



SLOVENSKI STANDARD SIST EN ISO 17872:2020

01-januar-2020

Nadomešča:

SIST EN ISO 17872:2007

Barve in laki - Smernice za uvajanje sledi rezov v premazih na kovinskih ploščah za preskušanje odpornosti proti koroziji (ISO 17872:2019)

Paints and varnishes - Guidelines for the introduction of scribe marks through coatings on metallic panels for corrosion testing (ISO 17872:2019)

Beschichtungsstoffe - Leitfaden zum Anbringen von Ritzen durch eine Beschichtung auf Metallplatten für Korrosionsprüfungen (ISO 17872:2019)

Peintures et vernis - Lignes directrices pour la production de rayures au travers du revêtement de panneaux métalliques en vue des essais de corrosion (ISO 17872:2019)

Ta slovenski standard je istoveten z: EN ISO 17872:2019

ICS:

87.040

Barve in laki

Paints and varnishes

SIST EN ISO 17872:2020

en,fr,de

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 17872

October 2019

ICS 87.040

Supersedes EN ISO 17872:2007

English Version

Paints and varnishes - Guidelines for the introduction of scribe marks through coatings on metallic panels for corrosion testing (ISO 17872:2019)

Peintures et vernis - Lignes directrices pour la production de rayures au travers du revêtement de panneaux métalliques en vue des essais de corrosion (ISO 17872:2019)

Beschichtungsstoffe - Leitfaden zum Anbringen von Ritzen durch eine Beschichtung auf Metallplatten für Korrosionsprüfungen (ISO 17872:2019)

This European Standard was approved by CEN on 5 August 2019.

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European foreword

This document (EN ISO 17872:2019) 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of an identical text or by endorsement, at the latest by April 2020, and conflicting national standards shall be withdrawn at the latest by April 2020.

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

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INTERNATIONAL
STANDARD

ISO
17872

Second edition
2019-08

**Paints and varnishes — Guidelines
for the introduction of scribe marks
through coatings on metallic panels
for corrosion testing**

*Peintures et vernis — Lignes directrices pour la production de rayures
au travers du revêtement de panneaux métalliques en vue des essais
de corrosion*

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ISO 17872:2019(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.

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).

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. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

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 17872:2007), which has been technically revised. The main changes compared to the previous edition are as follows:

- [Clause 2](#), "Normative references" and [Clause 3](#), "Terms and definitions" have been added;
- figures of L-shaped and diagonal shaped scribes have been added;
- a second variation of the cross-sectional shape of U-shape scribe mark has been added in [Figure 2](#);
- V-shape replaceable blade, disc milling cutter, graver and ceramic knife have been added to the list of possible cutting tools;
- pictures of the cross sections have been added to the corresponding cutting tools;
- the examples for cutting tools in [Table A.1](#) have been grouped to knife or blade tools, pencil type tools and milling machines;
- the original [Annex B](#) has been replaced by a new annex on examples of possible different results in one corrosion test when using different scribing tools.

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.

Introduction

Many International Standards deal with corrosion testing, where scribe marks are introduced through a coating to a metallic substrate. However, the method of scribe-mark introduction (scribing pattern, tools, etc.) is not standardized across these standards.

The main purposes of an intentionally inflicted damage in a coating prior to corrosion testing are as follows:

- a) to simulate and to investigate how adhesion of a coating originating from an artificial damage after exposure is ensured;
- b) to obtain an accelerated response during a corrosion test, e.g. at quality control during production;
- c) to investigate the general durability of a coating by observation of the rate of corrosion at a damage spread after exposure.

Preliminary investigations have shown that several variants, both in terms of shape and dimensions, of scribing tools are used. These variations occur both across countries and within countries. The effect of using different tools is the production of scribe marks with different cross-sectional shape, depth and exposed metal area. These differences will greatly affect test results obtained during corrosion tests, as the intention of introducing scribe marks into a coating system is such that oxygen and the electrolyte present during exposure testing can obtain access to a well-defined and active metal surface.

The actual method used to introduce a scribe mark depends on the coating type and thickness. However, in all cases it is preferable if the cross-section is as smooth as possible, the metallic substrate is exposed evenly and no coating remains on the exposed substrate.

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