



SLOVENSKI STANDARD

SIST EN 13630-7:2002

01-december-2002

Eksplozivi za civilno uporabo – Detonacijske in počasi goreče vžigalne vrvice – 7. del: Ugotavljanje zanesljivosti iniciacije detonacijskih vrvic

Explosives for civil uses - Detonating cords and safety fuses - Part 7: Determination of reliability of initiation of detonating cords

Explosivstoffe für zivile Zwecke - Sprengschnüre und Sicherheitsanzündschnüre - Teil 7: Bestimmung der Zuverlässigkeit der Zündung von Sprengschnüren

Explosifs a usage civil - Cordeaux détonants et meches de sureté - Partie 7: Détermination de la fiabilité de l'amorçage des cordeaux détonants

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ICS 71.100.30

English version

Explosives for civil uses - Detonating cords and safety fuses - Part 7: Determination of reliability of initiation of detonating cords

Explosifs à usage civil - Cordeaux détonants et mèches de sûreté - Partie 7: Détermination de la fiabilité de l'amorçage des cordeaux détonants

Explosivstoffe für zivile Zwecke - Sprengschnüre und Sicherheitsanzündschnüre - Teil 7: Bestimmung der Zuverlässigkeit der Zündung 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
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: rue de Stassart, 36 B-1050 Brussels

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Foreword

This document (EN 13630-7:2002) 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 13630-3 *Part 3: Determination of sensitiveness to friction of the core of detonating cords.*

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 13630-8 *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 for determining the reliability of initiation of flexible plastics-coated detonating cords and flexible fibrous-overbraided detonating cords for civil uses, by a detonator of defined initiating capability.

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).

EN 573-3, *Aluminium and aluminium alloys – Chemical composition and form of wrought products – Part 3: Chemical composition.*

prEN 13763-15, *Explosives for civil uses – Detonators and relays – Part 15: Determination of equivalent initiating capability.*

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

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

4 Principle

A test piece is initiated with a detonator of an initiating capability recommended by the manufacturer. Further test pieces are initiated with detonators of an initiating capability one level lower than that recommended by the manufacturer. The existence of an indentation produced on the surface of a witness plate by the test pieces is checked in all the cases.

5 Apparatus

5.1 Detonator A of the equivalent initiating capability as specified by the manufacturer, determined in accordance with prEN13763-15.

5.2 Detonator B of the equivalent initiating capability of one level lower than that specified by the manufacturer, determined in accordance with prEN 13763-15.

5.3 Witness plates, made from aluminium designated EN AW-6082 in accordance with EN 573-3, (50 ± 10) mm long. The width and thickness of the plates shall be such that a visible indentation is made on the plate subjected to the preliminary test (see 7.1).

6 Test pieces

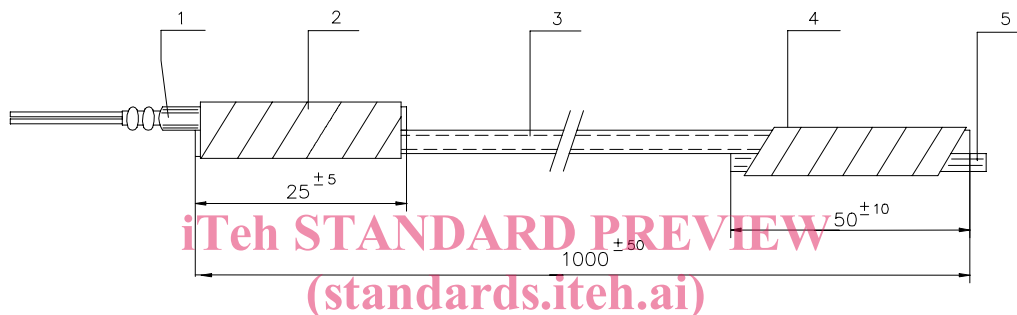
Select six pieces of detonating cord, each (1000 ± 50) mm long, one for the preliminary test and five for the determination test.

7 Procedure

7.1 Preliminary test

Attach the detonator A (5.1) to the test piece, such that the base of the detonator is at a distance of 25 ± 5 mm from one end, using adhesive tape. Attach a witness plate (5.3) in contact with the final (50 ± 10) mm of the test piece, at the opposite end to the detonator, using adhesive tape. See Figure 1.

Dimensions in millimetres



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Key

- 1 Detonator
- 2 Adhesive tape
- 3 Detonating cord
- 4 Adhesive tape
- 5 Witness plate

Figure 1 – Assembly of the test piece and detonator

The test piece, the detonator and the witness plate shall rest on the ground in a linear and horizontal arrangement .

Fire the detonator.

Record whether an indentation has been produced on the witness plate.

NOTE For low-energy detonating cord it can be necessary to attach a witness detonator at the far end (in contact with the witness plate) in order to produce an indentation. The way of attaching and the nature of the witness detonator should be recommended by the manufacturer of the detonating cord to be tested.

7.2 Determination

Repeat the procedure described in 7.1 five times but using a detonator B (5.2).

Record if an indentation, similar to that produced in the preliminary test (7.1), has been produced on each of the witness plates.

8 Test report

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

- a) range of equivalent initiating capability of the detonators used for the test;
- b) number of trials out of five determinations in which an indentation on the witness plate was obtained.

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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.

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