



# SLOVENSKI STANDARD

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**Pirotehnični izdelki - Ognjemetni izdelki, kategorije 1, 2 in 3 - 3. del: Minimalne zahteve za označevanje**

Pyrotechnic articles - Fireworks, Categories 1, 2, and 3 - Part 3: Minimum labelling requirements

**iTeh STANDARD PREVIEW**

Pyrotechnische Gegenstände - Feuerwerkskörper, Kategorien 1, 2 und 3 - Teil 3: Mindestanforderungen zur Beschriftung

[SIST EN 15947-3:2010](https://standards.itih.si/catalog/standards/sist/451c04f6-c1b7-4274-8d7b-3a1c879e2c0e/sist-en-15947-3-2010)

Articles pyrotechniques - Artifices de divertissement, Catégories 1, 2, et 3 - Partie 3: Etiquetage minimal

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EN 14035-34:2003

English Version

## Pyrotechnic articles - Fireworks, Categories 1, 2, and 3 - Part 3: Minimum labelling requirements

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Articles pyrotechniques - Artifices de divertissement,  
Catégories 1, 2, et 3 - Partie 3: Etiquetage minimal

Pyrotechnische Gegenstände - Feuerwerkskörper,  
Kategorien 1, 2 und 3 - Teil 3: Mindestanforderungen an die  
Kennzeichnung

SIST EN 15947-3:2010

This European Standard was approved by CEN on 21 August 2010.

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 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 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, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.



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## Foreword

This document (EN 15947-3:2010) 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 March 2011, and conflicting national standards shall be withdrawn at the latest by March 2011.

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 EN 14035-38:2006, EN 14035-20:2005, EN 14035-29:2004, EN 14035-6:2004, EN 14035-19:2003, EN 14035-25:2005, EN 14035-33:2005, EN 14035-28:2004, EN 14035-8:2004, EN 14035-21:2005, EN 14035-22:2004, EN 14035-3:2004, EN 14035-5:2006, EN 14035-7:2004, EN 14035-15:2003, EN 14035-10:2004, EN 14035-27:2003, EN 14035-24:2004, EN 14035-9:2004, EN 14035-17:2004, EN 14035-35:2004, EN 14035-13:2004, EN 14035-12:2003, EN 14035-36:2004, EN 14035-4:2003, EN 14035-31:2005, EN 14035-23:2003, EN 14035-18:2004, EN 14035-34:2003.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association and supports essential requirements of EU Directive(s).

For relationship with EU Directive(s), 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 1, 2 and 3 — Part 1: Terminology*
- EN 15947-2, *Pyrotechnic articles — Fireworks, Categories 1, 2 and 3 — Part 2: Categories and types of firework*
- EN 15947-3, *Pyrotechnic articles — Fireworks, Categories 1, 2 and 3 — Part 3: Minimum labelling requirements*
- EN 15947-4, *Pyrotechnic articles — Fireworks, Categories 1, 2 and 3 — Part 4: Test methods*
- EN 15947-5, *Pyrotechnic articles — Fireworks, Categories 1, 2 and 3 — Part 5: Requirements for construction and performance*

CEN/TC 212 is currently also developing European Standards for:

- Pyrotechnic articles — Fireworks Category 4;
- Pyrotechnic articles — Theatrical pyrotechnic articles;
- Pyrotechnic articles — Pyrotechnic articles for vehicles;
- Pyrotechnic articles — Other pyrotechnic articles.

According to the CEN/CENELEC Internal Regulations, the national standards organizations 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,

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Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

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## 1 Scope

This European Standard specifies minimum labelling requirements for the article and primary or selection packaging of fireworks of the following types:

- aerial wheels;
- bangers;
- batteries and combinations;
- Bengal flames;
- Bengal matches;
- Bengal sticks;
- Christmas crackers;
- crackling granules;
- double bangers;
- flash bangers;
- flash pellets;
- fountains;
- ground movers;
- ground spinners;
- hand-held sparklers;
- jumping crackers;
- jumping ground spinners;
- mines;
- mini rockets;
- non-hand-held sparklers;
- novelty matches;
- party poppers;
- rockets;
- Roman candles;
- serpents;
- shot tubes;

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- snaps;
- spinners;
- table bombs;
- throwdowns;
- wheels.

**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 15947-1:2010, *Pyrotechnic articles — Fireworks, Categories 1, 2 and 3 — Part 1: Terminology*

EN 15947-2, *Pyrotechnic articles — Fireworks, Categories 1, 2 and 3 — Part 2: Categories and types of firework*

EN 15947-4:2010, *Pyrotechnic articles — Fireworks, Categories 1, 2 and 3 — Part 4: Test methods*

**3 Terms and definitions**

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For the purposes of this document, the terms and definitions given in EN 15947-1:2010 apply.

[SIST EN 15947-3:2010](https://standards.iteh.ai/catalog/standards/sist/451a04fe-c1b7-427c-8d7b-5a879e2c0e/sist-en-15947-3-2010)

**4 Minimum labelling requirements**

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**4.1 General and specific labelling requirements****4.1.1 General labelling requirements**

Fireworks shall be marked in accordance with 4.9 and 4.10, with the information specified in 4.2 to 4.8.

Primary packs, if any, shall be marked with the information specified in 4.2 to 4.8 and 4.10.

For the following fireworks, where the use of a primary pack is mandatory, the marking shall be applied solely to the primary pack:

- Bengal matches;
- Bengal sticks;
- Christmas crackers;
- crackling granules;
- flash pellets;
- hand-held sparklers;
- jumping crackers;



- non-hand-held sparklers;
- novelty matches;
- serpents;
- snaps;
- throwdowns.

