



JAPANESE
INDUSTRIAL
STANDARD

Translated and Published by
Japanese Standards Association

JIS L 0805 : 2005
(SWTF/JSA)

Grey scale for assessing staining

ICS 59.080.01

Reference number : JIS L 0805 : 2005 (E)

Foreword

This translation has been made based on the original Japanese Industrial Standard revised by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee as the result of proposal for revision of Japanese Industrial Standard submitted by Suga Weathering Technology Foundation (SWTF)/Japanese Standards Association (JSA) with the draft being attached, based on the provision of Article 12 Clause 1 of the Industrial Standardization Law applicable to the case of revision by the provision of Article 14. Consequently **JIS L 0805 : 1998** is replaced with this Standard.

This revision has been made based on **ISO 105-A03 : 1993** *Textiles—Tests for colour fastness—Part A03 : Grey scale for assessing staining* for the purposes of making it easier to compare this Standard with International Standard; to prepare Japanese Industrial Standard conforming with International Standard; and to propose a draft of an International Standard which is based on Japanese Industrial Standard.

Attention is drawn to the possibility that some parts of this Standard may conflict with a patent right, application for a patent after opening to the public, utility model right or application for registration of utility model after opening to the public which have technical properties. The relevant Minister and the Japanese Industrial Standards Committee are not responsible for identifying the patent right, application for a patent after opening to the public, utility model right or application for registration of utility model after opening to the public which have the said technical properties.

Date of Establishment: 1965-01-01

Date of Revision: 2005-01-20

Date of Public Notice in Official Gazette: 2005-01-20

Investigated by: Japanese Industrial Standards Committee

Standards Board

Technical Committee on Consumer Life
Products

JIS L 0805 : 2005, First English edition published in 2005-08

Translated and published by: Japanese Standards Association
4-1-24, Akasaka, Minato-ku, Tokyo, 107-8440 JAPAN

In the event of any doubts arising as to the contents,
the original JIS is to be the final authority.

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Printed in Japan

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Grey scale for assessing staining

Introduction This Japanese Industrial Standard has been prepared by translating the fourth edition of **ISO 105-A03 Textiles—Tests for colour fastness—Part A03 : Grey scale for assessing staining** published in 1993 with some modification in technical content.

The portions given side lines or dotted underlines in this Standard are the matters in which the contents of the original International Standard have been modified. A list of modification with the explanations is given in annex 2 (informative).

1 Scope This Standard specifies the grey scale for assessing staining to be used as the criteria (hereafter referred to as “grey scale for assessing staining”) for assessing visually the staining of adjacent fabric produced as the result of colour fastness test.

Remarks : The International Standard corresponding to this Standard is as follows.

In addition, symbols which denote the degree of correspondence in the contents between the relevant International Standard and **JIS** are IDT (identical), MOD (modified), and NEQ (not equivalent) according to **ISO/IEC Guide 21**.

ISO 105-A03 : 1993 *Textiles—Tests for colour fastness—Part A03 : Grey scale for assessing staining* (MOD)

2 Normative references The following standards contain provisions which, through reference in this Standard, constitute provisions of this Standard. The most recent editions of the standards (including amendments) indicated below shall be applied.

JIS Z 8105 *Glossary of colour terms*

JIS Z 8721 *Colour specification—Specification according to their three attributes*

JIS Z 8722 *Methods of colour measurement—Reflecting and transmitting objects*

JIS Z 8730 *Colour specification—Colour differences of object colours*

3 Definitions For the purposes of this Standard, the following definitions apply:

- a) **achromatic** colour without hue (see **JIS Z 8105**)
- b) **colour difference based on $L^*a^*b^*$ colour model (ΔE^*_{ab})** the numerical value obtained according to **7.1** of **JIS Z 8730** by measuring according to clause **5** or **6** of **JIS Z 8722** using the values $X_{10, D65}$, $Y_{10, D65}$, $Z_{10, D65}$ under the standard illuminant D_{65}
- c) **colour difference based on Adams-Nickerson’s colour difference formula (ΔE_{AN})** the numerical value obtained according to annex 1 (normative) by measuring according to clause **5** or **6** of **JIS Z 8722** using $X_{2, C}$, $Y_{2, C}$, $Z_{2, C}$ under the standard illuminant C