

ICS 87.080
CCS A 17



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

GB/T 46967-2026

Graphic technology - Communication of offset ink properties

印刷技术 胶印油墨特性沟通交流规则

(English Translation)

Issued on: January 28, 2026

Implemented on: March 1, 2026

Issued by: State Administration for Market Regulation

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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 equivalent to ISO 22934:2021 "Printing technology - Properties of offset printing inks - Communication".

The following editorial changes have been made to this document.

---The standard name has been changed to "Rules for Communication and Exchange of Characteristics of Offset Printing Inks in Printing Technology".

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 proposes general rules for communication regarding the characteristics of offset printing inks, providing a standard for ink suppliers and printing manufacturers.

This communication project facilitates efficient exchange of information regarding the key characteristics of inks, optimizes printing production plans, and ensures that ink performance meets the requirements of the project.

The printed product's intended use must be matched. For example, to avoid color changes after printing, an ink that combines alkali-resistant ink with a varnish should be selected.

Application method. For printed materials used outdoors, inks with high lightfastness should be selected to prevent fading due to prolonged exposure to sunlight.

The rules for communicating ink properties provide information support for selecting the appropriate ink for different printed materials.

Given the special requirements for ink properties in the printing of food packaging and children's toys, this document does not cover related content.

Rules for Communication and Exchange of Offset Printing Ink Characteristics in Printing Technology

1 Scope

This document outlines the communication rules between ink suppliers and printing manufacturers regarding the relevant characteristics of offset printing inks.

Optimizing printing production plans and the intended use of the final product is crucial.

Note: The final product is not necessarily a printed product.

This document is intended for communication between ink suppliers and printing manufacturers.

This document does not apply to communication regarding ink properties related to food safety and other safety requirements (such as the safety of children's toys).

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.

ISO 2836 Printing technology - Evaluation of the resistance of printed matter and printing inks to various reagents.

Note: GB/T 18724-2024 Printing Technology - Determination of the resistance of printed matter and printing inks to various reagents (ISO 2836:2021, IDT) ISO 12040 Printing technology - Evaluation of lightfastness of printed matter and printing inks using a filter xenon arc lamp (Graphic technology-Note. GB/T 22771-2008 Printing Technology - Evaluation of lightfastness of printed matter and printing inks using a filter xenon arc lamp (ISO 12040:1997, MOD)

3 Terms and Definitions

The following terms and definitions apply to this document.

Corona treatment

To increase the surface tension of the substrate and improve ink wettability and adhesion, corona discharge is performed on surfaces with low surface tension.

measure.

ink

A mixture consisting of colorants, functional ingredients, binders, and additives.

Note: In offset printing, ink is transferred as a fluid to the substrate and undergoes physical (volatile) and/or chemical processes (polymerization, such as oxidation, radiation initiation, or other methods) to achieve its properties.

(Other methods) are used to cure or dry the image to create an image for decorative, informational, or technological dissemination purposes.

lightfastnesslightfastness the ability of printed materials to retain their original colors under a specified light source (such as filtered xenon arc light).

Safety data sheet

A compilation of health, safety, and environmental data, as well as precautions for the safe handling of chemicals and chemical components.