

Kontinuálne lakované kovy Skúšobné metódy Časť 10: Odolnosť proti fluorescenčnému UV žiareniu a proti kondenzácii vody

STN EN 13523-10

03 8761

Coil coated metals - Test methods - Part 10: Resistance to fluorescent UV radiation and water condensation

Táto norma obsahuje anglickú verziu európskej normy. This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 07/24

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English Version

Coil coated metals - Test methods - Part 10: Resistance to fluorescent UV radiation and water condensation

Tôles prélaquées - Méthodes d'essai - Partie 10 : Résistance à un rayonnement UV fluorescent et à la condensation de l'eau Bandbeschichtete Metalle - Prüfverfahren - Teil 10: Beständigkeit gegen UV-Strahlung mit Leuchtstofflampen und Kondensation von Wasser

This European Standard was approved by CEN on 1 January 2024.

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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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EUROPEAN COMMITTEE FOR STANDARDIZATION COMITÉ EUROPÉEN DE NORMALISATION EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

EN 13523-10:2024 (E)

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European foreword

This document (EN 13523-10:2024) has been prepared by 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of an identical text or by endorsement, at the latest by October 2024, and conflicting national standards shall be withdrawn at the latest by October 2024.

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 13523-10:2017.

EN 13523-10:2024 includes the following significant technical changes with respect to EN 13523-10:2017:

- a) in 8.1 the test duration has been aligned with EN 1396 and EN 10169;
- b) in 8.3 wider range of observations have been included;
- c) in Clause 9 the test method has been aligned to new coating categories defined in EN 10169;
- d) the text has been editorially revised and the normative references have been updated.

The EN 13523 series, *Coil coated metals* — *Test methods*, consists of the following parts:

- Part 0: General introduction
- Part 1: Film thickness
- Part 2: Gloss
- Part 3: Colour difference and metamerism Instrumental comparison
- Part 4: Pencil hardness
- Part 5: Resistance to rapid deformation (impact test)
- Part 6: Adhesion after indentation (cupping test)
- Part 7: Resistance to cracking on bending (T-bend test)
- Part 8: Resistance to salt spray (fog)
- Part 9: Resistance to water immersion
- Part 10: Resistance to fluorescent UV radiation and water condensation
- Part 11: Resistance to solvents (rubbing test)
- Part 12: Resistance to scratching
- Part 13: Resistance to accelerated ageing by the use of heat

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- Part 14: Chalking (Helmen method)
- Part 16: Resistance to abrasion
- Part 17: Adhesion of strippable films
- Part 18: Resistance to staining
- Part 19: Panel design and method of atmospheric exposure testing
- Part 20: Foam adhesion
- Part 21: Evaluation of outdoor exposed panels
- Part 22: Colour difference Visual comparison
- Part 23: Resistance to humid atmospheres containing sulfur dioxide
- Part 24: Resistance to blocking and pressure marking
- Part 25: Resistance to humidity
- Part 26: Resistance to condensation of water
- Part 27: Resistance to humid poultice (Cataplasm test)
- Part 29: Resistance to environmental soiling (Dirt pick-up and striping)

Any feedback and questions on this document should be directed to the users' national standards body. A complete listing of these bodies can be found on the CEN website.

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

1 Scope

This document specifies the basic principles and procedure for determining the resistance of an organic coating on a metallic substrate (coil coating) to a combination of fluorescent UV radiation, and water condensation and temperature under controlled conditions.

Due to varied conditions which occur during natural weathering and the extreme nature of accelerated testing, correlation between the two cannot be expected.

Not all organic coatings will perform on an equal basis, but a degree of correlation between the same generic type might be observed.

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.

EN 1396, Aluminium and aluminium alloys - Coil coated sheet and strip for general applications - Specifications

EN 10169, Continuously organic coated (coil coated) steel flat products - Technical delivery conditions

EN 13523-0, Coil coated metals - Test methods - Part 0: General introduction

EN 13523-1, Coil coated metals - Test methods - Part 1: Film thickness

EN 13523-2, Coil coated metals - Test methods - Part 2: Gloss

EN 13523-3, Coil coated metals - Test methods - Part 3: Colour difference and metamerism - Instrumental comparison

EN 13523-14, Coil coated metals - Test methods - Part 14: Chalking (Helmen method)

EN 13523-22, Coil coated metals - Test methods - Part 22: Colour difference - Visual comparison

EN 23270, Paints and varnishes and their raw materials - Temperatures and humidities for conditioning and testing (ISO 3270)

EN ISO 16474-3, Paints and varnishes - Methods of exposure to laboratory light sources - Part 3: Fluorescent UV lamps (ISO 16474-3)

koniec náhľadu – text ďalej pokračuje v platenej verzii STN