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ASBESTOS

devoted to the International Asbestos Industry

MATERIALS HANDLING & PROCESSING

September 1980

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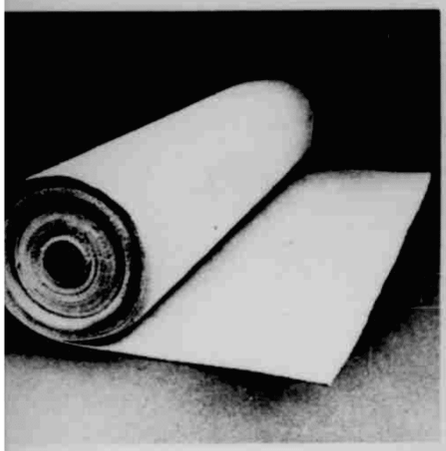
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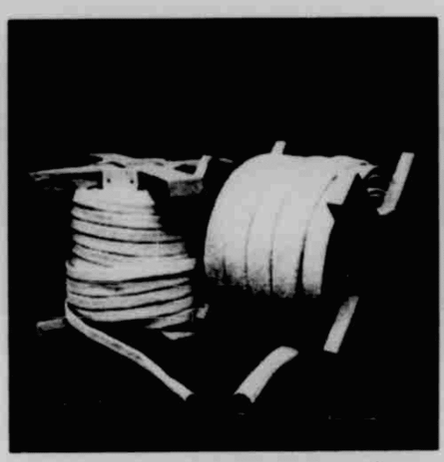
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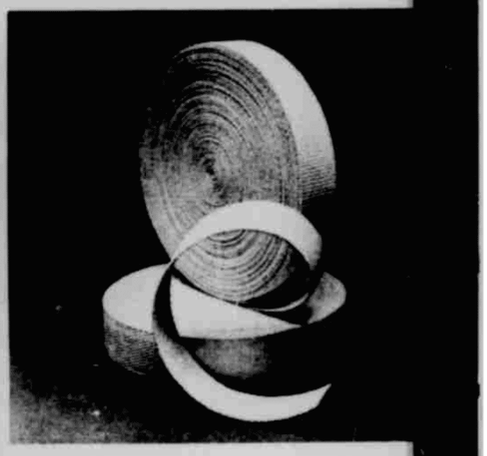
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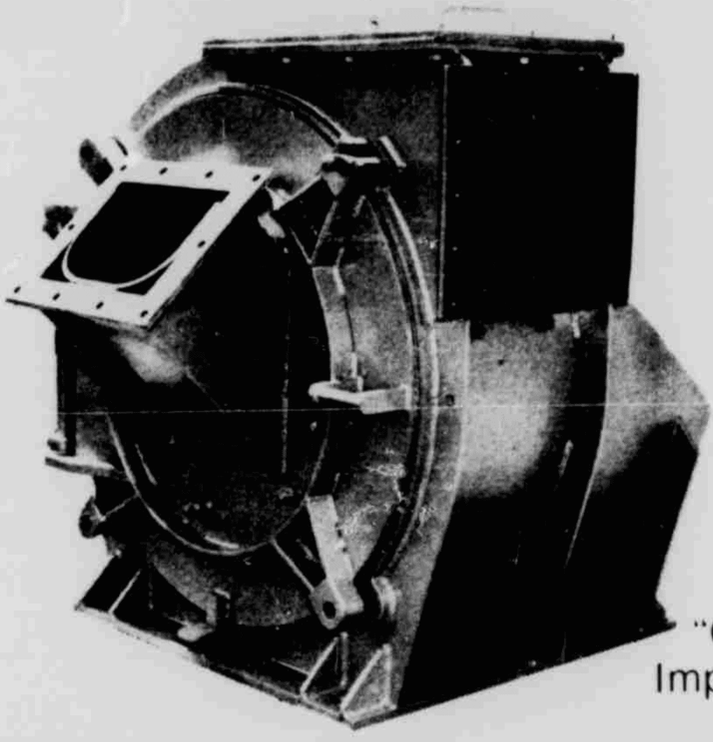
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industrial products

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We have been designing and manufacturing asbestos benefication plants and equipment for all types of asbestos for over twenty five years... thus we must have something to offer you.

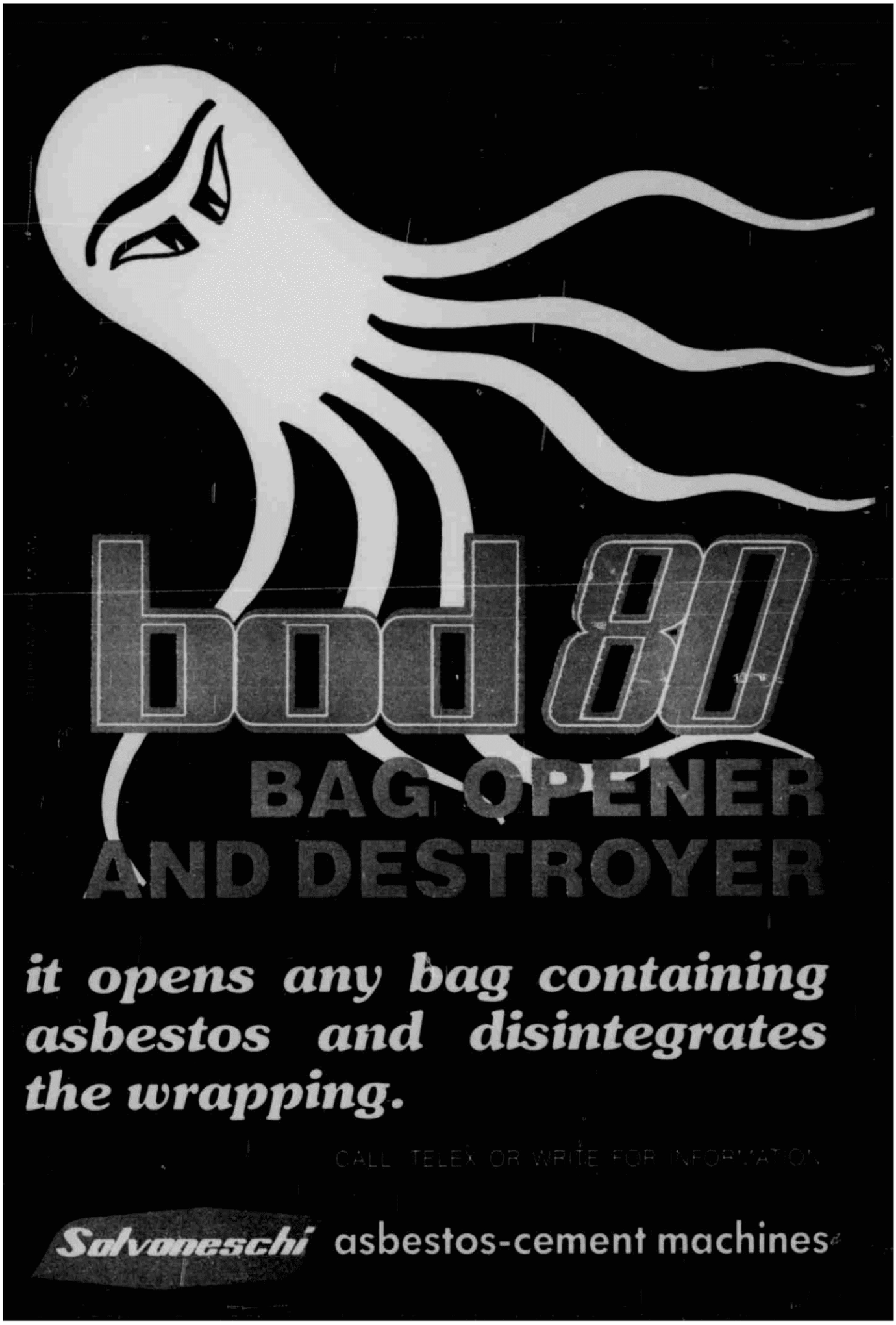


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Range of equipment and services include, feasibility studies. turnkey projects, impact mills, air classifiers. fiberizers, rotary screens, screw baggers. pneumatic conveying systems, cyclones, rotary valves. de-dusting machines, cleaning machines. laboratory equipment, fans and filters.

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CONTENTS

MATERIALS HANDLING / PROCESSING 4
COMPANIES AND PRODUCTS 16
MARKET CONDITIONS: GENERAL BUSINESS 22
MOTOR VEHICLE FACTORY SALES 24
PRODUCTION—IMPORTS--EXPORTS 28
WELCOME TO NEW ADVERTISER 30
CURRENT ASBESTOS PRICES 32
IN MEMORIAM 33
PEOPLE ON THE MOVE 34
RETIREMENT: R. M. GORDON, RAYBESTOS-MANHATTAN 36
BIRTHDAY GREETINGS 38
1979 ANNUAL REPORTS: BBA, ADVOCATE, WOODSREEF 40
ASBESTOS STOCK QUOTATIONS 43
VALUABLE MINING LITERATURE 44
PAPERS AND ARTICLES 46
CALENDAR OF EVENTS 48
REMEMBER WHEN? 50

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Asbestos Magazine, 1980, September 1980
ACL Doc 12737 · Page 5 of 56
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MATERIALS HANDLING/PROCESSING

ALPINE CLASSIFIERS

Alpine American Corporation, Natick, Massachusetts, announced the new *Turboplex high-efficiency air classifier,* available in four models and capable of end product fineness of $d_{97} = 4\text{-}40$ microns and feed capacities to 60 tons per hour, depending on product and classifier size. Principal advantage of the unit is a capability to produce fine product from coarser feed than was previously possible from classifiers of this type. Alpine also manufactures the *Multiplex zigzag classifier* and the *Microplex MPVI spiral air classifier.*

ANDCO ACTUATORS

A 20-page catalog from *Andco Actuator Products, Inc.,* Buffalo, New York, introduces the company's new line of electromechanical *linear actuators,* the *Series 7000 Posi-Tork,* which features adjustable thrust and position limit switches for precise and accurate positions in applications involving lifting/lowering, pushing/pulling and opening/closing. The machines are completely enclosed, weatherproof units, with all electrical connections internal, within a common cast housing, with two NPT conduit entrances.

BIMEX CAPABILITIES

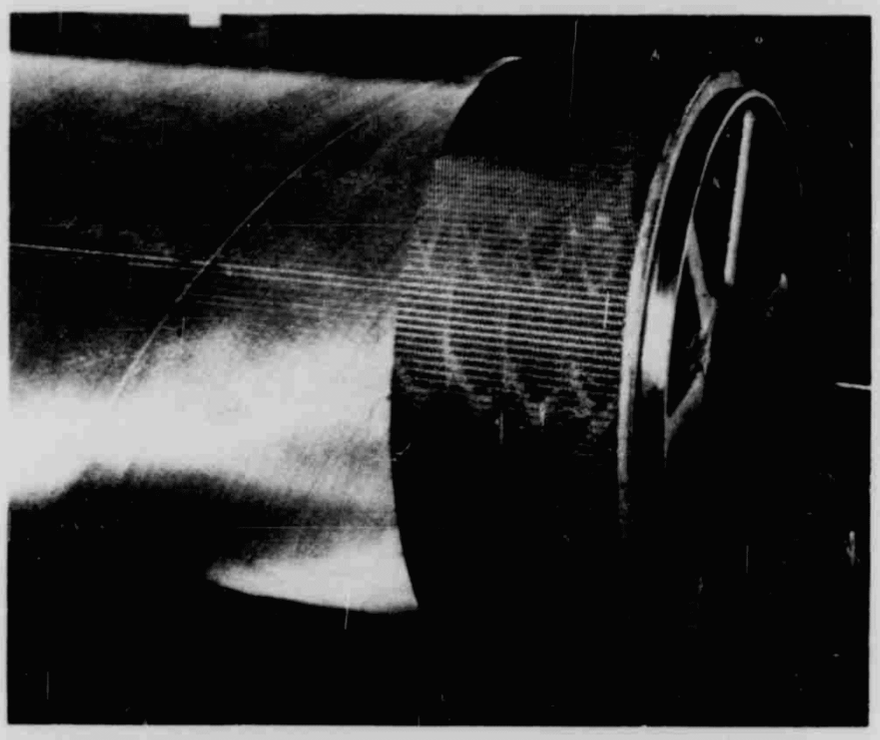
Bimex Corporation, Wales, Wisconsin, via a full-color brochure, details its capabilities to manufacture centrifugally-cast, *bimetal cylinders* for the transporting, heating, mixing and processing of materials which cause severe wear and/or corrosion problems. The barrels can be made in lengths to 20 feet and with inside diameters from 1″ to 15″. They are commonly used in conjunction with feeder screws in extrusion and injection-type operations. In addition to machining and fabricating the cylinders according to need, existing units can be repaired, relined for extended life or retrofitted to meet new requirements.

CARBORUNDUM LININGS

Its new 87% aluminum oxide *Durafrax refractory linings* are a cost effective replacement for 96% wear alumina products, with no appreciable difference in lining life, according to *The Carbor-*

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DIAGONAL SEAMED WIRES
OF HIGH STANDARD QUALITY
MADE OF PHOSPHORBRONZE OR STAINLESS STEEL



FAST AND EASY STRETCHING ON YOUR
CYLINDER - MOULD.
OPEN ENDED WIRES ALSO AVAILABLE.
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undum Company, Niagara Falls, New York. The wear materials have excellent corrosion resistance and a much denser structure than common 85% aluminas. They are available in plain and Weld-Al tiles in the broadest range of sizes and thicknesses available from any wear alumina manufacturer. . . . Carborundum recently announced an average *25% price reduction for Durafrax 87% alumina platelets*, commonly used as linings or patches on pneumatic handling systems which transport abrasive materials.

THE COMBIMIXER FROM DAY

Engineers at *Day Mixing*, Cincinnati, Ohio, have combined the NAUTA twin-screw mixer with the double-cone design mixer to produce a complete new and highly versatile, large-capacity *mixing machine* called the *Combimixer*. The huge machine has a mixing capacity of 35,000 pounds or 1,350 cubic feet and is used for precise color standardization. It is composed of two mid-section-joined conical tanks with four orbiting spiral agitators, two to each tank. Separate 40-horsepower motors provide for the axial screw mixing actions of the four agitators. With four screws operating at the same time, the massive new mixer has an additional intermixing feature by having currents occurring through the juncture of the two tanks. With this mixing action added to the others, 16 simultaneous mixing actions occur on a continuing basis as a batch is being processed. The unit is especially suited to the mixing of flaky products where breakage is to be avoided but is also ideal for the gentle blending of agglomerates to prevent particle breakdown. Some of the products which can be handled are adhesives, brake lining compounds, colored cement mixes and textile sizing compounds.

DELTECH DRYERS & DRAIN VALVES

Deltech Engineering, Inc., New Castle, Delaware, released several brochures to describe its various *dryers and drain valves.* Bulletin 340 covers Deltech's extended line of *PS series heatless dryers* which remove moisture to pressure dew points as low as minus 150°F. Benefits emphasized include low maintenance, low power consumption, increased desiccant life and ease of installation. Capacities range to 2,500 scfm at rated conditions of 100 psig inlet pressure, 120°F inlet temperature and minus 40°F pdp. . . . Deltech's energy efficient *heat pump dryers* combine the best advantages of both refrigeration and dual-tower desiccant drying into a single cost-efficient system. The only energy required is that used to operate the refrigeration compressor. Since 75% of

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New. The Durafab BestoShield Coverall.



