

CONTAINER

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Comparison of Asbestos in Kaylo and
Competitive Calcium Silicates
File 83.1

The amounts, fiber length, degree of fiberization, and types of the asbestos contained in O-L, Pabco, Ruberoid, and Johns-Manville calcium silicate insulations have been determined.

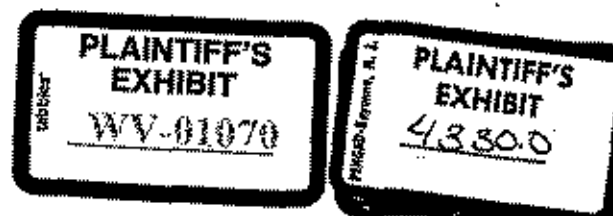
Asbestos Contents. Following are the amounts of asbestos computed to be present in the various materials by means of a combination of chemical and x-ray analyses:

<u>Insulation</u>	<u>% Asbestos</u>
Kaylo	19.8
Pabco	23.5
Ruberoid	23.1
Johns-Manville	18.7

Fiber Length. Pabco uses the longest fiber, it not being uncommon to find bundles as long as 2 inches. Johns-Manville material contains many fibers as long as 1 inch to $1\frac{1}{2}$ inches. In addition, the J.M. product contains the smallest percentage of extremely short fibers. The fibers in the Ruberoid product are shorter than those in Pabco or J.M., but are definitely longer than those found in Kaylo.

Fiberization. The J.M. material is in a class by itself in regard to the degree of fiberization of the asbestos. No thick bundles or sticks are to be found. This degree of fiberization and the process employed results in a felt-like integration of the fibers. Pabco asbestos is by far the least spiculated. Kaylo and Ruberoid are intermediate.

Type of Asbestos. All products except Kaylo contain amosite asbestos in addition to chrysotile. Following are the relative percentages of the two types:



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<u>Product</u>	<u>% Asbestos</u>	<u>% Chrysotile</u>
Kaylo	0	100
Pabco	50	50
Ruberoid	37	63
Johns-Manville	75	25

The chrysotile fraction in all cases except Kaylo is of a grade finer than #4.

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