

Sunscreen products — Evaluation and classification

Amendment No. 1

Revised text amendment

Publishing and Approval Dates

Council of Standards Australia Approval: 9 December 2022

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Summary

This Amendment applies to the following elements:

- Preface
- Clauses 2, 4.1
- Appendix D

Amendment Details

AS 2604:2021 is amended as follows. The amendments should be inserted in the locations as instructed.

Element	Instruction/New text
Preface	1 <i>Delete</i> fourth paragraph, and <i>replace</i> with the following: The major changes in this edition are as follows: (a) This revision completes the transition of methods for determining broad spectrum, sun protection factor (SPF) and water resistance from local Australian and New Zealand test methods to globally written, agreed and published ISO standards for all participating members to adopt. (b) ISO 24443:2012, <i>Determination of sunscreen UVA photoprotection in vitro</i>, has been superseded by ISO 24443:2021 <i>Cosmetics — Determination of sunscreen UVA photoprotection in vitro</i>. The key changes are — (i) the addition of a method for calculation of critical wavelength; (ii) the addition of new sunscreen standards for sunscreen determinations for higher performing broad spectrum products; and (iii) changes to account for photo-stability of test products by exposing them to specific measured doses of ultraviolet (UV) radiation prior to testing. (c) ISO 24444:2010, <i>Cosmetics — Sun protection test methods — In vivo determination of the sun protection factor (SPF)</i>, has been superseded by ISO 24444:2019. The key change is to improve the reproducibility and reliability of this test method. Specific changes include — (i) replacement of the Fitzpatrick Skin Type for volunteer selection by a colorimetric instrument measurement; (ii) the addition of three new standard sunscreens P5, P6 and P8 for use with sunscreen tests for SPF 25 and above; and

Element	Instruction/New text
	(iii) photographic examples of erythema responses for grading of results. A sample questionnaire for test subjects is included, removing the need for Appendix E of AS/NZS 2604:2012. (d) The water immersion procedure for the determination of water resistance now follows ISO 16217:2020, <i>Cosmetics — Sun protection test methods — Water immersion procedure for determining water resistance</i>. Australia and New Zealand still retain the 4 h water resistance test period and claim, and continue to determine SPF after immersion as the SPF value to use for labelling SPF. (e) The new and revised ISO standards include normative requirements for standardized formats for test and results reporting. (f) Clarification of the definition of the difference between Primary and Secondary Sunscreens. This document now advises taking into account the overall presentation and purpose of a sunscreen when assigning a sunscreen as a primary or secondary sunscreen. (g) Introduction of instructions for the recommended method of application of sunscreen aerosols and sunscreen spray pump packs to ensure even and generous dosing applied from the correct distance and under optimum conditions while avoiding inhalation. (h) Addition of Appendix D, to provide guidance for testing and labelling, including an ordered sequence of questions to help identify whether a sunscreen is a primary or secondary sunscreen.
Preface	2 Sixth paragraph, <i>delete</i> “ISO 24443, <i>Determination of sunscreen UVA photoprotection in vitro</i>” and <i>replace</i> with the following: ISO 24443, <i>Cosmetics — Determination of sunscreen UVA photoprotection in vitro</i>
CI 2	<i>Delete</i> “ISO 24443, <i>Determination of sunscreen UVA photoprotection in vitro</i>” and <i>replace</i> with: ISO 24443, <i>Cosmetics — Determination of sunscreen UVA photoprotection in vitro</i>
CI 4.1	After the second paragraph, <i>add</i> the following: The flowchart in Appendix D provides additional guidance for testing and labelling, including an ordered sequence of questions to help identify whether a sunscreen is a primary or secondary sunscreen.
App D (new)	After Appendix C, <i>add</i> the following: Appendix D (informative) Guidance for testing and labelling The flowchart below provides additional guidance for testing and labelling.