



Programme de recherche
sur l'amiante

UNIVERSITÉ
DE SHERBROOKE

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ATTACHMENT 1

August 2, 1983

Dr. Richard L. Lehman
The State University of New Jersey
RUTGERS,
College of Engineering, Dept. of ceramics,
Brett and Bowser roads, Busch campus,
P.O. Box 909, Piscataway,
New Jersey 08854,
U.S.A.

Dear Dr. Lehman,

I am pleased to send you the results of analysis requested
for the sample (DP-131 50/50 23 DP-131116 MESH).

We have run TG/DTG, FTIR of solid, evolved gas analysis
between 25°C to 400°C.

As you can see from the TG/DTG results the sample lost
weight in two steps (fig. 1&2). The first one between 25°C to 173°C
and the second one between 173°C to 400°C with total weight losses
of ~53%.

FTIR spectra of solid (sample as received) using KBr
pellet method shows the presence of glycerin (fig. 3).

The gas and condensed liquid evolved from the sample
heating between 25°C to 400°C have been collected separately in a
gas cell and on a p.v.c. membrane.

The gas part FTIR spectra shows the following vibration
bands: (FIG. 4)

O-H 2700-3000 CM-1 (W)
CO2 3700, 2400, 700 CM-1 (VS)
CO 2150 CM-1 (W)
C=O 1730 CM-1 (S)
H2O 3500, 2800, 1300 CM-1 (S)
C-O 920 CM-1 (W)

We can also see several bands with weak intensities

5050-7500