1953, and 224 tons in the second half of 1953. (From Mineral Trade Notes, Dec. 1954.)

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"ASBESTOS" recently received a very attractive book entitled, "Amianto" from Societa Italiana per l' Amianto, Leumann-Torin, Italy, describing their products. Many of the illustrations are in color adding beauty to the book.

We hope other readers will send us new catalogs for our library.

**SITUATION WANTED**

Estimator-Salesman, experienced reading plans, measuring jobs, pricing and handling commercial insulation jobs. Address: Box 5 P-C "ASBESTOS", 807 Western Saving Fund Bldg., Philadelphia 7, Pa.



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# CENTRAL ASBESTOS CO. LTD.

**ABBEY WORKS • ABBEY STREET • LONDON. S. E. 1.**

'Phone: BERMONDSEY 3864 Cables: CENBESTOS LONDON

PRODUCERS



PROCESSORS

**Corner of Our Factory in London Showing Asbestos Awaiting Processing**

## CAPE BLUE ASBESTOS

- **HIGH TENSILE STRENGTH**
- **HIGH ACID RESISTANCE**
- **STRICT QUALITY CONTROL**

DIRECT FROM THE MINES IN SOUTH AFRICA
OR FROM BUFFER STOCKS IN LONDON

*We process to customers' requirements all types of Asbestos*
ENQUIRIES WELCOMED FOR
**CAPE BLUE • TRANSVAAL BLUE • AMOSITE • CHRYSOTILE ETC.**




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## Imports into U.S.A.

(Figures by Bureau of Census)

*Unmanufactured Asbestos—By Countries:*

| | | December 1954 Tons (2240 lbs.) |
|---|---|---|
| From: | Canada | 45,847 |
| | Union of S. Africa | 2,001 |
| | Rhodesia | 482 |
| | U.S.S.R. | 261 |
| | United Kingdom | 40 |
| | Other Countries | 7 |
| | | 48,638 |
| | *Valued at* | $4,882,658 |

*By Grades:*

| | |
|---|---|
| Crude No. 1, Chrysotile | 7 |
| Crude No. 2, Chrysotile, Canada | 42 |
| Crude, Other, Chrysotile, U. of S. Africa | 190 |
| Crude, Other, Chrysotile, Rhodesia | 406 |
| Crude, Blue, U. of S. Africa | 873 |
| Crude, Amosite, U. of S. Africa | 938 |
| Textile Fibres, Chrysotile, Canada | 2,178 |
| Textile Fibres, Chrysotile, United Kingdom | 40 |
| Textile Fibres, Chrysotile, U.S.S.R. | 261 |
| Textile Fibres, Chrysotile, Rhodesia | 76 |
| Shingle Fibres, Chrysotile, Canada | 6,748 |
| Paper Fibres, Chrysotile, Canada | 3,902 |
| Other Fibres, Chrysotile, Canada | 32,977 |
| | 48,638 |

*Manufactured Asbestos Goods:*

| | December 1954 Quantity (lbs.) | Value |
|---|---|---|
| Asbestos Yarn, United Kingdom | 19,388 | $ 12,810 |
| Asbestos Packing & Lining | 7,897 | 3,149 |
| Asbestos Shingles, (Not Impreg.), Canada | 954,445 | 97,932 |
| Asbestos Manufactures—Others | .... | 383 |
| | 981,730 | $114,274 |



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# ASBESTOS FIBRE

## OF ALL TYPES

## BRANDHURST COMPANY LIMITED

**Vintry House**

**LONDON**

**E. C. 4**

| Telephone: | Cables: |
| --- | --- |
| London Central 1411 | Brandcolim |
| (Private Branch Exchange) | London |




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## Exports From U. S. A.

(Figures by Bureau of Census)

*Unmanufactured Asbestos:*

| | December 1954 Tons (2240 lbs.) | Value |
|---|---|---|
| To: Europe | 174 | $19,792 |
| South America | 52 | 6,751 |
| Other Countries | 62 | 11,546 |
| | 288 | $38,089 |

*Manufactured Asbestos Goods:*

| | December 1954 Quantity | | Value |
|---|---|---|---|
| Asbestos Pipe Covg. & Cement | Lbs. | 140,547 | $ 24,449 |
| Asbestos Textiles & Yarn | Lbs. | 37,586 | 51,655 |
| Asbestos Packing | Lbs. | 159,684 | 145,193 |
| Asbestos Clutch Facings & Linings | No. | 102,100 | 74,525 |
| Asbestos Bk. Lng. (Mld. & S. Mld.) | Ft. | 113,495 | 36,056 |
| Asbestos Bk. Lng. Rolls (Woven) | Lin. Ft | 35,043 | 26,027 |
| Asbestos Bk. Lng. (Inc. Sets) | Lbs. | 343,002 | 302,574 |
| Asbestos Construction Materials | Lbs. | 2,077,284 | 176,237 |
| | | | $866,791 |

