SVENSK STANDARD
SS-EN 1568-3:2018

Fastställd/Approved: 2018-03-19
Publicerad/Published: 2018-03-19
Utgåva/Edition: 3
Språk/Language: engelska/English
ICS: 13.220.10

**Brand och räddning – Släckmedel – Skumvätskor –
Del 3: Krav och provningsmetoder för tungskumvätskor för ytpåföring på ej vattenlösliga vätskor**

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

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Europastandarden EN 1568-3:2018 gäller som svensk standard. Detta dokument innehåller den officiella engelska versionen av EN 1568-3:2018.

Denna standard ersätter SS-EN 1568-3:2008, utgåva 2 och SS-EN 1568-3:2008/AC:2010, utgåva 1.

The European Standard EN 1568-3:2018 has the status of a Swedish Standard. This document contains the official version of EN 1568-3:2018.

This standard supersedes the Swedish Standard SS-EN 1568-3:2008, edition 2 and SS-EN 1568-3:2008/AC:2010, edition 1.

Upplysningar om sakinnehållet i standarden lämnas av SIS, Swedish Standards Institute, telefon 08-555 520 00. Standarder kan beställas hos SIS som även lämnar allmänna upplysningar om svensk och utländsk standard.

Information about the content of the standard is available from the Swedish Standards Institute (SIS), telephone +46 8 555 520 00. Standards may be ordered from SIS, who can also provide general information about Swedish and foreign standards.

Denna standard är framtagen av kommittén för Fasta släckmedel, Sprinkler och Gassläcksystem, SIS/TK 360/AG 03.

Har du synpunkter på innehållet i den här standarden, vill du delta i ett kommande revideringsarbete eller vara med och ta fram andra standarder inom området? Gå in på www.sis.se - där hittar du mer information.

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 1568-3

March 2018

ICS 13.220.10

Supersedes EN 1568-3:2008

English Version

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

Agents extincteurs - Émulseurs - Partie 3 : Spécifications pour les émulseurs bas foisonnement destinés à une application à la surface de liquides n'ayant pas d'affinité pour l'eau

Feuerlöschmittel - Schaummittel - Teil 3: Anforderungen an Schaummittel zur Erzeugung von Schwerschaum zum Aufgeben auf mit Wasser nicht mischbare Flüssigkeiten

This European Standard was approved by CEN on 8 October 2017.

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, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.

EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

Ref. No. EN 1568-3:2018 E

Contents

Page

European foreword

This document (EN 1568-3:2018) has been prepared by Technical Committee CEN/TC 191 “Fixed firefighting systems”, the secretariat of which is held by BSI.

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 September 2018, and conflicting national standards shall be withdrawn at the latest by December 2019.

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.

This document supersedes EN 1568-3:2008.

In comparison with the previous edition, the following significant changes have been made:

— Interfacial tension and spreading coefficient test removed;

— Freezing point test introduced;

— Stability/Separation test of foam concentrate introduced;

— Occupational health and ecotoxicological testing introduced;

— Example of technical data sheet included;

— New test procedures introduced for the Evaluation of film formation of the foam Concentrate.

— Setting-up procedures of foam nozzle for the determination of expansion and drainage times have been modified in the light of ISO 7203.

This document is Part 3 of EN 1568 which has the general title Fire extinguishing media — Foam concentrates. The other parts are:

— *Part 1: Specification for medium expansion foam concentrates for surface application to water-immiscible liquids;*

— *Part 2: Specification for high expansion foam concentrates for surface application to water-immiscible liquids;*

— *Part 4: Specification for low expansion foam concentrates for surface application to water-miscible liquids.*

This European Standard is one of a series of standards specifying requirements for fire extinguishing media in common use. This series includes the following standards:

— EN ISO 5923, *Equipment for fire protection and fire fighting — Fire extinguishing media — Carbon dioxide);*

— EN 27201-1, *Fire protection — Fire extinguishing media — Halogenated hydrocarbons — Part 1: Specifications for halon 1211 and halon 1301* (ISO 7201-1);

— EN 27201-2, *Fire protection — Fire extinguishing media — Halogenated hydrocarbons — Part 2: Code of practice for safe handling and transfer procedures* (ISO 7201-2);

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

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, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

Introduction

As fire fighting foams are chemical agents or chemical preparations Commission Directive 2000/60/CE and Regulations (EC) No 1272/2008 (CLP) and No 1907/2006 (REACH) apply and should be taken into account.

Classes of fire are defined in EN 2 as follows:

— Class A: fires involving solid materials, usually of an organic nature, in which combustion normally takes place with the formation of glowing embers;

— Class B: fires involving liquids or liquefiable solids;

— Class C: fires involving gases;

— Class D: fires involving metals;

— Class F: fires involving cooking media (vegetable or animal oils and fats) in cooking appliances.

Fire-fighting foams are widely used to control and extinguish Class B fires and to inhibit re-ignition. These foams can also be used for prevention of ignition of flammable liquids and, in certain conditions, to extinguish Class A fires.

Foams can be used in combination with other extinguishing media, particularly gaseous media and powders, which are the subject of other European Standards (see European foreword).

These specifications have been designed to ensure that fire extinguishing media have the minimum useful fire fighting capability. The user should ensure that the foam concentrates are used accurately at the concentration recommended by the manufacturer. Fire performances indicated by this standard cannot replicate practical fire situations.

Foam concentrates of different types and manufacture should not be mixed.

It should be noted that some combinations of extinguishing powder and foam can lead to unacceptable loss of efficiency, caused by unfavourable interaction of the chosen media when applied simultaneously or successively to the fire.

It is extremely important that the foam concentrate after dilution with water to the recommended concentration should not in normal usage present a significant toxic hazard to life in relation to the environment. The current version of Commission Directive 2000/60/CE, Regulations (EC) No 1272/2008 (CLP) and No 1907/2006 (REACH) apply when considering the testing of ecotoxicological properties and safety in the work environment.

A special quality characteristic is the type test conducted by an independent testing laboratory accredited to EN ISO/IEC 17025.