MALAYSIAN STANDARD

MS 133: PART H3:2008

PAINTS AND VARNISHES - EVALUATION OF DEGRADATION OF COATINGS - DESIGNATION OF QUANTITY AND SIZE OF DEFECTS, AND OF INTENSITY OF UNIFORM CHANGES IN APPEARANCE - PART H3: ASSESSMENT OF DEGREE OF RUSTING (FIRST REVISION) (ISO 4628-3:2003, IDT)

ICS: 87.040

Descriptors: paints, varnishes, evaluation, degradation, coatings, designation, size of defects, intensity of changes, degree of rusting, assessment

DEPARTMENT OF STANDARDS MALAYSIA

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Committee representation

The Chemical and Materials Industry Standards Committee (ISC B) under whose authority this Malaysian Standard was developed, comprises representatives from the following organisations:

Department of Mineral and Geoscience Malaysia

Department of Standards Malaysia

Malaysian Association of Standards Users

Malaysian Ceramic Industry Group

Malaysian Institute of Chemistry

Malaysian Paint Manufacturers Association

Malaysian Pulp and Paper Manufacturers Association

Ministry of Agricultural and Agro-based Industry (Department of Agriculture)

Ministry of Defence (Science and Technology Research Institute for Defence)

Ministry of International Trade and Industry

Ministry of Science, Technology and Innovation (Department of Chemistry, Malaysia)

SIRIM Berhad (Secretariat)

Universiti Malaya

Universiti Sains Malaysia

The Technical Committee on Paints and Varnishes which developed this Malaysian Standard consists of representatives from the following organisations:

ICI Paints (Malaysia) Sdn Bhd

IKRAM QA Services Sdn Bhd

Malaysian Paint Manufacturers Association

Revertex (M) Sdn Bhd

Science and Technology Research Institute for Defence

Seamaster Paint (Manufacturing) Berhad

SIRIM Berhad (Secretariat)

SIRIM QAS International Sdn Bhd (Chemical Testing Section)

SIRIM QAS International Sdn Bhd (Product Certification Section)

Universiti Kebangsaan Malaysia

Universiti Teknologi Malaysia

Universiti Teknologi MARA

Co-opted member:

Jotun Paint (M) Sdn Bhd

NATIONAL FOREWORD

This Malaysian Standard was developed by the Technical Committee on Paints and Varnishes under the authority of the Chemical and Materials Industry Standards Committee.

This Malaysian Standard is the first revision of MS 133: Part H3, *Methods of test for paints and varnishes: Part H3: Evaluation of degree of rusting.*

This Malaysian Standard is identical with ISO 4628-3:2003, *Paints and varnishes - Evaluation of degradation of coatings - Designation of quantity and size of defects, and of intensity of uniform changes in appearance - Part 3: Assessment of degree of rusting*, published by the International Organization for Standardization (ISO). However, for the purposes of this Malaysian Standard, the following apply:

a) in the source text, “this International Standard” should read “this Malaysian Standard”;

b) the comma which is used as a decimal sign (if any), to read as a point; and

c) reference to International Standard should be replaced by equivalent Malaysian Standard as follows:

Referenced International Standard	Corresponding Malaysian Standard
ISO 4628-1, *Paints and varnishes - Evaluation of degradation of coatings - Designation of quantity and size of defects, and of intensity of uniform changes in appearance*: *Part 1: General introduction and designation system*	MS 133: Part H1, *Paints and varnishes - Evaluation of degradation of coatings - Designation of quantity and size of defects, and of intensity of uniform changes in appearance*: *Part H1: General introduction and designation system*

This Malaysian Standard cancels and replaces MS 133: Part H3:1989, *Methods of test for paints and varnishes: Part H3: Evaluation of degree of rusting.*

Compliance with a Malaysian Standard does not of itself confer immunity from legal obligations.

NOTE. IDT on the front cover indicates an identical standard i.e. a standard where the technical content, structure, and wording (or is an identical translation) of a Malaysian Standard is exactly the same as in an International Standard or is identical in technical content and structure although it may contain the minimal editorial changes specified in clause 4.2 of ISO/IEC Guide 21-1.

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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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

ISO 4628-3 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 4628-3:1982), of which it constitutes a mainly editorial revision. The pictorial standards have been replaced by computer-generated pictures and binary images have been added for the calibration of optical imaging systems.

ISO 4628 consists of the following parts, under the general title *Paints and varnishes — Evaluation of degradation of coatings — Designation of quantity and size of defects, and of intensity of uniform changes in appearance*:

— *Part 1: General introduction and designation system*

— *Part 2: Assessment of degree of blistering*

— *Part 3: Assessment of degree of rusting*

— *Part 4: Assessment of degree of cracking*

— *Part 5: Assessment of degree of flaking*

— *Part 6: Assessment of degree of chalking by tape method*

— *Part 7: Assessment of degree of chalking by velvet method*

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