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How to Build An Attic Room—A limited number of the informative new J-M booklet which spells out the details of how to build an attic room, sells for 25c, are available from Johns-Manville Corporation, 22 E. 40th Street, New York 16, N. Y. Numerous illustrations show typical attic arrangements before, during and after a room has been finished. Both illustrations and text describe the attractive manner in which J-M products may be used to achieve the most effective job from the standpoint of insulation, construction and appearance.

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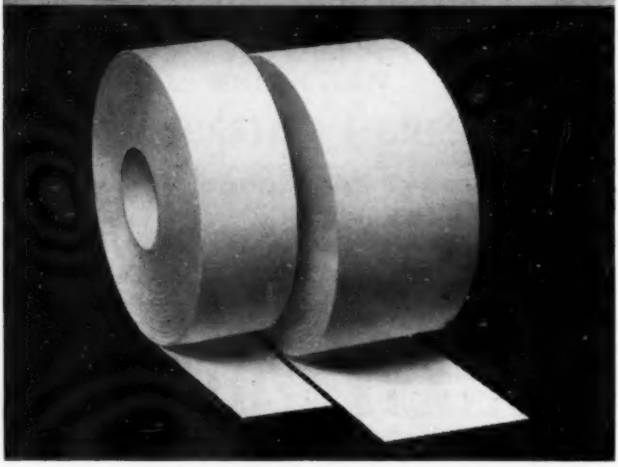
"Sound Insulation of Wall and Floor Constructions", National Bureau of Standards Building Materials and Structures Report 144; 66 pages, 40 cents. (Order from the Government Printing Office, Washington 25, D. C.)

This publication contains a summary of data (including a large number of tables and illustrations) obtained at the National Bureau of Standards on the sound transmission of door, wall, and floor constructions.



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# SAL-MO SALES ARE *R-O-L-L-I-N-G*



Continued product development and aggressive merchandising are two of the factors which contribute importantly to the ever-increasing acceptance of our wide line of asbestos products.

## SALL MOUNTAIN COMPANY

**HAMILTON, OHIO**





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## Exports from Canada

**(Published by Dominion Bureau of Statistics)**

*Unmanufactured Asbestos:*

| | February 1955 Tons (2000 lbs.) | Value |
|---|---|---|
| *Crude* | | |
| United States | 29 | $ 26,828 |
| United Kingdom | .... | .... |
| South America | .... | .... |
| Central America & Mexico | .... | .... |
| European Countries | 1 | 1,252 |
| Other Countries | 1 | 740 |
| | 31 | $ 28,820 |
| *Milled* | | |
| United States | 13,287 | $2,191,930 |
| United Kingdom | 2,039 | 410,040 |
| South America | 1,079 | 216,292 |
| Central America & Mexico | 90 | 11,260 |
| European Countries | 324 | 49,522 |
| Other Countries | 3,681 | 601,918 |
| | 20,500 | $3,480,952 |
| *Shorts* | | |
| United States | 37,388 | $1,739,562 |
| United Kingdom | 2,140 | 82,068 |
| South America | 980 | 75,533 |
| Central America & Mexico | 40 | 1,520 |
| European Countries | 432 | 22,047 |
| Other Countries | 123 | 12,778 |
| | 41,133 | $1,933,508 |
| *Grand Total—Unmanufactured Asbestos* | 61,664 | $5,443,280 |
| *Manufactured Asbestos Goods:* | | |
| Brake Lining | | $ 21,439 |
| Packing | | 1,405 |
| Other Materials | | 116,830 |
| | | $ 139,674 |


WILHELM BURGDORF

*Importer of* Raw Asbestos

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**All Grades - All Types**

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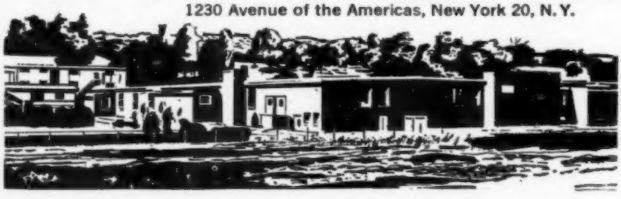
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are manufactured in our own modern plant at Stark Mills, Hogansville, Ga. Spinning and weaving operations are closely controlled for maximum uniformity in asbestos yarns, fabrics and tapes. Specialties developed to meet customers' requirements.

