

Second edition
2023-06

Corrected version
2023-10

**Information and documentation —
Permanence and durability of writing,
printing and copying on paper —
Requirements and test methods**

*Information et documentation — Permanence et durabilité de
l'écriture, de l'impression et de la reprographie sur des documents
papier — Prescriptions et méthodes d'essai*

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Reference number
ISO 11798:2023(E)

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Published in Switzerland

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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 document 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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This document was prepared by Technical Committee ISO/TC 46, *Information and documentation*, Subcommittee SC 10, *Requirements for document storage and conditions for preservation*.

This second edition cancels and replaces the first edition (ISO 11798:1999), which has been technically revised.

The main changes are as follows.

- The reference material used for the testing of mechanical properties is defined and shall, prior to testing, be handled according to [4.5](#).
- CIELAB measurements replaces optical density measurements, i.e. evaluation of monocoloured printing shall be performed by CIELAB measurements. Accordingly, microdensitometers or densitometers are no longer needed.
- Testing of colour fastness ([5.2](#) and [6.2](#)) shall be followed to evaluate recording (monocoloured and multicoloured) for lightfastness ([6.4](#)), water resistance ([6.5](#)) and resistance to heat ([6.8](#)).
- [Table 1](#) (see [5.1](#)) presents, for printing devices, elaborated CIELAB lightness and colour shift requirements ΔL^* , Δa^* , Δb^* and, in addition, a new requirement of ΔE_{ab}^* (Euclidean distance between two CIELAB coordinates).
- [Table 2](#) (see [5.1](#)) presents, for pens and stamps, requirement of maximum CIELAB lightness change ΔL^* .
- Abrasion resistance (formerly referred to as *resistance to wear*) shall be evaluated by the degree of abrasion ([6.7](#)) and is determined by CIELAB measurements prior to, and after, abrasion.

- Detailed descriptions of specimen preparation for pens and stamps, three printout templates for specimen preparation from printers and copying machines and reporting forms are given in Annexes.

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.

This corrected version of ISO 11798:2023 incorporates the following corrections:

- The UV-light dose value given in [6.4](#) has been corrected from "0,108 J/m²" to "10,8 MJ/m²".

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