

INCH-POUND

MIL-G-22050D(SH)
AMENDMENT 1
24 May 1995

MILITARY SPECIFICATION

GASKET AND PACKING MATERIAL, RUBBER
FOR USE WITH POLAR FLUIDS, STEAM AND AIR
AT MODERATELY HIGH TEMPERATURES

This amendment forms a part of MIL-G-22050D(SH), dated 7 May 1993, and is approved by the Naval Sea Systems Command, Department of the Navy, and is available for use by all Departments and agencies of the Department of Defense.

PAGE 1

1.1, line 3, delete "aryl phosphate ester hydraulic fluids and".

Add a new paragraph 1.2.1 as follows:

"1.2.1 O-ring identification. Unless otherwise specified (see 6.2), o-rings shall be identified by a part identifying number (PIN) consisting of the specification designator (M22050); followed by a hyphen and the grade designator (1, 2, or 3); followed by another hyphen and the SAE AS 568 dash number for size designation. (Example: M22050-2-236)"

PAGE 2

2.1.1, under SPECIFICATIONS, MILITARY, delete:

"MIL-H-19457 - Hydraulic Fluid, Fire Resistant."

PAGE 3

2.2, delete: "AP.P No. 568 - Aerospace Recommended Practices, Uniform Dash Numbering System for O-Rings." and substitute:

"AS 568 - Aerospace Size Standard for O-Rings."

AMSC N/A

FSC 5330

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PAGE 3

3.2.1, delete and substitute:

"3.2.1 O-rings. Unless otherwise specified (see 6.2), the required o-ring shall be identified by its PIN (see 1.2.1) and shall have the dimensions and tolerances in accordance with the requirements of the SAE AS 568 dash number in its PIN."

PAGE 4

Table I, Initial Properties, Grade 3, ultimate elongation, percent, min.: delete "95" and substitute "80".

Table I, Properties after oven aging 166 hours at 280°F, Grade 3:

- Ultimate elongation, percent of initial, min.: delete "70" and substitute "50".
- Compression set, percent, max.: delete "60" and substitute "35".

Table I, delete in its entirety the section entitled, "Properties after immersion in MIL-M-19457 hydraulic fluid¹/ for 166 hours at 212° F:".

PAGE 5

Table I, delete footnote "1/ Cellulube 220 or equal."

PAGE 6

4.2.2, line 3, after grade, delete "and style".

4.2.3, line 2, after quantity, insert "of test specimens as defined in 4.2.4".

PAGE 7

4.3.1, line 4, after applicable, insert "to the product type".

PAGE 8

Delete 4.4.5, 4.4.5.1, 4.4.5.2 and 4.4.5.3 in their entirety.

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PAGE 9

4.4.7, after the last sentence, add the following:

"These tests are not applicable to Grade 3 material."

PAGE 13

At the end of 6.1.2, add:

", except that Grade 3 is not intended for use in various polar fluids such as aqueous monoethanolamine".

PAGE 14

6.2 (d), delete and substitute:

"(d) O-ring PIN, or form and dimensions required (see 1.2.1, 3.2 and 3.2.1)."

PAGE 15

6.5, delete "Aryl phosphate ester" and add "o-rings".

Preparing activity:
Navy - SH
(Project 5330-N161)