

MIL-T-27422B  
AMENDMENT 1  
13 April 1971

MILITARY SPECIFICATION

TANK, FUEL, CRASH-RESISTANT, AIRCRAFT

This amendment forms a part of Military Specification MIL-T-27422B, dated 24 February 1970, and is mandatory for use by all Departments and Agencies of the Department of Defense.

Page 5, paragraph 3.5: At end of paragraph add: "Note: When subjected to gunfire, the type I fuel cells shall be resistant to leakage and the type II fuel cells shall be resistant to excessive tearing."

Page 6: Add:

"3.10.3 Preformed packing. Where "O" rings are required to seal tank fittings, the MS part number of the applicable "O" ring shall be marked adjacent to or on the fitting where it can be read by maintenance personnel.

Page 7, paragraph 4.3.1, line 2: After the word "constructions" insert "(including fittings and method of attachment)".

Page 7, paragraph 4.3.1.1 (e): Delete the last line and substitute "to the right of the warp threads of the exterior ply".

Page 8, paragraph 4.3.1.1(j), line 1: Delete "ply" and substitute "material",

Page 8, paragraph 4.3.3.1.1: After the first sentence insert: "The report shall include a ply by ply description of the composite construction and a drawing showing the fitting attachment method. The cell wall construction and the fitting attachment method shall be identified by vendor-assigned designations."

Page 13, paragraph 4.6.2: Before the first sentence insert: "Prior to the stand test, type I cells shall be subjected to the fuel resistance of exterior surface test specified in 4.6.6.1. An alternate procedure for conducting this 3-day test may be used if approved by the procuring activity. Upon completion of this test, the outside surface of the cell shall be dried with a cloth, and the cell shall be stored in an airtight bag or immediately installed in the cavity used for the stand test."

Page 14, paragraph 4.6.4.5.1, lines 12 and 20: Delete "40 percent  $\pm$  5 percent" and substitute "50 to 65 percent".

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page 15, paragraph 4.6.4.5.2, lines 3 and 6: Delete "40 percent  $\pm$ 5 percent: and substitute "50 to 65 percent".

Pages 16 and 17, paragraphs 4.6.5.1, 4.6.5.2, and 4.6.5.3: In line 3 of each of these paragraphs delete "40 percent  $\pm$ 5 percent" and substitute "50 to 65 percent".

page 17, paragraph 4.6.5.5, line 4: Delete "A 200 pound weight" and substitute "A total weight of 225  $\pm$ 5 pounds".

Page 17, paragraph 4.6.6.1, line 3: Delete "24 hours" and substitute "3 days".

Page 18, paragraph 4.6.6.4.4: In line 2 delete "type I fuel cell" and substitute "fuel cells". Between line 2 and subparagraph (a) insert the heading "Type I cells".

page 18, paragraph 4.6.6.4.4 (e): After "DefOrmation" add "of supporting structure".

Page 38, figure 7: Add: "The clamping ring shall be designed so that sample failure does not occur at the clamping ring."

Page 39, figure 8: on right-hand side of figure delete "WEIGHT 200 LBS." and substitute "WEIGHT 225  $\pm$ 5 LB".

Page 42, paragraph 6.4.2, line 3: Delete "ASNJI-20" and substitute "ENJIF".

Page 42, paragraph 6.4.2.1: Delete and substitute:

"6.4.2.1 Preemptive approval. Preemptive approval is herein defined as approval of phase I tests (see 4.3.3.1.1), conducted without contractual coverage. Reports of tests should be furnished in duplicate to the addressees as shown in 6.4.2. Preemptive approvals may be accepted at the option of the procuring activity in lieu of the phase I preproduction approval."

Custodians:

Army - AV  
Navy - AS  
Air Force - 11

Preparing activity:

Air Force - 11

Project No. 1560-0045

Review activities:

Army - AV  
Navy - AS  
Air Force - 80, 82