

STATE OF CONNECTICUT
DEPARTMENT OF HEALTH SERVICES
LABORATORY DIVISION

P.O. Box 1689, Hartford, Conn. 06101

REPORT OF LABORATORY EXAMINATION

Reported July 29, 1983

Specimen No. 15599 Collector's No. _____ Town of Manchester

Sample pulled from: material made for test run sample of Air Krete Insulation

DEP, State Office Building

Air Krete, Inc., P.O. Box 380, Weedsport, NY 13166

Collected by S. Nichols (J. Royce)

7/21/83

hr.

M. Rec'd

hr.

Reason for Examination: Microscopic exam of blocks & powder: ash mat., % carbon, heat sample to

The examination gives the following results: 150°F & anal. for organics; any color changes

LAB RESULTS:

Microscopic - 2-10 micrometer particles, in 100 um aggregates, looking like outlines of foam bubbles. Not crystalline; dissolves rapidly in acid with gas evolution-high carbonate content.

Heating: Sample heated at 150°F for 2 hours - no color change occurred, no formaldehyde was detected. No organic vapors detected.

Metals: Atomic Spectroscopy for selected metals gave the following results:
Mg - 22.1%; Al - 1.03%; Fe - 0.006%; Mn - 0.006%; Zn - 0.001%; Cu - 0.003%.
Ca - 0.33%

Ash: Sample muffled 25 hours @ 700°F. Results: Shape retained, color change from pink to white. Average of (3) samples produced ash of 98%.
(See Below)

<u>P=</u>	<u>PWt</u>	<u>SWting</u>	<u>Gross Wt</u>	<u>Ashed Wt</u>	<u>% Ash</u>
45	31.92	0.99	32.91	32.56	98
29	31.58	1.47	33.05	32.42	98
4	32.61	0.96	33.57	33.2	98

JWB
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566-4818

8/2/83