



SLOVENSKI STANDARD
oSIST prEN 13630-3:2021
01-april-2021

**Eksplzivni za civilno uporabo - Detonacijske in počasi goreče vžigalne vrvice - 3.
del: Ugotavljanje občutljivosti jedra detonacijskih vrvic na trenje**

Explosives for civil uses - Detonating cords and safety fuses - Part 3: Determination of sensitiveness to friction of the core of detonating cords

Explosivstoffe für zivile Zwecke - Sprengschnüre und Sicherheitsanzündschnüre - Teil 3: Bestimmung der Reibempfindlichkeit der Seele von Sprengschnüren

Explosifs à usage civil - Cordeaux détonants et mèches de sûreté - Partie 3: Détermination de la sensibilité au frottement de l'âme des cordeaux détonants

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Ta slovenski standard je istoveten z: prEN 13630-3

ICS:

71.100.30	Eksplzivni. Pirotehnika in ognjemeti	Explosives. Pyrotechnics and fireworks
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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

DRAFT
prEN 13630-3

April 2021

ICS 71.100.30

Will supersede EN 13630-3:2002

English Version

Explosives for civil uses - Detonating cords and safety fuses - Part 3: Determination of sensitiveness to friction of the core of detonating cords

Explosifs à usage civil - Cordeaux détonants et mèches de sûreté - Partie 3 : Détermination de la sensibilité au frottement de l'âme des cordeaux détonants

Explosivstoffe für zivile Zwecke - Sprengschnüre und Sicherheitsanzündschnüre - Teil 3: Bestimmung der Reibempfindlichkeit der Seele von Sprengschnüren

This draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 321.

If this draft becomes a European Standard, 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.

This draft European Standard was established by CEN 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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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

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

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European foreword

This document (prEN 13630-3:2021) has been prepared by Technical Committee CEN/TC 321 “Explosives for civil uses”, the secretariat of which is held by UNE.

This document is currently submitted to the CEN Enquiry.

This document will supersede EN 13630-3:2002.

In comparison with the previous edition, the following technical modifications have been made:

- a) the normative references were updated;
- b) Clause 4, *Principle*, has been added;
- c) Annex A, *Range of applicability of the test method*, has been removed and the content has been revised and moved to Clause 1, *Scope*;
- d) Annex ZA has been updated.

This document has been prepared under a Standardization Request (M/562) annexed to the Commission Implementing Decision C(2019)6634 final as regards Explosives for civil uses given to CEN by the European Commission and the European Free Trade Association, and supports Essential Safety requirements of Directive 2014/28/EU.

For relationship with Directive 2014/28/EU, see informative Annex ZA, which is an integral part of this document.

EN 13630, *Explosives for civil uses — Detonating cords and safety fuses*, is currently composed of the following parts:

- *Part 1: Requirements*
- *Part 2: Determination of thermal stability of detonating cords and safety fuses*
- *Part 3: Determination of sensitiveness to friction of the core of detonating cords*
- *Part 4: Determination of sensitiveness to impact of detonating cords*
- *Part 5: Determination of resistance to abrasion of detonating cords*
- *Part 6: Measurement of resistance to tension of detonating cords*
- *Part 7: Determination of reliability of initiation of detonating cords*
- *Part 8: Determination of resistance to water of detonating cords and safety fuses*
- *Part 9: Determination of transmission of detonation from detonating cord to detonating cord*
- *Part 10: Determination of initiating capability of detonating cords*
- *Part 11: Determination of velocity of detonation of detonating cords*
- *Part 12: Determination of burning duration of safety fuses*

prEN 13630-3:2021 (E)**1 Scope**

This document specifies a method to assess a sensitiveness to friction of the core of detonating cords.

Applicability of the test method is ambient laboratory conditions. Testing at a specific temperature outside ambient can require special arrangements to condition test sample and/or equipment.

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.

prEN 13631-3:2021, *Explosives for civil uses — High explosives — Part 3: Determination of sensitiveness to friction of explosives*

prEN 13857-1:2021, *Explosives for civil uses — Part 1: Terminology*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in prEN 13857-1:2021 and the following apply.

3.1**core of detonating cord**

explosive material in the centre (axis) of the cord

3.2**reaction**

occurrence of report, crackling, sparkling and/or flame

4 Principle

A sensitiveness to friction of the core load of detonating cords is assessed by subjecting a small amount of the explosive to a friction stimulus.

5 Apparatus

Use the apparatus as specified in prEN 13631-3:2021.

6 Preparation of test samples

Cut open a representative length of the detonating cord and remove a sample of explosive filling material that is sufficient to perform the trials in accordance with Clause 7.

NOTE Approximately 3 g are sufficient.

7 Procedure

Carry out the determination of the sensitiveness to friction of the sample in accordance with prEN 13631-3:2021.

8 Test report

The test report should conform to EN ISO/IEC 17025:2017, 7.8.2 and 7.8.3. In addition, the following information shall be given:

- a) reference to this document (i.e. EN 13630-3:202X);
- b) ambient conditions (temperature and humidity) during testing;
- c) the results of all the tests in the form of: the friction load, the number of trials, the number of trials with a reaction as result;
- d) the sensitiveness to friction in newtons.

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