A low cost disp[illegible]vers specially designed for protection a[illegible]st asbestos and other carcinogens.

Durafab's BestoShield coveralls have outstanding barrier qualities because they're made of DuPont's Tyvek™, a spun-bonded olefin with a Frazier Air Permeability of .01.

The BestoShield coverall can help reduce the health hazards in asbestos mining, shipyards, boiler rooms, insulation work, or any place where asbestos or other carcinogens are involved.

These special coveralls are available in a variety of styles and materials. With or without shoe covers, attached hoods, sealed seams and other features. From conventional styles to totally enclosed coveralls.

The BestoShield coverall is also available coated with polyethelene film to provide water repellency, grease and oil resistance and an effective acid resistant barrier. These coveralls have a Frazier Air Permeability of .0.

Durafab also manufactures a complete line of reusable/disposable lab coats, coveralls, smocks, shirts, pants and a variety of quality protective products.

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the moisture is removed from compressed air by cooling, only 25% must be absorbed by the desiccant. The dryers prevent moisture problems by drying compressed air to a pressure dew point as low as minus 100°F. They are equally suited to drying other gases such as natural gas, hydrogen, oxygen and special mixtures. . . . Bulletin 300H describes the *G series heatless dryers* for low dew point compressed air. A diagram illustrates operation of the dryers and simulates a unique color change signal which verifies at a glance proper dryer performance. . . . A new addition to the company's line is the *D series refrigerated dryer* for compressed air and other gases which provides low cost protection against moisture condensation in compressed air systems when air lines are not exposed to temperatures below freezing. Salient features include fully automatic operation, capacities from 140 to 550 scfm at 100 psig, low initial cost, lowest operating cost, easy installation and compactness. . . . Deltech also released an updated Bulletin 701A to describe a *drain valve* which provides fully automatic draining of water from aftercoolers, separators, receivers, dryers, filters and other components of compressed air systems where condensate collects. The electrically timed drain cycle minimizes the possibility of moisture carry-over into the compressed air system by assuring the unattended removal of condensate from drip legs and other similar collection areas.

DEVCON REPAIR LITERATURE

Abrasion control and repair is the topic of a brochure available from *Devcon Corporation,* Danvers, Massachusetts, which describes preventive maintenance and repair methods for equipment subjected to severe abrasion. Introduced are Devcon plastic carbide, wear-resistant epoxy and plastic steel SF, all products reported to extend the operating life of equipment and reduce replacement costs. A description is given as to how these products are used in power plants, mines and dredging operations for the maintenance and repair of pulverizers, pipe elbows, pumps and other heavy equipment. . . . Another bulletin from Devcon announces the *Flexane belt repair kit* for complete conveyor belt repair. Flexane is a room-temperature-curing urethane.

FROG, SWITCH CRUSHERS

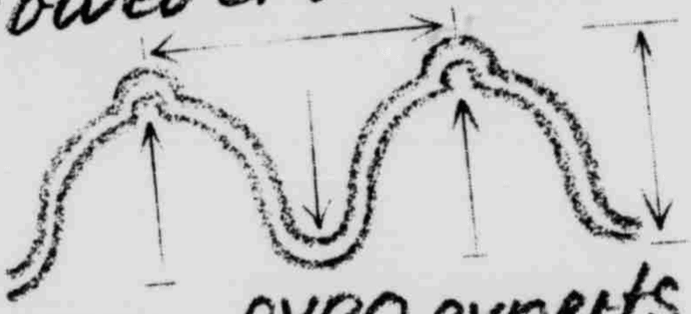
The Frog, Switch & Manufacturing Company, Carlisle, Pennsylvania, offers low capital investment, low cost instaliation, economical operation, high capacity and a choice of sizes with its newly-designed *200 series Pulvomatic crushers.* The simple design and

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Reminder

NOTE

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rugged construction reportedly offer years of trouble-free production. The base is a solid steel plate; drive pedestals and housings are made of heavy steel sections, fully welded; the flywheel-sheave equalizes the loading on the double race tapered roller bearings which are mounted in cast steel pilow blocks; and a high tensile special alloy steel shaft provides full diameter through the bearings which are mounted in cast steel pillow blocks; and a high automatic lubrication or oiling systems to maintain, nor is there build-up welding of worn parts. Breaker plates form outside shell and can be replaced quickly without complete disassembly of entire machine. Rotor replacement can be accomplished in about three hours. The crushing chamber is designed to provide 90° impact to the material being crushed, contributing to excellent particle shape of the product and improved impact hardening of the manganese wear parts. *Prudential International Corporation*, New York City, is the International Marketing and Export Department for Frog, Switch.

KAY-RAY SYSTEMS

Kay-Ray, Inc., Arlington Heights, Illinois, announced its *6000X non-contacting digital weigh scale* which features totally automatic recalibration, immunity to environmental effects or conveyor misalignments and drift-free microprocessor-based electronics. The scale requires no mechanical spares or maintenance and can be installed on belt, screw or drag chain conveyors without process downtime or conveyor modification. . . . Also, Kay-Ray published a catalog which explains operating principles, features, application criteria and typical applications for *density, level, conveyor scale and percentage of moisture measurement and control systems* for solids, liquids or slurries. The accurate, non-contacting sensors operate on the principle that gamma energy penetrates all materials but is attenuated relative to the mass of material through which it passes. Kay-Ray has expanded its unique measurement capabilities to include digitally-based signal processors and control systems. These systems provide continuous, non-contacting measurement and automated control. Sensor accuracy and reliability are unaffected by extreme product and process operating conditions. Continuous, on-line measurement makes possible effective, reliable control.

LAMSON PALLETIZER INSPECTION

A new, semi-automatic *inspection system* which is said to virtually *eliminate palletizer downtime due to defective pallets* was announced by *Lamson Company*, Syracuse, New York. After the

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To meet clean air standards you not only need a centralized dust collector, you also need a decentralized dust collector.

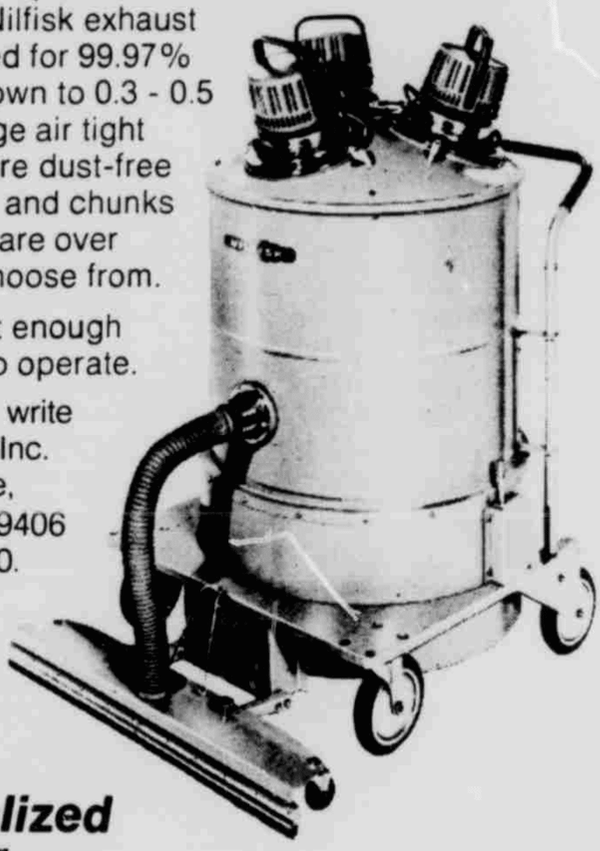
Clean air standards being what they are, you may not be meeting them even with a central dust collector. And this year, standards are being tightened even further.

So you ought to look at the Nilfisk GA 73 portable industrial vacuum cleaner. It picks up where central systems leave off. And it does that with Nilfisk's exclusive multi-stage filtration system. The oversize main filter resists early dust clogging, and can be shaken and cleaned at all times without exposing the operator.

In addition special Nilfisk exhaust filters can be installed for 99.97% average retention down to 0.3 - 0.5 microns. Heavy gauge air tight container liners insure dust-free disposal of fine dust and chunks of debris. And there are over 50 attachments to choose from.

Yet the GA 73 is light enough for a single person to operate.

For more information, write to Nilfisk of America, Inc. 201 King Manor Drive, King of Prussia, PA 19406 or call (215) 277-3900.



NILFISK GA 73.

The decentralized dust collector.

pallets are stacked on the delivery conveyor by a fork truck, the driver pushes a start button and the stack automatically moves to the dispenser for individual inspection. If the pallet is defective, it can be removed manually. The good pallets are then transported to the collector for automatic restacking and removal. Approximately 400 pallets can be inspected by one man in an hour, at a cost of about 1.7¢ per pallet. The system also reduces product damage from protruding nails and splinters and prevents unstable loads caused by missing pallet boards. A powered section for removing rejected pallets can be included.

MACAWBER DOME VALVE

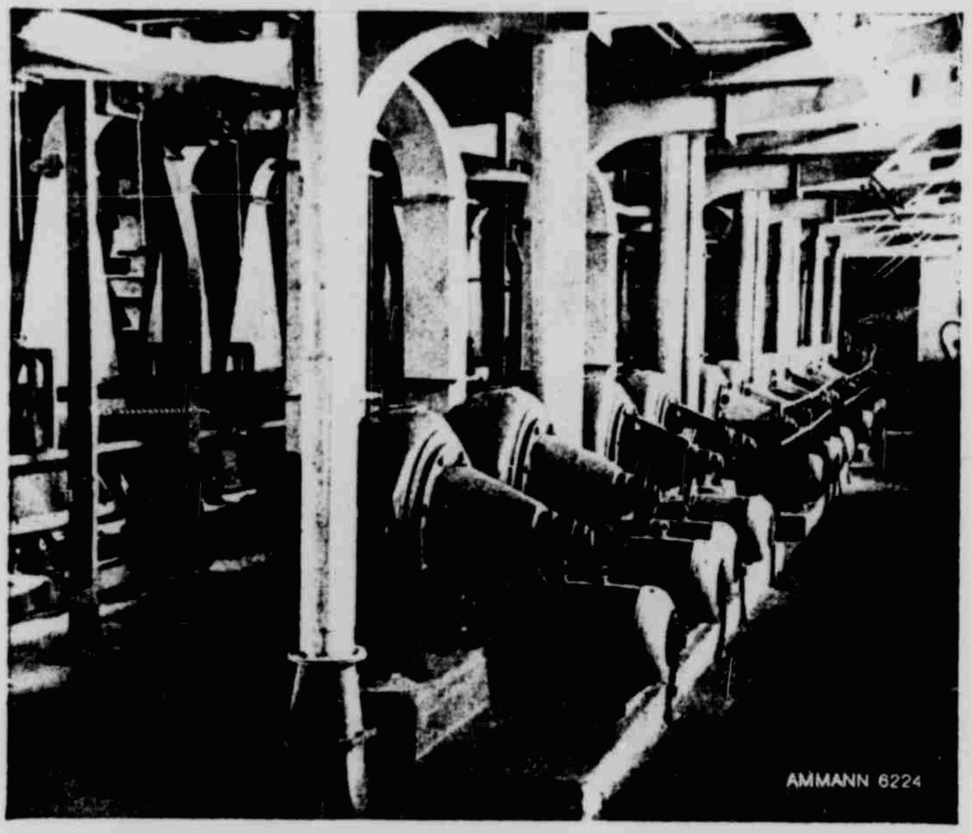
Plant engineers responsible for handling abrasive bulk solids and slurries can forget about the problems of jamming stop valves by using its new power-operated, single-action, pressure-tight *Dome Valve*, according to *Macawber Engineering Inc.*, Maryville, Tennessee. The valve, now being introduced to world markets, is a totally new concept which avoids the problems of seal damage associated with traditional knife blade valves and of material obstructions which can occur with butterfly valves. In just one operation, the new valve closes through a static or dynamic head of material and gives a pressure tight seal, even with materials at temperatures up to 896°F. In approved applications the valve is rated for 160,000 cycles between inspections. The valve is available in two standard versions. The bulkhead configuration is for applications where controlled environments are required in process vessels, after filling or emptying. The valve can also be attached to bulk storage hoppers when remote controlled power operation of tank emptying is required. The in-line configuration is for slurry pipeline or bulk materials conveying where a line stop valve is needed. In these applications, a reliable pressure seal must be maintained after closure.

MOTOROLA MOISTURE ANALYZER

Motorola Process Control Inc., Phoenix, Arizona, a subsidiary of *Motorola Inc.*, introduced the *Computrac II*, an improved computerized moisture analyzer which determines the moisture content of organic and inorganic materials. Principal modification in the new unit is the replacement of its load weighing cell by a newly developed force balance which is an electronic device that measures changes in weight. This force balance provides long-term sta-

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AMMANN Asbestos Mill



The ONLY DISINTEGRATOR treating the asbestos fibres without breaking them. Disintegrator used so to say by the most important Asbestcs Mines of the whole world.

The above illustration shows a large plant comprising several AMMANN disintegrators in an asbestos mine.

U. AMMANN Ltd.

Engineers **CH 4900 Langenthal** **Switzerland**

Cables: Ammannag Langenthal — Telex: Nr. 68446

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bility, accuracy and repeatability. The analyzer is the only microcomputer-controlled moisture analyzer that can be pre-set to any temperature between 75°C and 165°C in 1° increments, designed to hold that setting throughout a test. It can quickly determine the moisture/volatiles content of any solid sample of 3 to 6 grams mass and display the result in a digital LED form. In actual operation, the start button is depressed and a sample of the material to be tested is placed in the sample tray which rests on a flat surface, so the same tray can be used for both dry and liquid samples. A built-in computer automatically determines the proper weight of the sample. The lid is then closed and the test is automatic from then on, with predicted moisture percentage being displayed every few minutes until completion of the test. The machine shuts off when the sample has been dried to 0% moisture, although the final moisture reading remains on the digital LED display. Material to be tested with moisture content of 5% to 20% will have final results displayed within 7 to 10 minutes. Material with moisture content of 70% or above requires a longer drying time to reach 0% moisture, normally about 30 minutes. Compu-Trac II has no moving parts, is self-calibrating, self-zeroing and self-diagnostic. Accuracy is guaranteed to ± 0.1% moisture.

NATIONAL-STANDARD WIRE CLOTH

Industrial wire cloth is the subject of a 28-page catalog published recently by *The Woven Products Division of National-Standard Company*, Corbin, Kentucky. The literature describes types of weaves, materials and unique characteristics of wire cloth in addition to listing the wide range of wire cloth available in standard and special weaves. It contains a glossary of wire cloth terms and information on the physical properties of steel wire.

