



# SLOVENSKI STANDARD

## SIST EN 13630-3:2002

01-december-2002

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### **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 a usage civil - Cordeaux détonants et meches de sureté - Partie 3: Détermination de la sensibilité au frottement de l'âme des cordeaux détonants

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**Ta slovenski standard je istoveten z: EN 13630-3:2002**

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#### **ICS:**

71.100.30      Eksplozivi. Pirotehnika      Explosives. Pyrotechnics

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ICS 71.100.30

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 European Standard was approved by CEN on 11 July 2002.

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 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 Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

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EUROPEAN COMMITTEE FOR STANDARDIZATION  
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EUROPÄISCHES KOMITEE FÜR NORMUNG

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## Contents

	page
Foreword.....	3
1 Scope .....	4
2 Normative references .....	4
3 Terms and definitions.....	4
4 Apparatus .....	4
5 Preparation of test sample.....	4
6 Procedure .....	5
7 Test report .....	5
Annex A (informative) Range of applicability of the test method.....	6
Annex ZA (informative) Clauses of this European Standard addressing essential requirements or other provisions of EU Directives .....	7

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## Foreword

This document (EN 13630-3:2002) has been prepared by Technical Committee CEN/TC 321 "Explosives for civil uses", the secretariat of which is held by AENOR.

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 2003, and conflicting national standards shall be withdrawn at the latest by March 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 a series of standards on *Explosives for civil uses – Detonating cords and safety fuses*. The other parts of this series are:

prEN 13630-1 *Part 1: Requirements.*

EN 13630-2 *Part 2: Determination of thermal stability of detonating cords and safety fuses.*

EN 13630-4 *Part 4: Determination of sensitiveness to impact of detonating cords.*

prEN 13630-5 *Part 5: Determination of resistance to abrasion of detonating cords.*

EN 13630-6 *Part 6: Determination of resistance to tension of detonating cords.*

EN 13630-7 *Part 7: Determination of reliability of initiation of detonating cords.*

EN 13630-8 *Part 8: Determination of resistance to water of detonating cords and safety fuses.*

prEN 13630-9 *Part 9: Determination of transmission of detonation from detonating cord to detonating cord.*

WI 00321088 *Part 10: Determination of initiating capability of detonating cords.*

EN 13630-11 *Part 11: Determination of velocity of detonation of detonating cords.*

EN 13630-12 *Part 12: Determination of burning duration of safety fuses.*

Annex A of this document is informative.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

## 1 Scope

This European Standard specifies a method of determining the sensitiveness to friction of the core of flexible plastics-coated detonating cords, and flexible fibrous-overbraided detonating cords for civil uses.

## 2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text, and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

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

prEN 13857-1:2001, *Explosives for civil uses — Part 1: Terminology*.

EN ISO/IEC 17025, *General requirements for the competence of testing and calibration laboratories (ISO/IEC 17025:1999)*.

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## 3 Terms and definitions

[SIST EN 13630-3:2002](https://standards.iteh.ai/catalog/standards/sist/58b85a9a-909d-46a3-ab61-116b98c7878d/sist-en-13630-3-2002)

For the purposes of this European Standard, the terms and definitions given in prEN 13857-1:2001 and the following definitions apply:

### 3.1

#### **core of detonating cord**

high explosive filling material of a detonating cord

### 3.2

#### **reaction**

occurrence of report, crackling, sparkling and/or flame

## 4 Apparatus

Use the apparatus as specified in prEN 13631-3.

## 5 Preparation of test sample

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 6.

NOTE Approximately 3 g are sufficient.

## 6 Procedure

Carry out the determination of the sensitiveness to friction of the sample in accordance with prEN 13631-3 starting at the level specified by the manufacturer, continuing until the load is achieved at which no reaction occurs in eight trials.

## 7 Test report

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

- a) the results of all the tests in the form of: the friction load, the number of tests, the number of tests with a reaction as result;
- b) the sensitiveness to friction in Newtons.

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**Annex A**  
(informative)

**Range of applicability of the test method**

Range of applicability of the test method: - 30 °C to + 80 °C.

NOTE Testing at temperature outside ambient can require special arrangements to condition test sample and/or equipment.

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