



**SPECIFICATION FOR THE APPLICATION OF  
BS EN ISO 9001:2000 TO THE INSPECTION,  
TESTING, REFURBISHMENT AND REFILLING OF  
PORTABLE AND MOBILE FIRE EXTINGUISHERS  
AND CONTAINERS USED IN CONJUNCTION WITH  
FIRE EXTINGUISHING EQUIPMENT**

**SCHEME DESCRIPTION  
AND  
GUIDANCE NOTES**

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**BAFE SCHEME DESCRIPTIVE DOCUMENT**

<p><b>NUMBER:</b></p> <p><b>SDD:</b> SP 103</p>	<p><b>TITLE:</b></p> <p>Inspection, testing, refurbishment and refilling of portable and mobile fire extinguishers and containers</p>	<p><b>DATE:</b></p> <p>August 2005</p> <p><b>Pages:</b> 9</p>
<p><b>SHORT TITLE:</b> Fire Extinguisher Refurbishment and Refilling</p>		
<p><b>BAFE SCHEME NO:</b> SP103 requires compliance with the following national <b>CRITERIA:</b> criteria:</p>		
<p><b>PRIMARY: BAFE SDD</b> SP103 i.e. This Document</p>		
<p><b>SECONDARY</b></p>		<p><b>SUBSIDIARY DOCUMENTATION REFERRED TO:</b></p>
<p>BS EN 3</p>	<p>Parts 1-6 : Specification for Portable Fire Extinguisher Manufacture.</p>	<p>As listed in BS</p>
<p>BS 5423</p>	<p>Specification for Portable Fire Extinguisher Manufacture (obsolete).</p>	<p>As Listed in BS</p>
<p>BS 5306</p>	<p>Part 3 2003 : Maintenance of Portable Fire Extinguishers – Code of Practice.</p>	
<p>BS EN ISO 9001 2000</p>	<p>: Quality Management Systems: Requirements.</p>	

## **Introduction**

This quality specification was developed in conjunction with the participating parties listed below.

### **ORGANISATIONS ORIGINALLY CONSULTED DURING THE DEVELOPMENT OF THIS QUALITY SPECIFICATION:**

- British Approvals for Fire Equipment (BAFE)
- British Fire Consortium
- British Fire Protection Systems Association
- British Standards Institution (BSI)
- Chief and Assistant Chief Fire Offices Association
- Department for Environment, Food and Rural Affairs
- Fire Extinguishing Trades Association
- Fire Industry Confederation
- Independent Fire Engineering Distributors Association
- Loss Prevention Council

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## 1. SCOPE

This Quality Specification relates to the system for the registration of firms of assessed capability scheme for the Inspection, Testing, Refurbishing and Refilling of Portable and Mobile Fire Extinguishers and Containers, used in conjunction with Fire Extinguishing Equipment.

The scheme covers the Inspection, Testing, Refurbishing and Refilling when carried out on the organisation's premises of:

- 1.1. Extinguishing agent containers used with portable and mobile fire extinguishers and fixed fire extinguishing systems.
- 1.2. Propellant containers used with portable and mobile fire extinguishers and fixed fire extinguishing systems.
- 1.3. Carbon Dioxide and other high pressure portable and mobile fire extinguishers.
- 1.4. Carbon Dioxide and other high pressure containers forming part of fixed fire fighting installations.
- 1.5. The detailed scope of an organisation's registration is given in the appendix attached to its Certificate of Registration.

## **2. SPECIFICATIONS**

Extinguishing agent containers shall be inspected and tested in accordance with the recommendation contained in BS 5306 Part 3 : 2003, as being relevant to portable fire extinguishers only. Where the refurbishing of such containers necessitates the mechanical removal of the exterior paint finish prior to repainting they shall be tested in accordance with the requirements of BS 5423 : 1987 Clause 10.2.1 or BS EN3 – 3 Clause 6.3.