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**UNITED STATES RUBBER COMPANY**
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# NEWS OF THE INDUSTRY

John J. Dempsey, President, Armor Products Inc., New York City, May 18.

William B. Millar, Consulting Mining Engineer, Silver Bay, N. Y., May 18.

Clifford F. Rassweiler, Vice Chairman of the Board, Johns-Manville Corp., New York City, May 18.

William J. Van Akin, Vice President of Manufacture, The Ruberoid Co., New York City, May 23.

W. S. Lang, Vice President, Magnesia-Asbestos Insulation Co., Inc., New York City, May 25.

Stephen Harrison, Owner, Asbestos Service Company, Youngstown, Ohio, May 26.

George V. Hamilton, Owner, George V. Hamilton Co., Pittsburgh, Pa., May 26.

J. H. Mooney, Vice President, Johnson's Company, Thetford Mines, Canada, May 27.

Giles Newton, Managing Director, Cape Asbestos Co., Ltd., London, England, May 27.

Stuart H. Ralph, Vice President & Director, The Flintkote Company, New York City, May 27.

F. E. Schluter, Director, Thermoid Company, Trenton, N. J., May 31.

F. H. Shipe, President, Asbestos Covering & Roofing Co., Washington, D. C., May 31.

George A. Gelish, President, Port Asbestos Insulation Co., Brooklyn, N. Y., June 1.

Charles H. Jackson, President, Turner & Newall (Canada) Ltd., Montreal, Canada, June 2.

Phil Ziegenfuss, President & Treasurer, Insulating Materials Co., St. Louis, Mo., June 2.

Norman C. Naylor, Director, Union Asbestos & Rubber Company, Chicago, Ill.., June 3.

Ford Brown, President, MacArthur Company, St. Paul, Minn., June 5.

Edward J. Ewald, Vice President, Standard Asbestos Mfg. Co., Chicago, Ill., June 6.

E. M. Railton, Vice President (in charge of Western Division), The Ruberoid Co., Chicago, Ill., June 8.

W. Robert Beldam, Director, Beldam Asbestos Co., Ltd., Houslow, England, June 8.

H. E. Howell, Vice President, Ehret Magnesia Mfg. Co., Valley Forge, Pa., June 8.

Manley Alsaker, Branch Manager, Kelley Asbestos Products Co., Omaha, Nebr., June 9.



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CABLE ADDRESS METABEST

**METATE ASBESTOS CORPORATION**

Producers of

**ARIZONA CHRYSOTILE CRUDES**

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Viale Misurata, 10, Milan, Italy
*Agents for overseas:*
Wipol Ltd., 71 Lincoln's Inn. Fields, London W. C. 2



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Herbert Morton Ball, Secretary & General Attorney, Johns-Manville Corporation, New York City, June 9.

L. L. Collonge, President, The Pacific Asbestos-Cement Products Corporation, San Bernardino, Calif., June 9.

Walker Jamar, President, Walker Jamar Company, Duluth, Minn., June 11.

Howard Snow, President, Southern Friction Materials Co., Charlotte, N. C., June 11.

Henry Condell, Owner, Asbestos Processing Co., New York City, June 15.

John E. Zimmerman, Manager, Tulsa Branch, Kelley Asbestos Products Co., Tulsa, Oklahoma, June 15.

We extend congratulations and best wishes to all these gentle men on the occasion of their birthdays.

**R. H. CHASE**

Friends will be interested in knowing that R. (Reub) H. Chase is now President of Products and Production Devices, Inc., 136 Austin Avenue, Atherton, California.

This company owns patents and is offering Licenses to manufacture cellular wall spiral wound tubes. This process is interesting to the container industry and is of special interest to the Asbestos Industry because it can be used to produce tubes from asbestos paper which are adaptable to many uses, including hot air heating ducts.

**AMERICAN BRAKE SHOE CO.**

**New Appointments**

*John S. Hutchins*, president of Ramapo Ajax Division, has been named to additional duties as president of the National Bearing Division. Mr. Hutchins joined the sales department of American Brake Shoe in 1925 and has been a vice president of the company since 1946.

*Thomas W. Pettus*, also a vice president of American Brake Shoe Company and formerly president of the National Bearing Division, is assigned to over-all railroad sales for the company. Mr. Pettus joined the company in 1928 and has been a vice president since 1946.

