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## **Hand-held fire extinguishers**

Special regulations for certification (SBC) of compliance with DS/EN 3, part 7-10

- Part 7: Properties, performance requirements and testing methods
- Part 8: Additional requirements of EN 3-7 concerning construction, resistibility to pressure and mechanical testing of fire extinguishers with a maximum pressure of 30 bar or less.
- Part 9: Additional requirements of EN 3-7 relating to CO<sub>2</sub> fire extinguishers resistibility to pressure.
- Part 10: Regulations for assessment of compliance of hand-held fire extinguishers according to EN 3-7.

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### **1 Provisions for product certification**

Issue of certificates to prove compliance with the above-mentioned standard and licence to use a DS Certification label requires that the applicant is obliged to:

- Comply with Ordinary Regulations of Product Certification (from now on called ORPC),
- Comply with these special regulations,
- Make sure that the product meets the requirements of DS/EN 3, part 7-10 and the Danish Working Environment Authority's applicable order relating to transportable pressure equipment.

### **2 Application for certificate**

Applications are made as indicated in the ORPC, article 2.

The application should state which type of hand-held fire extinguisher for which the certificate is required. The following documentation is forwarded in 3 copies to the accredited institute indicated by DS Certification:

- Copy of complete type-testing certificate in relation to EN 3 containing all test results issued by a recognised authority.
- EU compliance certificate for the type of pressure tank (CE labelling of the pressure tank)
- Fire extinguishers' Danish language labelling and instruction.
- Danish language recharging manual prepared as indicated in DS/SBC 225, appendix 1.
- Plan of the model with lists of spare parts.
- Name and address of at least 1 DS-certified filling station which has the applicant's permission to recharge the model. The filling station must have the recharging manual and be in possession of the required original spare parts and the extinguishant in question.
- Name and address of a company where the accredited institute can subsequently select extinguishers for annual control.
- 1 sample of the model in question designed in the way and with the labelling that is to be marketed in Denmark.

All the above documentation is forwarded to the indicated accredited institute together with the completed application form, which can be required from DS Certification A/S.

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### **3 Certificate**

The certificate can be issued when the type control indicates that the above-mentioned standards, the ORPC requirements and the recharging manual have been approved.

A certificate can only include products from a single manufacturer.

### **4 Control**

The control includes:

Type control, cf. ORPC, article 3.1, implemented at the request of the applicant or DS Certification A/S.

Continual control. Cf. ORPC, article 4, including :

Internal control, cf. ORPC, article 4.2

External control, cf. ORPC, article 4.3

Other control, cf. ORPC, article 4.3.2.

Control in relation to conditions of production, cf. ORPC, article 5.2 is implemented at the request of DS Certification A/S.

Type control, external control and any other control must be performed by an accredited institute with which DS Certification has agreed on inspection and testing. This institute must be accredited to perform type-testing, cf. DS/EN 3 part 7-10 and external control, cf. appendix 2 of this ORPC. If a request is made, DS Certification A/S will state which institutes with which agreements have been made. If it is requested by certificate applicants and certificate holders, DS Certification can enter into further agreements with institutes which are mainly accredited to perform inspection and testing. The accreditation authority must have signed the EA's Multilateral Agreement (European Accreditation of Certification Bodies, Inspection Bodies and Laboratories).

#### **4.1 Type control**

Prior to issuing a certificate, DS Certification A/S has an accredited institute implement a verification of whether all requirements relating to DS labelling of hand-held fire extinguishers have been met. For this purpose one completed hand-held fire extinguisher of each type is selected.

This control includes the following:

- Review of documentation in relation to type-testing.
- Review of labelling, including Danish language labelling.
- Review of Danish language service manual.
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#### **4.2 Regular control**

Regular control is carried out according to the ORPC and the relevant sections in DS/EN 3-10.

##### **4.2.1 Internal production control**

The extent of the control and frequency of samplings plus recording must be as indicated:

- In the standards' sections on testing and control in relation to DS/EN 3 part 7 and part 10.
- In the ORPC, article 4.2

The record must be available for control.

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### 4.2.2 External control

The external control must be implemented in relation to DS/EN part 10 and appendix 2 of this ORPC (cf. ORPC, article 5.3)

In addition, DS Certification A/S selects 3 fire extinguishers of each type for control in relation to appendix 2. This happens at least once a year at an unannounced inspection.

