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| STN | Zdravotnícke rukavice na jedno použitie. Časť 3: Požiadavky a skúšanie na biologické hodnotenie. | STN EN 455-3 63 7414 |
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Medical gloves for single use - Part 3: Requirements and testing for biological evaluation

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. 08/15

Obsahuje: EN 455-3:2015

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English Version

Medical gloves for single use - Part 3: Requirements and testing for biological evaluation

Gants médicaux non réutilisables - Partie 3 : Exigences et
essais pour évaluation biologique

Medizinische Handschuhe zum einmaligen Gebrauch - Teil
3: Anforderungen und Prüfung für die biologische
Bewertung

This European Standard was approved by CEN on 24 January 2015.

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
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Foreword

This document (EN 455-3:2015) has been prepared by Technical Committee CEN/TC 205 "Non-active medical devices", 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of an identical text or by endorsement, at the latest by October 2015 and conflicting national standards shall be withdrawn at the latest by October 2015.

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 supersedes EN 455-3:2006.

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

With respect to EN 455-3:2006 the following changes are:

- a) standard was specified to relevant parts of EN ISO 10993 for Biological evaluation of medical devices;
- b) normative references revised;
- c) EN 980 was replaced by EN ISO 15223-1;
- d) subclause 4.2 "chemicals" was specified;
- e) subclause 4.4 specified as "powder-free gloves";
- f) level "As Low As Reasonably Practicable" (ALARP) removed in the whole standard;
- g) subclause 4.6 "labelling" specified;
- h) symbol for products containing natural latex (Figure 1) removed;
- i) the references in Annex B revised;
- j) Correspondence between this European Standard and Directive 89/686/EEC on Personal Protective Equipment made (see Annex ZA).

EN 455 consists of the following parts under the general title "*Medical gloves for single use*":

- *Part 1: Requirements and testing for freedom from holes;*
- *Part 2: Requirements and testing for physical properties;*
- *Part 3: Requirements and testing for biological evaluation;*
- *Part 4: Requirements and testing for shelf life determination.*

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,

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Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

Introduction

Adverse reactions to proteins in latex products have been reported over several years in variable rates of prevalence. Additionally, adverse reactions due to chemicals, lubricants, sterilization residues, pyrogens or other residues are described in the scientific literature. Adverse reactions are most often reported due to gloves made from natural rubber latex, but some of the reactions can also be seen due to gloves made from synthetic polymers.

EN ISO 10993 specifies requirements and test methods for biological evaluation of medical devices. However it does not specifically address adverse reactions that can result from the use of medical gloves (e.g, immediate type allergies). These adverse reactions occur to specific allergens that can be present in gloves. Several factors contribute to the risk of reaction:

- a) the duration and frequency of skin contact with gloves;
- b) the exposure to the allergens through direct contact to mucosa and skin (especially when not intact) and by inhalation of particles;
- c) the occlusive nature of the glove/skin interaction during glove use.

This part of EN 455 gives requirements and test methods for evaluation of the biological safety of medical gloves as part of a risk management process, in accordance with EN ISO 10993.

1 Scope

This part of EN 455 specifies requirements for the evaluation of biological safety for medical gloves for single use. It gives requirements for labelling and the disclosure of information relevant to the test methods used.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 1041:2008+A1:2013, *Information supplied by the manufacturer of medical devices*

EN ISO 10993-1:2009, *Biological evaluation of medical devices - Part 1: Evaluation and testing within a risk management process (ISO 10993-1:2009)*

EN ISO 10993-5:2009, *Biological evaluation of medical devices - Part 5: Tests for in vitro cytotoxicity (ISO 10993-5:2009)*

EN ISO 10993-10:2013, *Biological evaluation of medical devices -Part 10: Tests for irritation and skin sensitization (ISO 10993-10:2010)*

EN ISO 14971:2012, *Medical devices - Application of risk management to medical devices (ISO 14971:2007, Corrected version 2007-10-01)*

EN ISO 15223-1:2012, *Medical devices - Symbols to be used with medical device labels, labelling and information to be supplied - Part 1: General requirements (ISO 15223-1:2012)*

EN ISO 21171:2006, *Medical gloves - Determination of removable surface powder (ISO 21171:2006)*

European Pharmacopoeia, General chapter 2.6.14 Bacterial Endotoxins: publisher EDQM - Council of Europe; 7 allée Kastner, CS 30026, F-67081 Strasbourg; France <http://www.edqm.eu/>

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