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

GB/T 17001.3-2025

Replacing GB/T 18752-2002

**Anti-counterfeiting printing ink - Part 3: Thermochromic
anti-counterfeiting printing ink**

防伪油墨 第3部分：热敏变色防伪油墨

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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 for standardization documents" Drafting. This document is Part 3 of GB/T 17001 Anti-counterfeiting inks. GB/T 17001 has been published in the following parts.

--- Part 1: UV-excited fluorescent anti-counterfeiting ink;

2.Magnetic anti-counterfeiting ink;

3.Thermochromic anti-counterfeiting inks;

4.Sunlight-induced color-changing anti-counterfeiting inks;

5.Pressure-sensitive anti-counterfeiting inks;

6.Infrared excited fluorescent anti-counterfeiting ink;

7.Optically variable anti-counterfeiting inks;

8.Anti-tampering and anti-counterfeiting inks. This document replaces GB/T 18752-2002 "Thermochromic Anti-counterfeiting Ink". Compared with GB/T 18752-2002, except for the structural adjustment and In addition to editorial changes, the main technical changes are as follows:

a) The classification has been changed (see Chapter 4, Chapter 4 of the.2002 edition);

b) Added "Physical indicators" (see 5.1);

c) "Anti-counterfeiting identification features and resistance" has been changed (see 5.2,

5.3 of the.2002 edition);

1 Scope

GB/T 17001.3-2025 is the Chinese national standard on anti-counterfeiting printing ink - part 3: thermochromic anti-counterfeiting printing ink, in the field of environment and health protection, safety. 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 29 August 2025 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 March 2026. Classification: ICS 13.310, CCS A90. 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 provides the classification of thermosensitive color-changing anti-counterfeiting inks, and specifies the technical requirements, inspection rules and signs of thermosensitive color-changing anti-counterfeiting inks. Packaging, transportation and storage requirements, and corresponding test methods are described. This document is applicable to various thermosensitive color-changing anti-counterfeiting inks.

2 Normative references

The contents of the following documents constitute the essential clauses of this document through normative references in this document. For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies to This document.

GB/T 250-2008 Textiles-Tests for colour fastness-Grey scale for assessing change in colour

GB/T 730-2008 Textiles-Tests for colour fastness-Blue wool standard sample (1-7)-Quality control

GB/T 3186 Sampling of paints, varnishes and raw materials for paints and varnishes

GB/T 13217.1-2020 Test method for ink color and tinting strength

GB/T 13217.3 Test method for ink fineness

GB/T 13217.4-2020 Test method for ink viscosity

GB/T 13217.5 Test method for ink drying

GB/T 13217.7 Test method for ink adhesion

GB/T 14624.3 Test method for fluidity of offset printing inks GB 17930 Motor Gasoline

GB/T 18723 Printing technology - Determination of viscosity of paste inks and binders using a viscometer

GB/T 18724 Printing technology - Determination of resistance of printed matter and printing inks to various reagents

GB/T 19437 Printing technology - Spectral measurement and colorimetric calculation of printed images

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1 Ink that changes color when the temperature changes.

3.2 Standard sample reference sample Samples confirmed by both the supplier and the buyer for comparison of the quality of thermochromic anti-counterfeiting ink (3.1).

3.3 test sample Sample of thermochromic anti-counterfeiting ink (3.1) to be tested.