
**Micrographics — Duplicating film, silver,
diaz and vesicular — Visual density —
Specifications and measurement**

*Micrographie — Films de duplication argentiques, diazoïques et
vésiculaires — Densité visuelle — Spécifications et mesurage*



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ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 734 10 79
E-mail copyright@iso.ch
Web www.iso.ch

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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 3.

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 International Standard may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

International Standard ISO 8126 was prepared by Technical Committee ISO/TC 171, *Document imaging applications*, Subcommittee SC 1, *Quality*.

This second edition cancels and replaces the first edition (ISO 8126:1986) which has been technically revised.

Introduction

Microforms should be of such quality that the information contained is clearly legible, and suitable for its intended end use. It is therefore important that documents for microfilming conform to microfilming criteria.

Controlling microimage density helps to ensure that good results are obtained. The overall quality of the master directly affects duplicate quality.

Since first generation silver film densities can be measured using regular densitometers, a method had to be found for measuring diazo and vesicular film duplicating films in addition to silver-gelatin films. In the current state of the art, only a method for visual density has been developed.

Visual density should not be confused with printing density. The former is a measurement taking account of the eye's spectral sensitivity whereas the latter is a measurement limited to the spectral sensitivity of the receiving material and the spectral energy distribution of the printing illumination.

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Micrographics — Duplicating film, silver, diazo and vesicular — Visual density — Specifications and measurement

1 Scope

This International Standard specifies visual diffuse transmission densities for second generation silver-gelatin and diazo microforms and projection densities for second generation vesicular microforms. It also specifies methods of measurement.

It does not apply to duplicates of microforms of technical drawings and other drawing office documents.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this International Standard. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO 5-1:1984, *Photography — Density measurements — Part 1: Terms, symbols and notations.*

ISO 5-2:1991, *Photography — Density measurements — Part 2: Geometric conditions for transmission density.*

ISO 5-3:1995, *Photography — Density measurements — Part 3: Spectral conditions.*

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

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

3 Terms and definitions

For the purposes of this International Standard, the terms and definitions given in ISO 5 and ISO 6196 apply.