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**Grey scale for assessing change in
colour**

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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 0804:1994** is replaced with this Standard.

This revision has been made based on **ISO-105-A02:1993, Textiles — Tests for colour fastness — Part A02: Grey scale for assessing change in colour** 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.

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

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Contents

	Page
Introduction	1
1 Scope	1
2 Normative references	1
3 Definitions	1
4 Colour of colour chips	2
5 Structure, shape and dimensions	2
6 Appearance	3
7 Colorimetry method	3
8 Inspection method	3
Annex 1 (normative) Colour difference according to Adams-Nickerson's colour difference formula	4
Annex 2 (informative) Comparison table between JIS and corresponding International Standard	5

Grey scale for assessing change in colour

Introduction This Japanese Industrial Standard has been prepared based on the fourth edition of **ISO 105-A02**, *Textiles — Tests for colour fastness — Part A02: Grey scale for assessing change in colour*, published in 1993, with the addition of the specification (colour of colour chip) and provision (colour difference according to Adams-Nickerson's colour difference formula) not stated in corresponding International Standard.

Portions given sidelines or dotted underlines are the matters modified from the original International Standard. The list of modifications with the explanation is given in annex 2 (informative).

1 Scope This Standard specifies the grey scale to be used as a reference when assessing the degree of change in colour of the specimen in colour fastness tests visually.

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-A02:1993 *Textiles — Tests for colour fastness — Part A02: Grey scale for assessing change in colour* (MOD)

2 Normative references The following standards contain provision 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** colour without hue (see **JIS Z 8105**)
- b) **colour difference according to $L^*a^*b^*$ colorimetric system (ΔE^*_{ab})** Numerical value obtained according to 7.1 of **JIS Z 8730** by measuring by the method of clause 5 or 6 of **JIS Z 8722** and using $X_{10, D65}$, $Y_{10, D65}$ and $Z_{10, D65}$ by standard illuminant D_{65}
- c) **colour difference according to Adams-Nickerson's colour difference formula (ΔE_{AN})** Numerical value obtained according to Annex 1 (normative) by measuring by the method of clause 5 or 6 of **JIS Z 8722** and using $X_{2, C}$, $Y_{2, C}$ and $Z_{2, C}$ by the standard illuminant, C.