

TRÜKITEHNOLOOGIA**Neljavärvitrükis kasutatavate trükivärvikomplektide
värv ja läbipaistvus****Osa 2: *Coldset* ofsetlitograafia**

Graphic technology

Colour and transparency of ink sets for four-colour-
printing

Part 2: Coldset offset lithographic printing

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-ISO 2846-2:2007 "Trükitehnoloogia. Neljavärvitrükis kasutatavate trükivärvikomplektide värv ja läbipaistvus. Osa 2: <i>Coldset</i> ofsetlitograafia" sisaldab rahvusvahelise standardi ISO 2846-2:2000 "Graphic technology — Colour and transparency of ink sets for four-colour-printing — Part 2: Coldset offset lithographic printing" identset ingliskeelset teksti.</p>	<p>This Estonian Standard EVS-ISO 2846-2:2007 consists of the identical English text of the International Standard ISO 2846-2:2000 "Graphic technology — Colour and transparency of ink sets for four-colour-printing — Part 2: Coldset offset lithographic printing".</p>
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<p>Standard EVS-ISO 2846-2:2007 on kinnitatud Eesti Standardikeskuse 30.05.2007 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teataja 2007. aasta juunikuu numbris.</p>	<p>This standard is ratified with the order of Estonian Centre for Standardisation dated 30.05.2007 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.</p>
<p>Standard on kättesaadav Eesti Standardikeskusest.</p>	<p>The standard is available from Estonian Centre for Standardisation.</p>

Käsitlusala

Käesolev ISO 2846 osa täpsustab nõuded *coldset* neljavärvi-rullofsettrükis kasutatavate trükivärvide värvile ja läbipaistvusele, kui nendega trükitakse kindlate tingimustel trükiomaduste testseadmes. Ühtivuse tagamiseks kirjeldatakse siin ka testimeetodit.

Käesolev ISO 2846 osa ei kehti fluorestseerivate trükivärvide kohta ning ei too välja värvipigmente (või spektraalset peegeldavust), et mitte tõkestada arendustööd, mis võimaldaks edukalt kasutada teistsuguseid pigmentide kombinatsioone käesolevas ISO 2846 osas esitatud kolorimeetriliste nõuete täitmiseks.

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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 part of ISO 2846 may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

International Standard ISO 2846-2 was prepared by Technical Committee ISO/TC 130, *Graphic technology*.

ISO 2846 consists of the following parts, under the general title *Graphic technology — Colour and transparency of ink sets for four-colour-printing*:

- *Part 1: Sheet-fed and heat-set web offset lithographic printing*
- *Part 2: Coldset offset lithographic printing*
- *Part 3: Gravure printing*
- *Part 4: Screen printing*
- *Part 5: Flexographic printing*

Annex A forms a normative part of this part of ISO 2846. Annexes B to D are for information only.

Introduction

A working group consisting of TC 130/WG 4 and WG 3 experts for materials and process control examined the colorimetric properties of coldset web offset inks from around the world and found that a single set of colour coordinates could adequately represent these, within reasonable tolerances. This part of ISO 2846 is the result of that activity. It will enable printers to obtain a reasonable consistency between one another and thereby ensure that separations and digital images supplied to them can be used to best advantage.

This part of ISO 2846 will allow printers to obtain sets of process inks from various sources which will produce a similar colour when printed on the reference substrate at the appropriate film thickness. This will allow colour separations for coldset web offset printing to be based on known colour standards. The colorimetric characteristics specified in this part of ISO 2846 may only be obtained when the inks are printed on the reference substrate. However, similarity of two inks on the reference substrate will ensure similarity on another substrate.

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Graphic technology — Colour and transparency of ink sets for four-colour-printing —

Part 2: Coldset offset lithographic printing

1 Scope

This part of ISO 2846 specifies the colour and transparency to be produced by inks intended for four-colour coldset web offset printing when printed under specified conditions on a printability tester. It also describes the test method to ensure conformance.

This part of ISO 2846 does not apply to fluorescent inks and does not specify pigments (or spectral reflectance) in order not to preclude developments which may enable different pigment combinations to be used advantageously while still achieving the colorimetric requirements specified in this part of ISO 2846.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of ISO 2846. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this part of ISO 2846 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 536:1995, *Paper and board — Determination of grammage.*

ISO 2846-1:1997, *Graphic technology — Colour and transparency of ink sets for four-colour-printing — Part 1: Sheet-fed and heat-set web offset lithographic printing.*

ISO 2471:1998, *Paper and board — Determination of opacity (paper backing) — Diffuse reflectance method.*

ISO 8791-4:1992, *Paper and board — Determination of roughness/smoothness (air leak methods) — Part 4: Print-surf method.*

ISO 13655:1996, *Graphic technology — Spectral measurement and colorimetric computation for graphic arts images.*

3 Terms and definitions

For the purposes of this part of ISO 2846, the following terms and definitions apply.

3.1

coldset printing

web offset or letterpress printing without accelerated drying; ink sets by absorption into the substrate