

MILITARY SPECIFICATION

CLOTH, LAMINATED, FIRE RESISTANT, WATERPROOF  
AND MOISTURE VAPOR PERMEABLE

This amendment forms a part of MIL-C-85637A(AS), dated 5 May 1987, and is approved for use within the Naval Air Systems Command, Department of the Navy, and is available for use by all Departments and Agencies of the Department of Defense.

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4.6.3, line 4, after "selected" delete ",," and substitute "and".

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Table I, under Requirement for Film Overall Weight, delete "4.5.3.1" and substitute "4.5.3.2."

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Footnote 3/, delete the last sentence and substitute:

"The test shall be run for 24 hours and weight measurements shall be taken only at the start and the completion of the test. At the start of the 24-hour period, the air gap between the water surface and the back of the specimen shall be 3/4 inch.

The inverted water method for determining MVTR shall be conducted as specified in ASTM E 96 with the test dish in the inverted position (Procedure BW). The free stream air velocity shall be  $550 \pm 50$  FPM as measured 2 inches below the cloth specimen. The air flow shall be measured at least 2 inches from any other surface. The test shall be run for 2 hours and weight measurements shall be taken only at the start and completion of the test."

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Footnote 6/, delete in its entirety and substitute:

"6/ One specimen per sample unit shall be tested for leakage after exposure to synthetic perspiration. The synthetic perspiration solution shall be made up in a 1000 ml glass beaker by combining 3.0g sodium chloride, 1.0g trypticase soy broth powder, 1.0g normal propyl propionate, and 0.5g of liquid lecithin. Add 500 ml of distilled water, add a magnetic stirring bar, and cover the beaker. Place the beaker on a combination hot plate/magnetic stirrer apparatus. While stirring, heat the solution to 50°C until all ingredients are dissolved. While stirring, cool the solution to 35°C, remove cover, and dispense immediately with a pipet or other suitable measuring device. Dispense 2 ml of perspiration solution at 35°C onto the center of an 8 inch by 8 inch glass plate. Place a specimen on the glass plate with the knit side facing the glass. Dispense an additional 2 ml of the synthetic perspiration solution onto the center of the specimen. Place an 8 inch by 8 inch glass plate on top of the specimen with a 4 lb weight positioned in the center. After 16 hours, remove the specimen (Do Not Rinse) and test immediately for leakage as specified in footnote 4/ of this table."

Preparing Activity  
Navy - AS  
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