

JIS

JAPANESE
INDUSTRIAL
STANDARD

Translated and Published by
Japanese Standards Association

JIS K 5600-8-1 : 2014

(JPMA/JSA)

**Testing methods for paints—
Part 8: Evaluation of degradation of
coatings—Designation of quantity
and size of defects, and of intensity
of uniform changes in appearance—
Section 1: General principles and
rating schemes**

ICS 87.040

Reference number : JIS K 5600-8-1 : 2014 (E)

K 5600-8-1 : 2014

Date of Establishment: 1999-11-30

Date of Revision: 2014-03-20

Date of Public Notice in Official Gazette: 2014-03-20

Investigated by: Japanese Industrial Standards Committee
Standards Board

Technical Committee on Chemical Products

JIS K 5600-8-1:2014, First English edition published in 2016-05

Translated and published by: Japanese Standards Association
Mita MT Building, 3-13-12, Mita, Minato-ku, Tokyo, 108-0073 JAPAN

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

© JSA 2016

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from the publisher.

Printed in Japan

NH/AT

PROTECTED BY COPYRIGHT

Contents

	Page
Introduction.....	1
1 Scope.....	1
1A Normative references.....	1
2 General principles of the designation system.....	2
3 Assessment of defects, size and intensity of changes.....	2
3.1 General.....	2
3.2 Designation of intensity of change in coating.....	2
3.3 Designation of quantity of defects.....	3
3.4 Designation of size of defects.....	3
4 Relation with other sections of rating.....	4
5 Expression of results.....	4
6 Test report.....	5
Annex JA (informative) Comparison table between JIS and corresponding International Standard.....	6

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 5600-8-1**:1999 is replaced with this Standard.

This **JIS** document is protected by the Copyright Law.

Attention is drawn to the possibility that some parts of this Standard may conflict with patent rights, applications for a patent after opening to the public or utility model rights. The relevant Minister and the Japanese Industrial Standards Committee are not responsible for identifying any of such patent rights, applications for a patent after opening to the public or utility model rights.

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 coatings—Designation of quantity and size of defects, and of intensity of uniform changes in appearance

Part 9: Coating powders

JIS K 5600-8 consists of the following 6 parts under the title of “*Testing methods for paints—Part 8: Evaluation of degradation of coatings—Designation of quantity and size of defects, and of intensity of uniform changes in appearance*”:

Section 1: General principles and rating schemes

Section 2: Designation of degree of blistering

Section 3: Designation of degree of rusting

Section 4: Designation of degree of cracking

Section 5: Designation of degree of flaking

Section 6: Assessment of degree of chalking by tape method

Testing methods for paints—Part 8: Evaluation of degradation of coatings— Designation of quantity and size of defects, and of intensity of uniform changes in appearance—Section 1: General principles and rating schemes

Introduction

This Japanese Industrial Standard has been prepared based on the third edition of **ISO 4628-1** published in 2003 with some modifications of the technical contents.

The portions given sidelines or 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 defines a system for designating the quantity and size of defects and the intensity of changes in appearance of coatings and outlines the general principles of the system used throughout **JIS K 5600-8**.

NOTE 1 This system is intended to be used, in particular, for defects caused by ageing and weathering, and for uniform changes such as colour changes, for example yellowing. The other parts of **JIS K 5600-8** provide pictorial standards or other means of evaluating particular types of defect. As far as possible, already existing evaluation schemes have been used as the basis.

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

ISO 4628-1:2003 *Paints and varnishes—Evaluation of degradation of coating—Designation of quantity and size of defects, and of intensity of uniform changes in appearance—Part 1: General introduction and designation system* (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**.

1.1 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 K 5600-8-2 *Testing methods for paints—Part 8: Evaluation of degradation of paint coatings—Section 2: Designation of degree of blistering*