
**Pirotehnični izdelki - Pirotehnični izdelki za vozila - 9. del: Zahteve za aktuatorje
(ISO 14451-9:2013)**

Pyrotechnic articles - Pyrotechnic articles for vehicles - Part 9: Requirements for
actuators (ISO 14451-9:2013)

Pyrotechnische Gegenstände - Pyrotechnische Gegenstände für Fahrzeuge - Teil 9:
Anforderungen an Aktuatoren (ISO 14451-9:2013)

Articles pyrotechniques - Articles pyrotechniques pour véhicules - Partie 9: Exigences
relatives aux actionneurs (ISO 14451-9:2013)

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ICS:

43.040.80	Varnostne naprave in sistemi za zadrževanje	Safety installations and restraint systems
71.100.30	Eksplozivi. Pirotehnika	Explosives. Pyrotechnics

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 14451-9

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ICS 43.040.80

English Version

**Pyrotechnic articles - Pyrotechnic articles for vehicles - Part 9:
Requirements and categorization for actuators (ISO 14451-
9:2013)**

Articles pyrotechniques - Articles pyrotechniques pour
véhicules - Partie 9: Exigences relatives aux actionneurs et
leur classement en catégories (ISO 14451-9:2013)

Pyrotechnische Gegenstände - Pyrotechnische
Gegenstände für Fahrzeuge - Teil 9: Anforderungen und
Kategorisierung von Aktuatoren (ISO 14451-9:2013)

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.

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Foreword

This document (EN ISO 14451-9:2013) 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 14451-9:2013 has been approved by CEN as EN ISO 14451-9:2013 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
4.8	(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
	(2)	See ISO 14451-2
4.8	(3) 1st sentence	
4.8	(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
4.2	(3a)	
4.5	(3b)	
4.3, 4.4, 4.6	(3c)	
4.5	(3d)	
4.5	(3e)	
4.4, 4.5	(3f)	
4.6	(3g)	
	(3h)	See ISO 14451-3
4.3, 4.5	(3i)	
	(3j)	See ISO 14451-2
4.3, 4.4, 4.6	(3) Last sentence	
1	(4a)	
1	(4b)	

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
4.2, 4.8, 6	(5 B.1)	
	(5 B.2)	See ISO 14451-2 and ISO 14451-3
4.6, 4.7	(5 B.3)	
	(5 B.4)	Not applicable
	(5 C.1) to (5 C.5)	Not applicable
4.2	(5 C.6)	
	(5 C.7)	Not applicable

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

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Pyrotechnic articles — Pyrotechnic articles for vehicles —

Part 9: Requirements and categorization for actuators

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*Articles pyrotechniques — Articles pyrotechniques pour véhicules —
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