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

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.
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
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:

<table>
<thead>
<tr>
<th>AS245B section</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paragraph 4.1.2: Burst pressure</td>
<td>to be revised as follows: 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.</td>
</tr>
<tr>
<td>Paragraph 5. Individual Performance Requirements:</td>
<td>to be revised as follows: All extinguishers, or extinguisher components shall be subject at a 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).</td>
</tr>
</tbody>
</table>

Table 1: 'b' and ‘p’ factors indicated depend on extinguisher type

<table>
<thead>
<tr>
<th></th>
<th>b</th>
<th>p</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type I</td>
<td>2,7</td>
<td>1,5</td>
</tr>
<tr>
<td>Type II</td>
<td>2,4</td>
<td>1,2</td>
</tr>
</tbody>
</table>