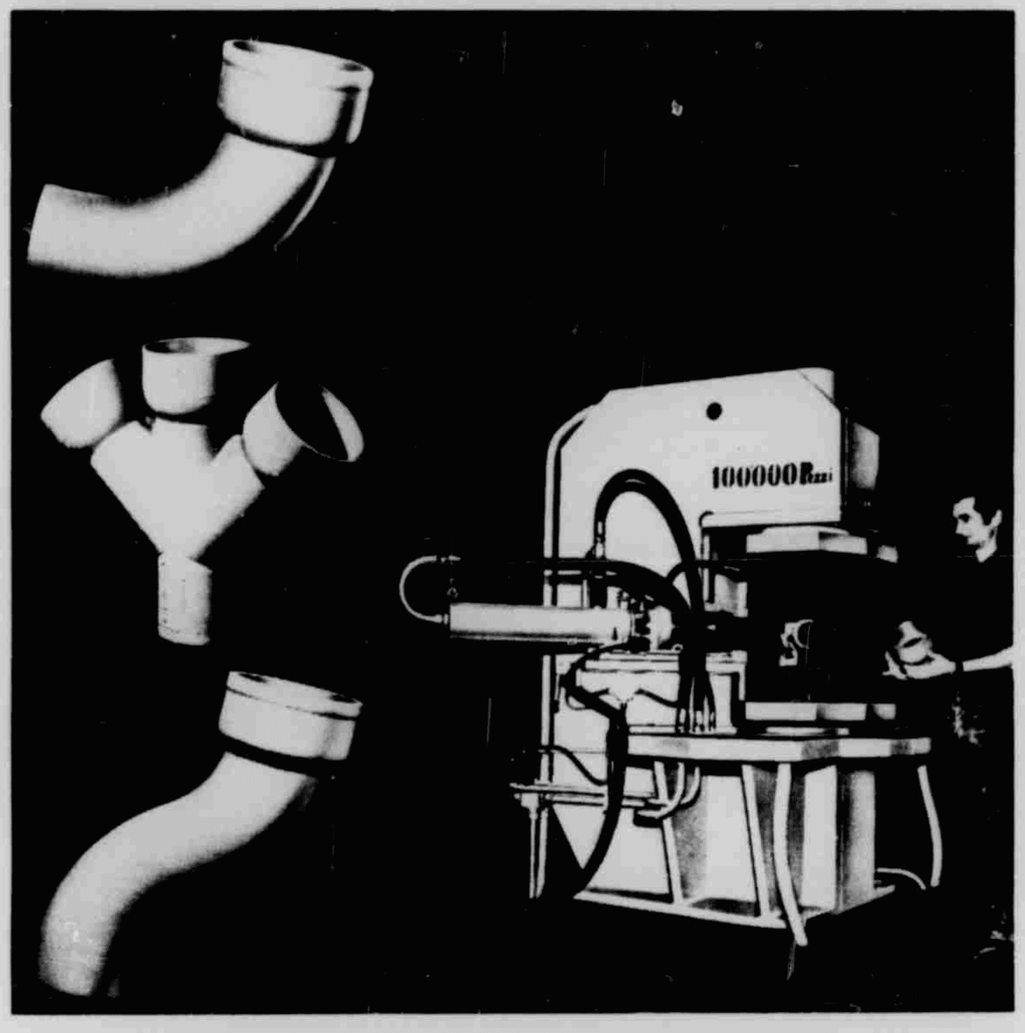
GRANT THERMOSTATIC EQUIPMENT

Science/Electronics, Inc., Dayton, Ohio, recently announced the availability of a 20-page 1980 catalog on *Grant thermostatic equipment.* Included is detailed information on over 40 models which yield a product line temperature range of minus 30°C to plus 400°C, in baths sizes ranging from 3.5 to 50 liters. Featured are thermostatic baths, shaking incubators, boiling unit, individual controllers, circulators, block heaters, refrigeration accessory units and independent thermal safety devices for use with any temperature limiting/controlling device.

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"P 8" Plant for the production of asbestos-cement fittings for pipes, gutters and similar articles

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Automatic INJECTION Plants

NEWS OF COMPANIES & PRODUCTS

SUPRADUR SHINGLES

Mineral fiber roofing shingles are the subject of product brochures recently made available by *Supradur Manufacturing Corporation,* New York City and Wind Gap, Pennsylvania. Among the products described are WESTERN SHAKES, a quality shingle which looks like handsome wood shakes with all the warmth and beauty of the natural product while being practically indestructible. Another material is SUPRA-SLATE which features the look and durability of natural stone and is manufactured in colors of real quarry slate. The shingles provide maximum protection from the elements while contributing to the beauty of the structure. . . . *Terry Burners Inc.,* Montreal, Quebec, a maker of heating equipment, has been acquired by Supradur, effective April 1, 1980.

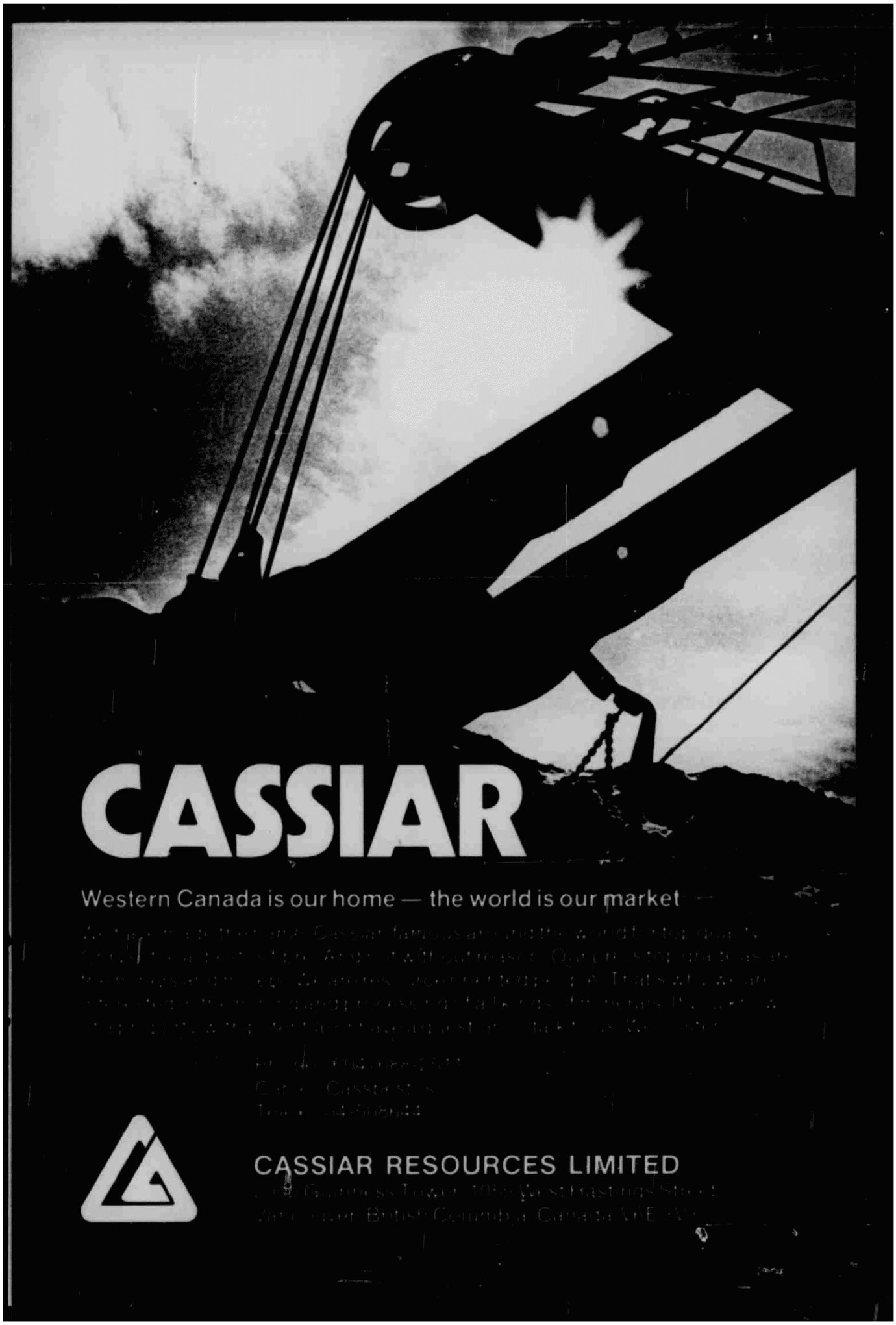
DUKE REFERENCE PARTICLES

Duke Scientific Corporation, Palo Alto, California, announced an expanded line of over 100 analytical reference particles covering a range of sizes from 0.1 to 900 micrometers. The highly uniform spheres, fibers and irregularly shaped particles are made of polystyrene, glass, asbestos, alumina and a variety of other materials and are packaged in dropper-tipped polyethylene or glass vials for convenient laboratory use. Small quantities of narrowly sized particles are used as reference materials in the fields of pollution control, chemical engineering, biomedical sciences and instrument development. Typical applications include analytical methods evaluation, filter checking, fluid dynamics and laser optics instrumentation.

CAPE PRODUCTS

Cape Boards and Panels Ltd. has received one of its biggest orders, for the single largest civil engineering project currently being undertaken anywhere in Europe. The order, valued at £227,000, is for the supply of VERMICULUX and SUPALUX asbestos-free, fire-resisting boards for the Dinorwic pumped-storage power station under construction in North Wales. The boards are to be used to provide vital underground fire protection casings to the structural steelwork and for ceiling linings in the turbine hall, switchgear room and ancillary buildings. The structure has been based underground to preserve the beauty of the area. . . . VERMICULUX also was selected to provide fire protection to the massive steel beams and columns of the 30-meter-high air-

Asbestos Magazine, 1980, September 1980
ACL Doc 12737 · Page 18 of 56
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craft hangars at Heathrow Airport. . . . In February CBPL launched a new asbestos-free, external grade board called MASTERCLAD. A comprehensive testing program indicates the material should have an external life expectancy well in excess of 50 years, under the worst of British weather. It was developed to meet the cladding needs of the industrial, housing and system building markets. It also has many internal and external applications within the agricultural market. The product has a Class I surface spread of flame and is Class O to the building regulations. It is dimensionally stable, immune to the effects of dampness and humidity, will not rot or support mold growth and has been tested to BS690:Part 3:1973 for impermeability and ability to withstand frost. . . . MONOLUX 40, another noncombustible product, has found an interesting new use as cladding for mansard roofs. The roofs have a slope in excess of 70° and often incorporate windows. . . . A £10,000 contract, the first of its type, has been won by *Cape Insulation Services Ltd.* to supply and install ROCKSIL fire barriers to provide half-hour fire protection barriers in the void above suspended ceilings over fire doors in the main buildings at Bradford University. . . . Orders for asbestos-cement sheeting and pitch fiber from Hong Kong, Singapore and Malaysia have been a major feature this year for *Cape Universal Claddings Ltd.* In spite of the unrest in the Middle East, trade still continues and there is evidence of increased activity in the building materials markets. Among the orders was £165,000 worth of pitch fiber pipe for Yemen.

JIM WALTER PRODUCT LINE

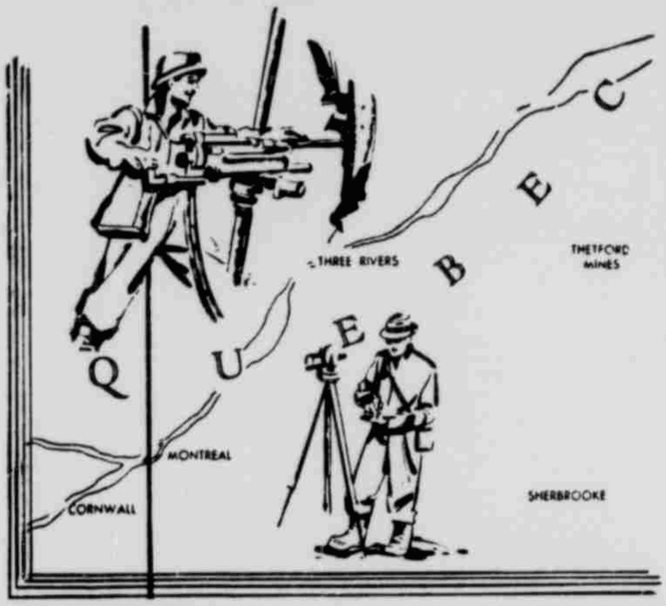
Jim Walter Corporation, Tampa, Florida, has issued a brochure to outline the various products it manufactures and markets for use in residential and nonresidential construction, renovation and remodeling, industry, water and wastewater transmission and homebuilding. Also described are Jim Walter's insurance, savings and loan and research services. Among the familiar trade and product names covered are Briggs, Celotex, Colombia Moulding, Gamble, Georgia Marble, Miami-Carey, Southeastern Bolt & Screw, U.S. Pipe, Vestal, Carey Canada, Hamer Lumber, Southern Precision and Wedlo.

BENDIX CLOSES WINDSOR PLANT

Bendix Corporation has announced it will permanently close the Windsor, Ontario, operations of its Canadian subsidiary, putting 490 people out of work. Mr. Earl Smith, President and General Manager of *Bendix Automotive of Canada Ltd.* said the sharp

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- AIR SEPARATORS
- ROCK FIBERIZERS
- RAYMOND WHIZZERS
- SCALES & MAGNETS
- FANS & FILTERS
- BAUER HURRICANE PULVERIZER
- CHECK WEIGHERS
- CYCLONES
- ROTARY VALVES
- ASPIRATION PIPING
- TURBO FIBERIZERS
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- LABORATORY EQUIPMENT
- BAUER SPECIFIC GRAVITY SEPARATORS

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downturn in the automotive industry has left Bendix with substantial excess plant capacity in North America and associated fixed costs. The plant, which manufactures and assembles automobile brakes, will be sold and production moved to the company's plant at South Bend, Indiana.

NEW CAPCO NAME & FACTORY

CAPCO Pipe Company, Inc., Birmingham, Alabama, is the new name of *Cement Asbestos Products Company*, symbolic of the company's recent expansion into product lines other than asbestos-cement pipe. . . . CAPCO recently purchased a 72-employee, polyvinyl chloride (PVC) pipe plant at Evansville, Indiana, from *Robintech, Inc.*, for approximately $2-million. CAPCO currently markets PVC pipe and manufactures asbestos-cement pipe and cast-iron fittings at its plants at Van Buren, Arkansas, and Ragland, Alabama. The company was founded in 1963 and is a wholly-owned subsidiary of Asarco Inc.