The specified information shall be given in the official language(s) of the country in which the fireworks or primary packs are offered for retail sale. For each language, it shall be presented as a whole and shall not be interrupted by other text. Additional text given in another language shall not conflict with the specified information.

Conformity to these requirements specified in 4.1 to 4.10 shall be verified by visual examination.

#### 4.1.2 Specific labelling requirement for batteries and combinations

For batteries and combinations equipped with two initial fuses the second fuse shall be clearly marked with the words "RESERVE FUSE".

#### 4.1.3 Specific labelling requirement for selection packs

Selection packs containing one or more categories shall be marked with the highest category in the pack, e.g. "CAT 3".

### 4.2 Type of firework, category and registration number

The type of firework shall be marked, in upper case, in conformity with EN 15947-2. If a trade name is used in addition to the type name, it shall not conflict with the principal effects of the relevant type of firework or with the name of another type of firework. For Roman candles the number of shots shall be marked, e.g. "8 SHOT ROMAN CANDLE".

The category shall be marked, in upper case, as "CATEGORY 2" or "CAT 2", for example.

The registration number for tracing of products shall be marked in accordance with the example below:

**XXXX - YY - ZZZZ...**

where XXXX refers to the registration number of the notified body issuing the certificate, YY refers to the category of firework in abbreviated format (F1, F2, or F3 for category 1, 2, or 3 respectively), and where ZZZZ is a processing number used by the notified body.

#### 4.3 Minimum age limits

The minimum age limits applicable in the country in which the fireworks are offered for retail sale shall be clearly stated on the label. The following minimum age limits apply, if the individual Member State has not raised these age limits according to Directive 2007/23/EC Art. 7 (2).

The following minimum age limits apply:

- Category 1: 12 years;
- Category 2: 16 years;
- Category 3: 18 years.

**EN 15947-3:2010 (E)****4.4 Net explosive content**

The labelling shall include the net explosive content of the firework.

For fireworks, where the use of a primary pack is mandatory (see 4.1.1) and for fireworks not labelled completely with the information specified in 4.2 to 4.7 the total net explosive content of the items in the primary pack shall be given on the primary pack.

The abbreviation for the net explosive content (NEC) may be used for the labelling.

**4.5 Year of production**

For category 3 fireworks the year of production shall be clearly stated on the bottom right hand corner of the label, either by four or by two digits, e.g. "2010" or "10".

**4.6 Safety information**

The labelling shall include at least the safety information specified in Table 1, in a logical sequence, for the relevant type of firework. If necessary, instructions in addition to those specified in Table 1 may be given. The appropriate placing instructions, selected from those specified in Table 1, shall replace

"< placing instructions >"

where indicated.

Safety information shall be emphasized by use of a heading, or bold type, or similar.

**4.7 Details of manufacturer or importer**

Labelling shall include the name and the address of the manufacturer.

If the manufacturer is not established in the European Union the labelling shall include the name of the manufacturer and the name and address of the importer.

The address shall comprise at least the town and the country.

**4.8 Printing**

Labelling shall be clearly visible, easily legible, indelible and on a contrasting background colour. Printing errors which are not misleading are not classified as faults. When measured in accordance with 6.7 of EN 15947-4:2010, the type sizes shall be such that the height of the character "X" (in upper case) is at least 2,8 mm for the information on fireworks type and category (4.2), safety information (4.6) and additional information (4.10) on the primary pack, if applicable, and at least 2,1 mm for the other information.

The minimum height of the CE marking shall be 5 mm.

**4.9 Marking of very small items**

If the firework does not provide enough space for the specified information using the type sizes specified in 4.8, for the information on name and category and safety information, the type size shall be reduced to 2,1 mm. If the firework does not provide enough space to carry all the specified information even in reduced type size, at least the information on the manufacturer or, if the manufacturer is not established in the European Union, the importer shall be given on the firework.

#### 4.10 Additional information

If the firework is not labelled completely with the information specified in Table 1, or if the primary pack acts as protection for the initial fuses, the firework shall be sold only in a primary pack. The primary pack shall be marked with the statement: "Must be sold as packaged". If the selection pack acts as protection for initial fuse(s) it shall be marked with the statement: "Must be sold as packaged". This statement shall appear adjacent to the type name or category. For printing 4.8 applies.

**Table 1 — Safety information**

Fireworks type	Category	Minimum labelling requirements	Placing instructions
aerial wheels	3	'For outdoor use only' 'Avoid overhead obstructions' 'Place singly on launching device provided the correct way up' 'Remove orange fuse cover' (if applicable) 'Standing sideways, light fuse at its outermost end and retire immediately at least 15 m' 'Spectators must be at least 25 m away'	
bangers	2	'For outdoor use only' 'Remove orange fuse cover' (if applicable) 'Place singly on ground and light fuse at its outermost end and retire immediately at least 8 m', <b>or</b> 'Standing sideways, light ignition head and retire immediately at least 8 m' <b>or</b> 'Ignite on the striking surface, place banger on the ground and retire immediately at least 8 m (whichever is appropriate)' <small>https://standards.bsi.np/catalogue/standards/sist/451a04fe-c1b7-427c-8d7b-3a1c879c2e0c/sist-en-15947-3-2010</small>	
	3	'For outdoor use only' 'Remove orange fuse cover' (if applicable) 'Place singly on ground and light fuse at its outermost end and retire immediately at least 15 m' <b>or</b> 'Standing sideways, light ignition head and retire immediately at least 15 m' <b>or</b> 'Ignite on the striking surface, place banger on the ground and retire immediately at least 15 m' (whichever is appropriate) 'Spectators must be at least 25 m away'	