ED Decision 2016/029/R Annex II

ETSO-2C19c Date: 19.12.2016

# European Aviation Safety Agency

## European Technical Standard Order

Subject: Portable Water-Solution Type Hand Fire Extinguishers

#### 1 — Applicability

This ETSO gives the requirements which new models of 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

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 Standards set forth in the SAE Aerospace Standard document: AS245A AS-245B, 'Water Solution Type Hand Fire Extinguisher' dated November 1, 1948, revised December 15, 1956 and supplemented by

Hand Fire Extinguisher', dated November 1, 1948, revised December 15, 1956 and supplemented by this ETSO (revised) April 2004, as modified in Appendix 1 of this ETSO.

- 3.1.2 Environmental Standard See CS-ETSO Subpart A paragraph 2.1
- 3.1.3— Computer Software None.
- 3.2 Specific none
- 4 Marking
- 4.1 General
  Marking is detailed in CS-ETSO Subpart A paragraph 1.2.
  Instead of optional serial number the date of manufacture has to be marked.

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- 4.2 Specific As specified in the SAE Aerospace Standard document AS245A AS245B paragraph 3.2.
- 5 Availability of Referenced Document See CS-ETSO Subpart A paragraph 3

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#### **APPENDIX 1.**

#### MPS FOR PORTABLE WATER SOLUTION TYPE HAND FIRE EXTINGUISHERS

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	to be revised as follows:				
pressure	Burst pressure must be equal or greater than 'b' times Design				
	pressure (see table 1 below). Design pressure is compatible with				
	maximum pressure encountered in use of extinguisher and ensures a				
	long service of equipment when charged.				
Paragraph 5. Individual	to be revised as follows:				
Performance	All extinguishers, or extinguisher components shall be subject at a				
Requirements:	minimum to the following tests:				
	Requirement to be added:				
	proof pressure must be equal or greater than 'p' times Design				
	pressure (see table 1 below).				
	Table 1: 'b' and 'p' factors indicated depend on extinguisher type				
			b	р	
		Type I	2,7	1,5	1
		Type II	2,4	1,2	