

### SINGAPORE STANDARD

# Code of practice for the use and maintenance of portable fire extinguishers



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#### SS 578 : 2019

#### Contents

Foreword		7
1	Scope	
2	Normative references	8
3	Terms and definitions	8
4	Designation of classes of fires	11
5	Classification and rating of fire extinguishers	11
6	Classification of occupancy hazards	12
7	General requirements	12
8	Selection of extinguishers	13
9	Distribution of extinguishers	16
10	Inspection, maintenance and recharging	24
11	Hydrostatic testing	29

#### Annexes

А	System of rating extinguishers by fire tests in SS EN 3	32
В	Maintenance procedures	33
С	Features of common types of extinguishers	38
D	Service label	41
Е	General safety guidelines for recharging	42
F	Hydrostatic test – Proof pressure test method	43

#### Tables

1	Provision of foam extinguishers for single open top containers	18
2	Travel distance to extinguishers for different hazards	23
3	Provision of wet Chemical (Class F) extinguishers	24
4	Requirements for recharging gases	29
5	Hydrostatic test interval for extinguishers	30
A.1	Dimensions of Class A test fires	32
B.1	Mechanical parts	33
B.2	Self-expelling type	36
B.3	Gas cartridge type	36
B.4	Stored pressure type	37

#### Figures

#### Page

1	Grouping of Class B hazards	21
C.1	Stored pressure powder extinguisher	38
C.2	Stored pressure mechanical foam extinguisher	38
C.3	Stored pressure clean agent extinguisher	39
C.4	Stored pressure clean agent extinguisher with fixed nozzle	39
C.5	Cartridge-operated water extinguisher	40
C.6	Carbon dioxide extinguisher	40
D.1	Example of a service label	41
F.1	Hydrostatic testing of extinguisher bodies – Proof pressure test method	44

#### Foreword

This Singapore Standard was prepared by a Working Group appointed by the Technical Committee on Building Maintenance and Management which is under the purview of the Building and Construction Standards Committee.

The standard is a revision of SS 578 : 2012 'Code of practice for use and maintenance of portable fire extinguishers'. This Code covers the requirements and procedures on the selection, installation, inspection, servicing, maintenance and recharging of portable fire extinguishers used in buildings. It is intended to complement the SS EN 3 series of standards for portable fire extinguishers and provide guidance to persons who need to use and/or maintain portable fire extinguishers.

The main changes made in this revision are as follows:

- (a) The definitions have been updated.
- (b) Selection of fire extinguishers for Class A hazards has been simplified to be in line with British and European standards.
- (c) More detailed requirements/recommendations are given for selecting extinguishers for Class B, C, D and F fire hazards.

In preparing this standard, reference was made to the following publications:

- (1) BS EN 2 : 1992 Classification of fires BS 5306 Fire extinguishing installations and equipment on premises (2) Part 3:2017 Commissioning and maintenance of portable fire extinguishers - Code of practice Part 8:2012 Selection and positioning of portable fire extinguishers -Code of practice (3) NFPA 10 - 2018 Standard for portable fire extinguishers (4) SS EN 3 series Portable fire extinguishers
- (5) Code of Practice for Fire Precautions in Buildings 2018

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Acknowledgement is made for the use of information from these publications.

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## Code of practice for the use and maintenance of portable fire extinguishers

#### 1 Scope

This Code covers the selection, installation, inspection, testing and maintenance of portable fire extinguishers and the requirements given herein are the minimum. Portable fire extinguishers are appliances to be used as the first line of defence against small fires. They are essential even if other forms of fire protection equipment like hose reels, sprinklers and rising mains are installed on the premises.

This Code is prepared to assist in selecting the appropriate extinguishers as well as their installation and maintenance.

#### 2 Normative references

The following referenced documents are indispensable for the application of this standard. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

- BS 5306-8 Fire extinguishing installations and equipment on premises Part 8 : Selection and positioning of portable fire extinguishers Code of practice
- BS EN 837-1 Pressure gauges Bourdon tube pressure gauges Dimensions, metrology, requirements and testing
- SS 639-1 Code of practice for the filling, inspection, testing and maintenance of gas cylinders for the storage and transport of compressed gases Part 1: Seamless steel and aluminium alloy cylinders (excluding dissolved acetylene) Inspection at the time of filling, periodic maintenance and testing
- SS EN 3-7 Portable fire extinguishers Characteristics, performance requirements and test methods
- SS EN 3-8 Portable fire extinguishers Additional requirements to SS EN 3-7 for the construction, resistance to pressure and mechanical tests for extinguishers with a maximum allowable pressure equal to or lower than 30 bar
- SS EN 3-9 Portable fire extinguishers Additional requirements for SS EN 3-7 for pressure resistance of CO<sub>2</sub> extinguishers
- SS EN 3-10 Portable fire extinguishers Provisions for evaluating the conformity of a portable fire extinguisher to SS EN 3-7