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WORK INSTRUCTION	SUBJECT: Leakage Testing of	CT: Leakage Testing of Barrier Materials-Submersion Test	

1.0 Purpose:

1.1 This document describes the procedures necessary to perform Leakage Testing of Barrier Materials-Submersion test.

2.0 Scope:

2.1 This Work Instruction defines methods used for the verification of Leakage Testing of Barrier Materials-Submersion test

3.0 Responsibility and Authority:

3.1 The responsibility and authority for the administration, implementation and maintenance of this work instruction has been assigned to the Sr. Operations Manager and / or his / her designee(s).

4.0 Forms and References:

- 4.1 MIL-STD-2073-1E, Change 4
- 4.2 MIL-STD-3010C
- 4.3 MIL-PRF-121
- 4.4 MIL-PRF-131
- 4.5 MIL-PRF-22019, Type 1
- 4.6 MIL-PRF-22191
- 4.7 MIL-PRF-81705
- 4.3 ASC-WDL-PFC-4.8-10
- 4.8 ASC-WDL-PFC-4.8-14
- 4.9 ASC-WDL-0080
- 4.10 AAR-WDL-0004.11
- 4.11 PackRite Robot Jaw Sealer Operator's Manual

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5.0 Procedure:

5.1 The Submersion test shall be performed daily.

5.2 **Preparation:**

- 5.2.1 Prepare one 6" x 6" test specimen for each type of barrier material and each heat seal machine that is used for the day as follows:
 - a) Set proper temperature, dwell, and pressure on heat sealing machines per operator's manual and allow time for temperature to be reached.
 - b) When proper temperature is reached, heat seal barrier material / bag making sure a minimum of a ¼-inch-wide heat seal is obtained.
 - c) Fill specimen with 200-gram weight for the test. Weight will act as "simulated contents"
 - d) Write the date, contract number (If available) machine number and your initials on a Leak / Heat Seal label and set aside.
 - e) Fill tub with water to fill line.
 - f) Use a calibrated thermometer and calibrated timer to obtain ambient temperature and record it on ASC-WDL-0080. Set timer for 30 seconds and record ambient temperature when the 30 seconds is reached.
 - g) Use a calibrated thermometer and calibrated timer to test water temperature before and after testing of specimen and record the temperatures on form ASC-WDL-0080. Set timer for 30 seconds for each test and record measurement when 30 seconds is reached.
 - h) If water temperature is found to be 40 degrees below the recorded ambient temperature see your lead or management before accepting testing results.

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5.3 **Testing:**

- 5.3.1 Place specimen in a tub with water.
- 5.3.2 Record the "time in" that the specimen was placed in the water filled tub.
- 5.3.3 Keep specimen submerged for a minimum of 1 hour. Use a calibrated timer to monitor time specimen is submerged.
- 5.3.4 After a minimum of 1 hour has passed, remove specimen from tub and carefully dry the outside of the specimen with a paper or cloth towel.
- 5.3.5 Record the "time out" that the specimen was removed from water on the Leak / Heat Seal label.
- 5.3.6 Use scissors and cut the specimen in approximately half of sealed edge, parallel to the new heat seal.
- 5.3.7 Inspect the inside of the specimen to make sure no water has leaked in.
- 5.3.8 If any water is found inside the specimen, it is considered a failure and a new specimen will need to be tested. Return to Preparation (1) and repeat
- 5.3.9 If no water is found inside the specimen, record it as passing on the Daily Log sheet. Apply Leak / Heat Seal label to bottom portion of specimen. Place specimen inside specimen envelop for the day.

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6.0 Revision History:

Revision Date:	Revision:	Sections / Page Revised:	Description / Reason for Revision:	Approved by:
15/DEC/2021	Original	All	Complete rewrite and reformatting.	Mike Baiz
08/JUN/2022	1	5.3.6 / Pg. 3	Changed, "at least 2 inches from the top of sealed edge" to "in approximately half".	Mike Baiz