HUMES TO MANUFACTURE IN INDONESIA

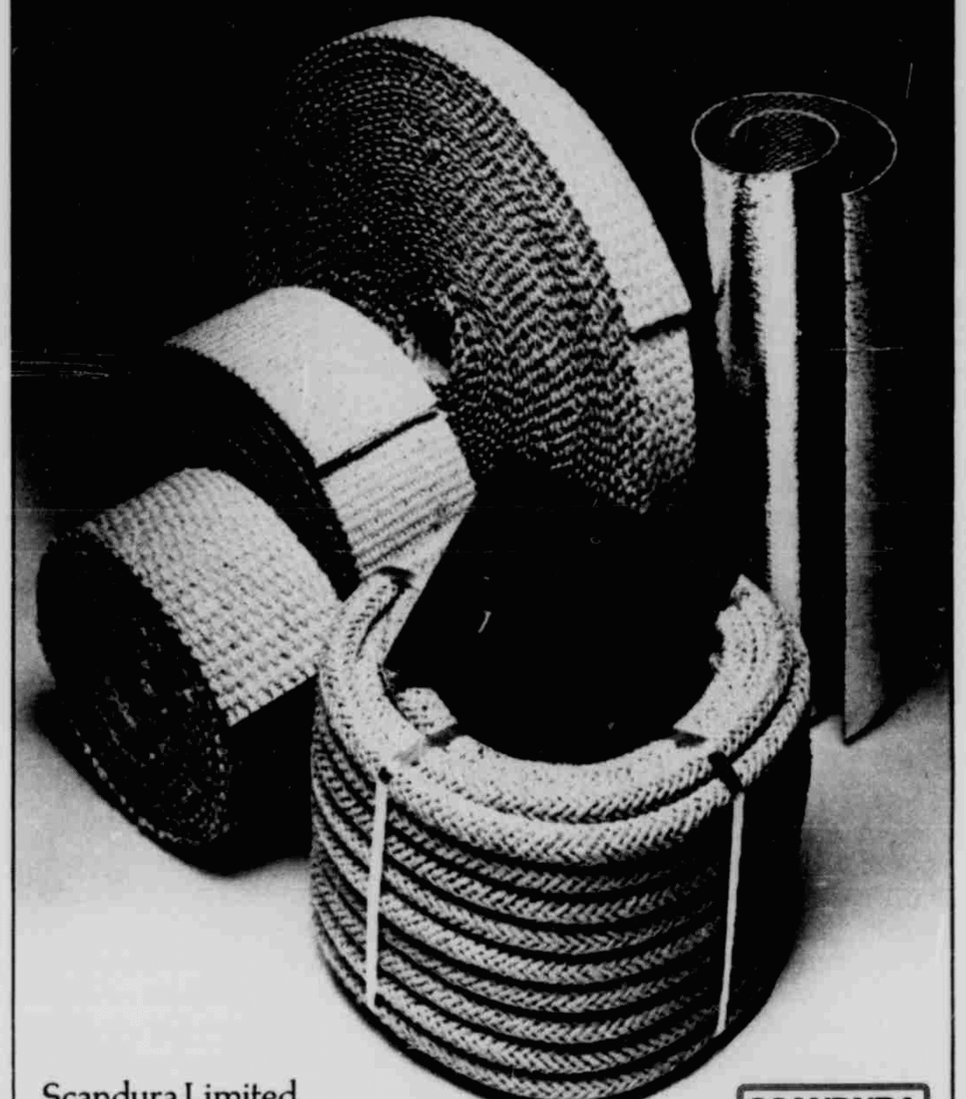
P. T. Hume Sakti Indonesia has been formed as a new associate company by *Humes Ltd.*, Melbourne, Australia, together with *Hume Industries (Far East) Ltd.*, Singapore, and a local Indonesian company, *P. T. Kenjana Sakti.* The first factory is now being constructed at Cakung, near Jakarta, at a cost of A$2.5-million (1.8-billion Rupiah). It will make pipes from 300 mm to 2100 mm and should be in operation by early 1981. Indonesia has just begun its third five-year development program, hence offering a potential market for Humes' prestressed and reinforced concrete pipes, products and components.

PLASTICS FILLERS MARKET GROWING

Business Communications Company, Inc., Stamford, Connecticut, predicts growth for fillers, extenders and reinforcements in plastics will increase from the present level of 5.1-billion pounds annually to about 11.9-billion pounds in 1990. This represents a compound increase of 8.8% per year. Consumption of asbestos is calculated at 518-million pounds in 1980, 645-million pounds in 1985 and 803-million pounds in 1990, an average annual increase of 4.5%. According to BCC, asbestos, which has one of the lowest growth rates of all the materials studied, is a mature market and has come under some severe environmental and health restrictions.

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MARKET CONDITIONS

GENERAL BUSINESS

Figures just released show the Index of Leading Economic Indicators rose a record 4.6% in July, the second substantial increase in succeeding months, but other statistics indicated the transition from recession to recovery is still not in sight. Contrary to expectations, interest rates, after a lengthy and substantial decline, have turned sharply upward, raising fears that continuing rises could jeopardize the recovery which is widely anticipated to begin around the turn of the year. In late August, the prime interest rate stood at 11½% and was expected to move to 11¾% soon if other rates continued their upward course.

As was suggested last month, food prices have begun a strong upward move and the Consumer Price Index already reflects this increase which promises to become more serious in the months ahead. Thus far, the effect of inclement weather has been evidenced mainly in rising grain prices. Other factors are likely to push grain prices still higher and this will result in rising prices for meat later in the year.

The President has outlined a set of new economic proposals designed to combat the recession and to lay the groundwork for a "revitalization" of the American economy without increasing inflation. It includes an assortment of tax cuts and credits, slanted mostly toward business, loan guarantees and other subsidies to encourage investment in distressed areas, anti-recession aids to certain government bodies and, particularly, tax credits to partially offset the substantial increases in Social Security taxes over the next few years. It is obvious the program has strong political overtones and equally certain it contains no sweeping new strategies for improving the state of the economy over the longer term.

In addition to the specific proposals which many observers consider as strictly of the "band aid" variety, Mr. Carter also announced plans for an Economic Revitalization Board composed of labor, business and government representatives and designed to "mobilize both public and private resources . . . to help revitalize American industry in areas most affected by economic dislocation or industrial bottlenecks." In effect, the Board would attempt to foster increased cooperation among industry, labor and government in place of the generally adversary relationships which now exist. With the President of the AFL-CIO and the Chairman of the Du Pont Company heading the Board, there is hope that its work will eventually prove fruitful, but even the most optimistic see no

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ACL Doc 12737 · Page 24 of 56
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ASBESTOS

HUXLEY DEVELOPMENT CORPORATION

Anthophyllite
Chrysotile
Crocidolite
Amosite

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chance for quick correction of an unhealthy situation which has been many years in the making. In truth, some very knowledgeable people have already voiced the fear that such an arrangement will lead to even further government intrusion into economic affairs, with predictably disastrous results.

MOTOR VEHICLE FACTORY SALES

FIRST HALF 1980—Motor vehicle factory sales from plants in the *United States* totaled 4,267,328 during the first six months of 1980, compared with 6,686,574 in the like period a year earlier. Breakdown for the latest half-year was: 3,415,598 passenger cars (down 29%) and 851,730 trucks and buses (down 54%).

Factory sales from plants in *Canada* reached 726,312 motor vehicles to June 1980, 23% less than a year earlier. [Motor Vehicle Manufacturers Association of the United States, Inc.]

POLYREZ COMPANY, INC.



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FOR FRICTION MATERIALS

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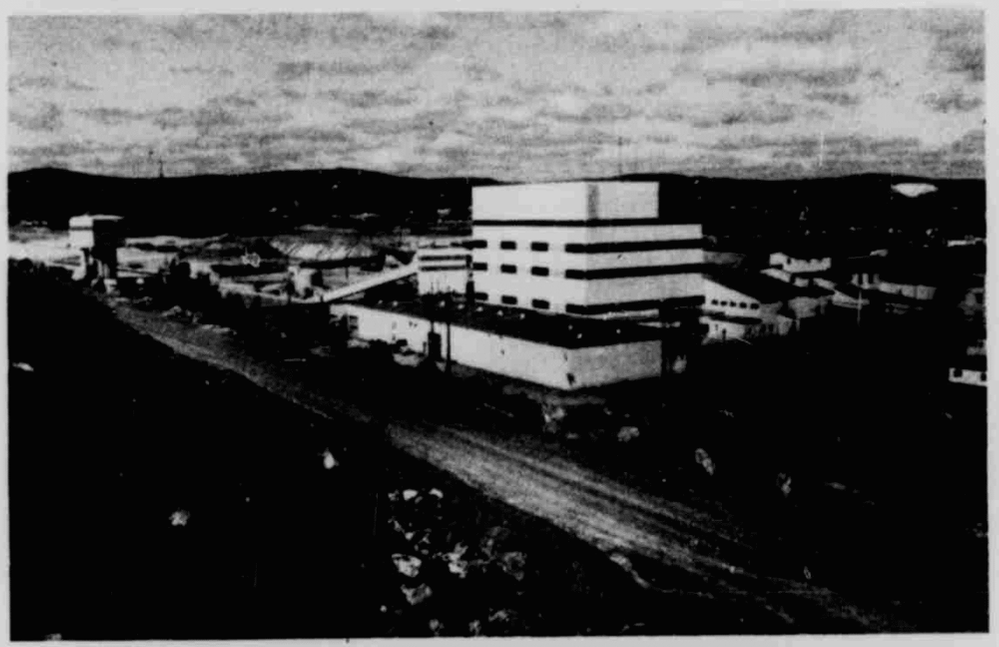
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POLYREZ is the registered trademark of
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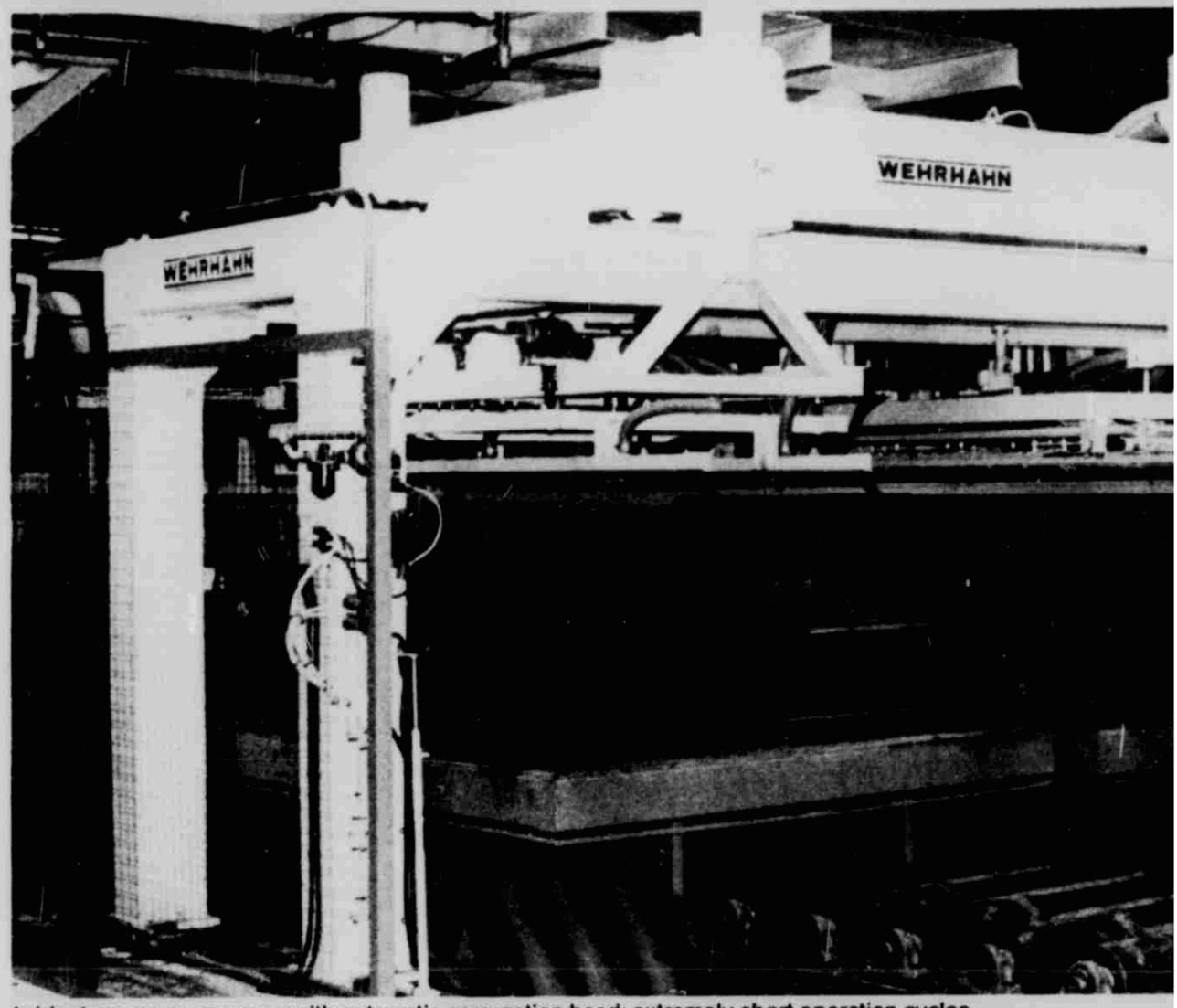
Producer of all grades of chrysotile asbestos fibres.



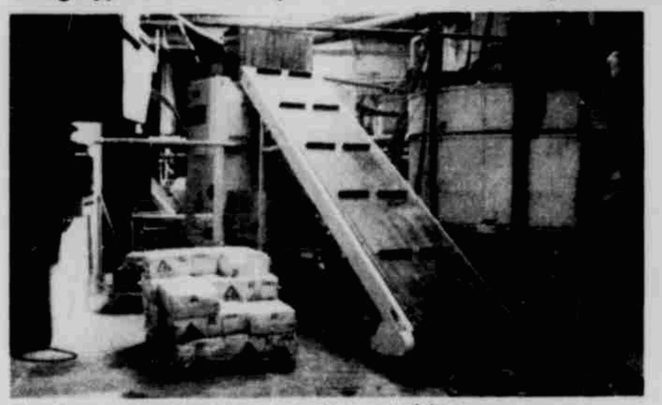
We are undertaking a second century of continued service to the asbestos manufacturing industry.

