



# SLOVENSKI STANDARD

## SIST EN 15947-2:2022

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**Pirotehnični izdelki - Ognjemetni izdelki, kategorije F1, F2 in F3 - 2. del: Kategorije in vrste ognjemetnih izdelkov**

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

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

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

**Ta slovenski standard je istoveten z: EN 15947-2:2022**

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71.100.30	Eksplzivni. Pirotehnika in ognjemeti	Explosives. Pyrotechnics and fireworks
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EUROPEAN STANDARD

EN 15947-2

NORME EUROPÉENNE

EUROPÄISCHE NORM

October 2022

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Supersedes EN 15947-2:2015

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.

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, Türkiye and United Kingdom.

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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*

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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);

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- 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>



## 4 Categories

Fireworks are categorized into the following:

- **category F1:** Article 6 Paragraph (1) Clause (a) (i) of Directive 2013/29/EU;
- **category F2:** Article 6 Paragraph (1) Clause (a) (ii) of Directive 2013/29/EU;
- **category F3:** Article 6 Paragraph (1) Clause (a) (iii) of Directive 2013/29/EU.

## 5 Category F1

### 5.1 List of types which can be categorized in category F1

The following types of firework can be categorized in category F1, when meeting the requirements in EN 15947-3:2022 and EN 15947-5:2022 for category F1:

- Bengal flame;
- Bengal match;
- Bengal stick;
- Christmas cracker;
- crackling granule;
- flash pellet;
- fountain;
- ground spinner;
- hand-held sparkler;
- non-hand-held sparkler;
- novelty match;
- party popper;
- senko-hanabi;
- serpent;
- snap;
- table bomb;
- throwdown.

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**EN 15947-2:2022 (E)****5.2 List of types which shall not be categorized in category F1**

Types of firework that shall not be categorized in category F1 are:

- aerial wheel;
- banger;
- battery;
- battery requiring external support;
- combination;
- combination requiring external support;
- compound firework;
- double banger;
- flash banger;
- ground mover;
- jumping cracker;
- jumping ground spinner;
- mine;
- mini rocket;
- report rocket;
- rocket;
- Roman candle;
- shot tube;
- spinner;
- wheel.

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**5.3 Procedure to determine whether a new type can be categorized as category F1**

A new type of firework can only be categorized as category F1 if the answers to all the questions in Table 1 are negative. The questions shall be answered in the order given in Table 1.