Named executive vice president of National Bearing Division is *Charles M. Ruprecht*, president of Electro-Alloys Division since 1953. He joined the company as a sales apprentice in 1946 and was made sales manager of the Electro-Alloys Division in 1950, moving up to vice president in 1953.

*Paul L. McCulloch, Jr.*, sales manager of the Electro-Alloys Division since 1953, succeeds Mr. Ruprecht as division president. Mr. McCulloch joined the company as a trainee in 1945 and joined the Electro-Alloys Division as a sales engineer in 1947.



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# NOW, AS ALWAYS—

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**PRECISION MOLDED**
**85% MAGNESIA HEAT INSULATION**

***... the Dependable Standard-Modernized***



## UNIFORM PRECISION

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## SAVES MAN HOURS

Thus, Pabco is faster to apply! Easier to lift, quicker to cut and score, simpler to embed tie wires! You get Precision fit—pipe sizes and blocks *molded* to exact size!

**PABCO PRODUCTS INC.**
**INSULATION DIVISION**
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Manufacturers of Heat Insulation since 1920




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## ASTM STANDARDS IN BUILDING CODES

This compilation brings together more than 250 ASTM specifications, methods of test, and definitions of materials included by reference in the major building codes of the United States and Canada. Due to the wide variety of materials covered and the many technical committees concerned, these standards previously have been scattered throughout the 10,000-page seven-part Book of ASTM Standards. Altho available as separates, the selection and accumulation of individual standards needed has been an uncertain means of securing the entire group. Realizing the need and utility of a special compilation of these ASTM Standards, this first edition has now been prepared.

This 950-page compilation bound in heavy paper covers can be obtained from ASTM Headquarters, 1916 Race St., Philadelphia 3, Pa. Price: $6.00; to members $4.50.

## JOHNS-MANVILLE CORPORATION

### Special Industries Department

*Charles B. Hann* has recently been appointed Manager of the Chemical Section of Johns-Manville Special Industries Department.

In his newly established post, with headquarters in the company's general offices at New York City, Mr. Hann will be responsible for extended service to J-M customers in the chemical and process industries.

Mr. Hann joined Johns-Manville at Baltimore in 1937 as a sales representative for the company's Industrial Products Division. Since then he has represented J-M in Richmond, Virginia and Wilmington, Delaware, and in 1947 was appointed Assistant District Manager at Philadelphia of the Industrial Products Division.

## INSULATION BOARD INSTITUTE

### Election of Officers

*Marvin Greenwood*, vice president-general sales manager of Celotex Corp., has been elected president of the Insulation Board Institute, 111 W. Washington St., Chicago, Ill. Mr. Greenwood succeeds *J. Z. Hollmann*, manager, insulation board department, Flintkote Company.

New vice president of the Institute is *E. K. Clark*, vice-president of Johns-Manville Sales Corp. Treasurer is *V. R. Belden*, merchandise manager, insulation products, United States Gypsum Co.

Newly-elected board of director members are *J. V. Jones*, Armstrong Cork Co.; *G. M. Syversen*, Dant & Russell, Inc., *J. Z. Hollmann; M. C. Fairfields*, Minnesota & Ontario Paper Co.; and *J. W. Brown*, National Gypsum Co. These officers, together with Mr. Greenwood and Mr. Clark, make up the board.



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*Sole Distributors in North America of*

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Kuruman Cape Blue Asbestos

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**TRANSVAAL BLUE**

Baboon Asbestos Co.

Springbok Asbestos Co.

***Grades: TD1, TD2, TD3, TD4***




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**UNION ASBESTOS & RUBBER CO.**

Ground has been broken for a 50,000 square-foot addition to the Union Asbestos & Rubber Company's new Tyler, Texas plant. The new addition will double the size of the existing plant, which was taken over by Unarco last Fall.

April 4th, 1955 was moving day for the Union Asbestos & Rubber Company's Fibrous Products Division's Sales Department. The Sales Department formerly located at the company's Chicago headquarters took over the new office building adjacent to the Bloomington, Illinois, plant.

*G. M. Bloomfield* has been appointed Director of Research, Fibrous Products Division as of April 1st. *A. W. Summers* will continue as Assistant Director of Research.

**NEW WAREHOUSE AND OFFICE ADDRESS**

**For R-M Southwest Division**

The southwestern District warehouse and headquarters for Raybestos Division of Raybestos-Manhattan, Inc., moved on May 2nd to new and larger quarters. The steadily increasing demand for Raybestos automotive and industrial friction materials, lined brake shoes and automotive rubber products has made the business too big for the old building at 2909 Canton Street. New address is 2802-04 Raylor St., Dallas, Texas.

