Portable aerosol dispensers for fire extinguishing purposes
**National foreword**

This British Standard is the UK implementation of EN 16856:2020.

The UK participation in its preparation was entrusted to Technical Committee FSH/2, Fire extinguishers.

A list of organizations represented on this committee can be obtained on request to its committee manager.

BSI, as a member of CEN, is obliged to publish EN 16856:2020 as a British Standard. However, attention is drawn to the fact that during the development of this European Standard, the UK committee voted against its approval.

It is the view of the UK committee that some requirements in EN 16856:2020 are not consistent with generally accepted practices in the UK relating to the performance assessment of portable fire extinguishing products, or with the approach taken in the UK regarding the colour coding used to identify such products.

Specifically, the UK committee is concerned that in order to comply with the requirements of this standard, products should be intended to extinguish test fires of at least two types of class rating, either type A + B, type A + F or type A + B + F classes of BS EN 2:1992 (see Clause 1). It is the opinion of the UK committee that this is not consistent with standards such as BS 6165:2019 and the BS EN 3 series, the requirements of which allow for products’ minimum fire extinguishing performance to be assessed on test fires of a single type of class rating. With extinguishers tested against this standard required to be small and limited to a maximum total capacity of 1000 ml (see Subclause 5.2.1), it would also have been advantageous to manufacturers for this standard to have allowed for products’ performance to be assessed on test fires of a single type of fire class rating, using specialized extinguishing media. By requiring that products extinguish test fires of at least two types of class rating, it is the opinion of the UK committee that this standard unnecessarily limits manufacturers in terms of both product performance and innovation.

Additionally, Clause 9 specifies that the colour coding used on products being assessed against the requirements of this standard should identify the classes of fire on which the extinguisher can be used, and be one of three:

- Silver Grey (type A + B);
- Signal Yellow (type A + F); or
- Oyster White (type A + B + F).

Common practice in the UK is to recognize the colour coding of fire extinguishers in accordance with BS 5306-10:2019, whereby all extinguishers are recommended to be colour coded to designate the specific extinguishing medium contained therein (the colours of which do not match those listed above). The UK committee advises users to note the difference between the requirements of this standard (where colour coding should identify classes of fire) and the recommendations in BS 5306-10:2019 (where colour coding is recommended to designate extinguishing media), to avoid any potential confusion.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.
This is a preview of "BS EN 16856:2020". Click here to purchase the full version from the ANSI store.
Portable aerosol dispensers for fire extinguishing purposes

Générateur d’aérosol portatif à fonction extinctrice

This European Standard was approved by CEN on 27 January 2020.

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 CEN-CENELEC Management Centre 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 CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.
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European foreword

This document (EN 16856:2020) has been prepared by Technical Committee CEN/TC 70 “Manual means of firefighting 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 October 2020, and conflicting national standards shall be withdrawn at the latest by October 2020.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

According to the CEN-CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.
Introduction

This document has been written with the aim of producing a specification for small disposable, aerosol dispensers for fire extinguishing purposes with an acceptable level of performance. This type of product is intended for domestic use only in situations where fires of limited proportions are anticipated because of the nature of some process or activity, where the possibility of fire spreading to other materials is remote, or where people are present at the likely times of risk. These products are not intended to supplant extinguishers that comply with EN 3.

1 Scope

This document specifies the requirements for non-refillable portable aerosol dispensers for fire extinguishing purposes.

It supplements the characteristics, performance and test methods for extinguishing aerosol dispensers for fire extinguishing purposes, in addition to the requirements of the Directive 75/324/EEC. Requirements in this document are specified for products containing less than 1 kg or 1 l of extinguishing media, which can be expelled by the action of internal pressure and are intended to extinguish test fires of type A + B, or type A + F, or type A + B + F classes of EN 2. These extinguishing aerosol dispensers are intended to be used by untrained persons for domestic applications. They are not intended to be used on gas fires (class C) and metal fires (class D).

Requirements are specified for minimum performance in Annex I for extinguishing test fires of type A, type B and type F classes of EN 2, as appropriate.

Annex A gives the conditioning to be applied to extinguishing aerosol dispensers prior to testing as described in Annex B to Annex K.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 2, Classification of fires

EN 3 (all parts), Portable Fire Extinguishers

EN 615, Fire protection - Fire extinguishing media - Specifications for powders (other than class D powders)

EN 1568-3, Fire extinguishing media - Foam concentrates - Part 3: Specification for low expansion foam concentrates for surface application to water-immiscible liquids

EN 1568-4, Fire extinguishing media - Foam concentrates - Part 4: Specification for low expansion foam concentrates for surface application to water-miscible liquids

EN 14848, Aerosol containers - Metal containers with 25,4 mm aperture - Dimensions of valve cups

EN 14850, Aerosol containers - Metal containers with 25,4 mm aperture - Measurement of contact height

EN 15006, Metal aerosol containers - Aluminium containers - Dimensions of the 25,4 mm aperture

EN 15008, Aerosol containers - Aluminium containers - Dimensions of one-piece cans with 25,4 mm aperture

EN ISO 9227, Corrosion tests in artificial atmospheres - Salt spray tests (ISO 9227:2017)

ISO 657-1, Hot-rolled steel sections — Part 1: Equal-leg angles — Dimensions

ISO 4470, Sawn timber — Determination of the average moisture content of a lot