

SLOVENSKI STANDARD

SIST EN ISO 4628-1:2004

01-januar-2004

Barve in laki – Ovrednotenje propadanja premazov – Ugotavljanje obsega in velikosti poškodb ter intenzitete enakomernih sprememb videza – 1. del: Splošna predstavitev in sistem oznak za vrednotenje (ISO 4628-1:2003)

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

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Beschichtungsstoffe - Beurteilung von Beschichtungsschäden - Beurteilung der Menge und der Größe von Schäden und der Intensität von gleichmäßigen Veränderungen im Aussehen - Teil 1: Allgemeine Einführung und Bewertungssystem (ISO 4628-1:2003)

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Peintures et vernis - Evaluation de la dégradation des revêtements - Désignation de la quantité et de la dimension des défauts, et de l'intensité des changements uniformes d'aspect - Partie 1: Introduction générale et système de désignation (ISO 4628-1:2003)

Ta slovenski standard je istoveten z: EN ISO 4628-1:2003

ICS:

87.040

Barve in laki

Paints and varnishes

SIST EN ISO 4628-1:2004

en

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 4628-1

September 2003

ICS 87.040

English version

**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 (ISO 4628-1:2003)**

Peintures et vernis - Evaluation de la dégradation des
revêtements - Désignation de la quantité et de la dimension
des défauts, et de l'intensité des changements uniformes
d'aspect - Partie 1: Introduction générale et système de
désignation (ISO 4628-1:2003)

Beschichtungsstoffe - Beurteilung von
Beschichtungsschäden - Beurteilung der Menge und der
Größe von Schäden und der Intensität von gleichmäßigen
Veränderungen im Aussehen - Teil 1: Allgemeine
Einführung und Bewertungssystem (ISO 4628-1:2003)

This European Standard was approved by CEN on 1 August 2003.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Management Centre has the same status as the official versions.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: rue de Stassart, 36 B-1050 Brussels

EN ISO 4628-1:2003 (E)**Foreword**

This document (EN ISO 4628-1:2003) has been prepared by Technical Committee ISO/TC 35 "Paints and varnishes" in collaboration with Technical Committee CEN/TC 139 "Paints and varnishes", the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by March 2004, and conflicting national standards shall be withdrawn at the latest by March 2004.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and the United Kingdom.

NOTE FROM CMC The foreword is susceptible to be amended on reception of the German language version. The confirmed or amended foreword, and when appropriate, the normative annex ZA for the references to international publications with their relevant European publications will be circulated with the German version.

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Endorsement notice
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The text of ISO 4628-1:2003 has been approved by CEN as EN ISO 4628-1:2003 without any modifications.

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INTERNATIONAL STANDARD

ISO
4628-1

Third edition
2003-09-01

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

*Peintures et vernis — Évaluation de la dégradation des revêtements —
Designation de la quantité et de la dimension des défauts, et de
l'intensité des changements uniformes d'aspect —*

Partie 1: Introduction générale et système de désignation



Reference number
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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 4628-1 was prepared by Technical Committee ISO/TC 35, *Paints and varnishes*, Subcommittee SC 9, *General test methods for paints and varnishes*.

This third edition cancels and replaces the second edition (ISO 4628-1:1982), of which it constitutes a mainly editorial revision.

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*
- *Part 8: Assessment of degree of delamination and corrosion around a scribe*
- *Part 10: Assessment of degree of filiform corrosion*

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

1 Scope

This part of ISO 4628 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 ISO 4628. 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 ISO 4628 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.

This part of ISO 4628 can also be used for assessing defects not covered by the other parts of ISO 4628.

2 General principles of the designation system

A uniform convention has been adopted for designating the quantity and size of defects and the intensity of changes by means of ratings on a numerical scale ranging from 0 to 5, 0 denoting no defects or changes, and 5 denoting defects or changes so severe that further discrimination is not reasonable. The other ratings, corresponding to the numbers 1, 2, 3 and 4, are so defined that they give optimum discrimination over the whole range of the scale.

The use of intermediate half-steps is permissible, if specified, to give a more detailed report on the defects or changes observed.

NOTE 1 The quantity of small defects scattered over the test area may be assessed by means of a grid method. Details of such a method are described in ISO 4540, *Metallic coatings — Coatings cathodic to the substrate — Rating of electroplated test specimens subjected to corrosion tests*.

NOTE 2 The ISO ranking may be different from the ranking schemes used in other standards, e.g. the rusting evaluation ASTM D 610, *Standard Test Method for Evaluating Degree of Rusting on Painted Steel Surfaces*, where ranking is from 10 to 1, with 10 meaning no change and 1 meaning greatest change.

In addition to the ratings, the approximate dimensions of the area concerned shall be given, or the proportion of the area concerned compared with the total area, expressed as a percentage.

3 Assessment of defects and of intensity of changes

3.1 General

Carry out the assessment under good illumination.