*John T. Ginocchio*, southwestern district manager, also moved his offices into the new building.

**NEW APPOINTMENT AT CAREY CO.**

*A. H. Bagenstose, Jr.*, has been appionted assistant to the merchandise manager, Asbestos Department.

The appointment is part of an overall plan to prepare for 1956 production from the giant Carey asbestos ore body discovered recently. Mr. Bagenstose will coordinate sales between Carey industrial sales engineers and asbestos fibre users. He was formerly eastern regional manager for Insul-Mastic Corporation and plant chemist for American Steel Band Company.

**MOUNTBRIDGE EXPLORATION & INVESTMENT CO. (PTY.) LTD.**

**Lubraco House, C/r Nugget & Pritchard Streets, Johannesburg. Box 4421. Cables "Montexin"**

***South African and Rhodesian Asbestos Fibres***

**ENQUIRIES WELCOME**



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**UNION ASBESTOS & RUBBER CO.**

**First Quarter Report**

Billings of the Union Asbestos & Rubber Company for the first quarter of 1955 were approximately $3,575,000, compared with $3,153,259 for the same period in 1954, was announced recently following the annual stockholders meeting.

At the same meeting it was announced that *Norman C. Naylor*, board chairman, had retired and moved to Biltmore, N. C., and Vice President *William Fehrs* was elected to the post of secretary and vice president.


**ASBESTOS FIBRES**

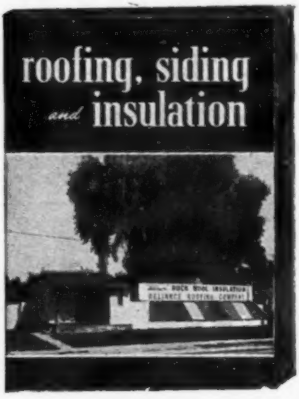
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New York 19, N. Y.





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**AMERICAN BRAKE SHOE CO.**

**First Quarter Report**

Sharply-increased orders and backlog in the first quarter were reported to stockholders of American Brake Shoe Company by William B. Given, Jr., chairman, and Kempton Dunn, president, at the annual meeting held recently.

For the first three months of 1955, new orders totalled $35,800,000. Backlog of unfilled orders on March 31 amounted to $23,800,000, compared to $19,000,000 last December 31, a gain of 25 per cent in three months.

Sales in the first quarter of 1955 were also well ahead of the last three months of 1954. They totalled $30,577,579, compared to $26,574,936 in the preceding quarter, an increase of more than $4,000,000.

**RUBEROID ADDS SALES REPS**

Newly appointed sales representatives of Ruberoid Co. are *Jerome Simon*, Willowick, Ohio; *Frank J. Romeo*, New Lennox, Ill., and *Jarvis V. Heberling*, Pittsburgh. Mr. Simon will serve distributors in the Cleveland area; Mr. Heberling will cover western Pennsylvania, and Mr. Romeo will serve distributors in northeastern Illinois.


**JOHN HOLT & COMPANY INC**

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Importers of South African Asbestos

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**NATIONAL GYPSUM NAMES**
**Jokerst For Sales Post**

*Oliver W. Jokerst* has been named district sales manager, with headquarters in St. Louis, Mo., for the National Gypsum Company and *Robert L. Macklin* becomes assistant district sales manager in the St. Louis area.

Formerly assistant district sales manager in St. Louis, Mr. Jokerst started with National Gypsum in 1947 as a general line salesman. Before joining National Gypsum, Mr. Macklin was employed by Cadillac Motor Co. and Capitol Insulation Co., Danville, Ill.

**UNARCO RECEIVES SAFETY AWARDS**

Two National Safety Awards and one State Safety Award was presented to the Union Asbestos & Rubber Company's Marshville, North Carolina, plant, recently at a dinner in the Marshville High School.

The 1954 Certificate of Safety Achievement from the United States Department of Labor and the North Carolina Department of Labor was presented to Robert Lane, Unarco plant manager in Marshville.

In addition, Mr. Lane was given a Certificate of Commendation on behalf of the National Safety Council. The awards were won for the plant's outstanding safety record in operating more than a year without a single lost-time accident.


