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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 30329.2-2026

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

印刷技术 四色印刷油墨颜色和透明度 第2部分：冷固型卷筒纸胶印

(English Translation)

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part 1: Structure and Drafting Rules of Standardization Documents".

Drafting.

This document is Part 2 of GB/T 30329 "Printing Technology - Color and Transparency of Four-Color Printing Inks". GB/T 30329 has been...

The following sections were published.

---Part 1: Sheet-fed and thermoset roll offset printing;

---Part 2: Cold-cured roll-to-roll offset printing;

---Part 5: Flexographic Printing.

This document is equivalent to ISO 2846-2:2007 "Printing technology - Four-color printing inks - Color and transparency - Part 2: Cold-setting rolls".

Offset printing on tube paper.

The following editorial changes have been made to this document.

---The introduction section of ISO 2846-2:2007 has been deleted;

--- Replace the comma with the decimal point symbol ".";

--- Replace ANSI/CGATS5.2003 cited in the text with ISO 13655.

Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents.

This document was proposed by the State Press and Publication Administration.

This document is under the jurisdiction of the National Technical Committee on Printing Standardization (SAC/TC170).

Introduction

This document is equivalent to ISO 2846-2:2007, a standard developed by ISO/TC130 for materials and process control. (Globally...) After testing the colorimetric performance of commercial cold-cured roll-to-roll offset printing inks in various regions, it was found that using a unified set of color coordinates and reasonable bias...

The range is wide enough to fully cover the colorimetric characteristics of these inks.

GB/T 30329 "Printing Technology - Color and Transparency of Four-Color Printing Inks" is planned to be divided into 5 parts.

---Part 1: Sheet-fed and thermoset roll offset printing;

---Part 2: Cold-cured roll-to-roll offset printing;

---Part 3: Publication Gravure Printing;

---Part 4: Screen Printing;

---Part 5: Flexographic Printing.

This document allows printing companies to obtain complete sets of primary color inks from various sources, which are then printed on a reference substrate at an appropriate ink layer thickness.

When applied to the same material, similar colors can be produced. In this way, color separation in cold-set web offset printing can be based on known color standards.

The colorimetric characteristics specified in this document can only be obtained by printing the ink on a reference substrate. However, different reference substrates may exhibit different colorimetric characteristics.

The similarity of the inks also ensures that they are similar on other printing substrates.

Printing technology. four-color printing inks, color and transparency Part 2: Cold-cured roll-to-roll offset printing

1 Scope

This document specifies the color and transparency of four-color cold-curing roll-to-roll printing inks under specified conditions, as determined by a printability tester.

A testing method to ensure consistency.

This document does not apply to fluorescent inks, nor does it specify pigments (or spectral reflectance), thus not precluding the use of inks that meet colorimetric requirements in the future.

Other suitable pigment combinations.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included.

For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies.

This document.

Note: GB/T 451.2-2023 Paper and paperboard - Part 2: Determination of basis weight (ISO 536:2019, MOD) ISO 2471 Determination of opacity (paper backing) of paper and paperboard - Diffuse reflectance method Note. GB/T 1543-2005 Determination of opacity (paper backing) of paper and paperboard (diffuse reflectance method) (ISO 2471:1998, MOD) ISO 2834-1 Laboratory preparation of print samples for printing technology - Part 1: Paste inks Note. GB/T 38153.1-2024 Laboratory preparation of printing samples for testing - Part 1: Paste inks (ISO 2834-1:2020, IDT) ISO 8791-4 Determination of roughness/smoothness of paper and paperboard (air leak method) Part 4: Printed surface method ISO 13655 Printing technology - Spectral measurement and colorimetric calculation of printed images Note. GB/T 19437-2025 Printing technology - Spectral measurement and colorimetric calculation of printed images (ISO 13655:2017, IDT)

3 Terms and Definitions

The following terms and definitions apply to this document.

Coldset printing

Offset printing on roll paper without accelerated drying.

Note: The ink is fixed by being absorbed by the substrate.

standard ink

Printing on a reference substrate with ink layer thickness within the permitted range, conforming to the four-color printing specifications for chromaticity and transparency in this document.