

INTERMODAL MATERIÉL
AND
NAUTICAL/NUCLEAR ANALYSIS
IMANNA
LABORATORY INC.

CERTIFICATION TEST REPORT

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CERTIFICATION TEST REPORT
21379-1
FOAM FLOTATION TESTS
TO
33 CFR 183.114 AND ASTM D2842
FOR

CUSTOMER:

**MANUFACTURER
OF TEST ARTICLE:**

REPORT NO.: 21379-1

IMANNA JOB NO.: 21379

CUSTOMER P.O. NO.:

CONTRACT: N/A

DATE: June 5, 2019

PAGES IN REPORT: 3

STATE OF FLORIDA
COUNTY OF BREVARD

ROBERT L. WHITE, being duly sworn, deposes and says: The information contained in this report is the result of complete and carefully conducted tests and is to the best of his knowledge true and correct in all respects.

Robert L. White

SUBSCRIBED and sworn to before me this 5th day of June, 2019

[Signature]



RACHEL SANCHEZ
Commission # GG 141542
Expires September 6, 2021
Bonded Thru Troy Fain Insurance 800-385-7019

IMANNA shall have no liability for damages of any kind to person or property, including special or consequential damages resulting from IMANNA's providing the service covered by the report.

IMANNA LABORATORY, Inc.

TEST BY

Robert White

PROJ. MANAGER

1. TEST ARTICLE

Two types of foam was received from Pregis. Eight samples of each type of foam was received for testing. The received samples were cut into 6 x 6 x 3 inch cubes. The foam is used for flotation purposes.

2. PART NUMBER

556091 - 1.7#

558547 - 2.2#

3. REQUIREMENTS

The foam is to be tested to the 24-Hour Flotation Material Tests prescribed in 33 CFR 183.114 and ASTM D2842.

4. PROCEDURE

The original buoyancy of each sample was determined and then the samples were subjected to the conditions and durations listed below.

- I) 24 HOUR GASOLINE TEST
IMMERSE IN REF FUEL B 24 HOURS / 23°C
- II) 24 HOUR OIL TEST
IMMERSE IN REF OIL 2 FOR 24 HOURS / 23°C
- III) 24 HOUR BILGE CLEANER TEST
IMMERSE IN TSP 24 HOURS / 23°C

Once the samples finished soaking for the required duration, their buoyancy was re-determined and the percent change in buoyancy calculated.

5. RESULTS

None of the test samples subjected to the prescribed conditions exhibited a loss in buoyancy in excess of the 5% allowed by the standard, as shown in the table below, and therefore the foam meets the requirements listed in 33 CFR 183.114.

P/N 556091 – 1.7#			
SAMPLE #	TEST FLUID	TEST DURATION	PERCENT CHANGE IN BUOYANCY
A	REFERENCE FUEL B	24 HOURS	+2.3
B	REFERENCE OIL #2	24 HOURS	-0.7
C	TRISODIUM PHOSPHATE	24 HOURS	-1.2

P/N 558547 – 2.2#			
SAMPLE #	TEST FLUID	TEST DURATION	PERCENT CHANGE IN BUOYANCY
A	REFERENCE FUEL B	24 HOURS	+2.0
B	REFERENCE OIL #2	24 HOURS	-1.6
C	TRISODIUM PHOSPHATE	24 HOURS	-1.7

6. OBSERVATIONS AND COMMENTS

The results presented herein apply only to the test article as prepared and as tested on the date reported. All equipment used in the performance of these tests was calibrated to standards traceable to the N.I.S.T and/or verified at the time of the test using internationally recognized methods to validate the accuracy and repeatability of the values recorded or collected during the tests.

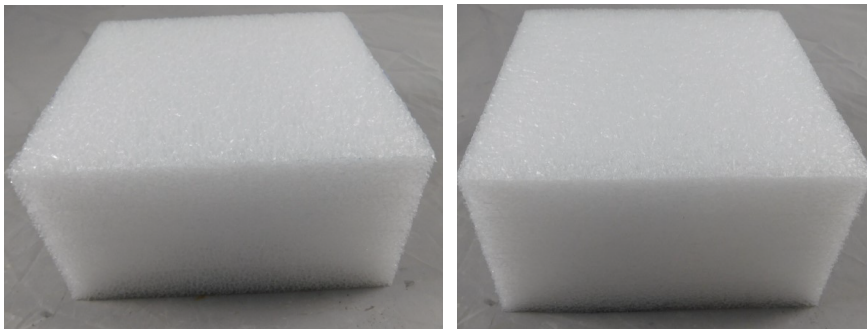


Figure 1: view of tested foam samples