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

GB/T 9761-2008

Replacing GB/T 9761-1988

**Paints and varnishes -- Visual comparison of the colour of
paints**

色漆和清漆 色漆的目视比色

(English Translation)

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5.1 General

Foreword

This standard is equivalent to international standards ISO 3668:1998 "Paints and varnishes paints --- visual colorimetric" (in English).

This standard replaces GB/T 9761-1988 "Paints and varnishes - Visual comparison of color." the previous version of Standard GB/T 9761-1988 main technical differences are as follows.

- 1988 Edition system equivalent to ISO 3668. 1976;
- Assess the quality of different methods of artificial light;
- Different than the color box inside painted desired color representation;
- Check whether the observer with color vision defects different methods;
- Increase the size of the test plate, and increases for larger test panels use a colorimetric gray shroud formed to meet the requirements of the viewing area content;
- Increased levels of chromatic aberration evaluation and representation.

This standard Annex A, Annex B is normative appendix, Appendix C is informative appendix.

The standard proposed by China Petroleum and Chemical Industry Association.

This standard by the National Standardization Technical Committee paint pigment.

This standard was drafted. in the construction of Changzhou coating Chemical Research Institute, Kunshan City Shiming Technology Development Co., Ltd.

1 Scope

This standard is one of the series of standards for paints, varnishes and sampling and testing of related products.

This standard specifies a color coating paints and related products - Visual colorimetric method, the sample is compared with standard samples, standard samples may Preparation of new reference standard plate or a standard board, the pilot can be compared or under artificial light in color box under natural daylight.

If you do not agree in advance on the lighting conditions and viewing conditions, this standard does not apply to contain special effect pigments such as metallic paint coating Comparison of color film.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 9271 Paints and varnishes - Standard panels for (GB/T 9271-1988, eqv ISO 1514. 1984) GB/T 9278 paint sample conditioning and testing temperature and humidity (GB/T 9278-2008, ISO 3270. 1984, Paintsand varnishesandtheirrawmaterials-Temperaturesandhumiditiesforconditioningandtesting, IDT) GB/T 11186.1 coating color measurement method Part 1. Principles (GB/T 11186.1-1989, eqv ISO 7724-1.

1984, Paintsandvarnishes-Colorimetry-Part 1. Principles) GB/T 11186.2 coating color measurement method Part II. Color Measurement (GB/T 11186.2-1989, eqv ISO 7724-2. 1984, Paintsandvarnishes-Colorimetry-Part 2. Colourmeasurement) GB/T 11186.3 coating color measurement method Part 3. Calculation of color differences (GB/T 11186.3-1989, eqv ISO 7724-3. 1984, Paintsandvarnishes-Colorimetry-Part 3. Calculationofcolour) GB/T 13452.2 Paints and varnishes - Determination of film thickness (GB/T 13452.2-2008, ISO 2808:2007, IDT) CIE51.2.1999 colorimetric system with daylight simulation quality evaluation method Principle 3 Comparison of the paint film was observed to be the color under specified lighting conditions and viewing conditions, or under artificial lighting in natural sunlight , And if colorimetric under artificial light, will have to use colorimetric box. It represents the color component (hue, saturation, lightness) may be predetermined One method, for example, the use of specific rating methods described can also be considered metamerism assessment methods.

Supplementary information needed 4 for any particular application, the test methods specified in this standard needs to improve with additional information. Supplementary information in the accompanying content A record listed.

5.1 General

For routine colorimetric, you can use natural sunlight or artificial light. The nature of natural daylight is unstable, and the judgment of the observer is susceptible to colored objects around, so for arbitration colorimetric, shall be subject to strict control of artificial light, the observer should wear neutral colors GB/T 9761-2008/ISO 3668:1998