

Ochranné odevy pre používateľov ručných reťazových píl Časť 5: Skúšobné metódy a požiadavky na vyhotovenie ochranných galoší (ISO 11393-5: 2018)

STN EN ISO 11393-5

83 2720

Protective clothing for users of hand-held chainsaws - Part 5: Performance requirements and test methods for protective gaiters (ISO 11393-5:2018)

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. 11/19

Rozpracované prekladom.

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English Version

Protective clothing for users of hand-held chainsaws - Part 5: Performance requirements and test methods for protective gaiters (ISO 11393-5:2018)

Vêtements de protection pour utilisateurs de scies à chaîne tenues à la main - Partie 5: Exigences de performance et méthodes d'essai pour guêtres de protection (ISO 11393-5:2018)

Schutzkleidung für Benutzer von handgeführten Kettensägen - Teil 5: Prüfverfahren und Leistungsanforderungen für Schutzgamaschen (ISO 11393-5:2018)

This European Standard was approved by CEN on 18 July 2019.

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EN ISO 11393-5:2019 (E)

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European foreword

This document (EN ISO 11393-5:2019) has been prepared by Technical Committee ISO/TC 94 "Personal safety - Personal protective equipment" in collaboration with Technical Committee CEN/TC 162 "Protective clothing including hand and arm protection and lifejackets" the secretariat of which is held by DIN.

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of an identical text or by endorsement, at the latest by January 2020, and conflicting national standards shall be withdrawn at the latest by January 2020.

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 381-8:1997 and EN 381-9:1997.

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 the relationship with EU Directive(s) 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, 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, Turkey and the United Kingdom.

Endorsement notice

The text of ISO 11393-5:2018 has been approved by CEN as EN ISO 11393-5:2019 without any modification.

Annex ZA (informative)

Relationship between this European Standard and the essential requirements of REGULATION (EU) 2016/425 aimed to be covered

This European Standard has been prepared under a Commission's standardization request to provide one voluntary means of conforming to essential requirements of Regulation (EU) 2016/425 on the approximation of the laws of the Member States relating to personal protective equipment.

Once this standard is cited in the Official Journal of the European Union under that Regulation, 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 Regulation and associated EFTA regulations.

Table ZA.1 — Correspondence between this European Standard and Annex II of the REGULATION (EU) 2016/425 Personal Protective Equipment

Essential Requirements of REGULATION (EU) 2016/425	Clause(s)/sub-clause(s) of this EN	Remarks/Notes
1.1.1 Ergonomics	4.7	
1.1.2.1. Optimum level of protection	4.7	
1.1.2.2. Classes of protection appropriate to different levels of risk	4.5	
1.2.1 Absence of inherent risks and other nuisance factors	4.2.1; 4.2.3; 4.4	
1.2.1.1. Suitable constituent materials	4.3	
1.2.1.3. Maximum permissible user impediment	4.7	
1.3.1 Adaptation of PPE to user morphology	6.5	
1.3.2. Lightness and strength	4.2.2	
1.3.3 Compatibility of different classes or types of PPE designed for simultaneous use	8; 10	
1.4. Manufacturer's instructions and information	10	
2.1. PPE incorporating adjustment systems	4.7	
2.4. PPE subject to ageing	8; 10	

2.12. PPE bearing one or more identification markings or indicators directly or indirectly relating to health and safety	9	
3.3 Protection against mechanical injuries	4.6	

WARNING 1 — Presumption of conformity stays valid only as long as a reference to this European Standard is maintained in the list published in the Official Journal of the European Union. Users of this standard should consult frequently the latest list published in the Official Journal of the European Union.

WARNING 2 — Other Union legislation may be applicable to the product(s) falling within the scope of this standard.

INTERNATIONAL STANDARD

ISO 11393-5

Second edition 2018-09

Protective clothing for users of handheld chainsaws —

Part 5:

Performance requirements and test methods for protective gaiters

Vêtements de protection pour utilisateurs de scies à chaîne tenues à la main —

Partie 5: Exigences de performance et méthodes d'essai pour guêtres de protection



ISO 11393-5:2018(E)



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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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: www.iso.org/iso/foreword.html.

This document was prepared by the European Committee for Standardization (CEN) Technical Committee CEN/TC 162, *Protective clothing including hand and arm protection and lifejackets*, in collaboration with ISO Technical Committee TC 94, *Personal safety* — *Personal protective equipment*, Subcommittee SC 13, *Protective clothing*, in accordance with the agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This second edition cancels and replaces the first edition (ISO 11393-5:2001), which has been technically revised. The whole document and the Scope have been revised. The main changes compared to the previous edition are as follows:

- in the Introduction, the term "hand-held chainsaws primarily constructed for cutting wood" has been added:
- the normative references have been updated;
- terms and definitions have been added;
- a conjunction of the gaiter to a defined boot for test purposes has become mandatory;
- requirements and test methods for ergonomic properties, twisting resistance, the strength of the attachment system and innocuousness have been added;
- requirements for protective coverage have been changed;
- class 0 has been deleted from the requirements to cut resistance;
- the pre-treatment procedure has been revised.

A list of all parts in the ISO 11393 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

This document forms part of a series concerned with personal protective equipment (PPE) designed to protect against the risks arising from the use of hand-held chainsaws primarily constructed for cutting wood.

No PPE can ensure a 100 % protection against cutting from a hand-held chainsaw. Nevertheless, experience has shown that it is possible to design PPE that offers a certain degree of protection.

Different functional principles may be applied in order to give protection. These include:

- a) chain slipping: on contact the chain does not cut the material;
- b) clogging: fibres are drawn by the chain into the drive sprocket and block chain movement;
- c) chain braking: fibres have a high resistance to cutting and absorb rotational energy, thereby reducing the chain speed.

Often more than one principle is applied.

Protective clothing for users of hand-held chainsaws —

Part 5:

Performance requirements and test methods for protective gaiters

1 Scope

This document specifies requirements and test methods for assessing the resistance to cutting of gaiters by hand-held chainsaws and other properties. It includes a requirement and a test method for assessing the strength of underfoot straps of gaiters.

This document is applicable to gaiters used in conjunction with safety footwear with a steel toecap conforming to ISO 20345 design "C" or "D". These gaiters are designed to be used only in association with a defined model of footwear and tested together.

NOTE These products are intended, but are not limited, to be used in combination with a defined model of orthopaedic footwear.

This document does not apply to gaiters intended for use in situations where there is a significant risk of tripping, such as tree climbing or in forests.

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.

ISO 7000, Graphical symbols for use on equipment — Registered symbols

ISO 11393-1, Protective clothing for users of hand-held chainsaws — Part 1: Test rig driven by a flywheel for testing resistance to cutting by a chainsaw

ISO 11393-2:2018, Protective clothing for users of hand-held chainsaws — Part 2: Performance requirements and test methods for leg protectors

ISO 11393-3:2018, Protective clothing for users of hand-held chainsaws — Part 3: Test methods for footwear

ISO 13688:2013, Protective clothing — General requirements

koniec náhľadu – text ďalej pokračuje v platenej verzii STN