

6 Uf j Y]b`U_]`E`Cj fYXbchYb`Y`dfcdUXUb`UdfYa Uncj `E`I [cHj `Ub`Y`cVgY[U]b
j Y]_cgh]`dcy_cXV`hYf`]bhYbn]hYh`YbU_ca Yfb]`gdfYa Ya V`j]XynU`E`) "XY.
CWb`Y] Ub`Y`ghc`db`Y`i`y` Yb`U`f`GC` (* & !).&\$\$' Ł

Paints and varnishes - Evaluation of degradation of coatings - Designation of quantity and size of defects, and of intensity of uniform changes in appearance - Part 5: Assessment of degree of flaking (ISO 4628-5:2003)

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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 5: Bewertung des Ablätterungsgrades (ISO 4628-5:2003)

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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 5: Evaluation du degré d'écaillage (ISO 4628-5:2003)

Ta slovenski standard je istoveten z: EN ISO 4628-5:2003

ICS:

87.040 Barve in laki Paints and varnishes

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 4628-5

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 5: Assessment of degree
of flaking (ISO 4628-5:2003)**

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 5: Evaluation du degré d'écaillage (ISO
4628-5:2003)

Beschichtungsstoffe - Beurteilung von
Beschichtungsschäden - Beurteilung der Menge und der
Größe von Schäden und der Intensität von gleichmäßigen
Veränderungen im Aussehen - Teil 5: Bewertung des
Abblätterungsgrades (ISO 4628-5:2003)

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

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COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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

EN ISO 4628-5:2003 (E)**Foreword**

This document (EN ISO 4628-5:2003) 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 4628-5:2003 has been approved by CEN as EN ISO 4628-5:2003 without any modifications.

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4628-5Second edition
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**Paints and varnishes — Evaluation of
degradation of coatings — Designation of
quantity and size of defects, and of
intensity of uniform changes in
appearance —****Part 5:
Assessment of degree of flaking****(standards.iteh.ai)***Peintures et vernis — Évaluation de la dégradation des revêtements —
Désignation de la quantité et de la dimension des défauts, et de
l'intensité des changements uniformes d'aspect —*

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Partie 5: Évaluation du degré d'écaillage

Reference number
ISO 4628-5:2003(E)

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ISO 4628-5:2003(E)

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 4628-5 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 4628-5:1982), 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 5: Assessment of degree of flaking

1 Scope

This part of ISO 4628 describes a method for assessing the degree of flaking of coatings by comparison with pictorial standards, using the designation system defined in ISO 4628-1.

ISO 4628-1 defines the system used 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. 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.

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2 Normative references

[SIST EN ISO 4628-5:2004](https://standards.iteh.ai/catalog/standards/sist/c2b3abc9-9301-456e-9f1a-0bb32df56927/sist-en-iso-4628-5-2004)

The following referenced documents are indispensable for the application 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 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*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1

degree of flaking

rating characterizing flaked areas in a coating in terms of quantity, size and depth

4 Assessment

Assess the quantity of flaking by reference to Table 1 and using as an example Figure 1 or 2, depending on the type of flaking.

NOTE Figure 1 shows flaking without preferential direction and Figure 2 shows flaking in one preferential direction due to anisotropy of the substrate.