

STN	Metóda simulácie zrýchleného opotrebenia a korózie na detekciu uvoľňovania niklu z pokovovaných predmetov	STN EN 12472 03 8216
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Method for the simulation of accelerated wear and corrosion for the detection of nickel release from coated items

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. 02/21

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EUROPEAN STANDARD

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Supersedes EN 12472:2005+A1:2009

English Version

Method for the simulation of accelerated wear and corrosion for the detection of nickel release from coated items

Méthode de simulation de l'usure et de la corrosion accélérées pour la détermination de la teneur en nickel libéré par les objets revêtus

Simulierte Abrieb- und Korrosionsprüfung zum beschleunigten Nachweis der Nickelabgabe von mit Auflagen versehenen Gegenständen

This European Standard was approved by CEN on 24 May 2020.

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

EN 12472:2020 (E)

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European foreword

This document (EN 12472:2020) has been prepared by Technical Committee CEN/TC 347 “Methods for analysis of allergens”, the secretariat of which is held by SNV.

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of an identical text or by endorsement, at the latest by March 2021, and conflicting national standards shall be withdrawn at the latest by March 2021.

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 12472:2005+A1:2009.

This document includes the revised text of EN 12472:2005+A1:2009, as well as the changes proposed by CEN/TC 170 regarding spectacle frames and sunglasses.

The major changes are:

- reference to Regulation (EC) No 1907/2006 (REACH) instead of Directive 94/27/EC;
- use of the term article instead of items, in order to adopt the use of terms in the REACH Regulation;
- update of normative references;
- clarification of articles covered by the scope of this document;
- clarification of concentration of the lactic acid stock solution;
- requirements for granules have been changed;
- A.3 regarding spectacle frames has been updated;
- the document has been editorially updated.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association.

According to the CEN-CENELEC Internal Regulations, the national standards organisations 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.

EN 12472:2020 (E)**Introduction**

The wear and corrosion of objects in contact with the skin depends very much on the composition, environment, and shape of the article and the activities of the person concerned. This procedure attempts to simulate the wear and corrosion on a coated article during two years of normal use. By its nature this is a pragmatic solution to the problems posed by the evaluation of coated articles in contact with the skin, which may be subject to several kinds and varying degrees of wear.

In order to show compliance with the Commission Regulation (EC) No 1907/2006 (REACH) of the European Parliament and the Council in the current version, articles should be tested in accordance with the appropriate European harmonized standard(s), the references of which have been published by the European Commission in the Official Journal of the European Communities. Currently, these are EN 1811, EN 16128 and this document.

1 Scope

This document specifies a method for the simulation of accelerated wear and corrosion, to be used prior to the detection of nickel release from coated articles that come into direct and prolonged contact with the skin. According to the Commission Regulation (EC) No 1907/2006 (REACH), articles with an outer coating containing nickel and those which are inserted into pierced ears and other parts of the human body are excluded from the scope of this document.

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.

EN 1811, *Reference test method for release of nickel from all 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*

EN 16128, *Ophthalmic optics — Reference method for the testing of spectacle frames and sunglasses for nickel release*

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