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

GB/T 10073-2021

Replacing GB/T 10073-2008

Methods of evaluation for image quality of electrostatic copies

静电复印品图像质量评价方法

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for Standardization Work Part

1. Structure and Drafting Rules of Standardization Documents" Drafting. This document replaces GB/T 10073-2008 "Method for Evaluation of Image Quality of Electrostatic Copies", and compared with GB/T 10073-2008, except In addition to structural adjustments and editorial changes, the main technical changes are as follows:

---Changed part of the content of the reference implementation in the scope (see Chapter 1, Chapter 1 of the.2008 edition);

---Deleted GB/T 13334-2008 and other normative reference documents (see Chapter 2 of the.2008 edition);

---Added GB/T 13963-2012, GB/T 24988, GB/T 28625-2012 and other normative reference documents (see Chapter 2);

---Added terms and definitions (see Chapter 3);

---Changed the illuminance and test conditions of the test bench (see 4.1, 4.2, 3.1.2, 3.2 of the.2008 edition);

--- The requirements for reflection densitometers and diffuse reflection materials have been deleted (see

4.2 of the.2008 edition);

---Added requirements for whiteness meter and test paper (see 5.2, 5.8);

---The requirements for vernier calipers and reading microscopes have been changed (see 5.4, 5.6, and 4.4,

4.5 of the.2008 edition);

--- Deleted the requirements for linear meter ruler and paper base (see

1 Scope

GB/T 10073-2021 is the Chinese national standard on methods of evaluation for image quality of electrostatic copies, in the field of image technology. The /T suffix marks it as a

recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 11 October 2021 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 May 2022. Classification: ICS 37.100.01, CCS N47. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This document describes the image quality evaluation method for xerographic copies. This document is suitable for the evaluation of the image quality of printed products of black and white xerographic copiers (including multifunction machines), as well as for consumable materials (Such as. photoconductor drum, toner, etc.) related to the evaluation of the image quality of printed products. Refer to the evaluation of printed image quality of other types of copying equipment implement.

2 Normative references

The content of the following documents constitutes an indispensable clause of this document through normative references in the text. Among them, dated quotations Only the version corresponding to the date is applicable to this document; for undated reference documents, the latest version (including all amendments) is applicable to This document.

GB/T 4591 Electrostatic image test version

GB/T 13963-2012 Terminology for electrostatic photocopying (including multi-function) equipment GB/T 24988 copy paper

GB/T 28625-2012 color copier test version

JB/T 8273 Xerography all black test version

JB/T 8274 Copy image missing test version

3 Terms and definitions

The terms and definitions defined in GB/T 13963-2012 apply to this document.

4 Test environment and conditions

4.1 Test environment The test environment is as follows:

- a) Ambient temperature. 18°C~28°C, relative humidity. 40%~60%;
- b) Illumination of the test bench. 500lx~1500lx.

4.2 Test conditions

4.2.1 Before the test, the sample should be placed in the test environment specified in 4.1a) for more than 2h before the test can be carried out.

4.2.2 When measuring with a reflection densitometer, it should be set to an absolute density value, and 5 sheets of copy paper of the same batch as the sample should be laid under the sample.

5 Testing equipment and materials

5.1 Reflection Density Meter Repeatability is less than or equal to 0.01D.