

PÜROTEHNILISED TOOTED. KATEGOORIA F1, F2 JA F3
ILUTULESTIK. OSA 2: ILUTULESTIKU KATEGOORIAD JA
LIIGID

Pyrotechnic articles - Fireworks, Categories F1, F2 and
F3 - Part 2: Categories and types of firework

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 15947-2:2022 sisaldab Euroopa standardi EN 15947-2:2022 ingliskeelset teksti.	This Estonian standard EVS-EN 15947-2:2022 consists of the English text of the European standard EN 15947-2:2022.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation and Accreditation.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 05.10.2022.	Date of Availability of the European standard is 05.10.2022.
Standard on kättesaadav Eesti Standardimis-ja Akrediteerimiskeskusest.	The standard is available from the Estonian Centre for Standardisation and Accreditation.

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English Version

Pyrotechnic articles - Fireworks, Categories F1, F2 and F3 - Part 2: Categories and types of firework

Articles pyrotechniques - Artifices de divertissement,
Catégories F1, F2 et F3 - Partie 2 : Catégories et types
d'artifices de divertissement

Pyrotechnische Gegenstände - Feuerwerkskörper,
Kategorien F1, F2 und F3 - Teil 2: Kategorien und
Feuerwerkstypen

This European Standard was approved by CEN on 8 August 2022.

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.

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

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

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European foreword

This document (EN 15947-2:2022) has been prepared by Technical Committee CEN/TC 212 “Pyrotechnic articles”, the secretariat of which is held by NEN.

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 April 2023, and conflicting national standards shall be withdrawn at the latest by December 2023.

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 15947-2:2015.

In comparison with the previous edition EN 15947-2:2015, the following technical modifications have been made:

- preliminary effect has been added to the descriptions of construction of banger and flash banger in Table 2;
- a new type, senko-hanabi has been added to the list of types of fireworks in Table 2;
- the descriptions of the constructions of shot tube and mine have been changed in Table 2;
- the description of the construction of Bengal flame in Table 2 has been changed in order to allow them to be held in the hand;
- the description of the construction of throwdown has been changed in Table 2;
- a new type, report rocket has been added to the list of types of fireworks in Table 2.

This document has been prepared under a Standardization Request (M/583) concerning pyrotechnic articles given to CEN by the European Commission and the European Free Trade Association, and supports Essential Safety requirements of Directive 2013/29/EU.

For relationship with Directive 2013/29/EU, see informative Annex ZA, which is an integral part of this document.

This European Standard is one of the series of standards as listed below:

- EN 15947-1, *Pyrotechnic articles — Fireworks, Categories F1, F2 and F3 — Part 1: Terminology*
- EN 15947-2, *Pyrotechnic articles — Fireworks, Categories F1, F2 and F3 — Part 2: Categories and types of firework*
- EN 15947-3, *Pyrotechnic articles — Fireworks, Categories F1, F2 and F3 — Part 3: Minimum labelling requirements*
- EN 15947-4, *Pyrotechnic articles — Fireworks, Categories F1, F2 and F3 — Part 4: Test methods*
- EN 15947-5, *Pyrotechnic articles — Fireworks, Categories F1, F2 and F3 — Part 5: Requirements for construction and performance*

Any feedback and questions on this document should be directed to the users' national standards body. A complete listing of these bodies can be found on the CEN website.

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, Türkiye and the United Kingdom.

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1 Scope

This document gives descriptions of the fireworks types and establishes a system for the categorization of fireworks into category F1. It is applicable to fireworks of the categories F1, F2 and F3 as defined by Article 6 Paragraph (1) clause (a) subclause (i) to (iii) of Directive 2013/29/EU. This document is applicable only for the categories given in brackets for each type hereinafter:

- aerial wheel (only category F3);
- banger (only categories F2 and F3);
- battery and battery requiring external support (only categories F2 and F3);
- Bengal flame (categories F1, F2 and F3);
- Bengal match (only category F1);
- Bengal stick (only categories F1 and F2);
- Christmas cracker (only category F1);
- combination and combination requiring external support (only categories F2 and F3);
- compound firework (only categories F2 and F3);
- crackling granule (only categories F1 and F2);
- double banger (only category F2);
- flash banger (only categories F2 and F3);
- flash pellet (only categories F1 and F2);
- fountain (categories F1, F2 and F3);
- ground mover (only category F2);
- ground spinner (only categories F1 and F2);
- hand-held sparkler (only categories F1 and F2);
- jumping cracker (only category F2);
- jumping ground spinner (only category F2);
- mine (only categories F2 and F3);
- mini rocket (only category F2);
- non hand-held sparkler (only categories F1 and F2);
- novelty match (only category F1);
- party popper (only category F1);

- report rocket (only category F3);
- rocket (only categories F2 and F3);
- Roman candle (only categories F2 and F3);
- senko-hanabi (only category F1);
- serpent (only category F1);
- shot tube (only category F2 and F3);
- snap (only category F1);
- spinner (only category F2);
- table bomb (only category F1);
- throwdown (only category F1);
- wheel (only category F2 and F3).

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 15947-1:2022, *Pyrotechnic articles — Fireworks, Categories F1, F2 and F3 — Part 1: Terminology*

EN 15947-3:2022, *Pyrotechnic articles — Fireworks, Categories F1, F2 and F3 — Part 3: Minimum labelling requirements*

EN 15947-4:2022, *Pyrotechnic articles — Fireworks, Categories F1, F2 and F3 — Part 4: Test methods*

EN 15947-5:2022, *Pyrotechnic articles — Fireworks, Categories F1, F2 and F3 — Part 5: Requirements for construction and performance*

EN 16265:2015, *Pyrotechnic articles — Other pyrotechnic articles — Ignition devices*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 15947-1:2022 apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <https://www.electropedia.org/>
- ISO Online browsing platform: available at <https://www.iso.org/obp/ui>