

INCH-POUND

MIL-E-24091C(SH)
AMENDMENT 1
21 September 1990

MILITARY SPECIFICATION

EXTINGUISHER, FIRE PORTABLE, POTASSIUM BICARBONATE,
DRY CHEMICAL, CARTRIDGE-OPERATED TYPE

This amendment forms a part of MIL-E-24091C(SH), dated 26 November 1986, and is approved for use by the Naval Sea Systems Command, Department of the Navy and is available for use by all Departments and Agencies of the Defense.

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3.4: Delete and substitute:

"3.4 Overall dimension. The extinguisher shall have the following dimension:

	Size 1 (inches)	Size 2 (inches)
Height	Max. 24	Max. 25
Diameter	6-1/2 ± 1/2	7 ± 1/2"

3.4.1: Delete in its entirety:

3.5.1: Delete and substitute:

" 3.5.1 Extinguisher. The extinguisher shall be operated by a carbon dioxide cartridge located outside of the extinguisher."

AMSC N/A

FSC 4210

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

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3.5.2.3: Add at the beginning of the paragraph:

"The cartridge receiver shall be sidewall mounted external to the extinguisher shell. The cartridge receiver shall be designed so that it will remain attached to the shell during exchange and replacement of the gas cartridge."

3.5.2.3.1: Third sentence, change words "cartridge guard" to "cartridge receiver".

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3.5.2.5: Third sentence, delete "the shell and".

3.5.2.11: Delete and substitute:

"3.5.2.11 Nozzle holder. A holster type nozzle holder shall be attached to the shell."

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4.3: Delete and substitute:

"4.3 First article inspection. Except where otherwise specified, two extinguishers of each class shall be examined and tested as specified in Table II. If either sample extinguisher fails any test or examination, the extinguisher represented for first article inspection shall be rejected. (see 6.3)"

4.3.1: Delete in its entirety:

4.4: Delete and substitute:

"4.4 Quality conformance inspection. The sample extinguishers selected in accordance with 4.4.2 shall be subjected to examination and test as specified in Table II. Any sample which fails any quality conformance inspection shall be defected and rejection number of defectives exceeds the acceptance number of defectives, the lot represented by the sample shall be rejected. If any sample extinguisher fails any quality conformance inspection, the lot represented by the sample shall be rejected. (see 6.2.2)."

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4.4.2: Delete and substitute:

"4.4.2 Sampling for quality conformance. A random sample of extinguishers shall be selected from each lot in accordance with level II of MIL-STD-105."

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Table II: Add as new Table II:

"TABLE II. First article inspections.

	Requirements	First Article	Quality Conformance
Visual Exam (4.6)	3.2 - 3.5 3.7 - 3.9	X	X
Leakage test (4.7.1)	3.5.2.1	X	
Discharge tests (4.7.2)			
at 0°F	3.6.1.1 and 3.6.1.2	X	
at 70°F	3.6.1.3 and 3.6.1.4	X	X
at 120°F	3.6.1.5	X	
Fire extinguishing (4.7.3)	3.6.2	X	
Pressure retention (4.7.4)	4.7.4	X	
Operational test of nozzle (4.7.5)	3.6.3	X	
puncture (4.7.6)	3.6.4	X	
mounting bracket (4.7.7)	3.6.5	X	
Corrosion test (4.7.8)	3.6.6	X	
Vibration test (4.7.9)	3.6.7	X	
Shock test (4.7.10)	3.6.8	X	
Drop test (4.7.11)	3.6.9	X	
Hydrostatic test (4.7.12)	3.5.2.1 and 3.6.10	X	
Magnetic permeability (4.7.13)"	3.2	X	X

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4.5: Delete in its entirety:

4.6: Delete and substitute:

"4.6 Visual examination. Each sample extinguisher shall be inspected for defects as specified in Table I."

4.6.1: Delete in its entirety:

4.6.2: Delete in its entirety:

4.7: Delete and substitute:

"4.7 Tests. The tests as specified in 4.7.1 through 4.7.13 (except 4.7.12) shall be conducted with the extinguisher filled to the rated capacity with dry chemical as specified in 3.2.4 and charged with a gas cartridge as specified in 3.5.2.4."

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4.7.8: Delete and substitute:

"4.7.8 Corrosion resistance. The extinguisher and cartridge guard in position, shall be locked in its mounting bracket and placed upright in a salt spray solution in accordance with ASTM B 117. The test shall be conducted continuously for 480 hours with wet and dry cycling periods of 24 hours each. During a dry period the fog shall be turned off and the chamber be opened."

4.7.9: First sentence, delete "(see 4.6.2)".

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4.7.10: First sentence, delete "(see 4.6.2)".

4.7.11: First sentence, delete "(see 4.6.2)".

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6.2.2: Under title "Paragraph no.", delete "4.6.2" and "4.3.1" substitute "4.4".

6.2.2: Under title "Data requirement title", delete "First article inspection report" and "Inspection and test reports" and substitute "Reports, test".

6.2.2: Under title "Applicable DID no.", delete "DI-T-5329" and "DI-T-4902" substitute "DI-T-2072".

6.2.2: Under title "Option", delete "Level 3" and substitute "Level 2".

Preparing activity:
NAVY-SH
(Project 4210-N416)