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

**GB/T 14624.1-2009**

Replacing GB/T 14624.1-1993

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**Test method for colour of offset ink**

胶印油墨颜色检验方法

**(English Translation)**

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### Foreword

GB/T 14624 in this section instead of GB/T 14624.1-1993 "color ink testing methods." this portion of the GB/T 14624.1-1993 main differences are as follows.

- Text format prescribed GB/T 1.1-2000 been modified;
- Standard name was changed to "offset printing ink color test methods";
- Like paper made from scratch blueprint paper to 80g/m2 offset printing paper;
- Ambient temperature index has been adjusted to cancel the humidity requirements;
- Increased provision for standard sample and sample viscosity difference;
- Added Appendix A (gray scale for assessing change using methods like cards).

This section of Appendix A normative appendix.

This part is proposed by the China National Light Industry Council.

This part of the National Standardization Technical Committee under the jurisdiction of the ink.

This section is drafted. Hangzhou Toka Ink Chemical Co., Ltd., Taiyuan, Gao Laurie Ink Chemical Co., Ltd. Zhejiang Yong Chemical Co.

Secretary, Tianjin Toyo Ink Co., Ltd., the state printing and decorating products Quality Supervision and Inspection Center.

### 1 Scope

GB/T 14624 in the provisions of this part of offset printing ink color test.

This section applies to offset printing ink color test.

## 2 Normative references

The following documents contain provisions which, through reference GB/T 14624 in this section constitute provisions of this section. For dated reference documents Member, all subsequent amendments (not including errata content) or revisions do not apply to this section, however, encouraged to reach under this section Parties to research agreement to use the latest versions of these documents. For undated reference documents, the latest versions apply to this section.

GB 250 assessing change in color like the gray card QB/T 1012 offset printing paper Principle 3 the sample was scraped with a standard parallel samples in standard light gray contrast assessing change in color sample card, visual view of both the sample and standard color difference Different degree.

## 4 Tools and Materials

### 4.1

palette knife.

### 4.2

blade.

### 4.3

glass.

### 4.4

Sample scratch paper. 80g/m<sup>2</sup> offset printing paper, in line with QB/T 1012A type; Size 210mm x 70mm, 130mm at the top down Printed on 20mm wide black bars indicate the ground.

**Note:** Black Gantt view for ink opacity.

### 4.5

cellophane.

### 4.6

Evaluation of color like the gray card. meet GB 250.

## 5 Test conditions

### 5.1

test should be carried out at a temperature of  $(23 \pm 2)$  °C conditions.

## 5.2

View complexion and ink should be conducted under D65 standard light source incident angle of  $45^{\circ} \pm 5^{\circ}$ .

## 5.3

View background light should be scraped like perspective.

# 6 Step, test

## 6.1

with a palette knife to take samples and standard samples, each about 5g, placed on a glass plate, respectively, mix thoroughly.

## 6.2

with a palette knife to take about 0.5g standard applied to scrape the top right kind of paper, and then take a sample of about 0.5g sample coated paper scraping the top left of the two should be adjacent but not connected.

## 6.3

The blade is placed on top of the coated sample of the ink, so that the main part of the blade and the blade-like paper angle of  $90^{\circ}$ . Forced to scrape the ink from top to bottom Scrape into thin like paper, until the black bars indicate 1/2 at reduced force, so that the inside of the blade angle of approximately  $25^{\circ}$  angle, so that the ink on the paper painted relatively Thick with the ink (Figure 1). Final scratch-like shape should be similar to Figure 1.