



SLOVENSKI STANDARD
SIST EN 13523-0:2002
01-september-2002

Prečiščeni kovinski materiali - Postopki preizkušanja - Del 0: Splošna uvodna besedila in seznam preizkušanih postopkov

Coil coated metals - Test methods - Part 0: General introduction and list of test methods

Bandbeschichtete Metalle - Prüfverfahren - Teil 0: Allgemeine Einleitung und Liste der Prüfverfahren

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Tôles prélaquées - Méthodes d'essai - Partie 0: Introduction générale et liste des méthodes d'essai

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Ta slovenski standard je istoveten z: **EN 13523-0:2001**

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

January 2001

ICS 17.040.20; 25.220.60

English version

Coil coated metals - Test methods - Part 0: General introduction and list of test methods

Tôles prélaquées - Méthodes d'essai - Partie 0:
Introduction générale et liste des méthodes d'essai

Bandbeschichtete Metalle - Prüfverfahren - Teil 0:
Allgemeine Einleitung und Liste der Prüfverfahren

This European Standard was approved by CEN on 30 December 2000.

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 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 Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

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

Management Centre: rue de Stassart, 36 B-1050 Brussels

Foreword

This European Standard 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 July 2001, and conflicting national standards shall be withdrawn at the latest by July 2001.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

This is the first part of EN 13523. It is intended to develop a coherent set of test methods for coil coated metals consisting, at present, of the following parts:

- Part 0: General introduction and list of test methods
- Part 1: Coating thickness
- Part 2: Specular gloss
- Part 3: Colour difference – 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 light 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
- Part 14: Chalking (Helmen method)
- Part 15: Metamerism
- Part 16: Resistance to abrasion
- Part 17: Adhesion of strippable films
- Part 18: Resistance to staining
- Part 19: Panel design and method for atmospheric exposure testing
- Part 20: Foam adhesion
- Part 21: Evaluation of outdoor exposed panels
- Part 22: Colour difference – Visual comparison
- Part 23: Colour stability in humid atmospheres containing sulfur dioxide
- Part 24: Resistance to blocking and pressure marking

The test methods described in the various parts are based on the results of work of the European Coil Coating Association (ECCA), Brussels.

1 Scope

EN 13523 specifies methods of testing organic coatings on coil coated metals.

This Part of EN 13523 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

This European Standard incorporates, by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

EN 23270:1991

Paints and varnishes and their raw materials – Temperatures and humidities for conditioning and testing (ISO 3270:1984)

3 Terms and definitions

For the purposes of EN 13523 the following terms and definitions apply. Additional terms and definitions are given in the other parts of EN 13523.

NOTE: Some of the terms and definitions have been taken from EN 971-1:1996, EN 1396:1996 and from EN 10169-1:1996, as indicated. For titles of these standards, see the Bibliography.

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.

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 plastic film.

3.3

coat

continuous layer of a coating material resulting from a single application. [EN 971-1 : 1996]

3.4

coating material

product, in liquid or in paste or powder form, that, when applied to a substrate, forms a film possessing protective, decorative and/or other specific properties. [EN 971-1 : 1996]

NOTE: For the purposes of EN 13523, plastics films are also considered as coating materials.

3.5

coil coated metal

metal on which a coating material (3.4) has been applied by coil coating (3.6).

3.6

coil coating

coating process whereby the coating material (3.4) is applied continuously to a coil of metal which may be rewound after the film has been dried. [EN ISO 4618-3 : 1999]

NOTE: 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 plastic films.

3.7

organic coating

dry paint film of the coated product or the plastic film of the film/metal laminate. [EN 10169-1 : 1996]

3.8

paint

pigmented coating material, in liquid or in paste or powder form, which when applied to a substrate, forms an opaque film having protective, decorative or specific technical properties. [EN 971-1 : 1996]

3.9**pick-off**

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

3.10**substrate**

surface to which the coating material is applied or is to be applied. [EN 971-1 : 1996]

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.

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 cases 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 23270:1991, 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 23270:1991.

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Bibliography

EN 971-1:1996

Paints and varnishes – Terms and definitions for coating materials – Part 1: General terms

EN 1396:1996

Aluminium and aluminium alloys – Coil coated sheet and strip for general applications – Specifications

EN 10169-1:1996

Continuously organic coated (coil coated) steel flat products – Part 1: General information (definitions, materials, tolerances, test methods)

ENV 10169-2:1999

Continuously organic coated (coil coated) steel flat products – Part 2: Products for building exterior applications

EN ISO 4618-3:1999

Paints and varnishes – Terms and definitions for coating materials – Part 3: Surface preparation and methods of application (ISO 4618-3:1999)

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