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(JPMA/JSA)

**Testing methods for paints—
Part 1: General rule—Section 7:
Determination of film thickness**

ICS 87.040

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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 Japan Paint Manufacturers Association (JPMA)/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 K 5600-1-7:1999** is replaced with this Standard.

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JIS K 5600 series consists of the following 9 parts under the general title “*Testing methods for paints*”:

Part 1: General rule

Part 2: Characteristics and stability of paints

Part 3: Film formability

Part 4: Visual characteristics of film

Part 5: Mechanical property of film

Part 6: Chemical property of film

Part 7: Long-period performance of film

Part 8: Evaluation of degradation of paint coatings

Part 9: Coating powders

JIS K 5600-1 consists of the following 8 parts under the title of “*Testing methods for paints—Part 1: General rule*”:

Section 1: General test methods (conditions and methods)

Section 2: Sampling

Section 3: Examination and preparation of samples for testing

Section 4: Standard panels for testing

Section 5: Coating of test panel (brush application)

Section 6: Temperatures and humidities for conditioning and testing

Section 7: Determination of film thickness

Section 8: Reference sample

Testing methods for paints— Part 1: General rule— Section 7: Determination of film thickness

Introduction

This Japanese Industrial Standard has been prepared based on the fourth edition of **ISO 2808** published in 2007 with some modifications of the technical contents.

The portions given dotted underlines are the matters in which the contents of the corresponding International Standard have been modified. A list of modifications with the explanations is given in Annex JA.

1 Scope

This Standard describes a number of methods that are applicable to the measurement of the thickness of coatings applied to a substrate. Methods for determining wet-film thickness, dry-film thickness and the film thickness of uncured powder layers are described.

NOTE 1 An overview on the methods is given in Annex A, in which the field of application, existing standards and the precision are specified for the individual methods.

NOTE 2 The International Standard corresponding to this Standard and the symbol of degree of correspondence are as follows.

ISO 2808:2007 *Paints and varnishes—Determination of film thickness* (MOD)

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 21-1**.

2 Normative references

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

JIS B 7502 *Micrometer callipers*

JIS B 7503 *Mechanical dial gauges*

JIS G 3141 *Cold-reduced carbon steel sheet and strip*

JIS K 5500 *Glossary of terms for coating materials*

JIS R 6252 *Abrasive papers*

JIS R 6253 *Waterproof abrasive papers*