**ARIZONA ASBESTOS**

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**1219 S. 19th Avenue**

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**Producers of Low Iron Chrysotile Crudes and Filter Fibre**

MINES AND MILL IN GILA COUNTY




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**UNITED ASBESTOS CORPORATION LTD.**

**ELECTS NEW DIRECTOR**

Hon. Gaspard Fauteux, P.C., L.L.D., D.D.S., L.D.S., Lieutenant-Governor of Quebec, was elected a director of United Asbestos Corporation Limited, at the annual meeting held on April 30th, in Montreal. Hon. Mr. Fauteux is a director of Canadian Home Assurance Co., Jefferson Insurance Co., Bruck Mills Limited and other corporations.

Officers and other directors were re-elected. United Asbestos, jointly with Lake Asbestos of Quebec Limited, subsidiary of American Smelting and Refining, is developing the extensive ore-bodies underlying Black Lake.

# ASBESTOS STOCK QUOTATIONS

(These figures are compiled from the Commercial & Financial Chronicle. No guarantee as to their correctness.)

| | | April 1955 | | |
|---|---|---|---|---|
| | Par | Low | High | Last |
| Amer. Br. Shoe (Com) | np | 35 | 37⅞ | 37¼ |
| Amer. Br. Shoe (Pfd) | 100 | 100¼ | 104½ | 104½ |
| Armst. Ck. (Com) | np | 89 | 103 | 103 |
| Armst. Ck. (Pfd) | np | 99¼ | 102¼ | 101½ |
| Armst. Ck. (New Com) | np | 34 | 35¼ | 35¼ |
| Asb. Corp. (Com) | np | 32½ | 39⅞ | 39¼ |
| Carey (Com) | 10 | 32¾ | 36⅞ | 35⅝ |
| Cassiar Asb. Corp. | np | $8.25 | $9.00 | $8.80 |
| Celotex (Com) | np | 28¼ | 30¾ | 28⅞ |
| Celotex (Pfd) | 20 | 19½ | 19⅞ | 19½ |
| Certainteed (Com) | 1 | 23⅞ | 27½ | 26¼ |
| Dominion Asb. Mines | 1 | $.16½ | $.34 | $.32 |
| Flintkote (Com) | np | 40 | 44¼ | 40¾ |
| Flintkote (Pfd) | np | 103¼ | 103½ | 103½ |
| Johns-Manville (Com) | np | 85 | 92½ | 86¼ |
| Natl. Gypsum (Com) | 1 | 46⅛ | 48½ | 47¼ |
| Natl. Gypsum (Pfd) | np | 103½ | 105 | 103¾ |
| Pabco Products (Com) | np | 23 | 26¼ | 26¼ |
| Pabco Products (Pfd) | 100 | 93 | 94½ | 94½ |
| Ray-Man (Com) | np | 50 | 53 | 51½ |
| Ruberoid (Com) | 1 | 39½ | 43⅝ | 42 |
| Thermoid (Com) | 1 | 8¼ | 9⅛ | 9 |
| Thermoid (Pfd) | 50 | 44½ | 45¼ | 45 |
| Union Asb. & Rub. (Com) | 5 | 9¼ | 10⅛ | 9⅜ |
| United Asb. (Com) | 1 | $5.20 | $6.00 | $5.80 |
| U. S. Gypsum (Com) | 20 | 263¼ | 265 | 261 |
| U. S. Gypsum (Pfd) | 100 | 179 | 182½ | 179 |
| U. S. Rub. (Com) | 5 | 42⅝ | 48⅞ | 47⅛ |
| U. S. Rub. (Pfd) | 100 | 162½ | 170¼ | 168¼ |



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# WAGE RATE CHANGES

Wage rate changes for Asbestos workers (pipe and boiler coverers) as reported in the April 1955 number of the Asbestos Worker (published quarterly by the International Association of Heat and Frost Insulators and Asbestos Workers) are as follows:

| | | | |
|---|---|---|---|
| Anchorage, Alaska | $4.07½ | Oklahoma City, Okla. | 3.05 |
| +7½c W.F. | | Phoenix, Ariz. | 3.10 |
| Charlesotn, S. C., | | +7½c W.F. | |
| Navy Yard | 2.15 | Providence, R. I. | 3.05 |
| Dayton, Ohio | 3.10 | +9c W.F. | |
| +7½c W.F. | | St. Paul, Minn. | 3.00 |
| El Paso, Texas | 3.00 | +7½c W.F. | |
| Evansville, Ind. | 3.10 | Tucson, Ariz. | 3.10 |
| Minneapolis, Minn. | 3.00 | +7½c W.F. | |
| +7½c W.F. | | Wood River, Ill. | |
| Nashville, Tenn. | 2.87½ | (Oil Refinery only) | 2.56 |
| +7½c W.F. | | | |

