

Mobile fire extinguishers

The European Standard EN 1866:1998 has the status of a
British Standard

ICS 13.220.10

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- aid enquirers to understand the text;
- present to the responsible European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

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Summary of pages

This document comprises a front cover, an inside front cover, the EN title page, pages 2 to 10, an inside back cover and a back cover.

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English version

Mobile fire extinguishers

Extincteurs d'incendie mobiles

Fahrbare Feuerlöscher

This European Standard was approved by CEN on 29 August 1997.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

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CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

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Foreword

This European Standard has been prepared by Technical Committee CEN/TC 70, Manual means of fire fighting equipment, the Secretariat of which is held by AFNOR.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by March 1999, and conflicting national standards shall be withdrawn at the latest by March 1999.

They are included in a series of European Standards planned to cover:

- a) class of fire (EN 2);
- b) portable fire extinguishers (EN 3):
 - *Part 1: Designation, duration of operation, A and B fires test;*
 - *Part 2: Tightness, dielectric test, tamping test, special provisions;*
 - *Part 3: Construction, resistance to pressure, mechanical tests;*
 - *Part 4: Charges, minimum required fires;*
 - *Part 5: Specifications and supplementary tests;*
 - *Part 6: Provisions for the attestation of conformity of portable fire extinguishers in accordance with EN 3 part 1 to part 5;*
- c) mobile fire extinguishers (EN 1866);
- d) fire blankets (EN 1869);
- e) maintenance (prEN 12367).

This European Standard has the title *Mobile fire extinguishers*.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

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1 Scope

This European Standard specifies the characteristics, ratings and classification of mobile fire extinguishers and test method to be used. It applies to mobile fire extinguishers with a total mass above 20 kg and specified in clause 4 of this standard.

This standard is limited to water based and powder extinguishers.

It does not cover fire tests for class C fires, but powder extinguishers are effective on this type of fire. Class D fires are considered to be a very specialist application and are not included in this standard but, may be made the object of national specification.

2 Normative references

This European Standard incorporates by dated or undated references, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated reference the latest edition of the publication referred to applies.

EN 2:1992, *Classifications of fire*.

EN 3-1:1996, *Portable fire extinguisher — Part 1: Designation, duration of operation, class A and B fire test*.

EN 3-2:1996, *Portable fire extinguisher — Part 2: Tightness, tamping test, special provisions*.

EN 3-3:1996, *Portable fire extinguisher — Part 3: Construction, resistance to pressure, mechanical tests*.

EN 3-4:1996, *Portable fire extinguisher — Part 4: Charges, minimum required fire*.

EN 3-5:1996, *Portable fire extinguisher — Part 5: Specifications and supplementary tests*.

EN 3-6:1995, *Portable fire extinguisher — Part 6: Provisions for the attestation of conformity of portable fire extinguishers in accordance with EN 3 part 1 to part 5*.

ISO 4582:1980, *Plastics — Determination of changes in colour and variations in properties after exposure to daylight under glass, natural weathering or artificial light hot rolled steel sections — Part 1: Equal leg angles, dimensions*.

ISO 2604-2:1975, *Steel products for pressure purposes — Quality requirements — Part 2: Wrought seamless tubes*.

ISO 9227:1990, *Corrosion tests in artificial atmospheres — Salt spray tests*.

3 Definitions

For the purposes of this standard, the following definitions apply.

3.1

body

shell of the mobile fire extinguisher not fitted with its accessories but fitted with all its welded parts

3.2

cartridge extinguisher

mobile fire extinguisher in which the propellant gas is contained in a separate cylinder

3.3

charge of an extinguisher

mass or volume of the extinguishing media contained in the mobile fire extinguisher. The charge of appliances based on water is expressed in volume (litres) and that of other appliances in mass (kilograms)

3.4

closure

component, other than a safety device or pressure indicator, subject to the internal pressure and used to close off and seal the body

3.5

duration of operation

the time during which the extinguishing media is discharged, without any interruption in the discharge and with valve fully opened not including the residual propellant gas

3.6

extinguisher

appliance containing an extinguishing agent which can be expelled by the action of internal pressure and be directed on to a fire. This pressure may be stored pressure or obtained by the release of an auxiliary gas

3.7

extinguishing media

the substance contained in the extinguisher which causes extinction

3.8

mobile fire extinguisher

extinguisher that is designed to be transportable and operated by hand and has a total mass more than 20 kg. A mobile fire extinguisher is normally mounted on wheels. Two bodies can be combined to form a single unit subject to the limits given in Table 1. In this standard the mobile fire extinguisher shall be called "extinguisher".

3.9

propellant

gas in a liquefied or compressed state, which provides the internal pressure used to expel the extinguishing media