

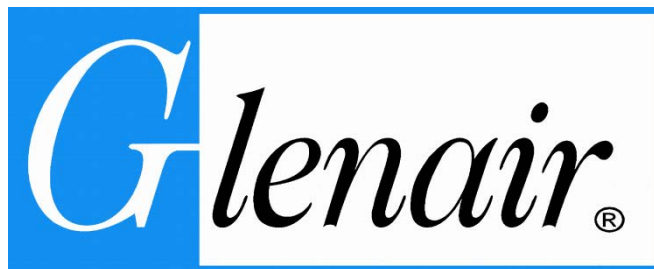
Glenair Test Report

Specific Gravity;
ArmorLite Braid (103-051)

GT-11-28 (ARM-109)

Revision 2

2/17/22



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TEST REPORT

Cage Code: 06324	Specific Gravity; ArmorLite Braid (103-051)	Document #: GT-11-28 (ARM-109) Revision: 1 Page 2 of 3
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Revision Status	Description of Change	Date	Approval
1	Release	12/28/11	-
2	Reformatting, cover page, nomenclature revised	02/17/22	JNN



Specific Gravity Summary

1. Sampling:

One (1) sample of minimum 12 inches long (1 feet) of individual ArmorLite microfilament tow.

2. Construction (proprietary)

14 individual micro-filaments per ASTM-A580 electrolytically deposited nickel plate

3. Criteria - Formula per IAW ISO-1183

Criteria - Density of ArmorLite base clad material based on a filament diameter and historical mass in grams/foot.

Specific gravity = $a / [(a + w) - b]$

a = mass of specimen in air.

b = mass of specimen and sinker (if used) in water.

W = mass of totally immersed sinker if used and partially immersed wire.

Density, $\text{kg/m}^3 = (\text{specific gravity}) \times (997.6)$

4. Summation

Results from material supplier yields the following:

8.2 g/cm³ is an estimate based on the bulk weight of each microfilament (ASTM-A580) at 7.9 g/cm³ and addition of micron amounts of copper/nickel plate, both of which have densities of 8.9 g/cm³.