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**Names and Colorimetric Characteristics of Chinese
Common Colors**

中国常见色色名和色度特性

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Names and Colorimetric Characteristics of Chinese Common Colors

1 Scope

This Standard stipulates the names, color systems and typical chromaticity coordinates of Chinese common colors, as well as the mark numbers of Chinese color systems, and standard samples of Chinese common colors.

This Standard is applicable to the determination of color naming and chromaticity coordinates of common colors. It is also applicable to color correction and information communication during color reproduction and representation in relevant fields.

2 Normative References

The following documents are indispensable to the application of this document. In terms of references with a specified date, only versions with a specified date are applicable to this document. In terms of references without a specified date, the latest version (including all the modifications) is applicable to this document.

GB/T 3977 *Specification of Colors*;

GB/T 3978 *Standard Illuminants and Geometric Conditions*;

GB/T 3979 *Methods for the Measurement of Object Color*;

GB/T 5698 *Glossary of Color Terms*;

GB/T 7921 *Uniform Color Space and Color Difference Formula*;

GB/T 15608 *The Chinese Color System*;

GB/T 15610 *Method of Visual Appraisal of Metamerism*;

GB/T 31430 *Names and Colorimetric Characteristics of Traditional Colors in China*

3 Terms and Definitions

What is defined in GB/T 5698, and the following terms and definitions are applicable to this document.

3.1 Chinese Common Colors

Chinese common colors refer to the colors that can often be seen in Chinese daily life.

4 Names, Color Systems and Typical Chromaticity Coordinates of Chinese Common Colors, Mark Numbers of Chinese Color Systems

4.1 Chinese common colors are divided into chromatic system and achromatic system. Specifically speaking, chromatic system includes eight color tones, namely, brown, red, orange, yellow, green, cyan, blue and purple, as well as Chinese people's skin color and metal color.

4.2 Please refer to Appendix A for typical chromaticity coordinates of Chinese common colors and mark numbers of Chinese color systems.

4.3 The measurement conditions of chromaticity coordinates of Chinese common colors shall comply with methods for the measurement of object color in GB/T 3979. Conduct the measurement under D65 standard illuminants and $de:8^\circ$ geometric conditions described in GB/T 3978. Through CIE1964 standard colorimetric system described in GB/T 3977, conduct specification of colors.

4.4 Mark numbers of Chinese color systems of Chinese common colors shall be calculated in accordance with the stipulations in GB/T 15608.

5 Standard Samples of Chinese Common Colors

5.1 Standard samples of Chinese common colors are constituted of color samples of corresponding color names and chromaticity values.

5.2 Tolerance of sample color difference in standard samples of Chinese common colors: chromatic system $\Delta E_{ab} \leq 3.0$; achromatic system $\Delta E_{ab} \leq 1.0$. Color difference shall be calculated in accordance with the stipulations in GB/T 7921.

5.3 Visual color appraisal conditions of standard samples of Chinese common colors shall comply with the stipulations in GB/T 15610.

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