

European Aviation Safety Agency

European Technical Standard Order

Subject: PORTABLE WATER-SOLUTION TYPE FIRE EXTINGUISHERS

1 - Applicability

This ETSO gives the requirements which new models of portable water-solution type fire extinguishers that are 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: AS-245A, „Water Solution Type Hand Fire extinguisher“, dated November 1, 1948, revised December 15, 1956 and supplemented by this ETSO.

3.1.2 - Environmental Standard

See CS-ETSO Subpart A paragraph 2.1

3.1.3- Computer Software:

None.

3.2 - Specific

Following AS-245A paragraphs are supplemented as indicated:

§ 4.1.1: For both types, minimum tank capacity is one (1) liter.

§ 4.1.2: Burst pressure must be equal or greater than „b“ times Design pressure (see following table).

Design pressure is compatible with maximum pressure encountered in use of extinguisher

and ensures a long service of equipment when charged.

§ 4.3.1: In case of water spray extinguishers, minimum discharge duration is of fifteen (15) seconds.

§ 4.3.2: In case of water spray extinguishers, minimum discharge horizontal distance is of one and half (1.5) metre.

§ 5.2: Proof pressure must be equal or greater than „p“ times Design pressure (see following table).

Table: „b“ and „p“ factors indicated depend on extinguisher type:

	b	p
Type I	2,7	1,5
Type II	2,4	1,2

4 - Marking

4.1 - General

Marking is detailed in CS-ETSO Subpart A paragraph 1.2.

4.2 - Specific

As specified in the SAE Aerospace Standard document:AS-245A.

5 - Availability of Referenced Document

See CS-ETSO Subpart A paragraph 3