

FORM 20-6-66 PRINTED IN U.S.A.
INTEROFFICE CORRESPONDENCE
GAF Corporation

DATE March 9, 1971

TO D. A. Davis
LOCATION So. Bound Brook

FROM W. C. Schwingen
LOCATION So. Bound Brook

CC Messrs.
Bettoli
Campagna
Davis
Fraser
Henry

SUBJECT: CALSILITE - NO ASBESTOS

On March 5, 1971, Mr. Henry and I visited the Naval Ship Engineering Center in Hyattsville, Md. Our purpose was to discuss the Navy's interest in an asbestos free calcium silicate thermal insulation. In general, we found in our discussions that the Navy was very interested in the subject product. They are currently revising their specifications to exclude high asbestos content products (Unibestos). Further, they expect at some point in the future to exclude any asbestos containing products. They also indicated that any new products would have to comply with military specifications as well as receive approval from the Navy Bureau of Medicine & Surgery. Mr. Henry and I talked briefly with Commander Barboe of the Bureau of Medicine who outlined to us how we would go about receiving approval of our product by his department.

In general, we found that the Navy was interested in approving our new product but not interested in launching a joint test program to determine if our new product was acceptable in service.

Mr. Henry and I agreed to write to Mr. Henry Murad of Navy Ship Engineering Center to confirm the fact that we were considering the subject product and confirming our discussion. I believe we are both agreed that it would be premature for us to take the next steps toward qualification of our new product until we are more confident and until we have more field experience with the test quantities of asbestos free calsilite.

W. C. SCHWINGEN

WCS:pas

MICH01014

01-0001157

8. Must be vermin proof.
9. The material and application costs should be economical.
10. The ideal insulation should be nontoxic and non-injurious to personnel during fabrication, installation, use, or rip-out.
11. Once installed, it should not cluster, become lumpy, disintegrate or build up in masses from vibration.

The Philadelphia Division of the Naval Ship Engineering Center has been assigned tasks to conduct a survey of suppliers of insulation to the Navy, to secure technical data literature, and to investigate medical research findings, safety manuals, and data on research being pursued by private industry intended to develop new or improved materials which may be suitable for replacements for asbestos for piping, felts and lagging. The cooperation and support of industry for this study is earnestly solicited by this activity since the health of the worker is the concern of management, labor and the government. Accordingly, the Navy is desirous of obtaining information on the following:

- a. Are alternate non-asbestos containing materials available which may be used as thermal insulation pipe covering? The insulation must offer protection up to 750 F and be manufactured in cylindrical sections up to 3 feet long, and split in half lengthwise.
- b. Are there any single layer or combination layered non-asbestos molded materials available which may be used as thermal insulation pipe covering for protection from 750 to 1200 F?
- c. What materials may be substituted for asbestos insulating felt (plain or water repellent) for use on valves or other irregular surfaces and which are suitable for a range from cold water temperature to 900 F?
- d. What non-asbestos containing cloth materials may be used as a lagging jacket over thermal insulation, or as a wrapping on engine exhaust pipes, or for piping or tubing, or on the inner and outer surfaces of removable covers and on flanges and valves from -5 F to 1050 F?
- e. What heat resistant bonding materials may be substituted for asbestos insulation finishing cement over block insulation and irregular surfaces where powdering during rip-out has been a problem?

6764:MA:1a1
9390(PA-287)
Ser 733

f. What safety precautions to prevent inhalation of dust are observed during the manufacturing and processing of insulation materials?

g. What safety precautions are recommended during the installation and replacement of insulating materials to prevent the inhalation of asbestos fibers and dust?

h. To what extent or degree will material and installation costs be affected by the elimination or curtailment of the use of asbestos containing insulation?

Due to the urgency of this undertaking, it is requested that the above information be forwarded at your earliest convenience to Dr. M. Annuth, the project engineer of this task, at the Naval Ship Engineering Center, Philadelphia Division, 6764, Philadelphia, Pa. 19112 (telephone number (215) 755-3922). Information submitted to the Philadelphia Division of the Naval Ship Engineering Center will be utilized by the Naval Ship Systems Command in promulgating a directive which will eliminate the use of materials and practices which are potentially hazardous to the health of insulation workers. This activity has been directed to complete the survey of insulation suppliers by 15 June 1969 to afford time for collation and personal contact, if deemed necessary.

Please be assured that any product composition and formulae submitted in response to this survey, will be held in strict confidence and will be viewed as a voluntary contribution to this perplexing problem to the insulation industry. It is understood that submission of information solicited by this activity will not obligate the government or its agencies in any manner whatsoever.

Very truly yours,

J. W. Murdock
J. W. MURDOCK
Head, Applied Physics Department