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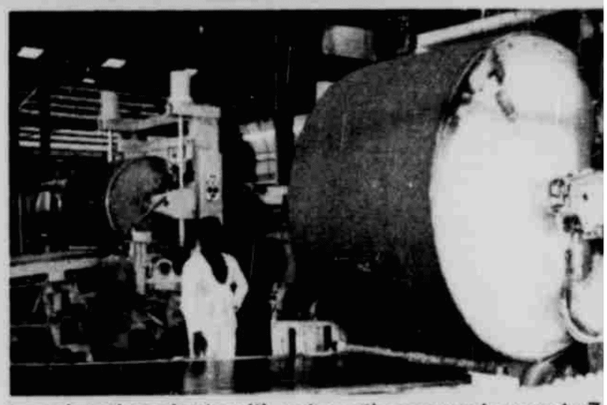
WEHRH



bridgetype cross conveyor with automatic corrugation head; extremely short operation cycles



dustfree asbestos bag-opening machine

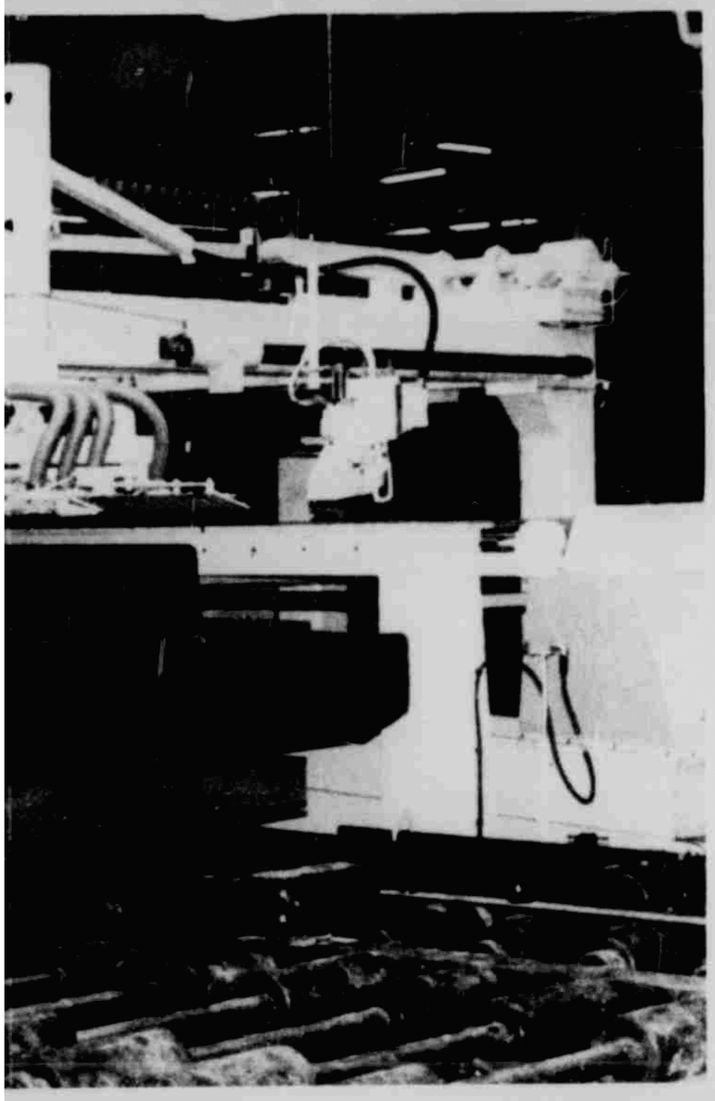


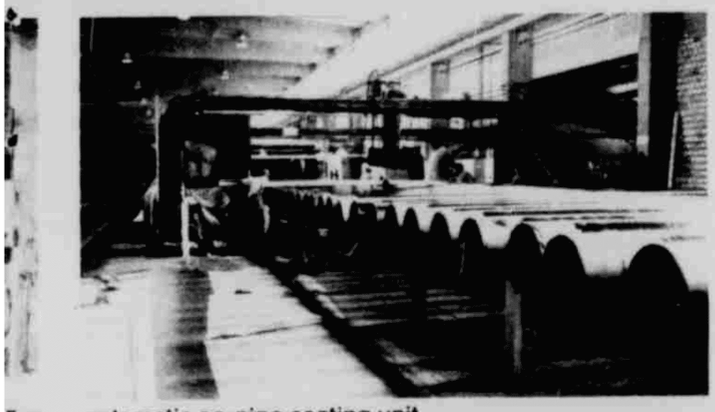
two sheeting plants with automatic corrugators up to 7

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Complete plants for the production of asbestos cement pipes and asbestos cement sheets

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PRODUCTION—IMPORTS—EXPORTS

IMPORTS INTO THE UNITED STATES

From: U.S. Bureau of the Census

			MAY 1980	
UNMANUFACTURED ASBESTOS:				
Amosite, South Africa	s.tons	19	$	101,268
Crocidolite, South Africa	s.tons	1,857		1,074,026
Chrysotile Spinning Fibers, Canada	s.tons	330		210,367
Rhodesia	s.tons	20		20,819
South Africa	s.tons	298		253,455
Chrysotile, Other, Canada	s.tons	25,265		4,585,353
Germany, Fed. Rep.	s.tons	21		2,368
South Africa	s.tons	519		322,968
Other Crudes & Fibers, Canada	s.tons	691		216,775
Germany, Fed. Rep.	s.tons	7		10,857
India	s.tons	46		13,890
Rhodesia	s.tons	20		21,045
		29,093	$	6,833,191
MANUFACTURED ASBESTOS PRODUCTS:				
Asbestos yarn, cloth, tape, etc.	Lb	504,861	$	946,231
A-C pipes, tubes & fittings	Lb	398,121		54,681
Other asbestos-cement articles	Lb	7,871,468		1,237,851
Other asbestos articles		..		447,119
			$	2,685,882

			JANUARY-MAY 1980	
UNMANUFACTURED ASBESTOS:				
Amosite, South Africa	s.tons	115	$	151,902
Crocidolite, Canada	s.tons	57		11,672
South Africa	s.tons	7,040		4,410,710
Chrysotile Crudes, Rhodesia	s.tons	22		29,592
Chrysotile Spinning Fibers, Canada	s.tons	3,014		2,252,345
Rhodesia	s.tons	522		494,547
South Africa	s.tons	298		253,455
Chrysotile, Other, Canada	s.tons	173,124		40,467,551
Germany, Fed. Rep.	s.tons	21		2,368
Mexico	s.tons	27		783
South Africa	s.tons	758		432,262
Other Crudes & Fibers, Canada	s.tons	4,097		1,121,537
Germany, Fed. Rep.	s.tons	21		28,280
India	s.tons	46		13,890
Japan	s.tons	13		4,440
Mexico	s.tons	1		1,750
Rhodesia	s.tons	100		101,170
South Africa	s.tons	976		647,675
United Kingdom	s.tons	1		712
		190,253		$50,426,641

Asbestos Magazine, 1980, September 1980
ACL Doc 12737 · Page 30 of 56
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U.S. IMPORTS—CONTINUED

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos yarn, cloth, tape, etc.	Lb	3,202,591	$ 5,461,026
A-C pipes, tubes & fittings	Lb	3,703,460	548,253
Other asbestos-cement articles	Lb	28,492,352	5,240,625
Other asbestos articles			2,571,547
			$13,821,451

January-May 1979: U.S. imports of unmanufactured asbestos totaled 268,881 short tons, valued at $65,212,494; imports of manufactured asbestos products were valued at $12,945,928.

CANADIAN FIBER SHIPMENTS

Primary Canadian Producers' shipments of asbestos (including tonnage for own use and concentrate shipped from Asbestos Hill) amounted to 125,291 metric tonnes in *June 1980* compared with 138,836 tonnes in the sixth month a year earlier. Cumulative total for *January-June 1980* was 601,473 tonnes: 511, 976 tonnes from plants in Quebec and 89,497 tonnes from plants in Newfoundland and British Columbia. Total shipments for the first six months of 1979 were 715,703 tonnes: 633,606 tonnes from Quebec plants and 82,097 tonnes from the remaining operations. [Canadian Department of Energy, Mines and Resources]

FELT SHIPMENTS FROM CANADA

Canadian domestic shipments of *wet felts and jackets* for the *First Half of 1980* totaled 326,422 kilograms, valued at C$15,347,421. These figures include 1,740 kg, valued at $33,819, to manufacturers of asbestos-cement pipes and/or sheets. Foreign Shipments during the half-year reached 178,805 kg, valued at $9,610,019, including 23,821 kg, valued at $579,388, to a/c pipe and/or sheet makers. . . . Total Canadian shipments of *dryer felts and fabrics* for the six months amounted to 280,279 square meters, valued at $12,856,189. . . . Shipments of Canadian *plastic forming and paper machine fabrics* totaled 137,742 m², valued at $14,108,484. . . . Total Shipments of *pulp machine fabrics* during the latest half-year reached 6,268 m², valued at $541,975. [Statistics Canada]

SOUTH AFRICAN PRODUCTION & EXPORTS

Asbestos *production* in the *First Nine Months of 1979* totaled 178,711 metric tonnes, against 192,255 tonnes in the like 1978 period (down 7%). Breakdown for the latest nine months is: 84,644 tonnes of Cape Crocidolite (down 19%), 65,837 tonnes of Chrysotile (up 14%), 28,230 tonnes of Amosite (down 4%), and no Transvaal Crocidolite vs. 117 tonnes in the prior like period. . . . *Exports* in the *January-September 1979* period were valued at R74,763,823, down 10%. By variety of asbestos, the values for the latest nine months were: Cape Crocidolite—R49,985,027 (down 12%), Chrysotile—R12,025,537 (up 11.5%), and Amosite—R12,753,259 (down 18%). [South African Department of Mines]

Asbestos Magazine, 1980, September 1980
ACL Doc 12737 · Page 31 of 56
Published by AsbestosClaims.Law
asbestosclaims.law/library/12737/31

EXPORTS FROM THE UNITED STATES

From: U.S. Bureau of the Census

			MAY 1980
UNMANUFACTURED ASBESTOS:			
Asbestos crudes, fibers & stucco	s.tons	4,214	$ 1,764,392
Asbestos sand & refuse	s.tons	2,085	738,061
		6,299	$ 2,502,453
MANUFACTURED ASBESTOS PRODUCTS:			
Asbestos yarn, cloth, tape, etc.	Lb	555,491	$ 1,072,087
Asbestos-Cement shingles & clapboard	Lb	2,348,401	416,028
Other asbestos-cement articles	Lb	1,523,155	546,042
Asbestos gaskets	Lb	94,992	252,580
Asbestos packings & seals	Lb	882,976	1,796,271
Asbestos insulation		..	1,040,559
Brake linings & disc brake pads		..	4,455,478
Clutch facings & linings		..	1,885,543
Other asbestos articles		..	2,612,394
			$14,076,982

			JANUARY-MAY 1980
UNMANUFACTURED ASBESTOS:			
Asbestos crudes, fibers & stucco	s.tons	15,216	$ 6,476,558
Asbestos sand & refuse	s.tons	6,006	1,888,834
		21,222	$ 8,365,392
MANUFACTURED ASBESTOS PRODUCTS:			
Asbestos yarn, cloth, tape, etc.	Lb	1,727,739	$ 3,209,046
Asbestos-Cement shingles & clapboard	Lb	5,690,134	1,218,632
Other asbestos-cement articles	Lb	13,062,762	4,216,555
Asbestos gaskets	Lb	439,837	1,338,546
Asbestos packings & seals	Lb	2,082,022	6,593,014
Asbestos insulation		..	2,832,636
Brake linings & disc brake pads		..	23,442,334
Clutch facings & linings		..	5,366,359
Other asbestos articles		..	12,932,224
			$61,149,346

January-May 1979: U.S. exports of unmanufactured asbestos reached 16,043 short tons, valued at $5,541,221; exports of manufactured asbestos products were valued at $60,262,074.

—ASBESTOS is pleased to welcome the following new advertiser—

PENN ENVIRONMENTAL HEALTH, PITTSBURGH, PENNSYLVANIA

(See Page 49)

EXPORTS FROM CANADA

From: Statistics Canada

MAY 1980

Short tons

UNMANUFACTURED ASBESTOS:	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
Western Europe	..	158	11,672	6,344
Eastern Europe	..	134	625	562
Middle East	..	..	60	..
Africa	..	..	1,056	..
Asia	..	58	3,364	7,631
Oceania	..	..	1,862	58
So. & Cen. America & Antilles	..	50	2,467	2,341
United States	—	150	29,604	10,624
	..	550	50,710	27,560

The total amount of unmanufactured asbestos exported in *May 1980* was 78,820 short tons (71,504 metric tonnes), valued at C$38,712,000.

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos cloth, dryer felts & sheets	C$ 206,000
Asbestos brake linings & facings	316,000
Asbestos-Cement building materials	726,000
Other basic asbestos products	1,336,000
	C$ 2,584,000

JANUARY-MAY 1980

UNMANUFACTURED ASBESTOS:	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
Western Europe	..	1,872	88,318	57,848
Eastern Europe	..	1,186	4,544	781
Middle East	..	100	2,799	330
Africa	..	..	6,662	3,738
Asia	..	771	33,949	48,625
Oceania	..	5	6,820	473
So. & Cen. America & Antilles	..	603	23,083	16,584
United States	—	2,006	62,355	138,296
	..	6,543	228,530	266,675

The total amount of unmanufactured asbestos exported in *January-May 1980* was 501,748 short tons (455,182 metric tonnes), valued at C$213,502,000.

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos cloth, dryer felts & sheets	C$ 1,914,000
Asbestos brake linings & facings	1,440,000
Asbestos-Cement building materials	8,123,000
Other basic asbestos products	5,936,000
	C$17,413,000

January-May 1979: Canadian exports of unmanufactured asbestos totaled 650,739 short tons (590,426 metric tonnes), valued at C$238,085,000; exports of manufactured asbestos products were valued at C$12,594,000.

Asbestos Magazine, 1980, September 1980
ACL Doc 12737 · Page 33 of 56
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CURRENT ASBESTOS PRICES

QUOTED FROM COMPANY PRICE LISTS

ASBESTOS CORPORATION

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

AS OF JANUARY 1, 1980

CANADIAN DOLLARS

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

CASSIAR RESOURCES

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

AS OF JANUARY 1, 1980

CANADIAN DOLLARS

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

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

VERMONT

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

AS OF JULY 1, 1980

U.S. DOLLARS

Grade 3Z fiber	$ 996
Grade 4D fiber	760
Grade 4T fiber	661
Grade 5K fiber	512
Grade 5R fiber	434
Grade 6D waste	318
Grade 7D shorts	205
Grade 7M shorts	117
Grade 7R shorts	108
Hooker No. 1	1460
Hooker No. 2	840

CALIDRIA ASBESTOS

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

AS OF JANUARY 2, 1980

U.S. DOLLARS

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

Asbestos Magazine, 1980, September 1980
ACL Doc 12737 · Page 34 of 56
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asbestosclaims.law/library/12737/34

ASBESTOS PRICES—CONTINUED

CALAVERAS ASBESTOS

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

AS OF JANUARY 1, 1980

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

ARIZONA

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

AS OF JULY 1, 1976

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

BRAZIL

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

AS OF APRIL 1980

		BRAZILIAN CRUZEIRO $
Grades	4Z to 4K asbestos cement fiber	$17778 to $19952
Grades	5D to 5R asbestos cement fiber	7991 10935
Grade	7TF asbestos cement shorts	3157
Grade	8S shorts	1493

In Memoriam

JOSEPH W. GREENEN—August 21, 1980; Vice President of Account Development, Nuturn Corporation; formerly with Worldbestos Company, Auto Friction Corporation and the Grizzly Division of Maremont Corporation; was a Past President of the Friction Materials Standards Institute, Inc.

FRED KOLBERG—June 1980; Co-Founder of Kolberg Manufacturing Corporation, a wholly-owned subsidiary of Portec, Inc.; had a distinguished career in the construction equipment industry for over 50 years.

JACK L. RECHT—July 2, 1980; Manager of the Statistics Department of the National Safety Council; joined NSC in 1955 as a senior statistician; was the chief contributor to the Council's "Accident Facts."

WILLARD D. RYDER—August 7, 1980; Chairman of the Board, Standard Asbestos Manufacturing & Insulating Company; had been associated with the firm for more than 40 years; was a Charter Member of the Houston Engineering and Scientific Society.

WILLIAM J. SLATTERY—July 1980; Manager of the Standards Information Service of the U.S. National Bureau of Standards; was in charge of SIS' reference collection of 240,000 U.S., foreign and international standards and responsible for providing current data on standards and standardization activities to government agencies and the public; was a recipient of the Meritorious Service Award of the American National Standards Institute.

Asbestos Magazine, 1980, September 1980
ACL Doc 12737 · Page 35 of 56
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asbestosclaims.law/library/12737/35

PEOPLE ON THE MOVE

AMERICAN SOCIETY FOR TESTING AND MATERIALS

Robert C. Moore, Senior Vice President of Elson T. Killam Associates, Inc., Millburn, New Jersey, was elected Chairman of ASTM Committee C-17 on Asbestos-Cement Products. He will head the 55-member committee concerned with the promotion of knowledge, stimulation of research and the formulation of test methods, specifications and definitions relating to roofing, siding, flat sheets, corrugated sheets, pipe and similar products deriving their essential properties from asbestos and cement.

