PLAINTIFF'S
EXHIBIT
GF-1660

FORM 2510-6-68 PRINTED IN U.S.A.
INTEROFFICE CORRESPONDENCE
GAF Corporation

DATE January 15, 1971

TO W. C. Schwingen
LOCATION So. Bound Brook

cc Messrs.
Canfield
Davis

FROM M. Homiak
LOCATION So. Bound Brook

SUBJECT: CALSILITE - EVALUATION OF PHYSICAL PROPERTY AFTER EXPOSURE AT 600°F

Samples of regular Calsilite and experimental Calsilite made with bleached sulfate pulp were applied to a 12 inch pipe in the power house at the Gloucester plant on August 27, 1970. On December 22, 1970 one section of regular Calsilite along with one section of experimental Calsilite was removed and returned to Research to determine the modulus of rupture on the two samples after an exposure of 4 months on a pipe having a surface temperature of 600°F. Sections of the pipe approximately 2 inches in width were cut attempting to obtain a rectangular cross section. At least 2 samples were cut from each section. One of these samples was tested with the side exposed to the surface of the pipe facing up thereby putting the exposed surface in compression. The second sample was tested with the exposed side facing down thereby putting that surface in tension during the test. The results are summarized below:

Material	Method of Test	Modulus of Rupture psi
Regular Calsilite	Exposed surface facing up	66
Regular Calsilite	Exposed surface facing down	42
Experimental Calsilite	Exposed surface facing up	67
Experimental Calsilite	Exposed surface facing down	9

The modulus of rupture of both the regular and experimental Calsilite are very similar when tested with the exposed surface in compression. The reduction in modulus of rupture for the experimental Calsilite is significantly greater when the samples are tested with the exposed surface in tension.

M. Homiak

M. HOMIAK

MICH00986

MH:paz

E. Scruggs checked the material manually on 5/7/71 + reported it looked good.
WS

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