

APP A
DPSCH 4155.2

*** MONOGRAPH NO.: M10D**

ITEM: Ration Supplement, Flamesless Heater, For Meal, Ready-To-Eat

NSN: 8971-01-321-9153

ITEM SPECIFICATION: MIL-R-44398B

CHARACTERISTIC OF ITEM:

- Electrochemical heater designed to heat the MRE entree
 - Activated with the addition of 2 ounces of water
 - Heats 8 ounce entree in 12 minutes or less
 - Size: 4.5"x 5.5" heater pad in a 5.0" x 14.0" heater bag
 - Weight: 1 ounce
 - Color: Olive green, grey or brown heater in clear plastic bag with printed instructions
- One FRH provided in each MRE

DEFECTS LIKELY TO OCCUR:

Leak in heater bag

Lack of performance, i.e., takes longer than 12 minutes to heat entree

Broken or crumbled heater pad

UNIQUE EXAMINATION / TEST PROCEDURE: The performance of the FRH is tested by placing the heater pad in a specified plastic tray, placing a thermocouple pouch filled with 8 ounces of 35 to 45 F water in the tray on top of the heater pad, adding a pre-measured amount of water to the apparatus, then placing a lid on the tray. The time and temperature rise of the pouch containing 8 ounces of water is needed at one minute intervals by an electronic digital recording device. Failure to meet the performance requirement outlined in the specification constitutes failure of this test.

SPECIAL NOTES: Unlike the trioxane fuel bar / canteen cup method of heating, the FRH takes of fraction of the time to heat the entree, uses a fraction of the amount of water, is flameless, and may be used to heat the entree in properly ventilated shelters / vehicles or in the soldier's pocket while on-the move.