INTERNATIONAL STANDARD

ISO 4087

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Micrographics — Microfilming of newspapers for archival purposes on 35 mm microfilm

Micrographie — Enregistrement des journaux sur microfilm de 35 mm pour l'archivage

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ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

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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 4087 was prepared by Technical Committee ISO/TC 171, Document management applications, Subcommittee SC 2, Application issues. STANDARD PREVIEW

This third edition cancels and replaces the second edition (ISO 4087:1991), which has been technically revised.

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Micrographics — Microfilming of newspapers for archival purposes on 35 mm microfilm

1 Scope

This International Standard establishes general principles for microfilming printed newspapers for preservation and distribution to libraries and other documentation services. It includes requirements for targets to ensure proper bibliographic control and to verify that the film meets the requirements of International Standards applied to archival microfilming.

This International Standard is applicable only to unperforated silver microfilms that are 35 mm wide, in rolls or strips, whether first-generation (camera negatives), intermediate or distribution copies.

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 10.3.11

ISO 9:1995, Information and documentation of Cyrillic characters into Latin characters — Slavic and non-Slavic languages itehai/catalog/standards/sist/7e9c31f6-8417-4001-9c62-

ISO 233-2:1993, Information and documentation — Transliteration of Arabic characters into Latin characters — Part 2: Arabic language — Simplified transliteration

ISO 259-2:1994, Information and documentation — Transliteration of Hebrew characters into Latin characters — Part 2: Simplified transliteration

ISO 446:1991, Micrographics — ISO character and ISO test chart No.1 — Description and use

ISO 3334:1989, Micrographics — ISO resolution test chart No.2 — Description and use

ISO 3602:1989, Documentation — Romanization of Japanese (kana script)

ISO 6148:2001, Photography — Micrographic films, spools and cores — Dimensions

ISO 6196-1:1993, Micrographics — Vocabulary — Part 1: General terms

ISO 6196-2:1993, Micrographics — Vocabulary — Part 2: Image positions and methods of recording

ISO 6196-3:1997, Micrographics — Vocabulary — Part 3: Film processing

ISO 6196-4:1998, Micrographics — Vocabulary — Part 4: Materials and packaging

ISO 6196-5:1987, Micrographics — Vocabulary — Part 5: Quality of images, legibility, inspection

ISO 6196-6:1992, Micrographics — Vocabulary — Part 6: Equipment

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ISO 6199, Micrographics — Microfilming of documents on 16 mm and 35 mm silver-gelatin type microfilm — Operating procedures

ISO 6200:1999, Micrographics — First generation silver-gelatin microforms of source documents — Density specifications and method of measurement

ISO 8601, Data elements and interchange formats — Information interchange — Representation of dates and times

ISO 9878:1990, Micrographics — Graphical symbols for use in microfilming

ISO 10550:1994, Micrographics — Planetary camera systems — Test target for checking performance

ISO 18901:2002, Imaging materials — Processed silver-gelatin type black-and-white film — Specifications for stability

ISO 18905:2002, Imaging materials — Ammonia-processed diazo photographic film — Specifications for stability

ISO 18906:2000, Imaging materials — Photographic films — Specifications for safety film

ISO 18911:2000, Imaging materials — Processed safety photographic films — Storage practices

ISO 18912:2002, Imaging materials — Processed vesicular photographic film — Specifications for stability

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3 Terms and definitions

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For the purposes of this document, the terms and definitions given in ISO 6196, parts 1 to 6, and the following apply. $\underline{\text{ISO } 4087:2005}$

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principal edition

edition of the newspaper which is either identified or recognized as the most important

3.2

3.1

target

documents containing bibliographic and technical information, including test charts, pertaining to the filmed newspaper and intended to be filmed

4 Rawstock microfilm

For the purpose of preservation, only black and white film on polyester base in accordance with ISO 6148 and ISO 18906 shall be used.

5 Reduction ratios and image placement

5.1 General

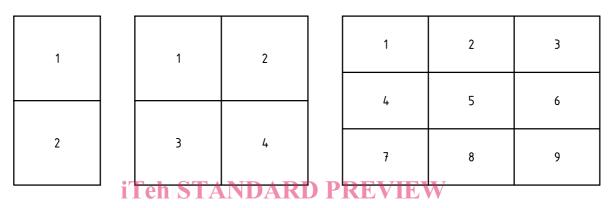
Reduction ratios shall be in accordance with ISO 6199.

