

FILE NAME: Owens-Corning (OC)

DATE: 1966 Dec 30

DOC#: OC192

DOCUMENT DESCRIPTION: Memo RE Kaylo Research & Development Monthly Report for Dec 1966

Mr. R. J. McEvoy

December 30, 1966

R. F. Shannon

KAYLO RESEARCH AND DEVELOPMENT
MONTHLY REPORT FOR DECEMBER 1966

1. A Kaylo team meeting was held at Berlin to review the status of the stress corrosion program, including shipping and test marketing programs being conducted by I & C Marketing Division. Unfortunately, samples shipped to Delaware Insulation Company, as part of the test market program, found their way into a duPont plant and ultimately to a member of duPont's Insulation Committee for examination. His remarks were to the effect that he would not okay such a product even if it passed the duPont 6 day stress corrosion survival test, because it was too soft. Plans for the official duPont plant trial scheduled for December 20 were, therefore, canceled pending clarification by Marketing of the situation with duPont.
2. All wares produced at Berlin during the three trials made so far have passed Product Testing Laboratory 6 and 10 day survival tests and have averaged 31,000 PPA soluble silica at Lohigh. There is no reason to believe the product, when submitted to duPont for stress corrosion testing, should not pass. The problem is physical strengths. The modulus of rupture, hardness and compressive strengths are slightly lower than standard Kaylo. The product is, however, adequate to be marketed as a special. In fact, except for compressive, it meets our current CAS.
3. A study was conducted at the request of Manufacturing to determine the effect possible contamination of K17 and K20 batch with the new stress corrosion batch would have on physical properties. K17 and K20 batch were intentionally contaminated with the stress corrosion batch, with dust made from the stress corrosion batch and with the silicated glass itself. In all cases, no significant adverse effect on the high temperature properties of either K17 or K20 was noted at contamination levels of 1-2% wt.
4. A new Portland cement modified batch (10L6K2), after an extended evaluation period at Berlin, has resulted in a stronger and harder product and has improved Plant efficiencies. This batch has been submitted to Product Testing for evaluation for compliance with the CAS and for ultimate official certification.
5. A major overhaul of Granville Kaylo process equipment, including the SID cylinder was carried out in December. A new fan shaft, bearings and packing were installed.

December 30, 1966

6. Initial investigations directed toward the elimination of asbestos fibers as reinforcement for Kaylo were undertaken. Fibers under investigation include Rockwool, metal fibers and cotton fibers. Initial test data indicate replacement of 50% of the asbestos currently in the product with 1/3 as much cotton string will more than double impact strengths.
7. Considerable laboratory work was carried out to collect data needed for the preparation of the patent application covering our stress corrosion product. The patent application will be filed in January.

JSI

R. F. Shannon.

RFS/ris