



SLOVENSKI STANDARD
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Explosives for civil uses - Part 3: Information to be provided by the manufacturer or his authorised representative to the user

Explosivstoffe für zivile Zwecke - Teil 3: Informationen, die vom Hersteller oder seinem Bevollmächtigten dem Verwender zur Verfügung zu stellen sind

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Explosifs a usage civil - Partie 3: Informations a fournir par le fabricant ou par son représentant a l'utilisateur

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ICS 71.100.30

English version

Explosives for civil uses - Part 3: Information to be provided by the manufacturer or his authorised representative to the user

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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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EUROPÄISCHES KOMITEE FÜR NORMUNG

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Foreword

This document (EN 13857-3:2002) 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of an identical text or by endorsement, at the latest by April 2003, and conflicting national standards shall be withdrawn at the latest by April 2003.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 general standards on *Explosives for civil uses*. The other part of this series is:

prEN 13857-1 *Part 1: Terminology.*

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.

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1 Scope

This European Standard specifies information to be provided by a manufacturer of explosives for civil uses, or his authorised representative, to the user.

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 13763-14, *Explosives for civil uses – Detonators and relays – Part 14: Determination of resistance of electric detonator to the influence of radio frequency radiation.*

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

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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, and the following apply:

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3.1 authorised representative
person or company authorised by the manufacturer of the explosive and acting on behalf of the manufacturer

3.2 manufacturer
person or company responsible for the production of explosives which are intended to be supplied to another person or company for further supply or use

3.3 user
person or company that obtains explosives from another person or company for further supply or use

4 Information to be provided by the manufacturer or his authorised representative to the user

4.1 General

The information to be provided by the manufacturer or his authorised representative to the user shall be divided into:

- general information on explosives for civil uses (see 4.2); and
- additional information for each product group (see 4.3 to 4.6).

NOTE Other information can also be required under national regulations.

4.2 General information on explosives for civil uses

4.2.1 Information on the suitability of explosives for use in particular conditions

Examples of information on the suitability of explosives for use in particular conditions are as follows:

- whether the explosive is recommended for use above ground only;
- whether the explosive is suitable for use in locations where there may be a flammable dust cloud and/or flammable gas hazard;
- the range of temperature over which the explosive may be used;
- the range of pressures over which the explosive may be used;
- whether the explosive is suitable for use in a moist atmosphere;
- whether the explosive is suitable for use under water.

NOTE National regulations can require authorisation by a national authority for use of a particular product in certain conditions.

4.2.2 Information on shelf life

A statement indicating the shelf life of the explosive (the recommended date up to which the explosive may be used).

NOTE The shelf life of the explosive can be specified by a national authority.

4.2.3 Information on storage

Examples of information on storage are as follows:

- "Do not store at temperatures above (below) °C";
- "Do not store in a relative humidity above%";
- "Store at a range of temperature and/or humidity of ..."

4.2.4 Information on disposal

An example of information on disposal of explosives is as follows:

- burn explosive substances in small quantities of.....g in an open fire in a suitably designated burning ground.

NOTE National Regulations can apply specific provisions for disposal of explosives.

4.3 Additional information on high explosives

4.3.1 Information on physical form and dimensions

Examples of information on physical form and dimensions are as follows:

- whether the explosive should be used in cartridged / bulk form only;
- the minimum diameter of the cartridges in millimetres;
- the minimum diameter of the shothole in millimetres (for bulk explosives only);
- the minimum thickness of the explosives' layer in millimetres (for explosives used in sheets, e.g. for explosive welding).

4.3.2 Information on initiation

Examples of information on initiation are as follows:

- “for reliable initiation a detonator with minimum equivalent initiating capability ofshould be used”;
- “for reliable initiation detonating cord of minimum equivalent initiating capability of should be used”;
- “for reliable initiation a booster of minimum equivalent initiating capability ofshould be used”.

4.3.3 Information on loading conditions

Examples of information on loading conditions are as follows:

- a recommended method or procedure for safe loading or pumping of the explosives;
- the maximum pressure for pneumatic loading/pumping of the explosive in megapascals (for bulk explosives only).

4.3.4 Information on suitability for use in wet conditions (if applicable)

Examples of information on suitability for use in wet conditions are as follows:

- "suitable for use in a moist atmosphere forh“;
- "suitable for use under water up to a maximum hydrostatic pressure of..... MPa forh“.

4.3.5 Information on suitability for use under high and low temperatures (if applicable)

Examples of information on suitability for use under high and low temperatures are as follows:

- "suitable for use up to a maximum temperature of°C for ...min (or h or d)“;
- "suitable for use down to a minimum temperature of°C for ...min (or h or d)“.

4.3.6 Information on suitability for use at elevated pressure (if applicable)

An example of information on suitability for use at elevated pressure is as follows:

- "suitable for use up to a maximum static pressure ofMPa for ..min (or h or d)“.

4.3.7 Information on characteristic properties

Examples of information on characteristic properties are as follows:

- the nominal density;
- the nominal velocity of detonation;
- the theoretical energy.

4.4 Additional information on detonating cords and safety fuses, and on shock tubes not assembled with detonators

4.4.1 Information on suitability for use in wet conditions (if applicable)

Examples of information on suitability for use in wet conditions are as follows:

- "suitable for use under water up to a maximum hydrostatic pressure of ...MPa for ...h“;

- "suitable for use in wet spaces to be filled with the explosive, if open ends of the cord/fuse in the water are protected against the ingress of water".

4.4.2 Information on suitability for use in high and low temperatures (if applicable)

Examples of information on suitability for use in high and low temperatures are as follows:

- "suitable for use up to a maximum temperature of°C for min (or h or d)";
- "suitable for use down to a minimum temperature of ...°C for ... min (or h or d)".

4.4.3 Information on suitability for use at elevated pressure (if applicable)

An example of information on the suitability for use at elevated pressure is as follows:

- "suitable for use up to a maximum static pressure ofMPa for ...min (or h or d)".

4.4.4 Information for connecting a detonating cord to high explosives or to another detonating cord

Examples of information for connecting a detonating cord to high explosives or to another detonating cord are as follows:

- the minimum connecting length of different pieces of detonating cord, in millimetres;
- the minimum distance between each branch line, in metres.

NOTE This information is only required if the means of connection has an influence on the safe function of the system.

- information on the use of detonating cords with a low explosives weight in g/m when they are intended as signal conductors only;
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- information on the use of detonating cords with a high explosives weight in g/m when they are intended to act as a blasting explosive.

4.4.5 Information on characteristic properties

Examples of information on characteristic properties are as follows:

- the nominal explosives weight in grams per metre (detonating cords only);
- the nominal velocity of detonation in metres per second (detonating cords only);
- the nominal duration of burning in seconds per metre (safety fuses only);
- the nominal shock wave velocity in metres per second (shock tubes only).

4.5 Additional information on detonators and relays

4.5.1 Information on devices and accessories for reliable and safe function of the detonator or relay

An example of information on devices and accessories for reliable and safe function of the detonator or relay is as follows:

- the type and capacity of all devices and accessories which are essential for reliable and safe function.

4.5.2 Information on initiating capability of the detonator

An example of information on initiating capability of the detonator is as follows:

- "initiating capability equivalent to that of standard reference detonator no....."