

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

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

for DEP, State Office Building

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

Collected by S. Nichols (J. Royce)

Collected on 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 evaluation-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

J.W. BLISS
Env. Chem.
566-4818

8/2/83

Robert E. Moro
St. Compliance Officer, NERO