



SLOVENSKI STANDARD
SIST EN 13523-0:2021

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Nadomešča:
SIST EN 13523-0:2014

Prevlečene kovine, ki se navijajo - Preskusne metode - 0. del: Splošni uvod

Coil coated metals - Test methods - Part 0: General introduction

Bandbeschichtete Metalle - Prüfverfahren - Teil 0: Allgemeine Einleitung

Tôles prélaquées - Méthodes d'essai - Partie 0 : Introduction générale

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ICS:

17.040.20	Lastnosti površin	Properties of surfaces
25.220.60	Organske prevleke	Organic coatings

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 13523-0

October 2021

ICS 25.220.60

Supersedes EN 13523-0:2014

English Version

**Coil coated metals - Test methods - Part 0: General
introduction**

Tôles prélaquées - Méthodes d'essai - Partie 0 :
Introduction générale

Bandbeschichtete Metalle - Prüfverfahren - Teil 0:
Allgemeine Einleitung

This European Standard was approved by CEN on 16 August 2021.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

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

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European foreword

This document (EN 13523-0:2021) 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of an identical text or by endorsement, at the latest by April 2022, and conflicting national standards shall be withdrawn at the latest by April 2022.

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 13523-0:2014.

The main changes are:

- a) the definitions have been aligned with those in EN ISO 4618;
- b) the bibliography has been updated;
- c) the list of the existing parts of EN 13523 has been updated;
- 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 (Cataplasma 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, Turkey and the United Kingdom.

1 Scope

This document specifies the overall scope of all parts of EN 13523, gives definitions common to all parts and describes how sampling and preparation of test panels for most of the individual test methods are to be carried out.

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

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <https://www.electropedia.org/>

3.1

category 1 coating

coating formed from the application of either liquid paint or coating powder that has a dry film thickness of up to 60 µm

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3.2

category 2 coating

coating formed from the application of either liquid paint or coating powder that has a dry film thickness of greater than 60 µm, or a laminated plastics film

3.3

coat

layer of a coating material resulting from a single application

Note 1 to entry: For fillers the word “coat” is used instead of “film”.

[SOURCE: EN ISO 4618:2014, 2.49]

3.4

coating material

product, in liquid, paste or powder form, that, when applied to a substrate, forms a layer possessing protective, decorative and/or other specific properties

Note 1 to entry: The German term “Beschichtungsstoff” includes the terms “Lack”, “Anstrichstoff” and such for similar products.

Note 2 to entry: For the purposes of EN 13523, plastics films are also considered as coating materials.

[SOURCE: EN ISO 4618:2014, 2.51, modified, Note 2 to entry added]

EN 13523-0:2021 (E)**3.5
coil coated metal**

metal on which a coating material has been applied by coil coating

**3.6
coil coating**

coating process whereby the coating material is applied continuously to a coil of metal which may be rewound after the film has been dried

Note 1 to entry: This process may include cleaning and/or pre-treatment of the metal surface, and includes:

— either one-side or two-side, single or multiple application of (liquid) paints or coating powders which are subsequently cured;

— or laminating with plastics films.

[SOURCE: EN ISO 4618:2014, 2.56, modified, Note 1 to entry added]

**3.7
organic coating**

dry paint film of the coated product or the plastics film of the film/metal laminate

[SOURCE: EN 10169:2010+A1:2012, 3.20]

**3.8
paint**

pigmented coating material which, when applied to a substrate, forms an opaque dried film having protective, decorative or specific technical properties

[SOURCE: EN ISO 4618:2014, 2.184]

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**3.9
pick-off**

amount of organic coating removed after the application and removal of an adhesive tape

**3.10
substrate**

surface to which a coating material is applied or is to be applied

[SOURCE: EN ISO 4618:2014, 2.244]

4 Sampling

Unless otherwise specified or agreed, take representative samples from the full width of the coil coated metal to be tested, of sufficient size to carry out the required tests.

5 Preparation of test panels

Prepare test panels from the representative samples obtained as described in Clause 4.

Unless otherwise specified or agreed, the test panels shall be flat and of the size specified in the individual test method.

NOTE Sampling with or across the rolling direction might influence the result of some test methods.

6 Conditioning of test panels

Test panels shall be brought to ambient temperature before testing.

Conditioning of test panels is not normally carried out. If specified or in case of dispute, condition the test panels immediately prior to the individual test at a temperature of (23 ± 2) °C and a relative humidity of (50 ± 5) % in accordance with EN 23270, for a minimum of 24 h.

7 Test conditions

Carry out the test (including evaluation) at ambient temperature, if not otherwise specified by the individual test method. In cases of dispute, the test temperature shall be defined as (23 ± 2) °C and the relative humidity as (50 ± 5) %, in accordance with EN 23270.

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Bibliography

- [1] EN 10169:2010+A1:2012, *Continuously organic coated (coil coated) steel flat products — Technical delivery conditions*
- [2] EN ISO 4618:2014, *Paints and varnishes — Terms and definitions (ISO 4618:2014)*

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