
Pirotehnični izdelki - Pirotehnični izdelki za vozila - 2. del: Preskusne metode (ISO 14451-2:2013)

Pyrotechnic articles - Pyrotechnic articles for vehicles - Part 2: Test methods (ISO 14451-2:2013)

Pyrotechnische Gegenstände - Pyrotechnische Gegenstände für Fahrzeuge - Teil 2: Prüfverfahren (ISO 14451-2:2013)

Articles pyrotechniques - Articles pyrotechniques pour véhicules - Partie 2: Méthodes d'essai (ISO 14451-2:2013)

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Ta slovenski standard je istoveten z: EN ISO 14451-2:2013

ICS:

43.040.99 Drugi sistemi za cestna vozila Other road vehicle systems

71.100.30 Eksplozivi. Pirotehnika Explosives. Pyrotechnics

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 14451-2

March 2013

ICS 43.040.80

English Version

**Pyrotechnic articles - Pyrotechnic articles for vehicles - Part 2:
Test methods (ISO 14451-2:2013)**

Articles pyrotechniques - Articles pyrotechniques pour
véhicules - Partie 2: Méthodes d'essai (ISO 14451-2:2013)

Pyrotechnische Gegenstände - Pyrotechnische
Gegenstände für Fahrzeuge - Teil 2: Prüfverfahren (ISO
14451-2:2013)

This European Standard was approved by CEN on 9 February 2013.

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

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

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Contents	Page
Foreword	3
Annex ZA (informative) Relationship between this European Standard and the Essential Requirements of EC Directive 2007/23/EC on the placing on the market of pyrotechnic articles	4

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Foreword

This document (EN ISO 14451-2:2013) has been prepared by Technical Committee CEN/TC 212 "Pyrotechnic articles" the secretariat of which is held by NEN, in collaboration with Technical Committee ISO/TC 22 "Road vehicles".

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 September 2013, and conflicting national standards shall be withdrawn at the latest by September 2013.

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

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.

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

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

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The text of ISO 14451-2:2013 has been approved by CEN as EN ISO 14451-2:2013 without any modification.

Annex ZA (informative)

Relationship between this European Standard and the Essential Requirements of EC Directive 2007/23/EC on the placing on the market of pyrotechnic articles

This European Standard has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association to provide one means of conforming to Essential Requirements of the New Approach Directive 2007/23/EC on the placing on the market of pyrotechnic articles.

Once this standard is cited in the Official Journal of the European Union under that Directive and has been implemented as a national standard in at least one Member State, compliance with the normative clauses of this standard given in Table ZA.1 confers, within the limits of the scope of this standard, a presumption of conformity with the corresponding Essential Requirements of that Directive and associated EFTA regulations.

Table ZA.1 — Correspondence between this European Standard and Directive 2007/23/EC on the placing on the market of pyrotechnic articles (1 of 2)

Clause(s)/sub-clause(s) of this document	Essential Safety Requirements (ESRs) of Directive 2007/23/EC	Qualifying remarks/Notes
4.7, 4.8, 4.9	(1)	Note: It is taken into account that the intended purpose of the pyrotechnic article is to function in a vehicle in case of accidents
4.1	(2)	Reference: Directive 2000/53/EC
4.9	(3) 1st sentence	
4.9	(3) 2nd and 3rd sentences	Note: It is taken into account that the intended purpose of the pyrotechnic article is to function in a vehicle in case of accidents
4.1	(3a)	
4.3, 4.4	(3b)	
4.2, 4.3, 4.5	(3c)	
4.4	(3d)	
4.4	(3e)	
4.3, 4.4	(3f)	
4.5	(3g)	
4.1	(3h)	See also ISO 14451-3
4.2	(3i)	

Table ZA.1 — (2 of 2)

Clause(s)/sub-clause(s) of this document	Essential Safety Requirements (ESRs) of Directive 2007/23/EC	Qualifying remarks/Notes
4.1	(3j)	
4.2, 4.3, 4.5	(3) Last sentence	
4.1	(4a)	
4.1	(4b)	
4.1, 4.9	(5 B.1)	
4.1	(5 B.2)	
4.5, 4.6	(5 B.3)	
	(5 B.4)	Not applicable
4.7	(5 C.1)	
4.5	(5 C.2)	
4.5	(5 C.3)	
	(5 C.4)	Not applicable
	(5 C.5)	Not applicable
4.1	(5 C.6)	
4.5	(5 C.7)	

WARNING — Other requirements and other EU Directives may be applicable to the product(s) falling within the scope of this part of EN ISO 14451.

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INTERNATIONAL
STANDARD

ISO
14451-2

First edition
2013-03-15

**Pyrotechnic articles — Pyrotechnic
articles for vehicles —**

**Part 2:
Test methods**

Articles pyrotechniques — Articles pyrotechniques pour véhicules —

Partie 2: Méthodes d'essai
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Contents

Page

Foreword.....	iv
1 Scope.....	1
2 Normative references.....	1
3 Terms and definitions.....	1
4 Test methods.....	1
4.1 Verification of design and documentation.....	1
4.2 Drop test.....	2
4.3 Vibration and temperature test.....	3
4.4 Thermal humidity cycling test.....	5
4.5 Electrostatic discharge (ESD) test.....	6
4.6 Fire test.....	10
4.7 Igniter test.....	12
4.8 Tank test.....	12
4.9 Functioning test.....	13
5 Recording.....	13
Annex A (normative) Definition of temperature build-up time, t_e.....	14
Annex B (normative) Probit test (PBBS test).....	16
Annex C (normative) Bruceton method.....	22
Bibliography.....	25

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 (standards.iteh.ai)

[SIST EN ISO 14451-2:2013](https://standards.iteh.ai/catalog/standards/sist/b3c1098d-87a6-4605-9498-24c8d88514a3/sist-en-iso-14451-2-2013)

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ISO 14451-2:2013(E)

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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

ISO 14451-2 was prepared by the European Committee for Standardization (CEN) Technical Committee CEN/TC 212, *Pyrotechnic articles*, in collaboration with Technical Committee ISO/TC 22, *Road vehicles*, Subcommittee SC 12, *Passive safety crash protection systems*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

ISO 14451 consists of the following parts, under the general title *Pyrotechnic articles — Pyrotechnic articles for vehicles*:

- STANDARD PREVIEW**
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- *Part 1: Terminology*
 - *Part 2: Test methods* <https://standards.iteh.ai/catalog/standards/sist/b3c1098d-87a6-4605-9498-24c8d88514a3/sist-en-iso-14451-2-2013>
 - *Part 3: Labelling*
 - *Part 4: Requirements and categorization for micro gas generators*
 - *Part 5: Requirements and categorization for airbag gas generators*
 - *Part 6: Requirements and categorization for airbag modules*
 - *Part 7: Requirements and categorization for seatbelt pretensioners*
 - *Part 8: Requirements and categorization for igniters*
 - *Part 9: Requirements and categorization for actuators*
 - *Part 10: Requirements and categorization for semi-finished products*