

English Version

Unified tests procedures for the tests of EN 3-7:2004+A1:2007

Procédures d'essais unifiées pour les essais de l'EN 3-7:2004+A1:2007

Vereinheitlichte Prüfverfahren für die Prüfungen nach EN 3-7:2004+A1:2007

This Technical Report was approved by CEN on 17 January 2011. It has been drawn up by the Technical Committee CEN/TC 70.

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Foreword

This document (CEN/TR 15642:2011) has been prepared by Technical Committee CEN/TC 70 "Manual means of fire fighting equipment", the secretariat of which is held by AFNOR.

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

This document supersedes CEN/TR 15642: 2008.

This document is divided in Annexes, corresponding to the following tests in EN 3-7:2004+A1:2007.

Annex A: Duration of operation and residual charge

Annex B: Effective range of operating temperature test

Annex C: Operation and emission control mechanism / devices and safety devices tests

Annex D: Control valve

Annex E: Hose and coupling systems tests

Annex F: Resistance to extinguishing medium of extinguishers using water based media

Annex G: Classes A and B fire tests

Annex H: Compaction procedure

Annex I: Class F fire tests

1 Scope

This Technical Report specifies the tests procedures for some of the tests required by EN 3-7:2004+A1:2007; it does not cover all the EN 3-7:2004+A1:2007 tests but only the tests requiring more precision in their execution.

These Unified Tests Procedures are in force for all laboratories performing EN 3-7:2004+A1:2007 tests. Those laboratories should be accredited to EN ISO/IEC 17025 for EN 3-7:2004+A1:2007 tests and their accreditation shall be done by an Accreditation Body, member of the European Accreditation.

This document should be included in the list of applicable documents.

NOTE Since results of many tests may be affected by the human factor, this document should be taken as a helpful tool but will not replace experience and knowledge of people."

2 Normative references

The following referenced documents are indispensable for the application 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 3-7:2004+A1:2007 *Portable fire extinguishers — Part 7: Characteristics, performance requirements and test methods*

EN ISO/IEC 17025 *General requirements for the competence of testing and calibration laboratories (ISO/IEC 17025:2005)*

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*

Annex A

Duration of operation and residual charge

A.1 General

This procedure describes the method to measure the duration of operation and the residual charge of an extinguisher after discharge.

A.2 Scope

This procedure applies to all types of portable extinguishers.

A.3 References

EN 3-7:2004+A1: 2007, 3.13, 5, 7.1, 7.2, 7.3, Annex A and Annex K.

A.4 Equipment

- Stopwatch with at least 3 splits.
- Scale.

The measurement equipment shall fulfil the applicable requirements of EN ISO/IEC 17025 regarding calibration.

A.5 Tests conditions – Number of tests samples

Number of test samples : Three

- Powder and water based extinguishers samples shall be submitted to the compaction procedure prior to the storage period. Extinguishers with gaseous extinguishing media are not subjected to this compaction.
- Extinguishers for testing shall prior to the test be stored for at least 24 h at $(20 \pm 5)^{\circ}\text{C}$.
- Test shall be carried out within 5 min of its removal from storage.

A.6 Test method

A.6.1 General

Record the actual gross weight of all the extinguishers used in the test.