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**Instrumental determination of
colour fastness—
Change in colour and staining**

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Foreword

This translation has been made based on the original Japanese Industrial Standard established by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee according to the proposal of establishing a Japanese Industrial Standard from the Suga Weathering Technology Foundation (SWTF)/the Japanese Standards Association (JSA), with a draft of Industrial Standard based on the provision of Article 12 Clause 1 of the Industrial Standardization Law.

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In the event of any doubts arising as to the contents,
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Instrumental determination of colour fastness— Change in colour and staining

Introduction This Japanese Industrial Standard expresses the change in colour and staining on the basis of the concept of the sense of colour depth indicated in **JIS L 0808** as the standard value and is based on the measuring and evaluating method which catches both the change in colour of the test piece and the staining of the standard adjacent fabric in an integral way by comprehending them in accordance with the sense of contrast defined in **ISO 105-A08**.

1 Scope This Standard specifies the method for determination of change in colour and degree of staining by measuring and evaluating, using instruments, the value of the test piece subjected to the colour fastness test, for comparing with the grade of the grey scale for assessing change in colour and the grey scale for assessing staining.

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 L 0801 *General principles of test methods for colour fastness*

JIS L 0803 *Standard adjacent fabrics for staining of colour fastness test*

JIS L 0804 *Grey scale for assessing change in colour*

JIS L 0805 *Grey scale for assessing staining*

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

3 Essentials The tristimulus values X_{10} , Y_{10} and Z_{10} or the tristimulus values X_C , Y_C and Z_C of the test piece and the standard adjacent fabric before and after the colour fastness test are measured, and the grade of grey scale for assessing change in colour is obtained from the measured value N_C for comparing with grey scale for assessing change in colour and the grade of grey scale for assessing staining from the measured value N_S for comparing with grey scale for assessing staining.

4 Apparatus and material The following apparatus and material shall be used:

- a) **Colorimeter** The colorimeter can measure the tristimulus values X_{10} , Y_{10} and Z_{10} at standard illuminant D_{65} and 10° visual field and the tristimulus values X_C , Y_C and Z_C at standard illuminant C and 2° visual field in accordance with the spectrophotometric colorimetry or photoelectric tristimulus colorimetry specified in **JIS Z 8722**. In addition, such method that the values obtained by calculating directly the formula specified in **6 b)** are converted to the respective corresponding grades of the grey scale for assessing change in colour specified in **JIS L 0804** and/or the grey scale for assessing staining specified in **JIS L 0805** in accordance with **6 c)** is included.