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

GB/T 32604-2016

**Textiles -- Tests for colour fastness -- Vocabulary used in colour
measurement**

纺织品 色牢度试验 颜色测量用词汇

(English Translation)

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Foreword

This standard is drafted in accordance with the rules given in GB/T 1.1-2009 and GB/T 20000.2-2009.

This standard uses the translation method equivalent to ISO 105-A08..2001 "Textile color fastness test Part A08. Color measurement Vocabulary ", and ISO 105-A08..2001 are as follows.

- the preamble in the international standard was removed;

--- Increased index.

This standard is proposed by China Textile Industry Federation.

This standard is under the jurisdiction of the National Textile Standardization Technical Committee (SAC/TC209).

The drafting of the standard units. the spinning standard (Beijing) Inspection and Certification Center Co., Ltd., textile industry science and technology development center, textile industry standard Institute of Quasi - Institute.

1 Scope

This standard specifies the terms and definitions for color measurement used in the textile color fastness test standard. The definition in this standard only in the textile color fastness test standard within the scope of use.

2 Terms and definitions

Chroma

The property of the color used to indicate the degree of deviation of the color from the grayness of the color.

Note: C^*_{ab} is the metric scale defined in the CIELAB formula.

CIE1976, L^* , a^* , b^* color space CIE1976, L^* , a^* , b^* color environment CIELAB color

space CIELAB colour space the transformation of the CIE tristimulus value to a relatively uniform three - dimensional diagonal space.

Note: The opposing variables are Brightness - Darkness (L^*), Red - Green (a^*) and Yellow - Blue (b^*). The latter two can be further converted to saturation (C^*_{ab}) and hue (h_{ab}).

CIE1976, L^* , a^* , b^* Color difference CIE1976, L^* , a^* , b^* colour difference CIELAB Color CIELAB colour difference ΔE^*_{ab} the Euclidean distance between the point in the CIELAB color space representing the point of the sample and the point on which it is referenced.

CIE chromaticity coordinates CIE chromaticity coordinates the sum of the sum of the three stimulus values and the sum of the three stimuli.

Note: X_{10} , Y_{10} and Z_{10} correspond to x_{10} , y_{10} and z_{10} ; X , Y and Z correspond to x , y and z . Since $x_{10} y_{10} z_{10} = 1$, $xyz = 1$, then x_{10} and y_{10} or x and y enough to determine the color.

CIE standard observer data CIE standard observer data when the color is mixed, the average observer needs to observe the three conditions that are required to match the radiation at each wavelength in the visible spectrum Specifies the relative amount of color stimuli.

Note: CIE defines the CIE1931 (2 °) standard chroma observer and the CIE1964 (10 °) supplemental standard chroma observer.

CIE standard lighting data CIE standard illuminant data the spectral power distribution of the standard illuminator specified by CIE.

Note: Standard illuminants related to the color fastness test standard for textiles are designated as A (represented by tungsten filament), C (average daylight) and D65 (including ultraviolet of the average daylight). The F series (F1 to F12), which is defined by CIE as a representative fluorescent lamp, is a recommended illuminating body.