# CURRENT RANGE OF PRICE

As of May 10, 1955

| | | | |
|---|---|---|---|
| **Arizona—** | Per Ton of 2,000 lbs., f.o.b. Globe, Arizona | | |
| No. 1 Crude (soft) | $1,600.00 | to | $1,700.00 |
| No. 2 Crude (soft) | 1,000.00 | to | 1,050.00 |
| No. 3 Crude (soft) | 450.00 | to | 500.00 |
| 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 | 500.00 | 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 | 68.50 |



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**JOHNS MANVILLE**

**Los Angeles District**

The "Magnesia" award viewed by California J-M kinfolk in the same light as the motion picture industry's Oscar and the TV industry's Emmy, was presented to *W. D. Gaches*, Staff Manager at Los Angeles for Insulation and Packing Products, at a recent Los Angeles District-Watson Plant meeting.

Presentation ceremony was merely one high spot of the occasion on which members of the Los Angeles District and Los Angeles Region of Industrial Contract Department visited Watson Plant. Don Gaches received this special District Tribute for "meritorious and outstanding ability and achievement during 1954".

**THE CAREY COMPANY**

*Edward C. Meisner* has been appointed general manager of The Philip Carey Mfg. Company's Plymouth Meeting, Penna. plant.

Mr. Meisner has had wide experience in the industrial field, having served as a department head for National Cash Register Company. He was associated with the Crosley Division, AVCO Mfg. Corporation, for eight years, holding the following positions: chief industrial engineer, works manager, assistant to general works manager and general manager at Crosley's various plants.

**UNITED STATES RUBBER COMPANY**

**First Quarter Report**

United States Rubber Company's net profit in the first quarter amounted to more than 9½ million dollars, equal to $1.55 a share of common stock, and thereby set a new record.

This compares with 7½ million dollars, or $1.18 a share, in the same period of last year. The previous record was set in 1951, when the first quarter profit was 9 million dollars.

Mr. Humphreys estimated sales for the quarter at 224 million dollars, 18 per cent above sales of 190 million dollars in the same period in 1954.

Asbestos Exploration Mine Development
WILLIAM B. MILLAR
Consulting Geologist
Mail Address: Room 1050
161 EAST 42nd ST. NEW YORK 17, N. Y.



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**JOHNS-MANVILLE CORPORATION**
**First Quarter Report**

Consolidated earnings of Johns-Manville Corporation and subsidiary companies for the first quarter of 1955 were $2,730,699, compared with $2,592,406 for the corresponding period last year.

Sales for the first quarter of 1955 were $56,269,622, compared with $51,913,065 for the first quarter of 1954.

Earnings per share of common stock were 86 cents for the first quarter, compared with 82 cents for the same period last year.


**KINLOCH ASBESTOS**
**(PROPRIETARY) LIMITED**
*The largest exporters of Chrysotile Fibre mined in the Union of South Africa*
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**CHRYSOTILE ASBESTOS MINES**
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**RAW - ASBESTOS**

**ACE ASBESTOS MANUFACTURING CO.**
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*for Every Use*
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## THE TWELVE ESTIMATING TABLES

The Twelve Estimating Tables, with Chart, convenient in figuring flange fittings and other areas, is $1.00 per set.

These tables have been found very useful by estimators in figuring areas, but since we have not for some time published the detailed list, it occurred to us that many would like to know exactly what the tables cover, and order them before the fall work begins. Following is the list.

Sq. Ft. Areas of Pipe Covering.

Mean Sq. Ft. Areas Standard Screwed Fittings.

Mean Area Standard Weight Flanged Fittings.

Standard Weight Flange Areas, Permanent Type.

Standard Weight Flange Areas, Removable Type.

Figuring Hair Felt, 1", 1½", 2".

Anti-Frost Insulation.

Cork Pipe Covering, Outside Area in Sq. Ft.

Ice Water Thick Cork Moulded Fittings Screwed, Outside Area in Sq. Ft.

Brine Thickness Cork Moulded Fittings, Screwed, Outside Area in Sq. Ft.

Special Thickness Cork Moulded Fittings, Screwed, Outside Area in Sq. Ft.

Dusts and Flue Perimeters.

The chart gives an easy way to figure Curved Cylindrical Surfaces.

The tables are printed on paper which will wear well under handling. Orders can be filled immediately upon receipt, write Asbestos 807 Western Savings Fund Bldg., Philadelphia 7, Pa.

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**BIRD & SON INC.**

**Elects New Directors**

Stockholders of Bird & Son, Inc., elected two new directors at their annual meeting, March 22nd: *Richard P. Chapman*, President of the Merchants National Bank of Boston; and *Charles A. Sumner*, Vice President of Bird & Son, Inc.