NOTE The normal reduction ratio for newspapers is in the range 1:14 to 1:24.

5.2 Reduction ratios for smaller pages and sectional filming

Pages that are smaller than the normal spread of the newspaper, such as newspaper inserts and foldouts, shall be filmed at a reduction ratio that is the same as or, if necessary to achieve legibility, lower than the reduction ratio used for other parts of the newspaper. If inserts or foldouts are too large to be accommodated in position 1A (see Figure 2) without using a reduction ratio that is too high to provide a legible image, the material shall be filmed in sections. The sections shall be filmed from left to right and from top to bottom, as shown in Figure 1 (unless in oriental orientation), and shall provide an overlap with adjacent material on the original of at least 25 mm. The reduction ratio used shall provide the desired number of sections with the proper overlap.

A change of reduction ratio target with scale shall be microfilmed on the frame prior to any change of reduction and when reverting to the original reduction ratio.



SFigure 1 - Sectional sequences

5.3 Image positions

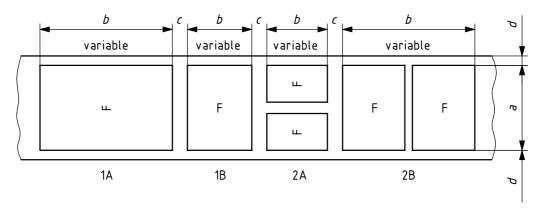
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The four recommended image positions for 35 mm microfilm on reels or in strips are shown in Figure 2.

Ordinarily, dimension b shall be limited to the image area required by the material being filmed, taking into account dimension a, which shall not exceed 31,75 mm. Dimension c shall be at least 2 mm, both for images and for coding information.

The images should be centred between the edges of the film.



Positions 1A and 1B are single-page exposures.

Positions 2A and 2B are double-page exposures.

In positions 1A and 2A, the text is perpendicular to the long axis of the film.

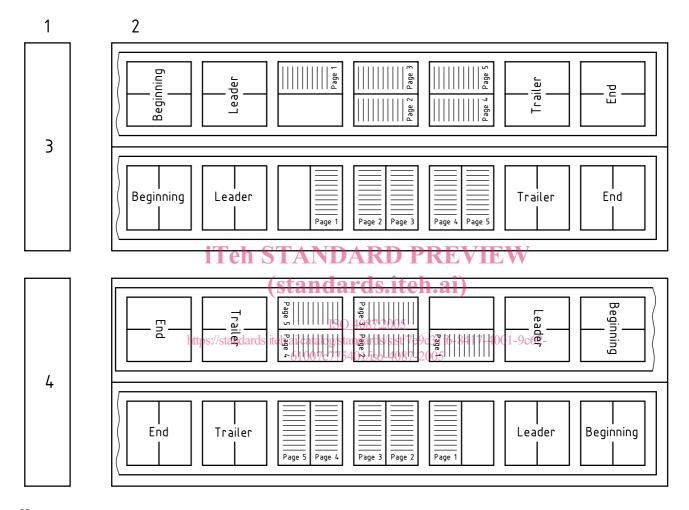
In positions 1B and 2B, the text is parallel to the long axis of the film.

Figure 2 — Image positions on the microfilm

5.4 Progression of text

For newspapers in languages that read from right to left and for other variations from the usual occidental language arrangement, pages shall be positioned to allow for logical reading progression. This is accomplished by positioning the camera head so that the progression of exposed film shall reflect the progression of text.

The lines of text shall be parallel with the long axis of the film in positions 1B and 2B or perpendicular to the long axis of the film in positions 1A and 2A (see Figure 3).



Key

- 1 page numbering
- 2 succession of frames
- 3 languages reading from left to right (occidental mode)
- 4 languages reading from right to left (oriental mode)

Figure 3 — Layout of frames for microfilming newspapers in languages that read from left to right (upper diagram) and right to left (lower diagram)

6 Leader and trailer

6.1 Clear leader

In addition to any fogged film, which may be removed, each roll of exposed 35 mm microfilm shall have at the beginning and end (500^{+200}_{0}) mm of unexposed film.

NOTE The repetition of the information targets at the end, in reverse order, before the trailer allows the film to be wound up toward the shorter end. This procedure saves time and work and reduces damage to the working print.

6.2 Archival test area

If archival tests are required, at least 300 mm of microfilm with minimum density (clear) shall be left at the beginning and end of each roll in addition to that specified in 6.1.

