

DIN EN ISO 12944-1



ICS 87.020

Supersedes
DIN EN ISO 12944-1:2018-04

**Paints and varnishes –
Corrosion protection of steel structures by protective paint systems –
Part 1: General introduction (ISO 12944-1:2017);
English version EN ISO 12944-1:2017,
English translation of DIN EN ISO 12944-1:2019-01**

Beschichtungsstoffe –
Korrosionsschutz von Stahlbauten durch Beschichtungssysteme –
Teil 1: Allgemeine Einleitung (ISO 12944-1:2017);
Englische Fassung EN ISO 12944-1:2017,
Englische Übersetzung von DIN EN ISO 12944-1:2019-01

Peintures et vernis –
Anticorrosion des structures en acier par systèmes de peinture –
Partie 1: Introduction générale (ISO 12944-1:2017);
Version anglaise EN ISO 12944-1:2017,
Traduction anglaise de DIN EN ISO 12944-1:2019-01

Document comprises 18 pages

Translation by DIN-Sprachendienst.

In case of doubt, the German-language original shall be considered authoritative.

A comma is used as the decimal marker.

National foreword

This document (EN ISO 12944-1:2017) has been prepared by Technical Committee ISO/TC 35 “Paints and varnishes” in collaboration with Technical Committee CEN/TC 139 “Paints and varnishes” (Secretariat: DIN, Germany).

The responsible German body involved in its preparation was *DIN-Normenausschuss Beschichtungsstoffe und Beschichtungen* (DIN Standards Committee Coatings and Coating Materials), Subcommittee NA 002-00-10-01 UA “General” of Working Committee NA 002-00-10 AA “Corrosion protection of steel structures”.

The DIN documents corresponding to the international documents referred to in this document are as follows:

ISO 4618:2014	DIN EN ISO 4618:2015-01
ISO 4628-1	DIN EN ISO 4628-1
ISO 4628-2	DIN EN ISO 4628-2
ISO 4628-3	DIN EN ISO 4628-3
ISO 4628-4	DIN EN ISO 4628-4
ISO 4628-5	DIN EN ISO 4628-5
ISO 8044:2015	DIN EN ISO 8044:2015-12
ISO 9001	DIN EN ISO 9001
ISO 12944-2	DIN EN ISO 12944-2
ISO 12944-3	DIN EN ISO 12944-3
ISO 12944-4	DIN EN ISO 12944-4
ISO 12944-5	DIN EN ISO 12944-5
ISO 12944-6	DIN EN ISO 12944-6
ISO 12944-7	DIN EN ISO 12944-7
ISO 12944-8	DIN EN ISO 12944-8
ISO 12944-9	DIN EN ISO 12944-9

Amendments

This standard differs from DIN EN ISO 12944-1:1998-07 as follows:

- a) some parts of the Scope have been moved to Clause 4;
- b) the terms and definitions which have not been used in the main part of the standard have been deleted;
- c) normative references have been updated;
- d) the requirements regarding sample areas have been included;
- e) a new subclause 7.8 with reference to ISO 12944-9 has been added;
- f) a Bibliography has been added.

Compared with DIN EN 12944-1:2018-04, the following corrections have been made to the German version:

- a) in subclause 3.5, *“Teilerneuerung”* has been replaced by *“Instandsetzung”* in the definition;
- b) in subclause 4.3.7, the first sentence has been replaced as follows: *“ISO 12944 (alle Teile) berücksichtigt vier verschiedene Zeitspannen für die Schutzdauer (d. h. niedrig, mittel, hoch, sehr hoch).”*;
- c) in subclause 5.5, the designations for the durability ranges have been changed from *“kurz”, “mittel”, “lang”* and *“sehr lang”* to *“niedrig”, “mittel”, “hoch”* and *“sehr hoch”*.

Previous editions

DIN 55928: 1956-11, 1959-06x

DIN 55928-1: 1976-11, 1991-05

DIN EN ISO 12944-1: 1998-07, 2018-04

National Annex NA (informative)

Bibliography

DIN EN ISO 4618:2015-01, *Coating materials and coatings — Terms and definitions (ISO 4618:2014)*

DIN EN 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*

DIN EN ISO 4628-2, *Paints and varnishes — Evaluation of degradation of coatings — Designation of quantity and size of defects, and of intensity of uniform changes in appearance — Part 2: Assessment of degree of blistering*

DIN EN ISO 4628-3, *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*

DIN EN ISO 4628-4, *Paints and varnishes — Evaluation of degradation of coatings — Designation of quantity and size of defects, and of intensity of uniform changes in appearance — Part 4: Assessment of degree of cracking*

DIN EN ISO 4628-5, *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*

DIN EN ISO 8044:2015-12, *Corrosion of metals and alloys — Basic terms and definitions (ISO 8044:2015)*

DIN EN ISO 9001, *Quality management systems — Requirements*

DIN EN ISO 12944-2, *Paints and varnishes — Corrosion protection of steel structures by protective paint systems — Part 2: Classification of environments*