



SLOVENSKI STANDARD SIST EN ISO 12944-2:2018

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Nadomešča:

SIST EN ISO 12944-2:1998

Barve in laki - Protikorozijska zaščita jeklenih konstrukcij z zaščitnimi premaznimi sistemi - 2. del: Klasifikacija okoljskih pogojev (ISO 12944-2:2017)

Paints and varnishes - Corrosion protection of steel structures by protective paint systems - Part 2: Classification of environments (ISO 12944-2:2017)

Beschichtungsstoffe - Korrosionsschutz von Stahlbauten durch Beschichtungssysteme - Teil 2: Einteilung der Umgebungsbedingungen (ISO 12944-2:2017)

Peintures et vernis - Anticorrosion des structures en acier par systèmes de peinture - Partie 2: Classification des environnements (ISO 12944-2:2017)

Ta slovenski standard je istoveten z: EN ISO 12944-2:2017

ICS:

25.220.20	Površinska obdelava	Surface treatment
87.040	Barve in laki	Paints and varnishes
91.080.13	Jeklene konstrukcije	Steel structures

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EUROPEAN STANDARD

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NORME EUROPÉENNE

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English Version

Paints and varnishes - Corrosion protection of steel structures by protective paint systems - Part 2: Classification of environments (ISO 12944-2:2017)

Peintures et vernis - Anticorrosion des structures en acier par systèmes de peinture - Partie 2: Classification des environnements (ISO 12944-2:2017)

Beschichtungsstoffe - Korrosionsschutz von Stahlbauten durch Beschichtungssysteme - Teil 2: Einteilung der Umgebungsbedingungen (ISO 12944-2:2017)

This European Standard was approved by CEN on 30 October 2017.

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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 CEN-CENELEC Management Centre has the same status as the official versions.

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COMITÉ EUROPÉEN DE NORMALISATION
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Contents	Page
European foreword.....	3

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[SIST EN ISO 12944-2:2018](https://standards.iteh.ai/catalog/standards/sist/71978adc-192d-48cb-abf5-0340795d49ac/sist-en-iso-12944-2-2018)
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European foreword

This document (EN ISO 12944-2:2017) 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 June 2018, and conflicting national standards shall be withdrawn at the latest by June 2018.

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.

This document supersedes EN ISO 12944-2:1998.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

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The text of ISO 12944-2:2017 has been approved by CEN as EN ISO 12944-2:2017 without any modification.

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INTERNATIONAL
STANDARD

ISO
12944-2

Second edition
2017-11

**Paints and varnishes — Corrosion
protection of steel structures by
protective paint systems —**

**Part 2:
Classification of environments**

iTeh STANDARD PREVIEW
*Peintures et vernis — Anticorrosion des structures en acier par
systèmes de peinture —
Partie 2: Classification des environnements*
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Contents

Page

Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	2
4 Corrosion stresses due to the atmosphere, water and soil	3
4.1 Atmospheric corrosion.....	3
4.2 Corrosion in water and soil.....	3
4.2.1 General.....	3
4.2.2 Structures immersed in water.....	3
4.2.3 Structures buried in soil.....	4
4.3 Special cases.....	4
5 Classification of environments	4
5.1 Atmospheric-corrosivity categories.....	4
5.2 Categories for water and soil.....	5
Annex A (informative) Climatic conditions	7
Annex B (informative) Special cases	8
Bibliography	11

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN ISO 12944-2:2018](https://standards.iteh.ai/catalog/standards/sist/71978adc-192d-48cb-abf5-0340795d49ac/sist-en-iso-12944-2-2018)

<https://standards.iteh.ai/catalog/standards/sist/71978adc-192d-48cb-abf5-0340795d49ac/sist-en-iso-12944-2-2018>

ISO 12944-2:2017(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 on 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 the following URL: www.iso.org/iso/foreword.html. (standards.iteh.ai)

This document was prepared by Technical Committee ISO/TC 35, *Paints and varnishes*, Subcommittee SC 14, *Protective paint systems for steel structures*. SIST EN ISO 12944-2:2018
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This second edition cancels and replaces the first edition (ISO 12944-2:1998), which has been technically revised.

The main changes compared to the previous edition are as follows:

- the normative references have been updated;
- [4.2.1](#) "General" has been added;
- the units in [Table 1](#) have been corrected;
- the bibliography has been updated;
- the text has been editorially revised.

A list of all parts in the ISO 12944 series can be found on the ISO website.

Introduction

Unprotected steel in the atmosphere, in water and in soil is subjected to corrosion that can lead to damage. Therefore, to avoid corrosion damage, steel structures are normally protected to withstand the corrosion stresses to which they will be subjected during the service life required of the structure.

There are different ways of protecting steel structures from corrosion. ISO 12944 (all parts) deals with protection by paint systems and covers, in the various parts, all features that are important in achieving adequate corrosion protection. Additional or other measures are possible but require particular agreement between the interested parties.

In order to ensure effective corrosion protection of steel structures, owners of such structures, planners, consultants, companies carrying out corrosion protection work, inspectors of protective coatings and manufacturers of coating materials need to have at their disposal state-of-the-art information in concise form on corrosion protection by paint systems. It is vital that such information is as complete as possible, unambiguous and easily understandable to avoid difficulties and misunderstandings between the parties concerned with the practical implementation of protection work.

ISO 12944 (all parts) is intended to give this information in the form of a series of instructions. It is written for those who have some technical knowledge. It is also assumed that the user of ISO 12944 (all parts) is familiar with other relevant International Standards, in particular those dealing with surface preparation.

Although ISO 12944 (all parts) does not deal with financial and contractual questions, attention is drawn to the fact that, because of the considerable implications of inadequate corrosion protection, non-compliance with requirements and recommendations given in ISO 12944 (all parts) can result in serious financial consequences. (standards.iteh.ai)

ISO 12944-1 defines the overall scope of ISO 12944. It gives some basic terms and definitions and a general introduction to the other parts of ISO 12944. Furthermore, it includes a general statement on health, safety and environmental protection, and guidelines for using ISO 12944 (all parts) for a given project.

This document describes the environmental impact on steel structures. It covers structures exposed to the atmosphere as well as those immersed in water or buried in soil. For different atmospheric environments, a classification system based on corrosivity categories is also presented. Different environments for immersed and buried structures are also described. All these environments are relevant to the choice of protective paint systems.