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

**中华人民共和国国家标准**

GB/T 251-2008/ISO 105-A03: 1993

Replace GB 251-1995

**Textiles—Tests for colour fastness—  
Grey scale for assessing staining**

**纺织品 色牢度试验**

**评定沾色用灰色样卡**

(ISO 105-A03: 1993, IDT)

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Quarantine of the People's Republic of China**

**Standardization Administration of the People's Republic of China**

# Textiles—Tests for colour fastness— Grey scale for assessing staining

## 1 Scope

This Standard specifies the grey scale for determining staining of adjacent fabrics in colour fastness tests, and its use. A precise colorimetric specification of the scale is given as a permanent record against which newly prepared working standards and standards that may have changed can be compared.

## 2 Principle

**2.1** The essential, or 5-step, scale consists of five pairs of non-glossy grey or white colour chips (or swatches of grey or white cloth), which illustrate the perceived colour differences corresponding to fastness ratings 5, 4, 3, 2 and 1. This essential scale may be augmented by the provision of similar chips or swatches illustrating the perceived colour differences corresponding to the half-step fastness ratings 4-5, 3-4, 2-3 and 1-2, such scales being termed 9-step scales. The first member of each pair is white in colour and the second member of the pair illustrating fastness rating 5 is identical with the first member. The second members of the remaining pairs are increasingly darker in colour so that each pair illustrates increasing contrasts or perceived colour differences which are defined colorimetrically. The full colorimetric specification is given below.

**2.2** The chips or swatches shall be white or neutral grey in colour and shall be measured with a spectrophotometer with the specular component included. The colorimetric data shall be calculated using CIE 1964 supplementary standard colorimetric system (10° observer data) for illuminant D<sub>65</sub>.

**2.3** The Y tristimulus value of the first member (white) of each pair shall be not less than 85.

**2.4** The second member of each pair shall be such that the colour difference between it and the adjacent first member is as follows:

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