CERTAINTEED CORPORATION

Michel L. Besson, Vice Chairman and Chief Executive Officer, has been elected to the additional positions of President and Chief Operating Officer of CertainTeed Corporation. *Franklin R. Winnert*, who recently resigned as President and Chief Operating Officer, is now President and Chief Operating Officer of Safeguard Business Systems, Inc., Fort Washington, Pennsylvania. . . . *Rene Goutte, Fred Timpe* and *John W. Belt, Jr.*, were recently named as Corporate Vice Presidents of CertainTeed. Mr. Goutte had rejoined the company in 1979 and most recently had been President of the Insulation Group. Mr. Timpe started with the firm in 1971 and had been President of the Pipe & Plastics Group. Mr. Belt, who has been with the company since 1972, had been President of the Vinyl Building Products Division. . . . *Dorothy C. Wackerman* is now Assistant Vice President of Public Relations. Her first responsibility with the company was in 1969 as an advertising assistant for CertainTeed-Saint-Gobain Insulation Corporation.

GAF CORPORATION

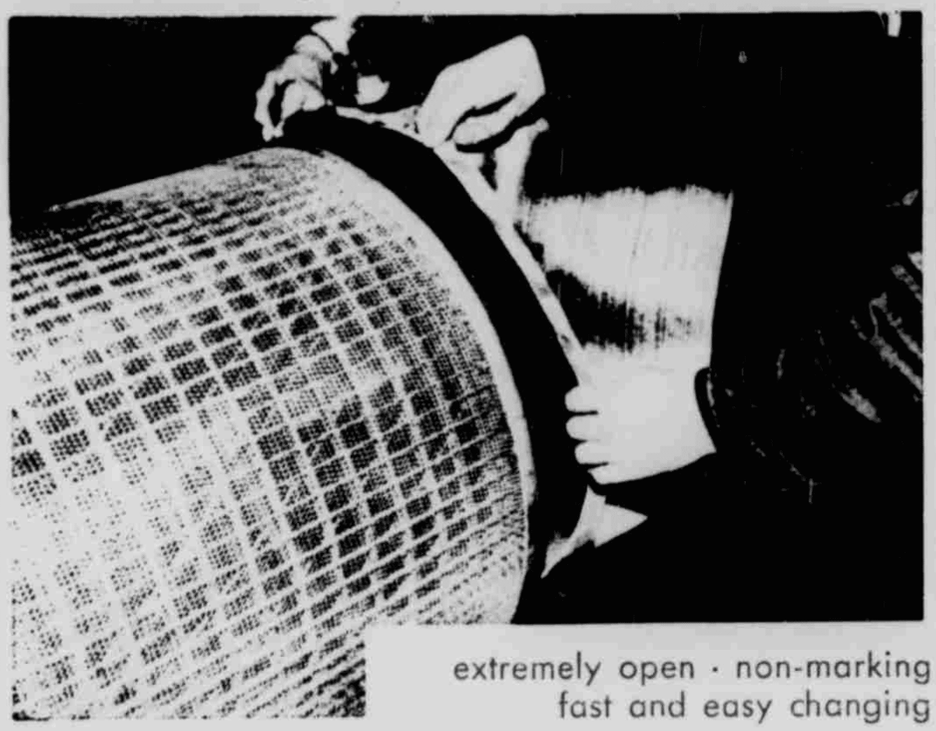
Juliette M. Moran, an Executive Vice President and member of the Board of Directors of GAF Corporation since 1974, was elected Vice Chairman. She joined the company as a chemist in 1943. . . . *Richard Fleming* has been elected President, Chief Operating Officer and a member of the GAF Board. He joined the company in 1969 as Group Vice President and a Director. *Dr. Jesse Werner* continues as Chairman of the Board and Chief Executive Officer. . . . *Abraham Lindenauer* is now Vice President for Technical Services, responsible for corporate, environmental, industrial and maintenance engineering. He succeeds *Thomas A. Dent*, who took early retirement in July 1980.

JAMES HARDIE INDUSTRIES LTD.

R. W. Hardie was named Company Secretary of James Hardie Industries Ltd., succeeding *R. O. Banks*, who retired in early July 1980. Mr. Hardie joined the firm in 1974 as Assistant Company Secretary. . . . Newly appointed Directors of Hardie include *D. G. A. Say* and *W. A. Butterss*.

Asbestos Magazine, 1980, September 1980
ACL Doc 12737 · Page 36 of 56
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SOUTHERN TEXTILE CORPORATION

Southern Textile Corporation has announced the promotion of *Alexander Smith* to the position of Vice President of Manufacturing. Based at the Charlotte Works, Mr. Smith has assumed, as of September 1, 1980, full responsibility for all manufacturing, engineering, purchasing, personnel and research and development. He had been Vice President-Sales. . . . *Frank Williams* was named General Sales Manager, responsible for all customer sales and service, markets and the supervision of all field sales representatives throughout the United States. He joined the company in 1958 as a Territory Sales Representative.

R. M. GORDON RETIRES FROM RAYBESTOS



Robert M. Gordon, (center) Vice-Chairman of Raybestos-Manhattan, Inc., Trumbull, Connecticut, received a silver tray upon his retirement on June 30, 1980. The gift, engraved with the signatures of all of the Directors of R/M, was presented on behalf of the Directors by *William S. Simpson* (right), Chairman of the Board, and *Frederick J. Ross* (left), President and Chief Executive Officer.

Mr. Gordon had been a Director of Raybestos-Manhattan since 1972 and had served as President and Chief Operating Officer from 1974 to 1979. His career with the company, its subsidiary, The Milford Rivet & Machine Company, and a predecessor firm spanned nearly 40 years.

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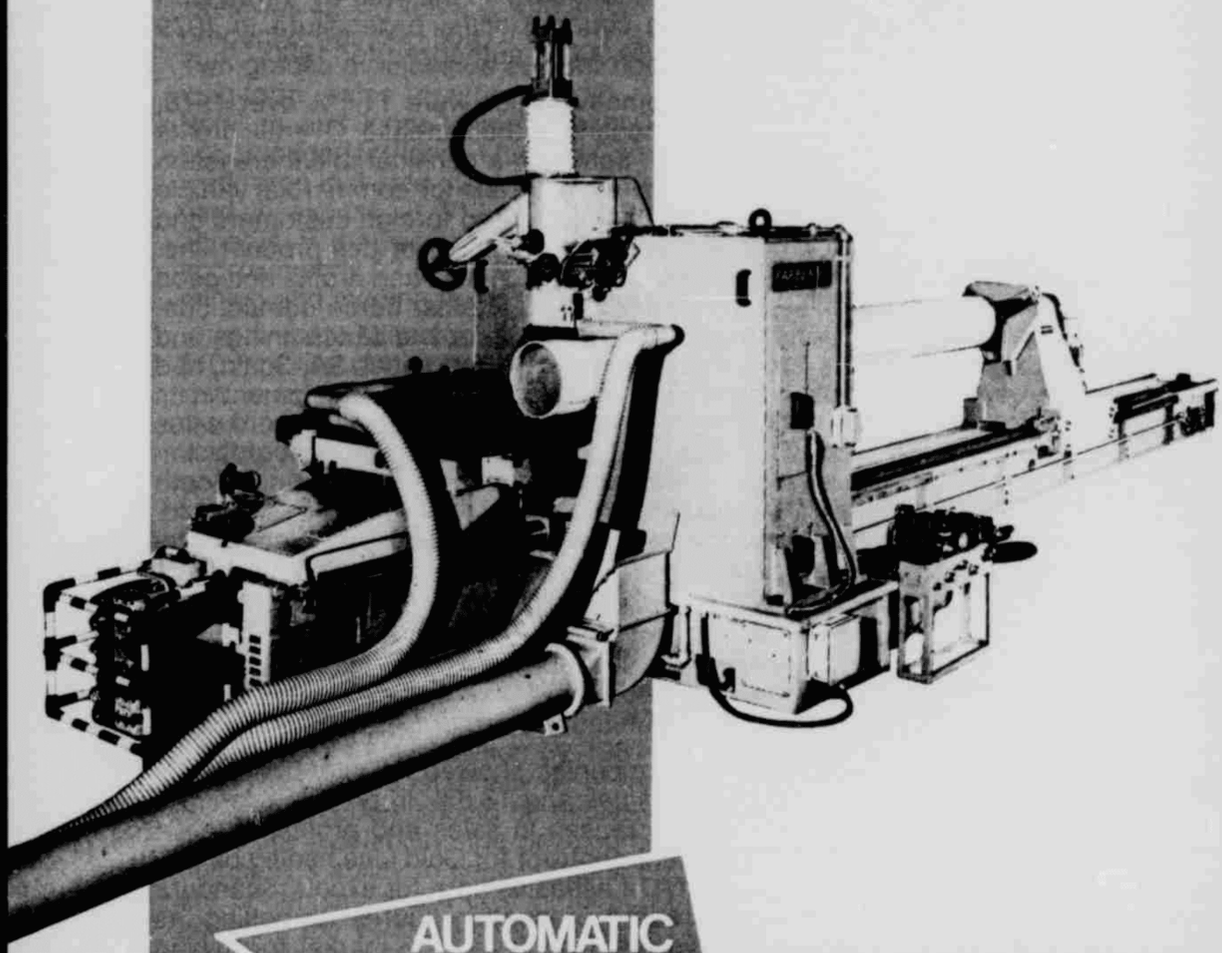
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BIRTHDAY GREETINGS to . . .

Norman Visnes, Vice President-Mining, Asarco Incorporated, New York City, *October 16.*
R. C. Castellani, Manager, Distribution Center, Atlas Turner Inc., Surrey, British Columbia, *October 18.*
Sir Neville "Jimmy" Stack, Director General, Asbestos International Association, London, England, *October 19.*
Monroe Harris, Senior Vice President, Mining Group, Johns-Manville Corporation, Denver, Colorado, *October 22.*
James H. Plummer, Chairman of the Board, Pars Manufacturing Company, Ambler, Pennsylvania, *October 22.*
James P. Power, Vice President and Operations Manager, Asbestos Fibre Division, Johns-Manville Canada Inc., Asbestos, Quebec, *October 25.*
John Ramsay Sim, Personnel Director and a Director, Cape Industries Ltd., London, England, *October 30.*
A. T. Reid, a Director, James Hardie Industries Ltd., Sydney, New South Wales, *October 31.*
Milton Q. Scowcroft, Asbestos Litigation Consultant, Raybestos Industrial Products Company, N. Charleston, S. Carolina, *November 3.*
Sam E. Brasher, President, Celotex Roofing Products Division, Jim Walter Corporation, Tampa, Florida, *November 5.*
William Maaskant, Sales Manager, Amatex Corporation, Norristown, Pennsylvania, *November 5.*
Dr. Robert J. Merrill, Managing Director, Chrysotile Corporation of Australia Pty. Ltd., Barraba, New South Wales, *November 6.*
Dr. Hilton C. Lewinsohn, Corporate Medical Director, Raybestos-Manhattan, Inc., Trumbull, Connecticut, *November 7.*
Richard Gaze, Ph.D., a Director, Technical, Cape industries Ltd., London, England, *November 9.*
John A. McKinney, Chairman of the Board and Chief Executive Officer, Johns-Manville Corporation, Denver, Colorado, *November 9.*
Richard O. Moebius, Textile Mill Superintendent, Industrial Division, Raybestos-Manhattan, Inc., Manheim, Pennsylvania, *November 10.*
Monte C. Carpenter, President and Chief Operating Officer, The Flintkote Company, Irving, Texas, *November 12.*
Wade W. Cloyd, Vice President, heading the Communications Division, Raybestos-Manhattan, Inc., Trumbull, Connecticut, *November 12.*
William A. Sells, Vice President, Production and Engineering, Johns-Manville Corporation, Denver, Colorado, *November 12.*
Victor Puskar, Senior Research Engineer, Asbestos Laboratory, Asarco Incorporated, South Plainfield, New Jersey, *November 13.*
Terrell L. Ruhlman, Chairman and Chief Executive Officer, The Ansul Company, Marinette, Wisconsin, *November 13.*
W. B. Callan, Vice President-Operations, Asbestos Corporation Ltd., Thetford Mines, Quebec, *November 14.*
K. H. Dixon, Corporate General Manager-Mining, Turner & Newall Ltd., Manchester, England, *November 14.*
Dr. Karl V. Lindell, Eng., Executive Vice President, Hazemag (Canada) Ltd., Pointe-Claire, Quebec, *November 14.*
George L. Romine, President, Friction Products Group, Abex Corporation, New York City, *November 14.*

Asbestos Magazine, 1980, September 1980
ACL Doc 12737 · Page 40 of 56
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ANNUAL REPORTS—1979

BBA GROUP LTD.

For the year ended December 31, 1979, BBA Group Ltd., Cleckheaton, West Yorkshire, England, reported a turnover of £137,316,000 compared with £120.5-million the previous year. Trading profit rose to £9,676,000 from £8.6-million and profit after taxation was £5,500,000 vs. £5.2-million. Exports, together with overseas companies' sales, raised the total sales to customers overseas to nearly £87-million, or 63.3% of Group turnover. Profits earned overseas rose 29.9%, with improvements showing in West Germany, France, the United States, Canada, the Republic of South Africa and Australia. Companies in the United Kingdom generally did not fare so well, their margins having been affected early in the year by a transport strike, rising costs and the strong pound. Capital expenditure in 1979 amounted to £7,411,000 and £10,489,000 is authorized for 1980.

Automotive—Consolidated automotive sales were 11.1% over 1978, with each operating company contributing to the increase. Overall, profits rose 3.2%. Mintex Ltd., in the U.K., achieved a considerable increase in sales, although profits were lower. New materials for commercial vehicle brake linings were well received by domestic and foreign customers and an additional plant was installed for the production of this product line. Textar GmbH, West Germany, again increased sales and profits and good progress was made in the replacement field against fierce competition. This company manufactures and distributes brake and clutch linings and associated automotive components. Frenos y Embragues SA, Spain, had higher overall sales in spite of a lower demand for original equipment in its home market. BBA's marketing company in France enjoyed record sales and profits. Both Mintex Canada Ltd. and Cantex Corporation, U.S., improved their positions, the latter trading profitably for the first time. South Africa was particularly affected by the fuel crisis, but Frima Holdings Ltd. nevertheless showed improved trading results. BBA's associated company in Australia, Bendix Mintex Pty. Ltd., had another excellent year, with notable advances in sales and profits. Railko Ltd., maker of reinforced plastics, bearings and components, had a successful year although it was affected by the general depression in the U.K. engineering industry. Large orders were obtained for railway applications in the Sudan and for British Rail's Hicap bulk freight rolling stock.

