



SLOVENSKI STANDARD

SIST EN 15947-3:2016

01-februar-2016

Nadomešča:
SIST EN 15947-3:2010

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

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

Articles pyrotechniques - Artifices de divertissement, Catégories 1, 2, et 3 - Partie 3: Etiquetage minimal <https://standards.iteh.ai/catalog/standards/sist/dcf56dd-da69-4c30-8040-9d7b2847000b/sist-en-15947-3-2016>

Ta slovenski standard je istoveten z: EN 15947-3:2015

ICS:

71.100.30 Eksplozivi. Pirotehnika Explosives. Pyrotechnics

SIST EN 15947-3:2016

en,fr,de

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN 15947-3:2016

<https://standards.iteh.ai/catalog/standards/sist/dcf56dd-da69-4c30-8040-9d7b2847000b/sist-en-15947-3-2016>

EUROPEAN STANDARD

EN 15947-3

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 2015

ICS 71.100.30

Supersedes EN 15947-3:2010

English Version

Pyrotechnic articles - Fireworks, Categories F1, F2, and F3 - Part 3: Minimum labelling requirements

Articles pyrotechniques - Artifices de divertissement,
Catégories F1, F2 et F3 - Partie 3: Étiquetage minimal

Pyrotechnische Gegenstände - Feuerwerkskörper,
Kategorien F1, F2 und F3 - Teil 3:
Mindestanforderungen an die Kennzeichnung

This European Standard was approved by CEN on 26 September 2015.

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, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



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

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

Contents	Page
European foreword.....	3
1 Scope	4
2 Normative references	4
3 Terms and definitions	4
4 Minimum labelling requirements	4
4.1 General and specific labelling requirements	4
4.1.1 General labelling requirements	4
4.1.2 Specific labelling requirement for batteries, batteries requiring external support, combinations and combinations requiring external support	5
4.1.3 Specific labelling requirements for compound fireworks	5
4.2 Type of firework, category, CE marking and registration number	5
4.3 Minimum age limits	6
4.4 Net explosive content	6
4.5 Year of production	6
4.6 Safety information	6
4.7 Details of manufacturer or importer	7
4.8 Printing	7
4.9 Marking of very small items	7
4.10 Additional information	7
Annex ZA (informative) Relationship between this European Standard and the Essential Requirements of EU Directive 2013/29/EU on the harmonization of the laws of the Member States relating to the making available on the market of pyrotechnic articles	28
Bibliography	29

European foreword

This document (EN 15947-3:2015) 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 June 2016, and conflicting national standards shall be withdrawn at the latest by June 2016.

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 15947-3:2010.

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 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.*

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, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

EN 15947-3:2015 (E)**1 Scope**

This European Standard specifies minimum labelling requirements for the article and primary or selection packaging of fireworks. It is applicable to fireworks in categories F1, F2 and F3 according to EN 15947-2:2015.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 15947-1:2015, *Pyrotechnic articles — Fireworks, Categories F1, F2 and F3 — Part 1: Terminology*

EN 15947-2:2015, *Pyrotechnic articles — Fireworks, Categories F1, F2 and F3 — Part 2: Categories and types of firework*

EN 15947-4:2015, *Pyrotechnic articles — Fireworks, Categories F1, F2 and F3 — Part 4: Test methods*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 15947-1:2015 apply.

4 Minimum labelling requirements**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 4.1.2 and 4.1.3 (if applicable) and 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;
- compound fireworks;
- 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, batteries requiring external support, combinations and combinations requiring external support

For batteries, batteries requiring external support, combinations and combinations requiring external support equipped with two initial fuses the reserve fuse shall be clearly marked with the words "RESERVE FUSE".

4.1.3 Specific labelling requirements for compound fireworks

The compound fireworks shall be labelled on the primary pack according to the requirements of 4.2 to 4.10. The label of the primary pack shall identify all included articles used in the compound fireworks according to 4.2. For compound fireworks with two initial fuses the reserve fuse shall be clearly marked with the words "RESERVE FUSE".

Fireworks which are assembled in compound fireworks shall not be labelled with the information according to 4.3 and the safety information according to 4.6.

4.2 Type of firework, category, CE marking and registration number

The type of firework shall be marked, in upper case, in conformity with EN 15947-2:2015. 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 F2" or "CAT F2", 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 F1, F2, or F3 respectively), and where ZZZZ is a processing number used by the notified body.

According to Regulation (EC) No 765/2008 the CE marking shall be applied to the label. The minimum height of the CE marking shall be 5 mm.

According to Directive 2013/29/EU Art. 8(2) and 20(3) CE-marking is followed by the identification number of the Notified Body responsible for:

- monitoring the existing quality system (in case of Modules D and E); and/or

EN 15947-3:2015 (E)

- checking conformity to type according to Module C2 (where the notified body intervened during the manufacturing phase).

Selection packs containing one or more categories shall be marked with the highest category in the pack, e.g. "CAT F3".

NOTE Directive 2013/29/EU Art. 10 requires further labelling of pyrotechnic articles other than pyrotechnic articles for vehicles.

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 2013/29/EU Art. Seven [2].

The following minimum age limits apply:

- Category F1: 12 years;
- Category F2: 16 years;
- Category F3: 18 years.

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 F3 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. "2015" or "15".

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 EN 15947-4:2015, 6.7, 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.

