

INCH-POUND

MIL-E-22285(AS)  
AMENDMENT 3  
31 July 1996  
SUPERSEDING  
AMENDMENT 2  
6 November 1995

## MILITARY SPECIFICATION

### EXTINGUISHING SYSTEM, FIRE, AIRCRAFT, HIGH-RATE-DISCHARGE TYPE, INSTALLATION AND TEST OF

This amendment forms a part of MIL-E-22285(AS), dated 11 December 1959, and is approved for use by the Naval Air Systems Command, Department of the Navy, and is available for use by all Departments and Agencies of the Department of Defense.

#### PAGE 3

3.7: At the end of the paragraph, add "(see 6.1.1)."

3.8, line 2: Delete "at least 15 percent by volume" and substitute "at least 6 percent by volume in air (22% by weight)."

#### PAGE 4

3.8.3: Delete and substitute:

"3.8.3 Added factor for agent loss - Where long discharge lines are used, compliance with 3.8 may require an increase in the value of W obtained in the formulas of 3.8.1, in order to compensate for agent lost in wetting the discharge lines."

#### PAGE 5

3.16: Delete the second sentence and substitute: "Supply lines between the containers and the discharge opening should, where practicable, be 10 feet or less in length."

Add the following new paragraph: "3.15.2.1 Number of containers - In a 4 engine aircraft, both initial and reserve fire extinguishing coverage may be obtained by using a total of 4 agent containers. This includes 2 central systems, with each central system serving 2 engines. Each central system thus includes one initial discharge container and one reserve discharge container."

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- \* 4.3.2.2, add to end of paragraph:

“Bromotrifluoromethane (CF<sub>3</sub>Br, halon 1301) shall not be used to conduct the discharge test. Instead, pentafluoroethane (CHF<sub>2</sub>CF<sub>3</sub>, HFC-125) shall be used as the only approved halon 1301 simulant during discharge testing. Simulant concentration and discharge duration shall meet the requirements of 3.8 and 3.9, respectively.:

- \* Add the following new paragraph:

“4.3.2.2.1 Simulant fill parameters. The discharge test cylinder(s) shall be filled with pentafluoroethane to an amount equivalent to 77 percent of the actual suppression system agent weight, based on an equivalent liquid fill ratio of the halon 1301 bottle being simulated. Nitrogen pressurization of the test cylinder(s) shall be equivalent to that of the actual suppression system cylinder.”

Add the following new paragraph:

"6.1.1 ODS assessment. Paragraph 3.7 requires the use of bromotrifluoromethane, CF<sub>3</sub>Br, an ozone depleting substance. Based on the appropriate Technical Representative's assessment, it has been determined that a suitable substitute is not currently available. The use of bromotrifluoromethane, CF<sub>3</sub>Br, is permitted pending approval from the Senior Acquisition Official for each acquisition."

NOTE: The margins of this amendment are marked with asterisks to indicate where changes from the previous amendment were made. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations and relationship to the last previous amendment.

Preparing activity:  
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