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Protective gloves - General requirements and test methods (ISO 21420:2020)

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. 05/20

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English Version

Protective gloves - General requirements and test methods (ISO 21420:2020)

Gants de protection - Exigences générales et méthodes d'essai (ISO 21420:2020)

Schutzhandschuhe - Allgemeine Anforderungen und Prüfverfahren (ISO 21420:2020)

This European Standard was approved by CEN on 24 September 2019.

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

EN ISO 21420:2020 (E)

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European foreword

This document (EN ISO 21420:2020) 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 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of an identical text or by endorsement, at the latest by September 2020, and conflicting national standards shall be withdrawn at the latest by September 2020.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 420:2003+A1:2009.

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 21420:2020 has been approved by CEN as EN ISO 21420:2020 without any modification.

Annex ZA

(informative)

Relationship between this European Standard and the Essential Requirements of Regulation 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 EEC 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 Regulation 2016/425

Essential Health and Safety Requirements of Regulation 2016/425, Annex II	Clause(s)/sub- clause(s) of this EN	Remarks/Notes
1.2.1.1 Innocuousness of PPE- suitable constituent materials	4.2	
1.2.1.3 Maximum permissible user impediment	5.2	
1.4 Information supplied by the manufacturer	7.3	
2.4 PPE subject to ageing	4.3 7.2.1.1 f) & 7.2.2 g)	
2.5 PPE which may be caught up during use	7.3.7	
2.6 PPE for use in potentially explosive atmosphere	4.4	
2.12 PPE bearing one or more identification or recognition marks directly or indirectly relating to health and safety	7.2.1.1 d) — 7.2.2 e) — 7.3.5	

INTERNATIONAL STANDARD

ISO 21420

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Protective gloves — General requirements and test methods

Gants de protection — Exigences générales et méthodes d'essai



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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.

ISO 21420 was prepared by Technical Committee ISO/TC 94, *Personal safety* — *Protective clothing and personal protective equipment*, Subcommittee SC 13, *Protective clothing*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 162, *Protective clothing including hand and arm protection and lifejackets*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

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.

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Introduction

This document is a reference standard to be referred to as appropriate by the specific standards relevant or applicable to protective gloves.

Protective gloves — General requirements and test methods

1 Scope

This document specifies the general requirements and relevant test procedures for glove design and construction, innocuousness, comfort and efficiency, as well as the marking and information supplied by the manufacturer applicable to all protective gloves.

It can also apply to arm protectors and gloves permanently incorporated in containment enclosures.

Gloves and hand protectors such as mittens, pot holders and arm protection are covered by this document.

This document does not address the protective properties of gloves and therefore is not used alone but only in combination with the appropriate specific standard(s). A non-exhaustive list of these standards is given in the Bibliography.

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 3071, Textiles — Determination of pH of aqueous extract

ISO 3758, Textiles — Care labelling code using symbols

ISO 4045:2018, Leather — Chemical tests — Determination of pH and difference figure

ISO 7000:2014, Graphical symbols for use on equipment — Registered symbols

ISO 11092, Textiles — Physiological effects — Measurement of thermal and water-vapour resistance under steady-state conditions (sweating guarded-hotplate test)

ISO 14268, Leather — Physical and mechanical tests — Determination of water vapour permeability

ISO 14362-1, Textiles — Methods for determination of certain aromatic amines derived from azo colorants — Part 1: Detection of the use of certain azo colorants accessible with and without extracting the fibres

ISO/TS 16190, Footwear — Critical substances potentially present in footwear and footwear components — Test method to quantitatively determine polycyclic aromatic hydrocarbons (PAH) in footwear materials

ISO 17075-1, Leather — Chemical determination of chromium(VI) content in leather — Part 1: Colorimetric method

ISO 17075-2, Leather — Chemical determination of chromium(VI) content in leather — Part 2: Chromatographic method

ISO 17234-1, Leather — Chemical tests for the determination of certain azo colorants in dyed leathers — Part 1: Determination of certain aromatic amines derived from azo colorants

ISO 20344:2011, Personal protective equipment — Test methods for footwear

ISO 23388, Protective gloves against mechanical risks

EN 1811+A1:2015, Reference test method for release of nickel from post assemblies which are inserted into pierced parts of the human body and articles intended to come into direct and prolonged contact with the skin

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EN 16350, Protective gloves — Electrostatic properties

EN 16778, Protective gloves — Determination of dimethylformamide in gloves

IEC 60417:2002, Graphical symbols for use on equipment

koniec náhľadu – text ďalej pokračuje v platenej verzii STN