

BSS 00030664

830/15-(10-35-Ds)

12 NOV 1936

From: Bureau of Engineering
To : Director, Engineering Experiment Station,
Annapolis, Md.

SUBJECT: Asbestos Cloth - plain and wire reinforced.
Test of.

Reference: (a) Union Asbestos & Rubber Co. 420 Lexington
Avenue, New York, letter of 26 October 1936.

ENCLOSURE: (A) Two copies of Proposed Specification 32011
(INT), Asbestos Cloth.

1. By reference (a) the Union Asbestos & Rubber
Company propose the use of asbestos cloth reinforced with
copper-nickel wire for use with heat insulation for temper-
atures over 800°F. The following is a description of the
cloth suggested:

"It is constituted of 3 ply 10 cut yarn, 97% asbestos,
20-21 ends per inch reinforced with one 0.008 inch
wire in warp and 8 1/2 - 9 ends per inch each with two
0.008 inch wires in filling and weighing not exceed-
ing 3 pounds per square yard."

2. A comparative test of asbestos cloth is author-
ized to determine the necessity for wire reinforcement and to
determine the kind of wire to be used. For this comparative
test, Type A plain weave and Type B - Harness Twill weave, the
cloth proposed by Union Asbestos and Rubber Company and Rein-
forced Asbestos metallic cloth without rubber construction
as shown in Navy Department Specification 32011 should be used.
It might be desirable to obtain samples from several sources.

3. It is believed that tension tests lengthwise and
crosswise of the sheet as received and after alternate heating
and cooling for several weeks will suffice. Three heating tem-
peratures suggested as follows: 700°F, 800°F and 1000°F.

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4. It is requested that arrangements be made with the Union Asbestos & Rubber Company and with such of the following as may be necessary:

General Asbestos & Rubber Co., Charleston, S.C.
Anchor Packing Co., Philadelphia, Pa.
Johns Manville Inc., New York, NY.
Carlock Packing Co., Palmyra, N.Y.

5. Classification "NW" assigned.

R. W. Brown
By direction

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