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NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA

GB 251-1995

ISO 105/A03-1993

Replacing GB 251-84

Gray scale for assessing staining

评定沾色用灰色样卡

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Gray scale for assessing staining

This standard equivalently adopts the international standard ISO 105/A03-1993 "Textiles - Color fastness test - Gray scale for assessing staining".

1 Subject content and scope of application

This standard specifies the gray scale for assessing the staining of textiles, in the color fastness test of textiles, as well as its application method. The precise color measurement interval value of this gray scale can be used, as a permanent record, for the comparison of newly produced gray scales AND the gray scales that have changed during storage or use.

2 Principles

2.1 The basic gray scale is composed of five pairs of matt gray or white small-cards (paper- or cloth-pieces), which are divided into five fastness grades, namely 5, 4, 3, 2, 1, according to the distinguishable color difference. Add half a grade in every two grades, namely 4-5, 3-4, 2-3, 1-2, to expand it into a five-grade nine-level gray scale. The first composition of each pair is white, in which only the second composition of color fastness grade 5 is consistent with the first composition; the second composition of other pairs becomes deeper in turn, AND the color difference gradually increases. All grades of color differences are determined by colorimeter; the entire chromaticity is specified as follows.

2.2 Pieces of paper or cloth shall be of white or neutral gray color. It shall be measured using a spectrophotometer with specular component. Chromaticity data are calculated, using the Chromaticity system (10° field of view) and D_{65} luminosity, in the CIE 1964 supplementary standard.

2.3 The tristimulus value Y of the first composition of each pair shall be not lower than 85.

2.4 The color difference, between the second composition and the first composition of each pair, is specified as follows:

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