7 Filming conditions

7.1 Show-through

Newspapers shall be filmed in such a way that show-through from the back of the page is minimized.

7.2 Illumination iTeh STANDARD PREVIEW

Newspapers shall be placed on the copyboard and illuminated evenly, even when the newspapers are in bound volumes.

For bound volumes, an adjustable book carrier should be used.

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Equipment manufacturers' instructions should be followed to enable checking and adjusting of the evenness of illumination.

8 Arrangement of the file

8.1 Chronological divisions

Newspapers shall be microfilmed in chronological order. The divisions between rolls shall be systematic and bibliographically acceptable. Micro-images of a single copy of a newspaper shall not be divided between two rolls of film.

Usually, roll divisions covering the following periods of publication are used:

- a half or whole month;
- two, three, four or six months;
- one year or several years.

Examples of acceptable divisions of rolls include:

- March 1 March 15;
- September 1 October 31;
- January 1, 1956 December 31, 1957 (if several years are filmed together).

8.2 Filming of editions and supplements

The principal edition, including all sections and supplements, or an edition that is considered representative, shall be microfilmed in full. When, in addition, other editions are microfilmed, they shall be filmed immediately following the principal edition each day or in a chronological series of their own.

Numbered or lettered sections shall be filmed in order, followed by unnumbered sections and supplements. Supplemental pages forming an integral part of the newspaper shall be filmed in their original places.

9 Film Targets

9.1 Lettering

Information targets intended to be read without magnification shall comply with the following requirements:

- black lettering on a white background or vice versa;
- upper-case letters;
- characters of minimum height 2 mm on the film.

9.2 Language

The language of the targets shall be the language of the newspaper to be microfilmed. Additional languages are permitted if required.

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9.3 Calendar dates

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Calendar dates in all-numeric forms shall be written in accordance with 150 860 1.01-9c62-

9.4 Targets

Appropriate targets shall be used to denote material filmed out of sequence for bibliographic or practical reasons.

9.5 Graphic symbols

Symbols shall be used, in accordance with ISO 9878, to give information concerning the condition of the original document and the production and use of microforms.

9.6 Sequence and contents of targets

9.6.1 General

The sequence of targets shall be as shown in Figure 4.

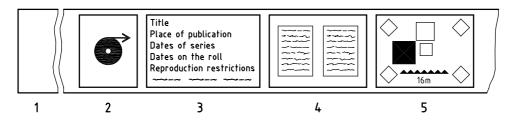
9.6.2 "Beginning of roll" symbol

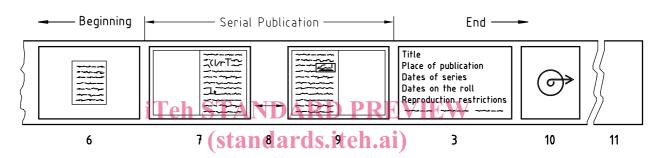
The first target shall contain the "Beginning of roll" symbol (ISO 9878:1990, Ref. No. 0076) or the word START. The number of the roll in the series should be added.

9.6.3 Identification target(s)

9.6.3.1 General

The identification target is intended to provide the reader with essential data concerning the newspaper as a whole and the microfilming. It shall contain, where appropriate, the information given in 9.6.3.2 to 9.6.3.10, in the order given. With the exception of those in 9.6.3.5 and 9.6.3.8, items in the micro-image target shall be legible without magnification.





Ke	У	ISO 4087:2005
1	leader	https://standards.iteh.ai/catalog/standards/sis7/7egirst page of publication.
2	beginning of roll	61007c775401/iso-4(8)7- .film 6

3 identification target 9 last page of publication

4 bibliographic target5 test target10 end of roll11 trailer

6 content target

Figure 4 — Sequence of the targets

9.6.3.2 Title

The title of the newspaper shall be given in the same form as the title of the original or, when necessary, shall be converted into the Latin alphabet according to standardized transliteration/transcription tables (see ISO 9, ISO 233-2, ISO 259-2, and ISO 3602). It is permissible to add other languages if required.

The title shall be the principal one of the newspaper e.g. *New York Times* or a collective title e.g. *Early English Newspapers*.

9.6.3.3 Language of the newspaper (optional)

The language of the newspaper may be included on the identification target.

9.6.3.4 Country and place of publication

The country and place of publication shall be included and converted, if necessary, into the Latin alphabet according to the standardized transliteration/transcription tables (see ISO 9, ISO 233-2, ISO 259-2, and ISO 3602).