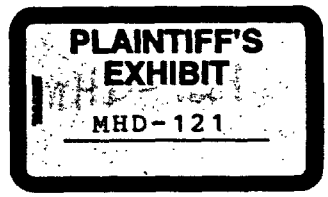
LABORATORY COMMITTEE MEETING

February 7, 1963



Messrs: R. W. Higgins
T. S. Clousing
J. W. Hosbein
H. B. Speelman
E. R. Marden
R. L. Hosbein
J. A. Buettgen

Gentlemen:

The meeting was called to order at 10:30 a. m. on February 7, 1963 in the Aurora Laboratory conference room. The next meeting will be held at the same place March 7, 1963.

ACTION TAKEN ON REGULAR AGENDA:

1. E13-B TEMPERATURE GRADIENT COMPARATOR

Mr. Higgins will contact Mr. Geo. Cobaugh, of Harbison-Walker regarding gradients obtained on their material by conventional methods. Mr. Marden will then test this material on our comparator and evalute the results with those obtained by Harbison-Walker. Mr. Higgins will meet with Mr. John Hosbein for the purpose of determining patent application.

2. E37-A DEVELOPMENT OF "MS" WALLS AND ARCHES - MODELS

Under this classification current models have been completed with the exception of the proposed Plastic Firebrick nose. Castings for this construction have been designed but are not yet available.

3. E36-B ABRESIST CEMENT

Materials still to be tested are "Amexite" by Hallemite and Resin Cement "E" by Calicote. Other samples available are by Flintkote. Mr. Marden developed a Lumnite cement base material which is workable for 1½ hours and has a complete set in 3 hours. This cement was tested by Mr. R. Hosbein but no report is available. The "Karbo" material now at the plant requires several additives which, if not used carefully, could result in a violent reaction. Before proceeding with the test of "Karbo" Mr. Bruce Abell will be consulted on the proper procedure in safely handling these materials.

4. E38-A DRYING OUT DATA

Several drying out tests have now been completed and several more are contemplated. Statistics obtained in these tests will be embodied in a report to be prepared by Messrs. Marden and Buettgen.

5. P3-B SUPER 711 RESEARCH

Large discussion - Howard asked 10% Hr Rush to [illegible] - vol. shrinkage brought to good range [illegible] tests (1 sat.) will permit [illegible] of new formulation for [illegible]. All agreed.

Mr. Higgins has given Kaiser Refractories the latest information on physical characteristics as well as construction photographs for use in their advertising. Mr. Speelman reported that recent tests on Super 711 indicated shrinkage far beyond the 15% which we now publish. Since there are several methods indicated for testing shrinkage in various government specifications we will check with Mr. Abell to determine which method has been used in the past. A re-evaluation will be made of all test methods used for Super 711. Mr. Clousing has not had an opportunity as yet about having Naval and Military specifications modified.

6. D2-B PYROSCAT

Ltr rec'd - [illegible] offered for some possible improvement

McKesson-Robbins chemist took samples of Pyroscat. Whenever their laboratory has any time available they will conduct tests with additives to see whether they can prevent surface checkering and crazing.

7. E8-B UTILITY CEMENT

asbestos reduced to improve adhesion - shrink within 10% of published.

Tests conducted by Mr. Speelman according to ASTM standards indicate that shrinkage is OK according to our published data. However, coverage does not conform to published data.

Physical characteristics of Decretes and Calcretes will be developed by Messrs. Marden and Higgins.

Respectfully submitted,
M. H. DETRICK COMPANY
R & D Laboratory

J. A. Buettgen

JAB:va
Copies to: Messrs: L. H. Hosbein
L. Ellman
C. F. Pollen
H. A. Rowley