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

**GB/T 13217.5-2023**

Replacing GB/T 13217.5-2008

**Testing method for drying of printing ink**

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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 5 of GB/T 13217. GB/T 13217 has released the following parts.

---GB/T 13217.1 Testing method for ink color and tinting strength;

---GB/T 13217.2 Liquid ink gloss test method;

---GB/T 13217.3 Ink fineness inspection method;

---GB/T 13217.4 Ink viscosity test method;

---GB/T 13217.5 Ink drying inspection method;

---GB/T 13217.7 Ink adhesion test method;

---GB/T 13217.8 Liquid ink anti-adhesion test method. This document replaces GB/T 13217.5-2008 "Inspection method for initial drying of liquid ink" and GB/T 14624.4-2008 "Offset printing ink" Conjunctival dryness test method. This document is based on GB/T 13217.5-2008, integrating the contents of GB/T 14624.4-2008, and Compared with GB/T 13217.5-2008, in addition to structural adjustments and editorial changes, the main technical changes are as follows:

---Changed the scope (see Chapter 1, Chapter 1 of GB/T 13217.5-2008);

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

--- Added drying inspection method for offset printing ink paper (see 5.1.1);

---Added offset printing ink conjunctival dryness inspection method (see 5.1.2);

---Added the test method for the heat-setting properties of offset heat-set rotary inks (see 5.1.3);

## 1 Scope

GB/T 13217.5-2023 is the Chinese national standard on testing method for drying of printing ink, in the field of paint and colour industries. 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 7 September 2023 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 April 2024. Classification: ICS 87.080, CCS Y44. 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 methods for testing ink dryness. This document is applicable to the inspection of ink drying. This document does not apply to the inspection of energy-curable inks.

## 2 Normative reference documents

The contents of the following documents constitute essential provisions of this document through normative references in the text. Among them, the dated quotations For undated referenced documents, only the version corresponding to that date applies to this document; for undated referenced documents, the latest version (including all amendments) applies to this document. GB/T 1468 Tracing paper

GB/T 10335.1-2017 Coated paper and cardboard coated art printing paper (coated paper)

GB/T 23758 Industrial Parchment

GB/T 30130-2013 Offset printing paper

GB/T 38153.1 Laboratory preparation of printing technology test samples Part

## 3 Terms and definitions

The following terms and definitions apply to this document.

3.1 drying The entire process of converting a thin layer of ink into a solid ink film. [Source: GB/T 15962-2018,4.56]

3.2 initialdryness Characterizes the ability of the ink to begin drying. [Source: GB/T 15962-2018,4.63]

## 4 Inspection conditions

The inspection should be carried out under the conditions of temperature  $(23\pm 2)^{\circ}\text{C}$  and relative humidity  $(65\pm 5)\%$ .

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