



**SLOVENSKI STANDARD  
SIST EN ISO 9466:2025**

**01-april-2025**

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**Železniške naprave - Premazovanje železniških potniških vozil (ISO 9466:2025)**

Railway Applications - Coating of passenger rail vehicle (ISO 9466:2025)

Bahnanwendungen - Lackierung von Schienenfahrzeugen für den Personenverkehr (ISO 9466:2025)

Applications ferroviaires - Peinturage des véhicules ferroviaires destinés au transport de passagers (ISO 9466:2025)

**Ta slovenski standard je istoveten z: EN ISO 9466:2025**

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**ICS:**

45.060.01	Železniška vozila na splošno	Railway rolling stock in general
87.020	Postopki za nanašanje barvnih premazov	Paint coating processes

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## Railway Applications - Coating of passenger rail vehicle (ISO 9466:2025)

Applications ferroviaires - Peinture des véhicules  
ferroviaires destinés au transport de passagers (ISO  
9466:2025)

Bahnanwendungen - Lackierung von  
Schienenfahrzeugen für den Personenverkehr (ISO  
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This document (EN ISO 9466:2025) has been prepared by Technical Committee ISO/TC 269 "Railway applications" in collaboration with Technical Committee CEN/TC 256 "Railway applications" 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of an identical text or by endorsement, at the latest by August 2025, and conflicting national standards shall be withdrawn at the latest by August 2025.

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**International  
Standard**

**ISO 9466**

**Railway applications — Coating of  
passenger rail vehicles**

*Applications ferroviaires — Peinturage des véhicules ferroviaires  
destinés au transport de passagers*

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### Foreword

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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 document 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](http://www.iso.org/directives)).

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This document was prepared by Technical Committee ISO/TC 269, *Railway applications*, Subcommittee SC 2, *Rolling stock*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 256, *Railway applications*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

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# Railway applications — Coating of passenger rail vehicles

## 1 Scope

This document establishes the performance requirements and acceptance criteria for coating material used for passenger rolling stock, locomotives and components.

This document also provides guidance on the coating application processes, product selection, surface preparation, coating application, verification and inspection methods, repairs, refurbishment (refresh, etc.), and tests to measure the minimum performance for the final product.

This document applies to all types of coating materials (liquid, powder, etc.) used on

- railway vehicle bodies, and
- on-board equipment and constituent parts.

## 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 1518-1, *Paints and varnishes — Determination of scratch resistance — Part 1: Constant-loading method*

ISO 1519, *Paints and varnishes — Bend test (cylindrical mandrel)*

ISO 2409:2020, *Paints and varnishes — Cross-cut test*

ISO 2808, *Paints and varnishes — Determination of film thickness*

ISO 2811-1, *Paints and varnishes — Determination of density — Part 1: Pycnometer method*

ISO 2812-3, *Paints and varnishes — Determination of resistance to liquids — Part 3: Method using an absorbent medium*

ISO 2813, *Paints and varnishes — Determination of gloss value at 20°, 60° and 85°*

ISO 3233-3, *Paints and varnishes — Determination of the percentage volume of non-volatile matter — Part 3: Determination by calculation from the non-volatile-matter content determined in accordance with ISO 3251, the density of the coating material and the density of the solvent in the coating material*

ISO 3251:2019, *Paints, varnishes and plastics — Determination of non-volatile-matter content*

ISO 3668, *Paints and varnishes — Visual comparison of colour of paints*

ISO 4545-1:2023, *Metallic materials — Knoop hardness test — Part 1: Test method*

ISO 4618:2023, *Paints and varnishes — Vocabulary*

ISO 4624:2023, *Paints and varnishes — Pull-off test for adhesion*

ISO 4628-2:2016, *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*

ISO 4628-3:2024, *Paints and varnishes — Evaluation of quantity and size of defects, and of intensity of uniform changes in appearance — Part 3: Assessment of degree of rusting*

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ISO 4628-4:2016, *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*

ISO 4628-5:2022, *Paints and varnishes — Evaluation of quantity and size of defects, and of intensity of uniform changes in appearance — Part 5: Assessment of degree of flaking*

ISO 4628-8, *Paints and varnishes — Evaluation of degradation of coatings — Designation of quantity and size of defects, and of intensity of uniform changes in appearance — Part 8: Assessment of degree of delamination and corrosion around a scribe or other artificial defect*

ISO 6270-2, *Paints and varnishes — Determination of resistance to humidity — Part 2: Condensation (in-cabinet exposure with heated water reservoir)*

ISO 6272-1, *Paints and varnishes — Rapid-deformation (impact resistance) tests — Part 1: Falling-weight test, large-area indenter*

ISO 6344-2:2021, *Coated abrasives — Determination and designation of grain size distribution — Part 2: Macrogrit sizes P12 to P220*

ISO 6344-3, *Coated abrasives — Determination and designation of grain size distribution — Part 3: Microgrit sizes P240 to P5000*

ISO 6504-3:2019, *Paints and varnishes — Determination of hiding power — Part 3: Determination of hiding power of paints for masonry, concrete and interior use*

ISO 6507-1:2023, *Metallic materials — Vickers hardness test — Part 1: Test method*

ISO 7784-1, *Paints and varnishes — Determination of resistance to abrasion — Part 1: Method with abrasive-paper covered wheels and rotating test specimen*

ISO 8130-1, *Coating powders — Part 1: Determination of particle size distribution by sieving*

ISO 8130-13, *Coating powders — Part 13: Particle size analysis by laser diffraction*

ISO 8130-8:2021, *Coating powders — Part 8: Assessment of the storage stability of thermosetting powders*

ISO 8501-1:2007, *Preparation of steel substrates before application of paints and related products — Visual assessment of surface cleanliness — Part 1: Rust grades and preparation grades of uncoated steel substrates and of steel substrates after overall removal of previous coatings*

ISO 8502-3, *Preparation of steel substrates before application of paints and related products — Tests for the assessment of surface cleanliness — Part 3: Assessment of dust on steel surfaces prepared for painting (pressure-sensitive tape method)*

ISO 8503-1, *Preparation of steel substrates before application of paints and related products — Surface roughness characteristics of blast-cleaned steel substrates — Part 1: Specifications and definitions for ISO surface profile comparators for the assessment of abrasive blast-cleaned surfaces*

ISO 9227, *Corrosion tests in artificial atmospheres — Salt spray tests*

ISO 9514, *Paints and varnishes — Determination of the pot life of multicomponent coating systems — Preparation and conditioning of samples and guidelines for testing*

ISO 11890-1, *Paints and varnishes — Determination of volatile organic compounds (VOC) and/or semi volatile organic compounds (SVOC) content — Part 1: Gravimetric method for VOC determination*

ISO 11890-2, *Paints and varnishes — Determination of volatile organic compounds (VOC) and/or semi volatile organic compounds (SVOC) content — Part 2: Gas-chromatographic method*

ISO 16276-2, *Corrosion protection of steel structures by protective paint systems — Assessment of, and acceptance criteria for, the adhesion/cohesion (fracture strength) of a coating — Part 2: Cross-cut testing and X-cut testing*