**CANADIAN PATENTS AND DEVELOPMENT LIMITED**

This year for the first time Canadian Patents and Development Limited will have an exhibit at the Canadian International Trade Fair, to be held in Toronto, May 30 to June 10.

The exhibit will consist of a selection of models of inventions from the National Research Council and other government departments, and several universities. With such a wide variety of items it would be mipossible to show them all but a representative group has been selected and there should be something of interest to everyone Information will be available on all cases.

**AMERICAN BRAKE SHOE CO.**

*Harry C. Platt* has been appointed president of the Engineered Castings Division of American Brake Shoe Company. He succeeds *N. G. Belury*, who was recently appointed sales vice president for the company.

Mr. Platt, formerly vice president in charge of production for the Engineered Castings Division, joined Brake Shoe in 1941 as a metallurgist.




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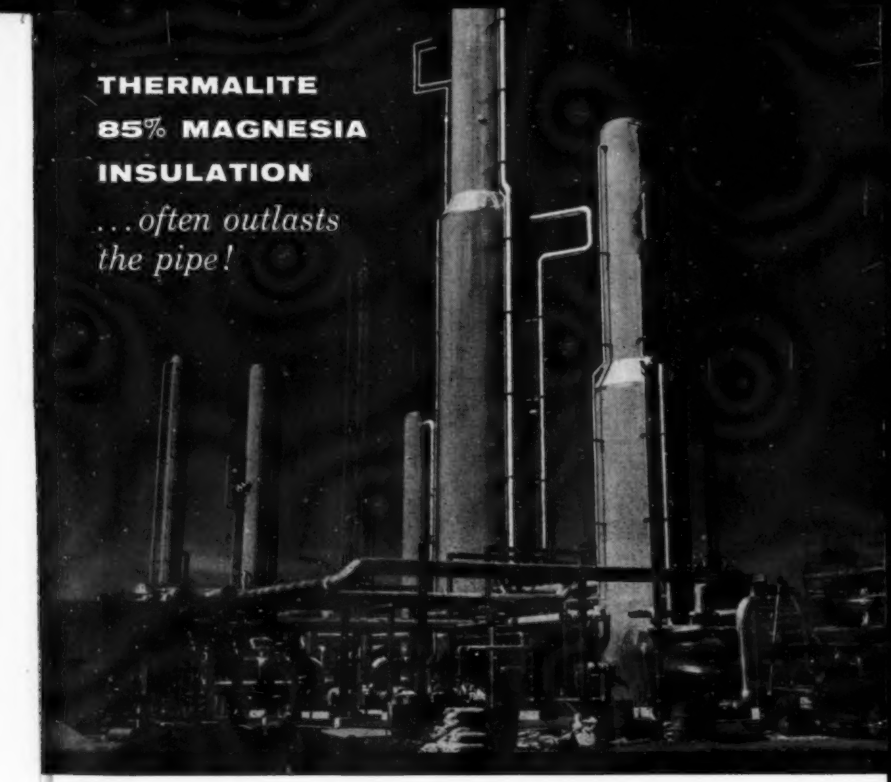


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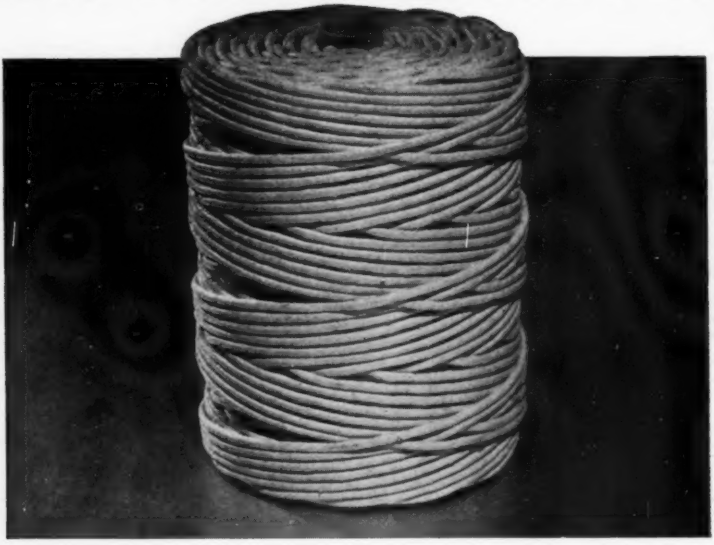
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