



**International  
Standard**

**ISO 18928**

**Imaging materials — Unprocessed  
photographic films and papers —  
Storage practices**

*Matériaux pour l'image — Films et papiers photographiques non  
traités — Pratiques de stockage*

**Fourth edition  
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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 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](http://www.iso.org/directives)).

ISO draws attention to the possibility that the implementation of this document may involve the use of (a) patent(s). ISO takes no position concerning the evidence, validity or applicability of any claimed patent rights in respect thereof. As of the date of publication of this document, ISO had not received notice of (a) patent(s) which may be required to implement this document. However, implementers are cautioned that this may not represent the latest information, which may be obtained from the patent database available at [www.iso.org/patents](http://www.iso.org/patents). ISO shall not be held responsible for identifying any or all such patent rights.

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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](http://www.iso.org/iso/foreword.html).

This document was prepared by Technical Committee ISO/TC 42, *Photography*.

This fourth edition cancels and replaces the third edition (ISO 18928:2013) which has been technically revised.

The main changes are as follows:

- typographical errors corrected in [Annex A](#);
- specific reference made to silver halide products to distinguish these from other imaging materials.
- updates to references and storage conditions to reflect contemporary sensitised products. Specifically, the short-term storage condition has been revised down from 21 °C to the recommendations on current Black and White films. A note has been added on the long-term benefits of storage in a refrigerator.

A list of all parts in the ISO 18900 series can be found on the ISO website.

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](http://www.iso.org/members.html).

## Introduction

International Standards have been written specifying the recommended practices for the storage of the following chemically processed silver halide products:

- safety photographic film (see ISO 18911);
- reflection prints (see ISO 18920);
- photographic plates (see ISO 18918).

This document is concerned with the storage of unprocessed silver halide photographic materials. While many of the recommendations for unprocessed and processed storage are very similar, there are some important differences. These include the very beneficial effects of low temperature and the harmful effects of adverse storage and radiation. ISO guidance is that each document should explicitly consider the relevant stakeholders. The stakeholders identified in this project are

- photofinishing labs, wholesalers, retailers and others in the silver halide material supply chain, and
- end users of silver halide materials such as professional and amateur photographers.

The ISO commitment to the consideration of climate science is embodied in the London Declaration. In line with this, some guidance is given on the effect of high temperature events on storage conditions.

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