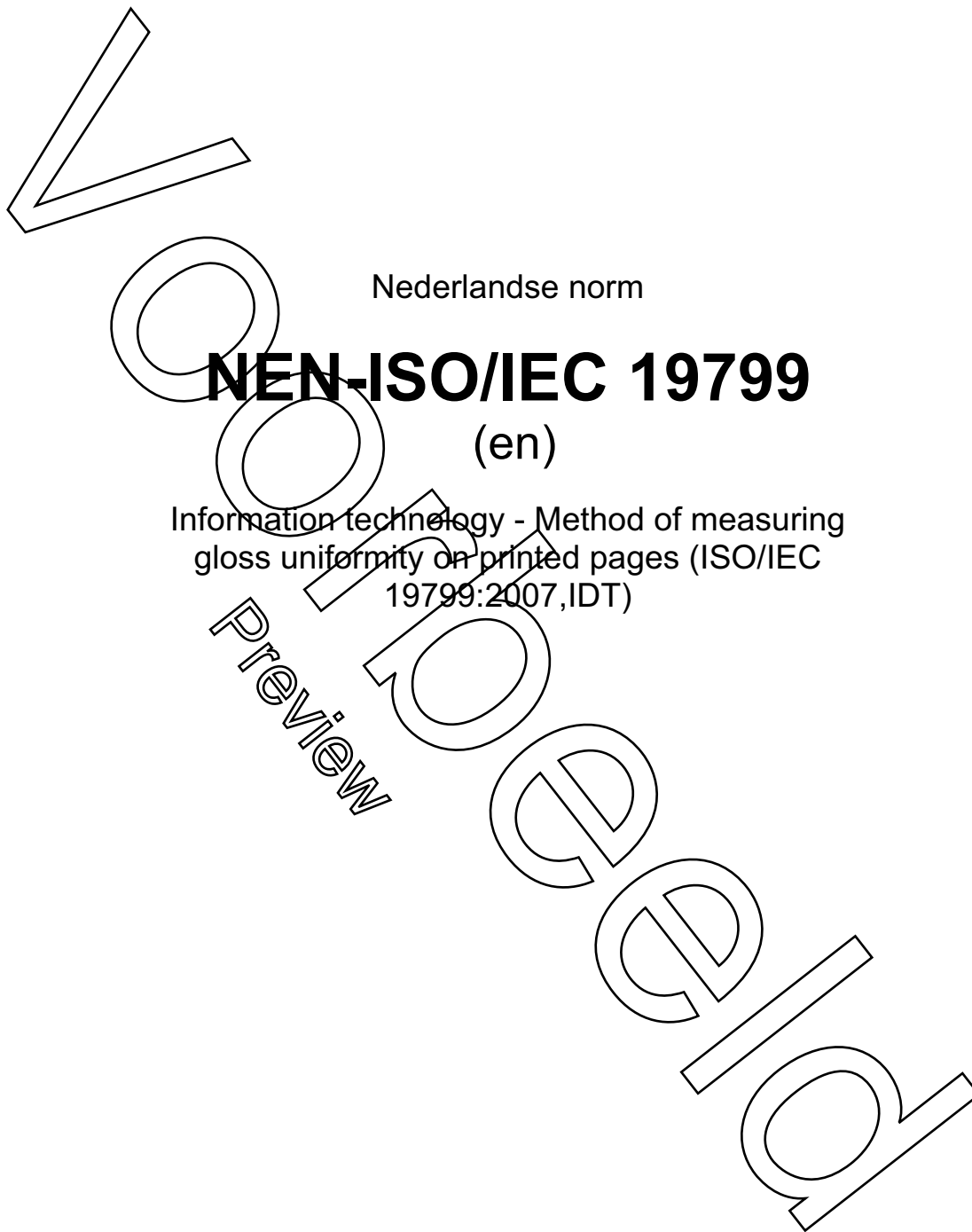


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Nederlandse norm

NEN-ISO/IEC 19799

(en)

Information technology - Method of measuring
gloss uniformity on printed pages (ISO/IEC
19799:2007, IDT)

ICS 37.100.10

april 2007

Als Nederlandse norm is aanvaard:

- ISO/IEC 19799:2007, IDT

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Normcommissie 381 028 "Kantoor machines"