Industrial—BBA'S industrial companies showed an overall improvement, with increases of 22.5% in sales and 18.6% in profits. Scandura Ltd., U.K., achieved substantial increases in sales and profits. Positive developments included an important contract for Gold Line mining belting in China and a higher sales volume of asbestos yarn for export. Scandura Inc., U.S., passed its previous record production figures for belting, as sales and profits rose well above the 1978 level. The market for mining belting continued to be difficult. Scandura Canada Ltd., maintained its position, although sales of mining belting were reduced. At Regina-Fiberglass Ltd., in the U.K., progress was slow and the resultant deficiency in sales volume caused a trading loss. The overseas glass fiber companies in Australia and South Africa again achieved excellent trading results. Sovex Marshall Ltd., designer and manufacturer of mechanical

Asbestos Magazine, 1980, September 1980
ACL Doc 12737 · Page 42 of 56
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asbestosclaims.law/library/12737/42

handling systems and equipment, began the year with a poor order bank and later, when activity had revived, was affected by an engineering industry strike. Comprehensive Computer Services Ltd. had a satisfactory year, increasing income and extending its range of equipment. BBA Properties Ltd. continued to provide additional properties for operating companies.

ADVOCATE MINES LTD.

Advocate Mines Ltd. owns and operates an openpit asbestos mine and mill complex at Baie Verte, on the northeastern coast of Newfoundland. The mine has a projected life of about 14 years and the mill has a daily operating capacity of 6,500 metric tonnes. Total A-25 fiber production in 1979 was 48,127 tonnes, with a fiber recovery of 2.28%. The value of fiber produced was $30,958,071 in 1979 compared with $21,357,433 in 1978. Two grades of asbestos cement fiber are produced and sold pursuant to long-term sales contracts with Compagnie Financiere Eternit S.A., Belgium, and Johns-Manville Sales Corporation, United States. Operations are managed by Johns-Manville Canada Inc. At year-end 1979, Advocate's workforce included 527 hourly-paid and 81 salaried employees who were paid in excess of $12-million during the year in wages, salaries and benefits. In the past three years, the company has contributed on average approximately $2.6-million to the economy of Newfoundland in municipal, mining and income taxes and social security benefits.

Advocate Mines continued to be plagued by financial problems, losing $10.3-million ($1.72 per share) and ending 1979 in a deficit position. The loss is attributable to increased depreciation and amortization charges resulting from a re-evaluation of ore reserves, substantially lower than anticipated ore recoveries, high waste-to-ore ratios and rapidly escalating operating costs. The average percentage of fiber recovered from ore crushed in 1979 was 2.78%, compared with 3.67% in 1977 and 4.06% in 1976, the last two years in which the company operated profitably. Similarly, waste-to-ore ratios were 5.32:1 in 1979, 4.0:1 in 1977 and 4.3:1 in 1976.

Ore reserves have been recalculated and reduced 10.2-million metric tonnes to 28.9-million tonnes. Barring unforeseen operational problems, a new pricing structure and an injection of new financing should be sufficient to enable Advocate to continue to meet its obligations, return to a positive cash flow position by 1981 and permit the orderly development and mining of substantially all of its ore reserves. On this basis, the Advocate orebodies should be depleted by 1993. This outlook is contingent upon ore availability, the development of the West Pit orebody and the company's ability to control costs. Substantial operational improvements are continuing and a cost reduction program has been implemented. In addition, the waste removal program begun in 1978 to make more ore faces available for mining in the North and West Pits continues satisfactorily.

In its continuing effort to improve environmental conditions, Advocate's $2.2-million changehouse comprising shower, double-locker and improved lunch room and sanitary facilities and the new dry rock storage dust filtration system became operational in the first half of 1980.

Asbestos Magazine, 1980, September 1980
ACL Doc 12737 · Page 43 of 56
Published by AsbestosClaims.Law
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Environmental projects completed in 1979 included the $2.3-million air handling system in the crusher and dryer building and a drive-through car wash for employees.

WOODSREEF MINES LTD.

Woodsreef Mines Ltd., Barraba, New South Wales, Australia, has presented its 10th annual report for the period ending December 31, 1979. Because of the change in its year end, the report covers a 14-month period. The 1978/79 financial period showed an operating loss, including interest and depreciation, of $6,937,000, compared with a loss of $7.3-million a year earlier. During the latest year, the federal and state governments provided funds to cover operating losses, excluding depreciation, interest and royalties. However, due to a 4-month delay in installation of the tailings recovery circuit, it has been estimated that revenue in the vicinity of $900,000 was lost. The additional losses were funded by The Commercial Bank of Australia Ltd. Negotiations were initiated with the bank and preliminary agreement was reached in December 1979 whereby the bank agreed to accept, in full settlement of Woodsreef Mines' indebtedness, the same amount of money it would have realized if the mining/milling operation at Barraba was liquidated.

Chrysotile Corporation of Australia Pty. Ltd.—There was a substantial improvement in the markets for asbestos in 1979, especially evident in Asia. World prices for asbestos increased an average 14% at the beginning of 1980 and the average increase in revenue for a metric tonne of Chrysotile Corporation fiber was 17%. Fiber sales in the calendar year 1979 totaled 78,000 tonnes, compared with the previous highest year (1978) when sales reached 64,000 tonnes. The tailings recovery circuit, now operating entirely satisfactorily, quickly proved it could increase revenue the predicted 15%. The mining situation at Barraba continues to pose difficulties due to a backlog in waste rock removal of approximately 2-million tonnes. The strong demand for asbestos has continued into 1980 and there are indications that a world shortage is developing. Discounting of fiber prices has practically disappeared and there is a strong possibility of a further price increase in mid-1980. Operating costs rose an average 11%, principally for fuel oil, electricity and tires. Operating statistics in the latest 14-month period for the mining/milling complex are 14,330,912 tonnes of ore mined, 3,498,649 tonnes crushed, 2,326,343 tonnes milled and 83,770 tonnes of fiber produced. The average revenue per tonne of fiber produced was $313.00 vs. $290.00 a year earlier. Proven ore reserves, reviewed as of December 1, 1979, total 24,238,000 tonnes, sufficient to maintain a mine life until mid-1988.

Asbestos Mines Pty. Ltd.—The small asbestos mine at Baryulgil was closed in April 1979 due to continuing losses.

Wet Milling Process—The joint venture research work on the wet milling process continued in 1979 and results continue encouraging. A test program involving using the wet processed fiber to produce asbestos-cement sheets was successful and the company is now in a position where construction and operation of a wet process prototype mill, to produce 1½ tonnes of fiber per day, is justified. Woodsreef Mines was successful in obtaining grants from the Australian Industrial Research &

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Development Incentives Board covering approximately half of the cost of research and development and the Board has agreed to fund half the cost of constructing and operating the prototype. Under an agreement dated February 1, 1979, Woodsreef Minerals Ltd., Canada, is funding all costs associated with the wet process. In exchange, the parent company can earn up to a 45% interest in overseas rights to the wet process. Woodsreef Mines retains exclusive rights for use of the process in Australia.

ASBESTOS STOCK QUOTATIONS

CLOSE: AUGUST 19, 1980

Abitibi Asbestos	C$.95
Advocate Mines	C$1.75
Armstrong World Ind.	17⅝
Armstrong (pfd 3.75)	35
Asarco	36¾
Asbestos Corporation	C$30.00
Bendix	48⅝
Bendix (pfd)	44⅞
Carlisle	38⅜
Cassiar Asbestos	C$14.125
CertainTeed	15⅞
Charter Conso.	pence 230
Colt Industries	45¾
Colt Ind. (pfd 1.60)	36½
Colt Ind. (pfd 4.25)	100
Conwest A	C$5.50
Conwest B	C$4.95
GAF Corporation	11¼
GAF (pfd 1.20)	14⅞
Genstar	31⅝
Genstar (pfd 1.68)	28⅜
Gulf & Western	18⅞
G&W (pfd 2.50)	48
G&W (pfd 3.87)	113
G&W (pfd 5.75)	63
IC Industries	32
IC Ind. (pfd 3.50)	47¾
Johns-Manville	24⅞
J-M (pfd 5.40)	50
Kennecott Copper	27⅛
Lear Siegler	26⅝
Lear Siegler (pfd 2.25)	68
McAdam Mining	C$.74
National Gypsum	24
Pathfinder	C$.57
Porter, H. K. (pfd 5.50)	70⅛
Raybestos-Manhattan	21¾
Rio Algom	C$33.00
Rio Algom (pfd 5.80)	C$60.25
Rio Algom (pfd 8.5%)	C$4.45
Supradur	Bid 4¼; Asked 4¾
Union Carbide	47
United Asbestos	C$6.00
Walter, Jim	34
Walter, Jim (pfd 1)	10¾
Walter, Jim (pfd 1.60)	36
Woodsreef Minerals	C$.52

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VALUABLE MINING LITERATURE

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HOMOGENISATION/BLENDING SYSTEMS DESIGN AND CONTROL FOR MINERALS PROCESSING (WITH FORTRAN PROGRAMS)—Provides an introductory text for the unified treatment of raw material blending and homogenization systems for minerals processing, bringing together into one volume the techniques and principles involved in their design; topics include optimal stockpile prehomogenizer design and control in the face of random materials quality variation, accurate mineral deposit characterization through the use of geostatistical techniques, the application and design of selective quarrying procedures, sampled data systems, optimization theory and the accurate determination of processing unit dynamic models and high-speed, digital minicomputers. [Trans Tech Publications; 332 pages; $62.50 per hard cover or $42.50 per soft cover]

FINANCIAL TIMES MINING INTERNATIONAL YEAR BOOK 1980—Lists over 700 companies, in over 80 countries, involved in the mining of metals, minerals and ores; entries carry names, titles and job functions of directors, executives and chief personnel, head office addresses, telephone numbers and operating locations; also included is information on intercompany interests, operating results, ore reserves, financial structure and shareholdings, latest company dividends and accounts, a ten-year record of dividends, and high and low stock quotations for the last three years. [Longman Group Ltd.; 750 pages; $56.00 per copy by surface mail; $79.00 via airmail]

MINE DRAINAGE—Proceedings of the First International Mine Drainage Symposium held May 1979 at Denver, Colorado; over half of the 38 papers are dedicated to practical dewatering applictions, with numerous excellent case examples of solutions to openpit and underground mine water problems; also covered are methods for investigating and evaluating surface and subsurface drainage and seepage and contamination problems associated with tailings dams. [World Mining; 848 pages; $55.00]

CANADIAN MINES HANDBOOK 1980/1981—In addition to a Toronto Stock Exchange index, this book lists trade/mining/professional associations, Canadian mining companies and their dividends, charters cancelled or revived, federal and provincial mines departments, gold and silver and mining stock prices, securities commissions, smelting plants and refineries, Stock Exchange Commission rates and transfer agents; it also contains a conversion table, a producing mines summary and maps of mining areas and gives statistical data on Canadian mineral production and exports. [Northern Miner Press Ltd.; 372 pages; $17.00 paper bound or $20.00 per leatherette copy]

ROSKILL'S SOURCEBOOK FOR METALS AND MINERALS DATA—A unique reference book, now in its third edition; contains listings of 50 international sources, 244 sources for individual metals and minerals and 180 national sources of metals and minerals data, including asbestos; contains a guide to the pitfalls in using metals and minerals statistics. [Roskill Information Services Ltd.; 139 pages; $15.00]

Asbestos Magazine, 1980, September 1980
ACL Doc 12737 · Page 46 of 56
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PAPERS AND ARTICLES

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CHARACTERISTICS OF A POTASSIAN WINCHITE-ASBESTOS FROM THE ALLAMOORE TALC DISTRICT, TEXAS—By Ann G. Wylie, University of Maryland, and Charles W. Huggins, U.S. Bureau of Mines; appeared in "Canadian Mineralogist." [7 pages]

THERMAL TRANSFORMATION OF CHRYSOTILE STUDIED BY HIGH RESOLUTION ELECTRON MICROSCOPY—By Helena de Souza Santos, University of Sao Paulo, and Keiji Yada, Tohoku University; appeared in "Clays and Clay Minerals." [15 pages]

EMPLOYER PROTECTION AGAINST THE HAZARDS OF AN OSHA INSPECTION—By Robert D. Moran, Attorney at Law, Washington, D.C.; formerly Chairman of OSHA's Occupational Safety and Health Review Commission. [14 pages]

SETTLING THE DUST—Discusses a new concept in settlers which will reduce the size of underground excavations and dramatically reduce the capital outlay; appeared in "Prospect" and reprinted in "Mining and Engineering." [2 pages]

DIAMOND AND ITS ROLE IN DIAMOND DRILLING—By R. Welch, Boart Research Centre in South Africa; paper featured in the Proceedings of the South African Drilling Association Symposium held in 1979. [4 pages]

GRINDING MILL CONTROL SYSTEMS USE ACOUSTIC FEEDBACK—First appeared in "ELB," a publication of E. L. Bateman (Pvt) Ltd.; reprinted in the "Chamber of Mines Journal." [2 pages]

LASERS IN MINING—By R. W. Whitehead, Shangani Mining Corporation Ltd. and the Association of Mine Managers of Zimbabwe Rhodesia; appeared in the "Chamber of Mines Journal." [1 page]

ASBESTOS/A BALANCED PERSPECTIVE—By Robert G. Edwards, Ph.D., Director of Laboratory Services, Martel Laboratories, Inc.; a brief discussion on asbestos, its uses and health aspects. [4 pages]

TEMPERATURE AND MOISTURE ANALYSIS IN COMPOSITES—A computer program to study environmental effects; appeared in "NASA Tech Briefs." [2 pages]

FLAME RESISTANT TEXTILES—A continuous process treats fabric by the surface photoaddition of fluorocarbons; describes work done by Science Applications, Inc., for the Lyndon B. Johnson Space Center; appeared in "NASA Tech Briefs." [1 page]

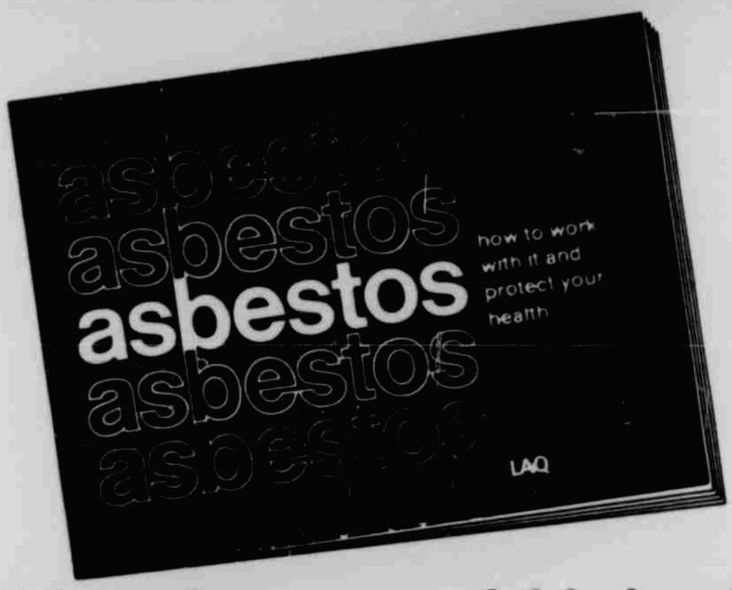
HIGH TEMPERATURE INSULATION—A lightweight insulating material works over a very broad temperature range; study done by Rockwell International Corporation for the Marshall Space Flight Center; appeared in "NASA Tech Briefs." [1 page]

FIBER CEMENT PLANT IN IRAN—By Prof. Dr.-Ing. Heinz Posch; discusses planning, installation and start-up. [Contact the author for further information, at: Koenigsallee 14 H, D 1000 Berlin 33, Germany]

METHODS AND APPLIANCES FOR MAKING THIN-WALLED STRUCTURAL ELEMENTS OF FIBROUS MATERIAL, IN PARTICULAR WITH ASBESTOS—By Prof. Dr.-Ing. Heinz Posch; gives a short survey of fiber-reinforced cement building materials, i.e., glass fiber concrete, steel reinforced fiber concrete, asbestos fiber cement and wood fibre cement. [Contact the author, address as above]

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The booklet points out eight measures which employers should take to protect the health of employees who work with products containing asbestos. It also details 10 steps that employees should take to protect their own health.

