

ETSO-2C19c A1

ED Decision 2020/011/R (applicable from 25.7.2020)

PORTABLE WATER-SOLUTION TYPE HAND FIRE EXTINGUISHERS

1 Applicability

This ETSO provides the requirements which portable water-solution type hand fire extinguishers that are designed and manufactured on or after the date of this ETSO must meet in order to be identified with the applicable ETSO marking.

2 Procedures

2.1 General

The applicable procedures are detailed in CS-ETSO, [Subpart A](#).

2.2 Specific

None.

3 Technical Conditions

3.1 Basic

3.1.1 Minimum Performance Standard

The applicable standards are those provided in SAE International's Aerospace Standard AS245B, Water Solution Type Hand Fire Extinguisher, dated 1 November 1948, revised in April 2000, as amended by [Appendix 1](#) to this ETSO.

3.1.2 Environmental Standard

See CS-ETSO, [Subpart A](#), paragraph 2.1

3.1.3 Software

None.

3.1.4 Airborne Electronic Hardware

See CS-ETSO, Subpart A, paragraph 2.3.

3.2 Specific

3.2.1 Failure Condition Classification

See CS-ETSO, Subpart A, paragraph 2.4.

4 Marking

4.1 General

See CS-ETSO, [Subpart A](#), paragraph 1.2.

Instead of the optional serial number, the date of manufacture has to be marked.

4.2 Specific

In addition to the requirements of paragraph 4.1, the marking requirements of SAE International's Aerospace Standard AS245B, paragraph 3.2 are applicable.

5 Availability of Referenced Document

See CS-ETSO, [Subpart A](#), paragraph 3

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Appendix 1 to ETSO-2C19c A1 – MPS Portable Water Solution Type Hand Fire Extinguishers

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The applicable standard is SAE AS245B, Water Solution Type Hand Fire Extinguisher, dated (revised) April 2004, shall be modified as follows:

AS245B section	Action									
Paragraph 4.1.2: Burst pressure	to be revised as follows: The burst pressure must be greater than or equal to ‘b’ times the design pressure (see Table 1 below). The design pressure is compatible with the maximum pressure encountered in use of the extinguisher and ensures a long service life for equipment when charged.									
Paragraph 5. Individual Performance Requirements:	to be revised as follows: All extinguishers, or extinguisher components shall be subjected at a minimum to the following tests: Requirement to be added: the proof pressure must be greater than or equal to ‘p’ times the design pressure (see table 1 below). Table 1: the ‘b’ and ‘p’ factors indicated depend on the type of extinguisher									
	<table border="1" style="margin: auto; border-collapse: collapse;"> <thead> <tr style="background-color: #cccccc;"> <th style="padding: 5px;"></th> <th style="padding: 5px;">b</th> <th style="padding: 5px;">p</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px; text-align: center;">Type I</td> <td style="padding: 5px; text-align: center;">2,7</td> <td style="padding: 5px; text-align: center;">1,5</td> </tr> <tr> <td style="padding: 5px; text-align: center;">Type II</td> <td style="padding: 5px; text-align: center;">2,4</td> <td style="padding: 5px; text-align: center;">1,2</td> </tr> </tbody> </table>		b	p	Type I	2,7	1,5	Type II	2,4	1,2
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