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**Information technology — Method of
measuring gloss uniformity on printed
pages**

*Technologies de l'information — Méthode de mesure de l'uniformité de
lustre des pages imprimées*

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Published in Switzerland

Contents

Page

Foreword.....	iv
Introduction.....	v
1 Scope.....	1
2 Normative references.....	1
3 Terms and definitions.....	2
4 Test Parameters and Conditions.....	3
4.1 Set-up.....	3
4.2 Sample Size.....	3
4.3 Print Mode.....	3
4.4 Paper.....	3
4.5 Maintenance.....	3
4.6 Original test charts for copiers.....	3
4.7 Print Files.....	4
5 Test Methodology.....	4
5.1 Testing Procedure for copiers.....	4
5.2 Testing Procedure for printers.....	5
6 Determination of the gloss uniformity for printed pages.....	5
6.1 Determination of differential gloss.....	5
6.2 Determination of gloss uniformity within-page.....	6
6.3 Determination of gloss consistency within a run.....	7
7 Test report.....	7
Annex A (informative) Differential gloss test charts and color values.....	8
Annex B (informative) Examples of differential gloss measurement results using different paper substrates on copiers and printers.....	13
Annex C (informative) Differential gloss perceptual scale.....	15
Annex D (informative) Differential threshold for visual gloss curve (JND estimates).....	18
Annex E (informative) Gloss uniformity test charts, color values and result examples.....	19
Annex F (informative) G60 and G75 differential gloss round-robin experiment data.....	26
Bibliography.....	28

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/IEC 19799 was prepared by Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 28, *Office equipment*.

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Introduction

The purpose of this International Standard is to provide a process for measuring objective print quality attributes for gloss non-uniformity on printed pages in reflection mode.

This International Standard prescribes the following:

- a definition of gloss uniformity attributes representative of the print quality on reflection prints;
- a procedure for gloss uniformity testing and the analysis of the resulting data;
- a method for evaluating and grading these measurements and deriving an assessment of gloss uniformity, enabling a means to correlate the objective gloss uniformity measurement to subjective impression of gloss uniformity if appropriate; and
- the appropriate method of describing the gloss uniformity of printing and copying systems in documentation supplied to the consumer by the manufacturer.

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Voorbeeld
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Information technology — Method of measuring gloss uniformity on printed pages

1 Scope

The scope of this International Standard is to define methods and processes of measuring objective print-quality attributes for the assessment of gloss non-uniformity on printed pages in reflection mode, and to provide transforms, when applicable, that relate the objective results to subjective responses, if appropriate. There are many existing standards (see Normative references and Bibliography for details) typically used for gloss measurement. Our intent is to leverage the existing standards and adapt those for use on gloss uniformity measurements where appropriate.

This International Standard is composed of a standardized test methodology, which is based on established gloss measurement methodologies as noted in Clause 2 and in the Bibliography. The methodologies have been modified so that, when applied to printed pages created by different marking technologies and imaging algorithms on different substrates, the results indicate the level of the objective gloss uniformity of the printed pages (in reflection mode). If the objective measurement can be linked to the subjective impression of gloss uniformity, then the linkage from objective measurement to subjective impression via mathematical transforms is provided. The reflection prints that are to be used as the subject of these tests can be created via printers or copiers (analog and digital). This International Standard should be applied only to electro-photographic bases prints. When more reflection prints made by other printing technologies become available for follow-up study, one may consider including those printing technologies in this International Standard as a revision. This International Standard does not address the measurement of gloss attributes of printed pages in transmission mode.

Gloss uniformity attributes currently included in this International Standard are: differential gloss, gloss uniformity within a page, and gloss consistency within a run. Due to the current level of immaturity of commercially available objective micro-gloss measurement instruments, gloss artefact attributes (such as gloss grain, gloss spot, gloss streak, gloss band, gloss mottle/cloud, gloss moiré) are not included in this International Standard at the present time, since instrumented measurement procedure cannot be recommended at present. As instrumented measurement capability becomes available, they will be considered for adoption into this International Standard as a revision.

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 2813, *Paints and varnishes — Determination of specular gloss of non-metallic paint films at 20°, 60° and 85°*

ISO 8254-1:1999, *Paper and board — Measurement of specular gloss — Part 1: 75° gloss with a converging beam, TAPPI method*

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