



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

GB/T 17934.8-2021

**Graphic technology - Process control for the production of
half-tone colour separations, proof and production prints - Part
8: Validation print processes working directly from digital data**

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Foreword

GB/T 17934 "Printing Technology, Screen Color Separation, Proofs and Process Control of Production Printed Matter" is divided into 8 parts.

---Part 1.Parameters and measurement methods;

---Part 2.Lithographic offset printing;

---Part 3.Newspaper cold-set offset printing;

---Part 4.Publishing gravure;

---Part 5.Screen printing;

---Part 6.Flexographic printing;

---Part 7.Proofing process using digital data directly;

---Part 8.Direct use of digital data to verify the production process of printed matter.

This part is Part 8 of GB/T 17934.

This section was drafted in accordance with the rules given in GB/T 1.1-2009.

The translation method used in this part is equivalent to the adoption of ISO 12647-8:2012 "Printing technology screen adjustment of color separation plates, samples and production prints.

Process control. Part 8.Verification of printed matter production process using digital data directly."

The Chinese documents that have a consistent correspondence with the international documents cited in this section are as follows.

---GB/T 8941-2013 Determination of the specular gloss of paper and cardboard (ISO 8254-1:2009, MOD)

---GB/T 17934.1-2021 Printing technology, mesh color separation plate, sample sheet and process control of production printed matter No. 1

Part. Parameters and measurement methods (ISO 12647-1.2013, IDT)

---GB/T 22113-2008 Label image file format (TIFF/

IT) (ISO 12639.2004, ITD)

---GB/T 22771-2008 Filtered xenon arc lamp for printing technology printed matter and printing ink to evaluate light resistance (ISO 12040.

1997, MOD)

---GB/T 27935 (all parts) The use of pre-press data exchange PDF for printing technology [ISO 15930 (all parts)]

This section has made the following editorial changes.

---Correct the standard drafting specification errors and add ISO 15930 to the normative reference documents. Delete in reference file

ISO 15930.

---Adjust the order of Appendix A and Appendix B.

--- Correct the order of references.

Introduction

This part of GB/T 17934 specifies the characteristics and related test methods required by digital printed matter and the printing process to meet the requirements of "verification

Guidelines established by "printed matter".

In most printing production processes, there are requirements for the visual display of the expected appearance of printed documents. This visual display can be used as

Part of the agreement between the client and the printer. When the visual display is produced and the expected printed product characteristics (color fidelity,

When there is only a very small tolerance between tone reproduction, registration, size, etc., it is usually called "same sheet". As the name suggests, he also constitutes a guest

Part of the contractual relationship between the user and the printing party is also used as the visual target of the printing operator in printing, and it is also a part of the final product.

Absolute reference basis for comparison. Of course, the production system that can produce the same sheet is generally expensive and requires careful operation.

And maintenance. GB/T 17934.7 stipulates the requirements for the system for synthesizing the same sheet and directly using digital data to produce the same sheet.

Recently, other forms of visual display of final printed products have appeared in the

printing/proofing process because of the tendency of designers and printing buyers

In the production process, there is no need to prematurely incur high costs for adopting the same sheets that meet the requirements of GB/T 17934.7, unless it is necessary.

In many cases, the participants in the production need a hard copy visual reference sample of lower quality than the same one. In the past, these printed

The quality is uneven, often referred to as design proofs, concept proofs, layout prints, etc. The proofs of this quality level are referred to herein as "verification printed matter".

Since the data is exchanged electronically, and the visual display of these data is produced in multiple venues, it is necessary to verify the printed matter.

Clear requirements to ensure its consistency throughout the work process. These requirements are relatively not so strict, especially for color

Fidelity, one of the purposes of this is to use a device with lower accuracy and cost than the production of the same sheet when producing verification prints.

Prepared. This part of GB/T 17934 lists the requirements for verification printed matter and production verification printed matter system.

Verification of printed matter is not intended to replace "same sheet" to predict the colors copied by the printing production equipment. It can be expected that with industry requirements

In addition to the development of imaging technology, revisions to the requirements for verifying printed matter and conforming to the same sheet will continue to be carried out in the future.

Printing technology mesh color separation plate, proofs and production

Process control of printed matter. Part 8. Direct

Use digital data to verify the print production process

Important note. The electronic file of this document contains color information that is conducive to the correct understanding of this document. Therefore, users should consider using color

Color printer to print this document.

1 Scope

This part of GB/T 17934 specifies the compliance requirements of a system that directly uses digital data to print hard copy verification prints.

The verification print is designed to simulate the expected appearance of the print under certain characteristic printing conditions.

This section does not apply to the determination of the compliance of production printing systems (digital or traditional), because many aspects of production printing do not include In this section.

2 Normative references

The following documents are indispensable for the application of this document. For dated reference documents, only the dated version applies to this article

Pieces. For undated reference documents, the latest version (including all amendments) is applicable to this document.

GB/T 18721-2002 Printing Technology Pre-press Digital Data Exchange CMYK Standard Color Image (CMYK/SCID) (ISO

12640-1:1997, IDT)

ISO 3664:2009 Printing Technology and Photography-Viewing Conditions (Graphicstechnologyandphotography-Viewing conditions)

ISO 8254-1 Paper and paperboard specular gloss determination Part 1.75° with condensed beam, TAPPI method (Paperand

board-Measurementofspeculargloss-Part 1.75degreeglosswitha converging beam, TAPPI method)

ISO 12040 Printing Technology Prints and Printing Inks Use Filtered Xenon Arc Lamps to Evaluate Light Resistance (Graphicstechnology-

Printsandprintinginks-Assessmentoflightfastnessusingfilteredxenonarc light)

ISO 12639 Label Image File Format (TIFF/IT) [Graphic technology-Prepressdigitaldataexchange-Tagimagefileformatforimagetechnology(TIFF/IT)]

ISO 12642-2 Printing Technology Four-color Printing Characteristic Description Input Data Part 2.Extended Data Set (Graphictech-

nology-Inputdataforcharacterizationof4-colourprocessprinting-Part 2.Expandeddataset)

ISO 12647-1 Printing Technology, Screen Adjustment, Process Control of Separation Plates, Proofs and Printed Products Part 1.Parameters and

Measurement method