
Upodobitveni materiali - Obstočnost - Pojmovnik

Imaging materials - Permanence - Vocabulary

Matériaux pour image - Permanence - Vocabulaire

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37.040.01	Fotografija na splošno	Photography in general

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INTERNATIONAL STANDARD

**ISO
18913**

First edition
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Imaging materials — Permanence — Vocabulary

Matériaux pour image — Permanence — Vocabulaire

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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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 18913 was prepared by Technical Committee ISO/TC 42, *Photography*.

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Introduction

This International Standard is one of a series dealing with the physical properties and stability of imaging materials.

In order to facilitate identification of these International Standards, they are to be assigned new numbers within the block from 18900 to 18999 (see Annex A).

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Imaging materials — Permanence — Vocabulary

1 Scope

This International Standard establishes a vocabulary of terms and definitions used in respect of the permanence of imaging materials and in standards related to permanence. These terms and definitions are generic and are applicable to the entire imaging industry. For terms and definitions specific to particular applications, refer to industry standards.

2 Normative references

The following referenced documents are indispensable for the application 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 5-3, *Photography — Density measurements — Part 3: Spectral conditions*

ISO 18906, *Imaging materials — Photographic films — Specifications for safety film*

ISO 14644-1, *Cleanrooms and associated controlled environments — Part 1: Classification of air cleanliness*

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3 Terms and definitions

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

3.1

accuracy

closeness of the agreement between the result of a measurement and a true value of the measurement

NOTE 1 Accuracy is a qualitative concept.

NOTE 2 The term **precision** (3.85) should not be used for accuracy.

3.2

album

binder or book structure having front and back covers (usually opaque and rigid) in which pages are bound along one edge either by plastic straps, gluing, sewing, metal posts or rings

3.3

anti-blocking agent

component of a material that provides microscopic bumps on the surface in order to lower contact area, reduce the coefficient of friction, and minimize ferrotyping and the occurrence of **Newton's rings** (3.74)

EXAMPLE Talc, silicates or matte beads.

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3.4

aperture window

opening in the **flange** (3.42) that is used to facilitate threading of magnetic tape on the **hub** (3.50) and inspection of the **wind** (3.114)

3.5

aperture card

card of standard dimensions with one or more openings into which a microfilm frame or frames can be mounted or inserted

3.6

.....

archival medium (deprecated)

recording material that can be expected to retain **information** (3.56) forever, so that such information can be retrieved without significant loss when properly stored

NOTE However, as no such material exists, this is a deprecated term and as such is not to be used in International Standards or system specifications.

3.7

Arrhenius plot

plot of the logarithm of the time for a given change in a characteristic proportional to the reaction rate (dye loss, tensile strength change, D_{\min} yellowing, etc.) versus the reciprocal of the temperature expressed in kelvins

NOTE The Arrhenius plot can be used to predict behaviour at a temperature lower than that at which a test is run.

3.8

base

support in a recording material on which the emulsion layers or magnetic layer (and, if necessary, the back layer) are coated

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3.8.1

cellulose-acetate base

base for recording materials composed mainly of cellulose esters of acetic acid

3.8.2

cellulose-ester base

base for recording materials composed mainly of cellulose esters of acetic, propionic, or butyric acid, or mixtures thereof

3.8.3

polyester base

base for recording materials composed mainly of a polymer of ethylene glycol and terephthalic acid (also referred to as polyethylene terephthalate) or a polymer of ethylene glycol and 2,6-naphthalene-dicarboxylic acid (also referred to as polyethylene naphthalate)

3.8.4

poly(ethylene terephthalate) base

polyester base for recording materials composed mainly of a polymer of ethylene glycol and terephthalic acid

3.9

blister

localized delamination that resembles a bubble

3.10

blocking

sticking together of similar or dissimilar materials in physical contact

cf. **anti-blocking agent** (3.3)

3.11**brittleness**

property of a material that causes it to crack or break when bent or flexed

3.12**can**

metal or plastic **container** (3.20) for a roll of recording material, such as **photographic film** (3.79) or magnetic tape

3.13**carrier**

medium upon which **information** (3.56) is recorded

cf. **medium** (3.68)

3.14**carton****box**

outer **container** (3.20) that can hold one or more individual units and which may be a fabrication of paper, card stock or plastic

3.15**cartridge**

housing for a roll of recording material, such as **photographic film** (3.79) or magnetic tape, wound on a single **hub** (3.50) or **reel** (3.89)

cf. **cassette** (3.16)

3.16**cassette**

housing for a roll of recording material, such as **photographic film** (3.79) or magnetic tape, whose ends are attached to two **hub(s)** (3.50) or **reel(s)** (3.89)

cf. **cartridge** (3.15)

3.17**class 100 000 clean room**

controlled environment in which the level of airborne contaminants meets the requirements of ISO 14644-1

3.18**compact disc****CD**

optical disc (3.76) format in which the **information** (3.56) layer is located at one surface of a substrate and the data can be read by an optical beam

NOTE Described in IEC 60908.

3.18.1**CD-ROM****read-only-medium compact disc**

optical disc (3.76) to which **information** (3.76) is transferred during manufacture to certain areas in the compact disc format and can be read many times

NOTE Described in ISO/IEC 10149.

3.18.2**CD-R****recordable compact disc**

recordable **optical disc** (3.76) in which **information** (3.56) can be recorded (once) to certain areas in the compact disc format and read many times