

STN	Výbušniny na civilné použitie Trhaviny, zosilňovacie náplne a výbušné látky Časť 14: Ovodenie detonačnej rýchlosťi trhavín	STN EN 13631-14
		66 8082

Explosives for civil uses - Explosives for blasting, boosters and explosive substances - Part 14: Verification of the velocity of detonation of explosives for blasting

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 01/26

Obsahuje: EN 13631-14:2025

Oznámením tejto normy sa ruší
STN EN 13631-14 (66 8082) z júla 2004

141773

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 13631-14

October 2025

ICS 71.100.30

Supersedes EN 13631-14:2003

English Version

**Explosives for civil uses - Explosives for blasting, boosters
and explosive substances - Part 14: Verification of the
velocity of detonation of explosives for blasting**

Explosifs à usage civil - Explosifs de mine,
renforçateurs et substances explosives - Partie 14 :
Vérification de la vitesse de détonation des explosifs de
mine

Explosivstoffe für zivile Zwecke - Sprengstoffe,
Verstärkungsladungen und Explosivstoffe - Teil 14:
Überprüfung der Detonationsgeschwindigkeit von
Sprengstoffen

This European Standard was approved by CEN on 29 September 2025.

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



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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

Contents

	Page
European foreword	3
1 Scope.....	5
2 Normative references.....	5
3 Terms and definitions.....	5
4 Principle.....	5
5 Apparatus	5
6 Preparation of test sample	6
6.1 General.....	6
6.2 Test without confinement.....	6
6.3 Test under confinement	7
7 Procedure	8
7.1 Attachment of the means to measure the velocity of detonation.....	8
7.1.1 Start-stop method.....	8
7.1.2 Continuous method.....	8
7.2 Attachment of the means of initiation.....	9
7.2.1 Initiation by means of a detonator	9
7.2.2 Initiation by means of a booster.....	10
7.2.3 Initiation by means of a detonating cord	11
7.3 Measurement procedure.....	13
8 Expression of results	13
9 Test report.....	13
Annex ZA (informative) Relationship between this European Standard and the essential requirements of Directive 2014/28/EU relating to the making available on the market and supervision of explosives for civil uses aimed to be covered.....	15
Bibliography	16

European foreword

This document (EN 13631-14:2025) has been prepared by Technical Committee CEN/TC 321 "Explosives for civil uses", the secretariat of which is held by UNE.

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 2026 and conflicting national standards shall be withdrawn at the latest by April 2026.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 13631-14:2003.

EN 13631-14:2025 includes the following significant technical changes with respect to EN 13631-14:2003:

- a) the document title has been changed from "High explosives — Part 14: Determination of velocity of detonation" to "Explosives for civil uses — Explosives for blasting, boosters and explosive substances — Part 14: Determination of velocity of detonation of explosives for blasting";
- b) the Scope has been revised to clarify the covered and not covered explosives;
- c) the normative references have been updated;
- d) Clause 4 "Principle" has been revised and enlarged;
- e) Clause 5 "Apparatus" has been updated and enlarged, especially, to include an alternative velocity of detonation measuring equipment;
- f) Clause 6 "Test pieces" is now called "Preparation of test sample" and has been revised and now provides with specification of the preparation of the test pieces for the test without (6.1) and under confinement (6.2) considering bulk and cartridge explosives;
- g) Clause 7 "Procedure" has been revised and enlarged to provide with separate specifications on the attachment of the means to measure the velocity of detonation (7.1), the attachment of the means of initiation (7.2) and the measurement (7.3);
- h) Figures 2, 3, 5 and 7 have been added to the document, the existing figures have been revised;
- i) Clause 8 "Expression of results" has been added;
- j) the Clause "Test report" does no longer require conformity with EN ISO/IEC 17025 and the information to be provided has been revised and enlarged;
- k) former Annex A "Range of applicability of the test method" has been removed;
- l) Annex ZA has been updated;
- m) the Bibliography has been added and lists, e.g. EN ISO/IEC 17025:2017.

This document has been prepared under a standardization request addressed to CEN by the European Commission. The Standing Committee of the EFTA States subsequently approves these requests for its Member States.

EN 13631-14:2025 (E)

For the relationship with EU Legislation, see informative Annex ZA, which is an integral part of this document.

A list of all parts in the EN 13631 series, published under the general title *Explosives for civil uses — Explosives for blasting, boosters and explosive substances*, can be found on the CEN website.

Any feedback and questions on this document should be directed to the users' national standards body. A complete listing of these bodies can be found on the CEN website.

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

1 Scope

This document specifies two test methods for the determination of the velocity of detonation of explosives for blasting.

This document does not apply to boosters and explosive substances.

NOTE This document does not apply to black powder. The burning rate of black powder is determined in accordance with EN 13938-4:2025.

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.

EN 10025-2:2019, *Hot rolled products of structural steels — Part 2: Technical delivery conditions for non-alloy structural steels*

EN 10216-1:2013, *Seamless steel tubes for pressure purposes — Technical delivery conditions — Part 1: Non-alloy steel tubes with specified room temperature properties*

EN 13630-7:2025, *Explosives for civil uses — Detonating cords and safety fuses — Part 7: Verification of reliability of initiation of detonating cords*

EN 13631-1:2025, *Explosives for civil uses — Explosives for blasting, boosters and explosive substances — Part 1: Requirements*

EN 13857-1:2025, *Explosives for civil uses — Part 1: Vocabulary*

koniec náhľadu – text ďalej pokračuje v platenej verzii STN