As a major producer of asbestos fibers, LAQ has many years experience in working with this versatile mineral. Based on our experience, we prepared this booklet to provide information to manufacturers who use asbestos in their products. While each situation deserves individual attention, the guidelines in this booklet are helpful in providing a working environment that meets government regulations and protects the health of employees. Write for your copy. Lac d'Amiante du Québec Ltée, P.O. Box 608, Black Lake, Quebec, Canada G0N 1A0.

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CALENDAR OF EVENTS

OPTICAL SOCIETY OF AMERICA—1980 annual meeting; Chicago, Illinois, *October 13-17.*

NONWOVENS—5th international exposition and conference sponsored by the Association of the Nonwoven Fabrics Industry; Rosemont, suburban Chicago, Illinois, *October 14-16.*

OCCUPATIONAL RESPIRATORY PROTECTION—NIOSH Course #593 sponsored by Midwest Center for Occupational Health and Safety; Kansas City, Missouri, *October 14-17.*

DIGITAL COMPUTER APPLICATIONS TO PROCESS CONTROL—6th international conference of the International Federation of Automatic Control (IFAC) and the International Federation for Information Processing (IFIP); Dusseldorf, West Germany, *October 14-17.*

ENVIRONMENTAL LAWS AND REGULATIONS—Announced by Government Institutes; introductory course at Dallas, Texas, *October 16-17;* masters' seminar at Washington, D.C., *November 17-18.*

MINERAL WASTE UTILIZATION—7th symposium hosted by IIT Research Institute in conjunction with the U.S. Bureau of Mines; Chicago, Illinois, *October 20-21.*

OCCUPATIONAL EXPOSURE TO NOISE AND VIBRATION—an industry-oriented seminar on effects, measurement and control, announced by the National Research Council of Canada; Montreal, Quebec, *October 20-21.*

68TH NATIONAL SAFETY CONGRESS—To be held by the National Safety Council; Chicago, Illinois, *October 20-23.*

INSTRUMENT SOCIETY OF AMERICA—35th annual conference and exhibit; Houston, Texas, *October 20-23.*

AMERICAN TEXTILE MACHINERY—1980 international exhibition sponsored by the American Textile Machinery Association and Textile Hall Corporation; Greenville, South Carolina, *October 20-24.*

SOCIETY OF MINING ENGINEERS OF AIME—1980 fall meeting and exhibit; Minneapolis, Minnesota, *October 22-24.*

HAZARDOUS WASTE ENGINEERING—Seminar provided by Vanderbilt University; *October 22-24* at Toronto, Ontario; *November 3-5* at Phoenix, Arizona.

CONTROL PROBLEMS AND DEVICES IN MANUFACTURING TECHNOLOGY—3rd IFAC/IFIP symposium; Budapest, Hungary, *October 22-25.*

SYSTEMS ENGINEERING APPLICATIONS TO INDUSTRIAL ENERGY GENERATION AND PROCESSES—IFAC workshop announced by Instrument Society of America; Houston, Texas, *October 23-24.*

SAMPLING AND EVALUATING AIRBORNE ASBESTOS DUST—A NIOSH course conducted by the University of Southern California; Los Angeles, California, *October 28-31.*

EUROPEAN WASTE-TO-ENERGY TECHNOLOGY—Conference sponsored by the U.S. Department of Energy and the U.S. Environmental Protection Agency; Reston, Virginia, *October 29-31.*

WATER POLLUTION CONTROL LAWS AND REGULATIONS—Seminar offered by Government Institutes; Washington, D.C., *October 30-31.*

HYDRAULIC TRANSPORT OF SOLIDS IN PIPES—7th international conference announced by BHRA Fluid Engineering (British Hydromechanics Research Association); Sendai, Japan, *November 4-6.*

SAMPLING AND EVALUATING AIRBORNE ASBESTOS DUST—NIOSH Course #582, sponsored by the Midwest Center for Occupational Health and Safety; Minneapolis, Minnesota, *November 10-13.*

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DEADLINE—October 20, 1980

Asbestos Magazine, 1980, September 1980
ACL Doc 12737 · Page 51 of 56
Published by AsbestosClaims.Law
asbestosclaims.law/library/12737/51

Remember When?

(August 1930 ASBESTOS)

New Advertiser: Johnson's Company, Thetford Mines, Quebec.

This issue reported the death, June 24, 1930, of Frederick Stirling Newall. Mr. Newall was Chairman of the Washington Chemical Company and had been chairman of Turner & Newall Ltd.

Emsco Asbestos Company announced its purchase of Automatic Piston Pin Company, Los Angeles, California. Starting with its original line of asbestos brake linings and clutch facings, Emsco had, through various acquisitions, become a major supplier of automotive replacement parts.

The name of the Beton & Mollith asbestos-cement products plant at Moll, Belgium, was changed to Johns-Manville, S.A. The plant was established in 1923 and became J-M's first European production unit when it was acquired in 1928.

The asbestos raw material section of Hobdell, Way & Co. Ltd. was taken over by Raw Asbestos Distributors Ltd. and the insulation and other businesses of Hobdell were absorbed into the Turner & Newall organization.

J. M. Weaver, formerly connected with the Keasbey & Mattison Company, joined Raybestos-Manhattan, Inc., to assist in that company's expansion of its asbestos textile product lines.

The Kubar Manufacturing Company, Davidson, North Carolina, announced its name was being changed to Carolina Asbestos Company. J. A. Tennant, formerly Eastern Representative for Southern Asbestos Company, was appointed Sales manager of the newly-named firm.

(September 1930 ASBESTOS)

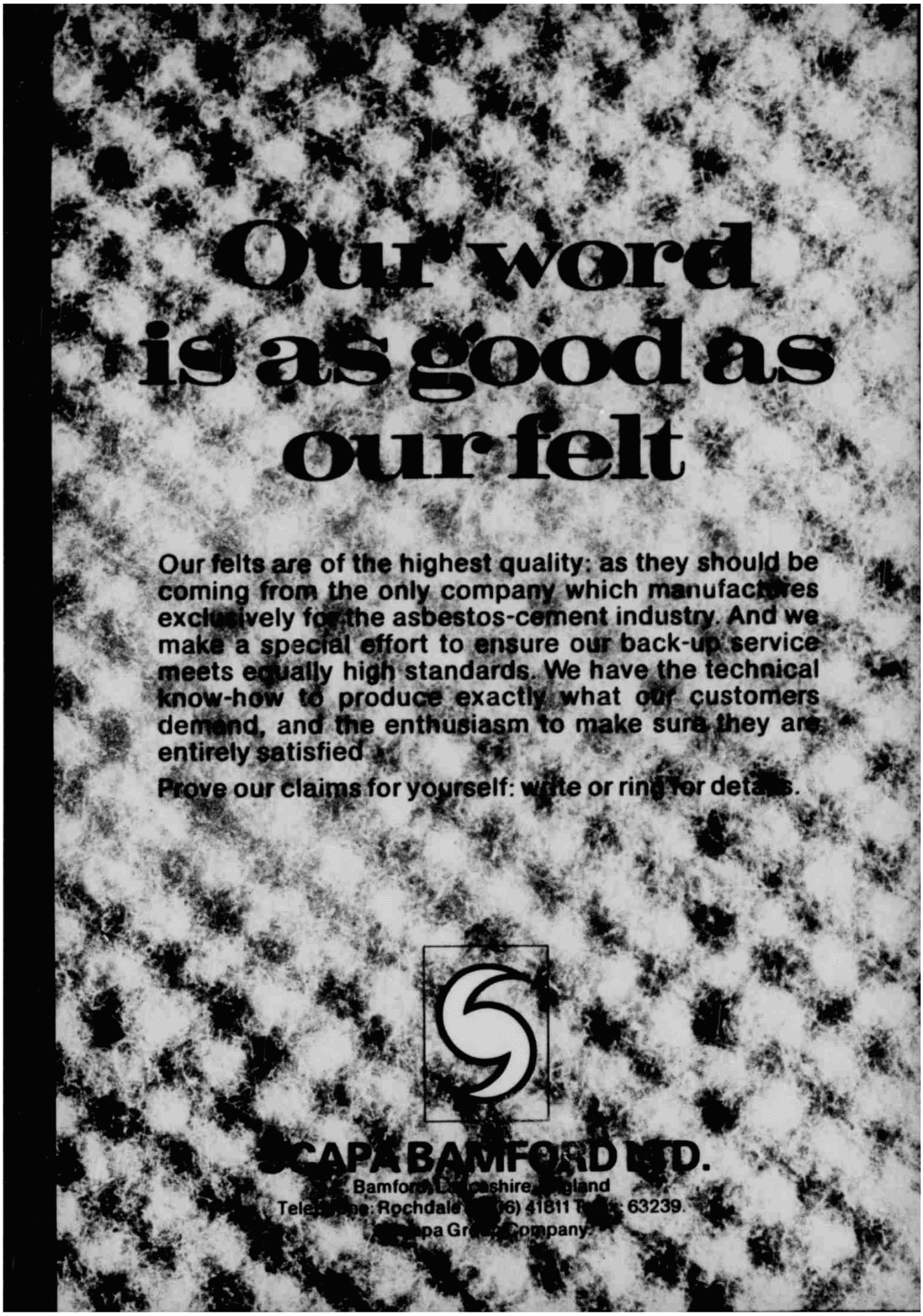
This issue reported the first regular use of a fireproof mail bag in the airmail service between New York and Chicago. The bag was made of a layer of pure asbestos cloth protected inside and out by layers of heavy canvas, the three layers being quilted by steel rivets.

The death of Frederick L. Pilliod, a Director of Johns-Manville Corporation, was noted. Mr. Pilliod had been associated with Keasbey & Mattison Company and, upon joining J-M, was placed in charge of purchasing and installing the machinery with which J-M entered the asbestos textile and packing businesses.

Also reported was the death of Patrick J. Smith, a founding member of Smith & Kanzler, Elizabeth, New Jersey, a well known manufacturer of asbestos paper, aircell insulation and asbestos-cement products.

Herbert Abraham announced that the Ruberoid Company, of which he was President, had acquired a controlling interest in Eternit, Inc., of St. Louis, Missouri, a maker of asbestos-cement shingles, lumber and corrugated sheets.

Asbestos Magazine, 1980, September 1980
ACL Doc 12737 · Page 52 of 56
Published by AsbestosClaims.Law
asbestosclaims.law/library/12737/52


Our word is as good as our felt
Our felts are of the highest quality: as they should be coming from the only company which manufactures exclusively for the asbestos-cement industry. And we make a special effort to ensure our back-up service meets equally high standards. We have the technical know-how to produce exactly what our customers demand, and the enthusiasm to make sure they are entirely satisfied.
Prove our claims for yourself: write or ring for details.
CAPA BAMFORD LTD.
Bamford, Lancashire, England
Telephone: Rochdale (0706) 41811 Telex: 63239.
A Capa Group Company

We're helping industry use asbestos wisely with ads like this one.

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

The advertising program is designed to let industry management know that in an extensive range of finished products, such as asbestos/cement sheets and pipe, gasketing materials, asphalt-based coatings, latex and resin-bound papers, and friction materials, the asbestos is "locked in" by various binders to form environmentally safe materials. This ad lets them know that by following certain practices, asbestos can be handled and processed safely.

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

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Asbestos is not a problem when handled properly.

You can do something about it.

In thousands of finished products, asbestos serves an essential function that has not been duplicated on a cost performance basis. Like other naturally-occurring minerals, asbestos can be a potential health hazard when inhaled. However, with technological advances and established work practices, along with industry and Federal regulations, it can be safely processed, transported, and handled. In addition, there are virtually no hazards associated with the proper end use of products in which the asbestos fibers have been encapsulated or "locked-in" by environmentally safe binders. For this reason, we advocate the elimination of its use in friable products in which it cannot be safely bound. As the world's leading asbestos supplier, we are vitally concerned with its safe handling and application.

For more information, please write to Denis Kelleher, Asbestos Fiber Division, Johns-Manville, Ken-Caryl Ranch, Denver, Colorado 80217.



Use of personal protective equipment provides increased safety for a variety of work situations.



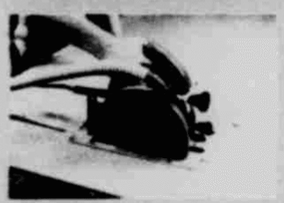
Floors and all work surfaces should be kept free of fiber accumulations by using industrial vacuum cleaners equipped with proper exhaust filters. Asbestos should be vacuumed, never swept.



Fiber handling technology has evolved a diverse range of special packaging to assure safer handling and shipping.



Totally enclosed, negative pressure automatic bag openers facilitate in-plant dust control.



Fabrication tools require proper hooding and should be connected to a source of exhaust air that includes a fabric bag filter. When practical, wet cutting should be employed.

JM Johns-Manville

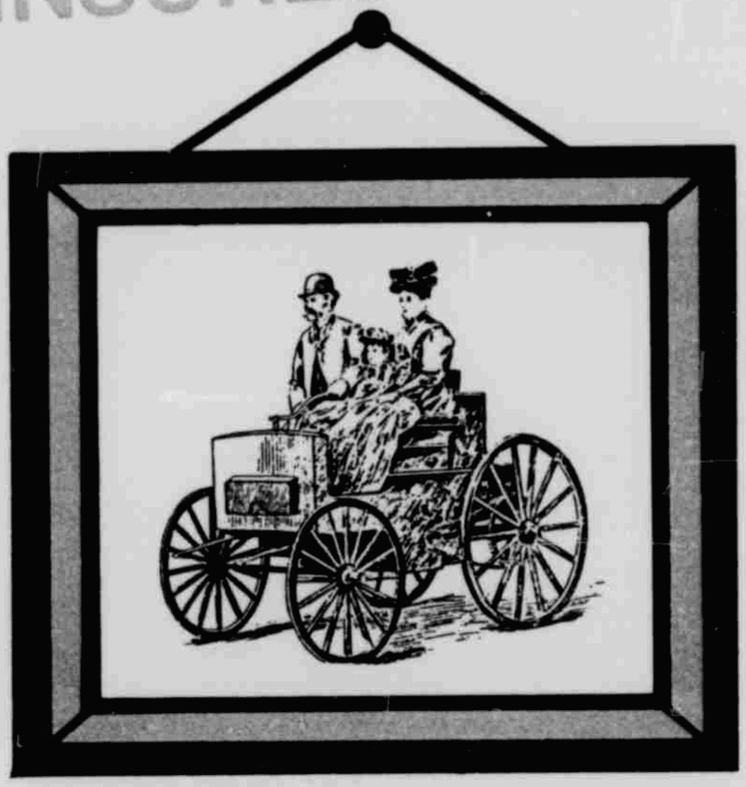
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