



**SLOVENSKI STANDARD
SIST EN ISO 16217:2022**

01-julij-2022

Kozmetika - Metode za preskušanje zaščite pred soncem - Postopek s potopitvijo v vodo za določanje vodoodpornosti (ISO 16217:2020)

Cosmetics - Sun protection test methods - Water immersion procedure for determining water resistance (ISO 16217:2020)

Kosmetische Mittel - Untersuchungsverfahren für Sonnenschutzmittel - Wasserimmersionsverfahren zur Bestimmung der Wasserbeständigkeit (ISO 16217:2020)

Cosmétiques - Méthodes d'essai de protection solaire - Mode opératoire d'immersion dans l'eau pour la détermination de la résistance à l'eau (ISO 16217:2020)

Ta slovenski standard je istoveten z: EN ISO 16217:2021

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71.100.70	Kozmetika. Toaletni pripomočki	Cosmetics. Toiletries
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EUROPEAN STANDARD

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December 2021

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Cosmetics - Sun protection test methods - Water immersion procedure for determining water resistance (ISO 16217:2020)

Cosmétiques - Méthodes d'essai de protection solaire -
Mode opératoire d'immersion dans l'eau pour la
détermination de la résistance à l'eau (ISO
16217:2020)

Kosmetische Mittel - Untersuchungsverfahren für
Sonnenschutzmittel - Wasserimmersionsverfahren zur
Bestimmung der Wasserbeständigkeit (ISO
16217:2020)

This European Standard was approved by CEN on 5 December 2021.

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European foreword

The text of ISO 16217:2020 has been prepared by Technical Committee ISO/TC 217 "Cosmetics" of the International Organization for Standardization (ISO) and has been taken over as EN ISO 16217:2021 by Technical Committee CEN/TC 392 "Cosmetics" the secretariat of which is held by AFNOR.

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of an identical text or by endorsement, at the latest by June 2022, and conflicting national standards shall be withdrawn at the latest by June 2022.

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INTERNATIONAL
STANDARD

ISO
16217

First edition
2020-05

**Cosmetics — Sun protection test
methods — Water immersion
procedure for determining water
resistance**

*Cosmétiques — Méthodes d'essai de protection solaire — Mode
opératoire d'immersion dans l'eau pour la détermination de la
résistance à l'eau*

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ISO 16217:2020(E)

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).

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For an explanation of 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 www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 217, *Cosmetics*.

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.

Cosmetics — Sun protection test methods — Water immersion procedure for determining water resistance

1 Scope

This document specifies a procedure of water immersion for the in vivo determination of the water resistance of sunscreen products.

This document is applicable to products intended to be placed in contact with human skin including any component able to absorb, reflect or scatter UV rays and which, in addition, are designed to be less readily removed from the skin by water and/or during water immersion. It is intended to be read in conjunction with ISO 24444.

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 24444:2019, *Cosmetics — Sun protection test methods — In vivo determination of the sun protection factor (SPF)*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <http://www.electropedia.org/>

3.1

simulated swim test device

spa, whirlpool or similar device designed for water immersion

Note 1 to entry: For the purposes of this document, the simulated swim test device shall be in accordance with [Annex A](#).

3.2

individual water resistance sun protection factor

individual water resistance SPF

SPF_{iwr}

SPF determined after the water immersion step on each subject

Note 1 to entry: SPF_{iwr} is calculated by a simple division of MED_{ipi} by MED_{iui} .

3.3

static sun protection factor

static SPF

SPF without water resistance challenge

Note 1 to entry: This is determined in accordance with ISO 24444.