Containers specified in 1.2, 1.3 and 1.4 with the exception of propellant containers for portable fire extinguishers shall be inspected and tested in accordance with the requirements of the relevant parts of BS EN 1968, 1802 or 1803. Propellant containers for portable fire extinguishers shall be inspected in accordance with BS 6643 Part 1 : 1985 and amendments, specifically Amendment 7740 September 1993.

Refill charges and replacement components for portable extinguishing agent containers and propellant containers shall be in accordance with the recommendations of Clauses 6 & 7 of BS 5306 Part 3 : 2003, as being relevant to portable fire extinguishers only.

### **3. DEFINITIONS**

For the purposes of this quality specification, the following definitions shall apply:

#### **Portable Fire Extinguishers**

An extinguisher which is designed to be carried and operated by hand and which in working order has a mass of no more than 23kg. (BS 5423) or 20kg. (EN 3)

#### **Mobile Fire Extinguisher**

An extinguisher, which in working order has a mass greater than 23kg. (BS 5423) and 20kg (EN 3) and is normally fitted with wheels or skids.

#### **Fixed Fire Extinguishing Systems**

A system of fixed apparatus from which a fire extinguishing agent is automatically or manually discharged.

#### **Extinguishing Agent Container**

An appliance containing an extinguishing agent of the water, foam, (gaseous or dry powder type) that can be expelled by the action of internal pressure, and having a working pressure not exceeding 25 bar at 60 degrees C.

#### **Propellant Container**

A pressure container that fits into or is attached to fire extinguishing equipment which contains the propellant and falls within the scope of BS 5423 or BS EN 3.

#### **High Pressure Extinguisher**

Fire extinguishing equipment coming within the scope of 1.3 and having working pressure of greater than 25 bar at 60 degrees C and falling within the Scope of BS EN 1968, 1802 and 1803.

## **4. SYSTEMS REQUIREMENTS**

### **1.1. BS EN ISO 9001 2000**

The requirements of this scheme are specified in BS EN ISO 9001 2000 – Quality Management System – Requirements.

The requirements of this Quality Specification are additional to BS EN ISO 9001 2000 and amplify its requirements in relation to the inspection, testing, refurbishing and refilling of portable and mobile fire extinguishers and containers, used in conjunction with fire extinguishing equipment.

### **1.2. BS EN ISO 9001 2000 Clause 7.4.1**

Where the whole process, as outlined in the scope to this Quality Specification is subcontracted it shall be only to organisations registered under this Quality Specification.

In the event of part of the process being sub-contracted then documented procedures, including quality requirements shall be issued to the sub-contractor.

### **1.3. BS EN ISO 9001 2000 Clause 7.5.1/7.5.2**

Clear and precise documented process procedures shall be issued and available at each stage of the inspection, testing, refurbishing and refilling process.

### **1.4. BS EN ISO 9001 2000 Clause 8.3**

The organisation shall comply with the requirements of BS EN 1968, 1802 or 1803 as appropriate.

### **1.5. BS EN ISO 9001 2000 Clause 7.5.3/7.5.5/8.2.4**

- a Incoming goods shall be inspected to identify the work required to restore them to operational condition or scrap as appropriate.
- b Where original information contained in the markings cannot be substantiated then an instruction label shall be affixed describing the contents, method of operation and complying with BS 5423 Clause 11.3 or BS EN 3-5 Clause 7.2 as appropriate.
- c Reference to a Kitemark or Kitemark licence number shall not be shown. Reference to BS 5423, BS EN 3 or other standard can be shown if identified under item a.
- d Fire ratings should not be referenced unless it can be proven that only genuine manufacturers' parts have been refitted.

- e Equipment coming within the scope of this scheme, which has been tested, refilled, repainted, refurbished, recharged shall be marked to identify the work carried out and marked with the organisation's registration number to ensure traceability.
- f All refurbished equipment is to be marked "reprocessed by..." the name and address of the test station, also the date the work was carried out.

## 1.6 BAFE Logo

The BAFE Logo (as design below) shall be displayed on the refurbished equipment coming within the scope of the Scheme.



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