cc - Dr. C. F. Shook
Mr. U. E. Bowes

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OWENS-ILLINOIS GLASS COMPANY

GENERAL OFFICES · TOLEDO 1, OHIO

September 21, 1948

Dr. A. J. Vorwald
The Saranac Laboratory
Saranac Lake, New York

Dear Dr. Vorwald:

When Dr. Shook was at Saranac recently he talked with certain persons who were conducting the animal experiments on Kaylo dust. Some questions came up as to the composition of Kaylo—and we are listing them below with answers:

1. Is the dust now being used of the same composition as the material that was originally supplied?

   There was, to the best of our knowledge, no significant difference in the compositions of the lots of Kaylo dust supplied, with this possible exception: the asbestos portion of the more recent dust may have contained a greater ratio of amosite to chrysotile.

2. Does Kaylo contain tri- or di-calcium silicate?

   Apparently a comparison of the effect of portland cement and of kaylo dust gave rise to the inquiry if Kaylo contains tri- or di-calcium silicate. The answer is no. Kaylo contains a hydrated mono-calcium silicate. This compound tends to hydrolyze in water to give a maximum pH of about 10.5. The anhydrous tri- and di-calcium silicates, which are constituents of cement, give rise to pH values of 12.3 and of 11.5 respectively.

3. Is Santocel, on which the Trudeau Laboratory is now conducting similar tests, about the same in composition as Kaylo?

   Santocel is essentially 100% amorphous silica Kaylo, on the other hand, contains no free silica except for only occasional grains of residual or unreacted quartz. These grains

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are, for the most part, relatively coarse. Kaylo may be considered as being 80 to 85 percent of hydrated mono-calcium silicate of submicroscopic crystal size, and of 15 to 20 percent of asbestos of the amosite and chrysotile varieties.

If there are any further questions on the above, we hope you will drop us a line.

With kindest regards,

Sincerely yours,

W. C. Hazard

INDUSTRIAL RELATIONS DIVISION

W.C.Hazard:M

cc - Dr. C. F. Shook - Toledo
Mr. U. E. Bowes - Toledo

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