If agreed with DS Certification, the certificate holder can choose to present documentation of test results proving that control has been performed by an accredited institute, cf. article 4 with which DS Certification A/S has entered into a written agreement.

In such cases DS Certification only selects 1 extinguisher of each type from the certificate holder for control of labelling and agreement with plans, etc.

On the basis of the results of the control, DS Certification decides if the certificate will continue to apply. If the requirements are not met, DS Certification can decide to revoke the certificate. A new certificate can only be issued on the basis of a new type control.

### 4.2.3 Other control

See ORPC, article 4.3.2

### 4.3 Control when conditions of production are changed

Se ORPC, article 5.2

## 5 Labelling and its design and position

The compliance label used must have the following design:

000  DS/EN 3

Where 000 is replaced by the certificate holder's identity number.

Minimum dimensions of labelling space must be  $w \times h = 50 \text{ mm} \times 20 \text{ mm}$ .

The DS label can be printed directly on the extinguisher's label together with other information, or a label can be manufactured with the DS label which is then fixed to the extinguisher.

The labelling in its entirety must be approved by DS Certification A/S prior to the issue of the licence and may only be changed when DS Certification has accepted this.

No hand-held fire extinguisher included by the certificate may be sold in Denmark by the certificate holder without having been provided with the DS label.

Hand-held fire extinguishers which are on stock to be sold must be provided with the DS label.

## 6 Charges

See separate price list.

Control charges: as indicated in the ORPC, article 9.1.

In addition, there is a charge per sold DS-labelled extinguisher (this charge is paid every 3 months by the certificate holder to DS Certification A/S). The minimum charge must be paid.

The charges are indexed in line with inflation.

**Appendix 1: requirements of preparation of recharging manual.**

The recharging manual must be a single unit and be available in Danish. This means that a complete, new unit must be prepared when technical alterations, additions and/or exclusions are implemented. A cancel sheet is not sufficient.

**The front cover** must include:

- The word **recharging manual**
- Information on the exact model/s which the manual describes
- Date
- Certificate holder's name, address and phone number
- Certificate holder's identity number

The front cover must also include information on whether previous manual(s) can be removed from the market and if all work operations on all the delivered hand-held fire extinguishers of the model in question can be carried out by the help of the updated manual.

**The contents of the manual** must be prepared in the following way:

- A: General information for the filling station.
- B: Description and specification of spare parts
- 1: Technical specifications relating to model(s)
  - 2: Spare parts and extinguishants
  - 3: Required special tools
- C: Description of recharging procedures
- D: Description of procedures for periodic examination
- E: Description of reparation and/or replacement procedures
- F: Description of control procedures

**Remarks:**

Even though there is no information on a product in relation to a specific item, the item must still be described in the manual – for instance with the words 'No remarks.'

The order and indication of chapter from A to F must be observed.

Any requirements relating to storage environment pertaining to extinguishants and/or spare parts must be indicated under item B.2.

The control which is performed if the extinguishant is allowed to be reused must be indicated under item C.

The control which is performed if spare parts are allowed to be reused must be indicated under item B.2.

Example of front cover:

Recharging manual for DS-labelled hand-held fire extinguisher  
ANTIFIRE, model PP2 and PP6  
1997-01-01  
ANTIFIRE A/S  
Brandvej 12, 8787 Ildby  
Phone 86 86 86 86  
DS identity no.: 999

**Appendix 2: annual control of hand-held fire extinguisher in relation to EN 3**

**2-year cycle**

<b>Property</b>	<b>EN 3 part - item</b>		<b>Year 1</b>	<b>Year 2</b>
Deployment power	7	10.2	X	X
Safety equipment	7	10.3	X	X
Labelling / operation manual	7	16.2	X	X
Testing in relation to temperature cycle	7	B. 2/B.4	o	X
Testing in relation to temperature cycle	7	B. 3/B.4	X	o
Minimum material thickness	8	6.2.1.	o	X
Pressure test of container	8	6.3.4.2	X	o
Container requirements	8	6.3.2.2	X	o
Labelling	8	9/E.3/F.3	X	X
Labelling	9	8	X	X
Crushing test	8	6.3.3	o	X
Macroscopic examination of welded joint	8	6.3.6	X	o
Visual control of welded joint	8	7.2.1	X	X
Pressure test	8	E.1.2 & F.2	o	X
Bursting disc	9	5.4	X	X
Compliance with sketches			X	X