

OC-42-1

FIBERGLAS

INTRA-COMPANY CORRESPONDENCE

To: J. H. Boynton - New York

Date: March 30, 1964

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Subject: STRESS CORROSION

MA 5134 H12

In reply to your request for recommendations as to the program dealing the requirements laid down by DuPont, I can only counter with questions at this time.

I feel that we should objectively examine the facts concerning the use of Kaylo insulation on stainless steel in light of DuPont's specifications.

1. DuPont first asked for an insulation so low in chloride ions that it would not contribute to stress corrosion when applied on stainless steel. Through careful examination and selection of raw materials, we now produce such ware, as proved by extensive testing. There is no evidence that the inclusion of sodium silicate or sodium hydroxide in the batch is of benefit in this respect.

~~The insulation is not~~ itself benign, but requests one that has incorporated in it a sufficient amount of an added agent to neutralize the effect of massive dosages of chloride from external sources.

Due to the peculiarities of the chemistry involved in the manufacture of calcium silicate insulation, no success has been realized thus far by the incorporation of an inhibitor into the batch.

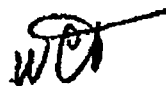
On the other hand, it has been found that an effective inhibitor can be incorporated into the finished piece simply and inexpensively (my letters of 3/23 and 3/26). The treatment is so simple that it could be done on the site of the installation, and the treated pieces applied immediately and directly on the pipe. Or it could be done on specified orders, and suitably identified, at the plant.

There can be little question that it is the obligation of OCF to furnish the customer with an insulation that in itself does not contribute to stress corrosion of stainless steel. This we can do.

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But is it also our obligation to provide, in all insulation that is sold, an internal inhibitor to function as an antidote to accidental contaminations with chlorides?

Or is it sufficiently in accord with good customer relations to furnish the consumer with the necessary information, which we acquired through research on our part, as how to insure himself against damage that could result from an abnormal situation?



W. C. Taylor

WCT/pak

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