

**GRACE**

Construction Products Division

TO: F. E. Larkin - Grace/New York

DATE: October 10, 1985

FROM: R. C. Walsh

cc: R. W. Samuels - Grace/New York
R. M. Vining

As you requested, I have prepared three Zonolite fact sheets for you.

The first sheet shows the history of the Zonolite acquisition. While the Zonolite Company was purchased in 1963, there were subsequent acquisitions of companies in which Zonolite had either a minority or a majority ownership at the time of our 1963 purchase. Those acquisitions were completed in 1975. The first fact sheet also lists those product lines in which Zonolite (or Grace after the acquisition) used commercial asbestos as an ingredient.

The second sheet lists the product lines which we presently sell and which contain vermiculite as an ingredient. The list is organized by end-use industry.

The third sheet gives the history relating to the new wet mill at Libby, Montana. The data provides information concerning pre-construction technology development as well as some of the more-notable subsequent steps taken to further improve operations at Libby in terms of dust control.

Should you require any more information prior to the meeting of October 16, please let me know.

RCW/acd
Att.
R. C. Walsh

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ZONOLITE FACT SHEET

Zonolite Acquisition

Zonolite Company (incl. partially-owned affiliates)	1963
California Zonolite - remaining 53.2%	1966
Vermiculite Northwest - remaining 72.5%	1966
Western Mineral Products - remaining 67.1%	1966
Ari-Zonolite - increased to 67.0%	1966
Tennessee Zonolite - remaining 74.0%	1967
Ari-Zonolite - remaining 33%	1974
Texas Vermiculite - remaining 24%	1975

Zonolite Products Containing Asbestos As An Added Ingredient ^(a)

	<u>Date Begun</u>	<u>Date Discontinued</u>
Monokote 3 Fireproofing (and predecessors)	1959	1973
Acoustical Plaster	1945	1973
Zonolite Plaster ^(b)	1930	1940's

(a) Most of these products would contain vermiculite as well as asbestos.

(b) Not sure whether this product line included asbestos in its formulation.

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10/9/85

ZONOLITE FACT SHEET

VERMICULITE-CONTAINING PRODUCTS CURRENTLY SOLD

<u>Construction Industry</u>	<u>Date Begun</u>
Monokotes 4, 5, and other fireproofing	1973
Concrete Aggregate	1942
Masonry Insulation	1958
Miscellaneous Products (e.g. Dealer Concrete)	Various
 <u>Professional & Consumer Horticultural</u>	
Soil mixes	1956
Horticultural Vermiculite	1947
Swimming Pool Base	early 1970's
 <u>Other Industrial</u>	
Fire Resistive Core	1975
Packaging & Waste Disposal	1975
Metallurgical Insulation	1942
Chimney Insulation	1985
Brake Linings	1978
 <u>Ore Concentrate</u>	
Gypsum Companies	1940's
Licensees	1930's
Independent Expanders	Various

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ZONOLITE FACT SHEET

CHRONOLOGICAL HISTORY OF NEW LIBBY WET MILL

- 1963 - Discussions and basic research begun of new mill
- 1967 technology to replace "dry" mill.
- 1967 Grace began intense research on hydrofluoro salicic acid technology, the wet mill system used today.
- 1969 Engineering work commenced on construction of new wet mill.
- 1972 Wet mill construction began.
- 1974 New mill operational.

Subsequent Important Wet Mill Improvements

- 1975 Scrub circuits
- 1977 Incorporated roll screen technology
- 1979 Rock rejection circuit
- 1980 Aero promoter reagents
- 1983 Slot screening
- 1984 Binder system

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