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

GB/T 17934.9-2026

**Graphic technology - Process control for the production of
halftone colour separations, proof and production prints - Part
9: Metal decoration printing processes using offset lithography**

印刷技术 网目调分色版、样张和生产印刷品的加工过程控制 第9部分：金属平版
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 9 of GB/T 17934 "Printing Technology - Halftone Color Separation Plates, Proofs and Process Control of Printed Matter".

GB/T 17934 has published the following parts.

---Part 1: Parameters and Measurement Methods;

---Part 2: Offset Printing;

---Part 3: Newsprint Cold-Set Offset Printing;

---Part 4: Publication Gravure Printing;

---Part 5: Screen Printing;

---Part 6: Flexographic Printing;

---Part 7: Proofing Process Using Digital Data Directly;

---Part 8: Verifying the Print Production Process Using Direct Digital Data;

---Part 9: Metal Offset Printing this document is equivalent to ISO 12647-9:2021 "Printing technology - Color separation, proofs and production process control of printed matter".

Part 9: Metal Offset Printing.

The following editorial changes have been made to this document.

---The introduction of ISO 12647-9:2021 has been amended.

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

When producing halftone printed materials, a minimum set of parameters is predetermined for color separation and printing processes to define the visual resolution of the product to be printed.

This is extremely important, as are other technical characteristics. This regulation improves the likelihood of correct production under qualified color separation conditions (without repeated testing).

Possibility.

This document is Part 9 of GB/T 17934 "Printing Technology - Color Separation Plates, Proofs and Process Control of Printed Products".

GB/T 17934 is proposed to consist of 9 parts.

---Part 1: Parameters and Measurement Methods;

---Part 2: Offset Printing;

---Part 3: Newsprint Cold-Set Offset Printing;

---Part 4: Publication Gravure Printing;

---Part 5: Screen Printing;

---Part 6: Flexographic Printing;

---Part 7: Proofing Process Using Digital Data Directly;

---Part 8: Verifying the Print Production Process Using Direct Digital Data;

---Part 9: Metal Offset Printing this document addresses offset printing on pre-coated white-painted metallic materials, clarifying the printing technical requirements for this type of packaging printing, covering the requirements for metallic materials.

The material surface is treated with a white coating, and various metal containers such as metal boxes and metal cans are formed after printing.

Printing technology, color separation plates, proofs and Process control of printed materials
Part 9: Metallic Offset Printing

1 Scope

This document specifies the requirements for metal offset printing production systems to ensure color reproduction on metal substrates with a pre-coated white layer.

This document applies to sheet metal printing and does not include pre-formed or molded metal, such as pre-formed metal cans. This document recommends the following...

Test methods required by the relevant regulations.

Unlike the method in ISO 12647-2 for offset printing on paper or paperboard, this document defines the process of applying a pre-coated white layer of gold...

The color value is obtained by offset printing on the substrate and is not affected by the backing color.

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/T S10128 Methods for adjusting printing systems to match color characterization datasets in printing technology (Graphic technology-tiondata) Note. CY/T 128-2015 Printing System Adjustment Method for Matching Color Characterization Datasets in Printing Technology (ISO/T S10128.2009, IDT) ISO 12642-1 Printing technology - Prepress data exchange for four-color printing feature description - Input data - Part 1: Raw data tialdataset) ISO 12642-2 Printing technology - Prepress data exchange for four-color printing feature description - Part 2: Extended data pandeddataset) Note. GB/T 20439-2006 Printing technology - Prepress data exchange - Input data for four-color printing feature description (ISO 12642:1996, IDT) ISO 12647-1:2013 Printing technology - Control of the process of color separation, proofs and production of printed matter - Part 1: Reference Number and Measurement Methods Note. GB/T 17934.1-2021 Printing Technology - Process Control of Color Separation Plates, Proofs and Production Printed Matter - Part 1: Parameters and Measurements Method (ISO 12647-1:2013, IDT) ISO 12647-7 Printing technology - Control of the process of color separation, proofs and production of printed matter - Part 7: Direct use of color separation, proofs and production of printed matter ta) Note. GB/T 17934.7-2021 Printing Technology - Color Separation Plates, Proofs and Production Printed Matter - Process Control - Part 7: Direct Use of Data Proofing process for word data (ISO 12647-7:2016, IDT) ISO 13655 Printing technology - Spectral measurement and colorimetric calculation of printed images