



# SLOVENSKI STANDARD

## SIST ISO 2846-2:2008

01-junij-2008

Nadomešča:  
SIST ISO 2846-2:2005

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**Grafična tehnologija - Barvni učinki in prozornost procesnih tiskarskih barv za štiribarvni tisk - 2. del: Ofsetni tisk na rotacijah s hladnim sušenjem (cold-set)**

Graphic technology - Colour and transparency of printing ink sets for four-colour printing - Part 2: Coldset offset lithographic printing

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**ICS:**

17.180.20	Barve in merjenje svetlobe	Colours and measurement of light
87.080	Barvila. Tiskarske barve	Inks. Printing inks

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**en**

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# INTERNATIONAL STANDARD

**ISO**  
**2846-2**

Second edition  
2007-12-15

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

### Part 2: Coldset offset lithographic printing

*Technologie graphique — Couleur et transparence des gammes  
d'encre d'impression en quadrichromie —  
Partie 2: Impression lithographique offset rotatif coldset*

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

This second edition cancels and replaces the first edition (ISO 2846-2:2000), of which Clauses 4 and 5 have been technically revised and the colorimetric properties of the inks were adjusted to be compatible with actual commercial requirements and to the process standard ISO 12647-3<sup>1)</sup>. Details for test print preparation, which are now specified in ISO 2834-1, have been deleted.

ISO 2846 consists of the following parts, under the general title *Graphic technology — Colour and transparency of printing 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: Publication gravure printing*
- *Part 4: Screen printing*
- *Part 5: Flexographic printing*

## Introduction

The initial draft of ISO 2846-2 was prepared by ISO/TC 130 for materials and process control. They examined the colorimetric properties of commercial coldset web offset inks from around the world and found that a single set of colour coordinates could adequately represent these, within reasonable tolerances. Since the initial publication of this part of ISO 2846, additional coordination between the various national bodies participating in ISO/TC 130 has suggested that some minor refinements of the colorimetric aims would make them more compatible with actual commercial printing requirements and to the process standard ISO 12647-3 [1].

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 printing 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 is not applicable to fluorescent inks and does not specify pigments (or spectral reflectance) so as not to preclude the use of future suitable pigment combinations and still claim compliance with its colorimetric requirements.

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### 2 Normative references (standards.iteh.ai)

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 536, *Paper and board — Determination of grammage*

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

ISO 2834-1, *Graphic technology — Laboratory preparation of test prints — Part 1: Paste inks*

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

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

ANSI/CGATS.5:2003, *Graphic technology — Spectral measurement and colorimetric computation for graphic arts images*

### 3 Terms and definitions

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

#### 3.1

##### **coldset printing**

web offset printing without accelerated drying

NOTE Ink sets by absorption into the substrate.