

MVL R + D 1990

PLAINTIFF'S
EXHIBIT
K-1625

ACC 14 1964

J. C. ...

August 13, 1964

Mr. Warren E. Hupin
Process Metallurgy Division
Alcoa Research Laboratories
Aluminum Company of America
P. O. Box 772, New Kensington, Pa.

Dear Mr. Hupin:

I am sorry we cannot supply you with the high conductivity test samples you requested. When we test our insulating fire brick the samples are destroyed after the test by cutting through in order to determine the precise thermocouple locations.

We are separately sending you two sets of low conductivity samples. There are two specimens marked 6191 which measure 12 x 12 x 1 in. and were found to have the following characteristics when tested at a density of 21.7 pcf:

<u>Mean Temperature - deg F</u>	<u>Btu/hr/sq ft (°F/in.)</u>
400	0.65
600	0.70
800	0.74
1000	0.78

The other sample marked 6115 consists of eight specimens 13-1/2 x 9 x 1/4 in. which were tested at a density of 10.0 pcf:

<u>Mean Temperature - deg F</u>	<u>Btu/hr/sq ft (°F/in.)</u>
600	0.53
800	0.59
1000	0.66
1200	0.73
1400	0.81
1600	0.90
1800	1.00
2000	1.11
2100	1.17



Mr. W. E. Hampin

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We obtained these results through compression of the sample to insure no void space and by placement of thermocouples at each interface in order to obtain the elevated mean temperatures.

We would be very interested in learning how your results by the hot wire method compare with our results.

Very truly yours,

R. H. Neisel

eh

bcc: C. P. Weber, IH
F. L. Pundsack
J. S. Parkinson

Note to fileholders: Sample 6191 is Superex of Report No. 432-T-653,
and Sample 6115 is Type II Microquartz (Dynaquartz).