

SINGAPORE STANDARD

**Methods of test for paints, varnishes and
related materials**

– Part A5 : Lighting and procedure for visual assessments
of coatings

SS 5 : Part A5 : 2020

ISO 13076:2019, IDT
(ICS 87.040)

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Methods of test for paints, varnishes and related materials

– Part A5 : Lighting and procedure for visual assessments of coatings

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The content of this Singapore Standard was approved on 16 October 2020 by the Chemical Standards Committee (CSC) under the purview of the Singapore Standards Council.

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CSC set up the Technical Committee on Surface Coatings to oversee the preparation of this standard. The Technical Committee consists of the following members:

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	Dr Yin Xi Jiang	<i>Singapore Surface Engineering Association</i>

The Technical Committee set up the Working Group on Methods of Test for Paints, Varnishes and Related Materials to prepare this standard. The Working Group consists of the following experts who contribute in their *individual capacity*:

	Name
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Secretary	: Ms Siti Khadijah Bte Abdul Hamid
Members	: Ms Guo Yilin*
	Dr K A Khider Mohamed
	Ms Calista Lee
	Mr Lee Weyliang
	Ms Shirley Lim
	Ms Sathammai Ramanathan
	Mr Simplicio Escano Sala

*Note: Participation until July 2019

The organisations in which the experts of the Working Group are involved are:

AdMaterials Technologies Pte Ltd

Akzo Nobels Paints (Asia Pacific)

Haruna Paint Pte Ltd

Nippon Paint (Singapore) Co. Pte Ltd

Pidilite Innovation Centre Pte Ltd

Setsco Services Pte Ltd

TÜV SÜD PSB Pte Ltd

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National Foreword

This Singapore Standard was prepared by the Working Group on Methods of Test for Paints, Varnishes and Related Materials set up by the Technical Committee on Surface Coatings under the purview of CSC.

This standard is identical with ISO 13076 : 2019, “Paints and varnishes – Lighting and procedure for visual assessments of coatings”, published by the International Organization for Standardization.

NOTE – Reference to International Standards are replaced by applicable Singapore Standards/Technical References.

For an overview of other parts to Singapore Standard 5, it is recommended to read the information in SS 5 : Part 0 “General introduction” which is issued separately.

This standard is expected to be used by testing laboratories, paints suppliers and manufacturers, contractors, consultants, architects, industry associations and relevant government agencies.

Attention is drawn to the possibility that some of the elements of this Singapore Standard may be the subject of patent rights. Enterprise Singapore shall not be held responsible for identifying any or all of such patent rights.

NOTE

- 1. Singapore Standards (SSs) and Technical References (TRs) are reviewed periodically to keep abreast of technical changes, technological developments and industry practices. The changes are documented through the issue of either amendments or revisions. Where SSs are deemed to be stable, i.e. no foreseeable changes in them, they will be classified as “Mature Standards”. Mature Standards will not be subject to further review, unless there are requests to review such standards.*
- 2. An SS or TR is voluntary in nature except when it is made mandatory by a regulatory authority. It can also be cited in contracts making its application a business necessity. Users are advised to assess and determine whether the SS or TR is suitable for their intended use or purpose. If required, they should refer to the relevant professionals or experts for advice on the use of the document. Enterprise Singapore and the Singapore Standards Council shall not be liable for any damages whether directly or indirectly suffered by anyone or any organisation as a result of the use of any SS or TR. Although care has been taken to draft this standard, users are also advised to ensure that they apply the information after due diligence.*
- 3. Compliance with a SS or TR does not exempt users from any legal obligations.*

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 35, *Paints and varnishes*, Subcommittee SC 9, *General test methods for paints and varnishes*.

This second edition cancels and replaces the first edition (ISO 13076:2012), which has been technically revised. The main changes compared to the previous edition are as follows:

- addition of Clause 2 on normative references;
- addition of Clause 3 on terms and definitions;
- addition of new light source, LED;
- addition of examples on the applications of this document in Table A.1;
- complete editorial revision.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Methods of test for paints, varnishes and related materials — Part A5 : Lighting and procedure for visual assessments of coatings

1 Scope

This document specifies the lighting and the procedure for the visual assessment of degraded areas, spots or other defects on or in coatings.

This document is not applicable to the visual comparison of colour, which can be assessed using ISO 3668.

NOTE See Annex A for examples of the possible applications of this document.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 4618, *Paints and varnishes — Terms and definitions*