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 (standards.iteh.ai)

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 F	Minimum labelling requirements	Placing instructions
aerial wheels	3	<p>'For outdoor use only'</p> <p>'Avoid overhead obstructions'</p> <p>'Place singly on launching device provided the correct way up'</p> <p>'Remove orange fuse cover' (if applicable)</p> <p>'Standing sideways, light fuse at its outermost end and retire immediately at least 15 m'</p> <p>'Spectators must be at least 25 m away'</p>	
bangers	2	<p>'For outdoor use only'</p> <p>'Remove orange fuse cover' (if applicable)</p> <p>'Place singly on ground and light fuse at its outermost end and retire immediately at least 8 m', or</p> <p>'Standing sideways, light ignition head and retire immediately at least 8 m' or</p> <p>'Ignite on the striking surface, place banger on the ground and retire immediately at least 8 m' (whichever is appropriate)</p>	
	3	<p>'For outdoor use only'</p> <p>'Remove orange fuse cover' (if applicable)</p> <p>'Place singly on ground and light fuse at its outermost end and retire immediately at least 15 m' or</p> <p>'Standing sideways, light ignition head and retire immediately at least 15 m' or</p> <p>'Ignite on the striking surface, place banger on the ground and retire immediately at least 15 m' (whichever is appropriate)</p> <p>'Spectators must be at least 25 m away'</p>	
batteries (with one fuse)	2	<p>'For outdoor use only'</p> <p>'Avoid overhead obstructions' (if applicable)</p> <p><i>For batteries where the tubes are placed at an angle:</i></p> <p>'Do not fire near tall buildings, trees or similar'</p> <p>'Remove orange fuse cover' (if applicable)</p> <p>'Place battery on flat ground'</p> <p>'Standing sideways, light fuse at its outermost end and retire immediately at least 8 m'</p> <p>An arrow indicating firing direction shall be part of the label (if applicable).</p>	

Fireworks type	Category F	Minimum labelling requirements	Placing instructions
batteries (with one fuse)	3	<p>'For outdoor use only'</p> <p>'Avoid overhead obstructions' (if applicable)</p> <p>'Do not fire near tall buildings, trees or similar' (if applicable)</p> <p>'Remove orange fuse cover' (if applicable)</p> <p>'Place battery on flat ground'</p> <p>'Standing sideways, light fuse at its outermost end and retire immediately at least 15 m'</p> <p>'Spectators must be at least 25 m away'</p> <p>An arrow indicating firing direction shall be part of the label (if applicable).</p>	
batteries (with two fuses)	2	<p>'This firework contains two fuses'</p> <p>'For outdoor use only'</p> <p>'Avoid overhead obstructions' (if applicable)</p> <p><i>For batteries where the tubes are placed at an angle:</i></p> <p>'Do not fire near tall buildings, trees or similar'</p> <p>'Identify first fuse and remove orange fuse cover' (if applicable)</p> <p>'Place battery on flat ground'</p> <p>'Standing sideways, light fuse at its outermost end and retire immediately at least 8 m'</p> <p>In the event that the firework fails to function completely, wait 15 min before returning to the firework and then</p> <p>ENSURING THAT NO PART OF THE BODY IS POSITIONED ABOVE THE FIREWORK, locate the reserve fuse and standing sideways, light fuse at its outermost end and retire immediately at least 8 m'</p> <p>An arrow indicating firing direction shall be part of the label (if applicable).</p>	

EN 15947-3:2015 (E)

Fireworks type	Category F	Minimum labelling requirements	Placing instructions
batteries (with two fuses)	3	<p>'This firework contains two fuses'</p> <p>'For outdoor use only'</p> <p>'Avoid overhead obstructions' (if applicable)</p> <p>'Do not fire near tall buildings, trees or similar' (if applicable)</p> <p>'Identify first fuse and remove orange fuse cover' (if applicable)</p> <p>'Place battery on flat ground'</p> <p>'Standing sideways, light fuse at its outermost end and retire immediately at least 15 m'</p> <p>'In the event that the firework fails to function completely, wait 15 min before returning to the firework and then</p> <p>ENSURING THAT NO PART OF THE BODY IS POSITIONED ABOVE THE FIREWORK, locate the reserve fuse and standing sideways, light fuse at its outermost end and retire immediately at least 15 m'</p> <p>'Spectators must be at least 25 m away'</p> <p>An arrow indicating firing direction shall be part of the label (if applicable).</p>	
batteries requiring external support (with one fuse)	2	<p>'For outdoor use only'</p> <p>'Avoid overhead obstructions' (if applicable)</p> <p><i>For batteries requiring external support where the tubes are placed at an angle:</i></p> <p>'Do not fire near tall buildings, trees or similar'</p> <p>'Remove orange fuse cover' (if applicable)</p> <p>< placing instructions ></p> <p>'Standing sideways, light fuse at its outermost end and retire immediately at least 8 m"</p> <p>An arrow indicating firing direction shall be part of the label (if applicable).</p>	<p>For batteries requiring external support to be buried into soft ground or material:</p> <p>'Insert article upright in soft ground or other non-flammable material, e.g. sand'.</p> <p>For batteries requiring external support to be fixed to a post:</p> <p>'Place battery on flat ground and fix article firmly and upright to a solid post'</p> <p>'Ensure top of article clears post'</p> <p>For batteries requiring external support to be supported by heavy objects e.g. sand bags:</p> <p>'Place battery on flat ground and closely surround article with heavy objects on all sides.'</p> <p>For batteries requiring external support supplied with a special holding device, or for which particular instructions are necessary, the manufacturer or importer shall provide appropriate instructions</p>