

STN	Výbušniny na civilné použitie Streliviny a pohonné hmoty Časť 3: Overenie prechodu tuhých strelivín z deflagrácie do detonácie	STN EN 13938-3 66 8102
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Explosives for civil uses - Propellants and rocket propellants - Part 3: Verification of deflagration to detonation transition of solid gun propellants

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

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EUROPEAN STANDARD
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EN 13938-3

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Supersedes EN 13938-3:2003

English Version

**Explosives for civil uses - Propellants and rocket
propellants - Part 3: Verification of deflagration to
detonation transition of solid gun propellants**

Explosifs à usage civil - Poudres propulsives et
propergols pour propulseurs - Partie 3 : Vérification du
passage de la déflagration à la détonation des poudres
pour armes

Explosivstoffe für zivile Zwecke - Treibladungspulver
und Raketentreibstoffe - Teil 3: Bestimmung des
Überganges der Deflagration in die Detonation

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.

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

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

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European foreword

This document (EN 13938-3:2025) 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 2025, and conflicting national standards shall be withdrawn at the latest by month year April 2025.

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 13938-3:2003.

EN 13938-3:2025 includes the following significant technical changes with respect to EN 13938-3:2003:

- a) the document title has been changed from “Part 3: Determination of deflagration to detonation transition” to “Part 3: Verification of deflagration to detonation transition of solid gun propellants”;
- b) in the Scope it has been clarified that the document only applies to solid gun propellants;
- c) the normative references have been updated;
- d) the Clause 4 “Principle” has been added;
- e) the Clause “Apparatus” has been revised and further detailed – Figure 2 has been removed;
- f) the Clause 6 “Preparation of test sample” now contains the specifications of the former Clause 5 “Test sample”;
- g) the Clause “Procedure” together with former Figure 3 have been revised - the assembly of the steel tube and the determination of the length before detonation have been further clarified;
- h) the Clause 8 “Expression of results” has been added;
- i) the Clause “Test report” does no longer require conformity with EN ISO/IEC 17025 and the information to be provided has been revised in accordance with the revised procedure;
- j) the former Annex A “Range of applicability of the test method” has been removed;
- k) the Annex ZA has been updated;
- l) 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.

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 13938 series, published under the general title *Explosives for civil uses — Propellants and rocket propellants*, can be found on the CEN website.

EN 13938-3:2025 (E)

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 organisations 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 a test method for the verification of the transition from deflagration to detonation of solid gun propellants.

This document applies to solid gun propellants with a particle size of ≤ 8 mm.

This document does not apply to black powder, solid rocket propellants or powder cakes.

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 10027-1:2016, *Designation systems for steels - Part 1: Steel names*

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

koniec náhľadu – text ďalej pokračuje v platenej verzii STN