



JAPANESE
INDUSTRIAL
STANDARD

Translated and Published by
Japanese Standards Association

JIS K 5600-2-6 : 1999

(ISO 9514 : 1992)

**Testing methods for paints—
Part 2 : Characteristics and
stability of paints—
Section 6 : Pot life**

ICS 87.040

Descriptors : paints, film-forming capacity, cross-cut test, testing, stability, life
(durability)

Reference number : JIS K 5600-2-6 : 1999 (E)

K 5600-2-6 : 1999 (ISO 9514 : 1992)

Foreword

This translation has been made based on the original Japanese Industrial Standard established by the Minister of International Trade and Industry through deliberations at the Japanese Industrial Standards Committee in accordance with the Industrial Standardization Law.

JIS K 5400 corresponding to this Standard will be withdrawn and replaced with this Standard in April 2002, at the time of three years passed after establishment of this Standard.

Consequently it is recommended to comply with this Standard.

JIS K 5600 consists of the following parts.

JIS K 5600 Part 1 Section 1 to Section 8	<i>General rule</i>
JIS K 5600 Part 2 Section 1 to Section 7	<i>Characteristics and stability of paints</i>
JIS K 5600 Part 3 Section 1 to Section 6	<i>Film formability</i>
JIS K 5600 Part 4 Section 1 to Section 7	<i>Visual characteristics of film</i>
JIS K 5600 Part 5 Section 1 to Section 11	<i>Mechanical property of film</i>
JIS K 5600 Part 6 Section 1 to Section 3	<i>Chemical property of film</i>
JIS K 5600 Part 7 Section 1 to Section 8	<i>Long-period performance of film</i>
JIS K 5600 Part 8 Section 1 to Section 6	<i>Evaluation of degradation of paint coatings</i>

JIS K 5600-2 consists of the following sections under the title of "Testing methods for paints—Part 2 : Characteristics and stability of paints".

JIS K 5600 Part 2 Section 1	<i>Colour number (Gardner method)</i>
JIS K 5600 Part 2 Section 2	<i>Viscosity</i>
JIS K 5600 Part 2 Section 3	<i>Viscosity (Corn and plate methods)</i>
JIS K 5600 Part 2 Section 4	<i>Density</i>
JIS K 5600 Part 2 Section 5	<i>Fineness of grind</i>
JIS K 5600 Part 2 Section 6	<i>Pot life</i>
JIS K 5600 Part 2 Section 7	<i>Storage stability</i>

Date of Establishment: 1999-04-20

Date of Public Notice in Official Gazette: 1999-04-20

Investigated by: Japanese Industrial Standards Committee
Divisional Council on Chemical

JIS K 5600-2-6:1999, First English edition published in 2000-08

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.

© JSA 2000

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

Testing methods for paints— Part 2 : Characteristics and stability of paints— Section 6 : Pot life

Introduction This Japanese Industrial Standard has been prepared based on **ISO 9514** *Paints and varnishes—Determination of pot-life of liquid systems—Preparation and conditioning of samples and guidelines for testing* issued in 1992 as the first edition without changing the technical contents.

The portions underlined with dots in this Standard are not stated in the original International Standard.

1 Scope This Standard is one of a series of standards dealing with the sampling and testing of paints, varnishes and related products. This Standard specifies a method, carried out under standard conditions, for preparing and storing a sample so that its pot-life may be assessed by measuring a particular property.

Reactive systems curing within a 3-h period of time will have the end of their pot-life so near to the gel point that they will need to be tested for that particular property in accordance with **ISO 2535**, *Plastics—Unsaturated polyester resins—Measurement of gel time at 25 degrees C*.

Special “low-temperature” grades, curing within 3 h under standard conditions, will need to be tested at a lower specified temperature, so that it is possible to investigate particular properties, as required.

The value obtained may be subject to modification by suppliers for practical reasons (e.g. starting temperature) when giving advice to users and should then be called the “practical pot-life”.

The method may be carried out

- either as a pass/fail test by determining the particular property after a specified period of time, or
- as determination of the pot-life by repeating determinations at convenient intervals of time.

This Standard is not intended for *in situ* control on products during their application. It is intended to determine “pot-life” in the laboratory.

2 Normative references The following standards contain provisions which, through reference in this Standard, constitute provisions of this Standard. If the indication of the year of coming into effect is given to these referred standards, only the edition of indicated year constitutes the provision of this Standard but the revision and amendment made thereafter are not applied. The normative references without the indication of the year of coming into effect apply limiting only to the most recent edition (including the amendment).

JIS K 5600-1-2 Testing methods for paints—Part 1 : General rule—Section 2 : Sampling of products

Remarks : **ISO 1512 : 1991** *Paints and varnishes—Sampling of products in liquid or paste form* is identical with the said standard.