



SLOVENSKI STANDARD SIST EN 10169-1:1998

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

Kontinuierlich organisch beschichtete (bandbeschichtete) Flacherzeugnisse aus Stahl - Teil 1: Allgemeines (Definitionen, Werkstoffe, Grenzabweichungen, Prüfverfahren)

Produits plats en acier revetus en continu de matieres organiques (prélaqués) - Partie 1: Généralités (définitions, matériaux, tolérances, méthodes d'essai)

Ta slovenski standard je istoveten z: EN 10169-1:1996

ICS:

25.220.60	Organske prevleke	Organic coatings
77.140.50	Ú[z aá\ ^} áá á^ áá] [á á^ á	Flat steel products and semi-products

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EUROPEAN STANDARD

EN 10169-1

NORME EUROPÉENNE

EUROPÄISCHE NORM

August 1996

ICS 77.140.50

Descriptors: iron and steel products, metal plates, wide strips, strips, steel strips, organic coatings, design, materials, characteristics, tests, dimensional tolerances, inspection, marking, storage

English version

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

Produits plats en acier revêtus en continu de matières organiques (prélaqués) - Partie 1: Généralités (définitions, matériaux, tolérances, méthodes d'essai) **ITeH STANDARD PREVIEW (standards.iteh.ai)** Kontinuierlich organisch beschichtete (bandbeschichtete) Flacherzeugnisse aus Stahl - Teil 1: Allgemeines (Definitionen, Werkstoffe, Grenzabweichungen, Prüfverfahren)

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Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

The European Standards exist 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 Central Secretariat has the same status as the official versions.

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

CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

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Foreword

This European Standard has been prepared by Technical Committee ECISS/TC 27 "Surface coated flat products - Qualities, dimensions, tolerances and specific tests", the secretariat of which is held by DIN.

This European Standard supersedes

EURONORM 169-1985: Continuously organic coated steel flat products

published by the European Coal and Steel Community.

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 February 1997, and conflicting national standards shall be withdrawn at the latest by February 1997.

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

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1 Scope

1.1 This European Standard provides information on the selection and ordering of continuously organic coated (coil coated) steel flat products and specifies appropriate technical requirements for the products, e. g. for test methods and tolerances on coating thickness, appearance, and product dimensions and shape.

This European Standard applies to rolled steel flat products, with or without metallic coatings, that are continuously organic coated by the coil coating process.

The products covered are wide strip, sheets cut from wide strip, slit wide strip, strip rolled in widths less than 600 mm and cut lengths (from sheet or strip).

1.2 The products covered by this European Standard may be used to advantage in cases where corrosion resistance and decorative appearance are of primary importance. They have applications throughout the flat products processing industry, e. g. in the building construction, automotive, appliances, furniture and technical packaging industries.

Coil coated steel flat products may be delivered in numerous type and grades, depending on the base material used (various grades of steel with or without metallic coating), on the coating material and coating type and on the requirements for the surface appearance, the formability and general performance. The properties of the products may vary within greater or smaller limits depending on the choice and combination of the characteristics mentioned and the time of storage.

1.3 For specific applications of coil coated steel flat products additional parts are foreseen, e. g. Part 2: Products for building exterior applications.

1.4 This European Standard is not applicable to continuously organic coated

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- tin mill flat products,
- electrical steels,
- steel strapping.

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 of revision. For undated references, the latest edition of the publications referred to applies.

2.1 Standards for the substrates

- ITeH STANDARD PREVIEW**
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- ENV 606 Bar coded transport and handling labels for steel products
<https://standards.iteh.ai/catalog/standards/sist/146174ad-6627-4e62-84ce-ca928ba496f5/sist-en-10169-1-1998>
- EN 10020 Definition and classification of grades of steel
- EN 10021 General technical delivery requirements for steel and steel products
- EN 10025 Hot rolled products of non-alloy structural steels-Technical delivery conditions
- EN 10027-1 Designation systems for steel
Part 1: Steel names - principal symbols
- EN 10027-2 Designation systems for steel -
Part 2: Steel numbers
- EN 10048 Hot rolled narrow steel strip - Tolerances on dimensions and shape

- EN 10051 Continuously hot-rolled uncoated plate, sheet and strip of non-alloy and alloy steels - Tolerances on dimensions and shape
- EN 10079 Definition of steel products
- EN 10111 Continuously hot-rolled low carbon steel sheet and strip for cold forming - Technical delivery conditions
- EN 10130 Cold rolled low carbon steel flat products for cold forming - Technical delivery conditions
- EN 10131 Cold rolled uncoated low carbon and high yield strength steel flat products for cold forming - Tolerances on dimensions and shape
- EN 10139 Cold rolled uncoated mild steel narrow strip for cold forming - Technical delivery conditions
- EN 10140 Cold rolled narrow steel strip - Tolerances on dimensions and shape
- EN 10142 Continuously hot-dip zinc coated low carbon steel sheet and strip for cold forming - Technical delivery conditions
- EN 10143 Continuously hot-dip metal coated steel sheet and strip - Tolerances on dimensions and shape
- EN 10147 Continuously hot-dip zinc-coated structural steel sheet and strip - Technical delivery conditions

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- EN 10152 Electrolytically zinc coated cold rolled steel flat products - Technical delivery conditions
- EN 10154 Continuously hot-dip aluminium-silicon (AS) coated steel strip and sheet - Technical delivery conditions
- EN 10204 Metallic products - Types of inspection documents
- EN 10214 Continuously hot-dip zinc-aluminium (ZA) coated steel strip and sheet - Technical delivery conditions
- EN 10215 Continuously hot-dip aluminium-zinc (AZ) coated steel strip and sheet - Technical delivery conditions
- EN 10268¹⁾ <https://standards.iteh.ai/catalog/standards/sist/146174ad-6637-4a62-84ce-ca928ba496f5/sist-en-10169-1-1998> Cold-rolled flat products made of high yield strength steels for cold forming - General delivery conditions
- CR 10260 ECISS IC 10-Designation system for steel - Additional symbols for steel names
- EURONORM 153²⁾ Hot-dip terne (lead-alloy) coated cold-reduced carbon steel flat rolled products of commercial and drawing qualities - Technical delivery conditions
- ISO 4997 Cold-reduced steel sheet of structural quality

1) Draft at present stage of work

2) Until it is transformed into an European Standard, either the EURONORM cited or the corresponding national standard may be applied.

2.2 Standards for testing the organic coatings and for the definition of general terms

EN 971-1 ¹⁾	Paints and varnishes - Terms and definitions for coating materials - Part 1: General terms
EN 23270	Paints and varnishes - Temperatures and humidities for conditioning and testing
EN ISO 1519	Paints and varnishes - Bend test (cylindrical mandrel)
EN ISO 1520	Paints and varnishes - Cupping test
EN ISO 2409	Paints and varnishes - Cross-cut test
EN ISO 6272	Paints and varnishes - Falling-weight test
EURONORM 12 ²⁾	Bend test for steel sheet and strip less than 3 mm thick
ISO/DIS 1043-1	Plastics - Symbols - Part 1: Basic polymers and their special characteristics
ISO 1518	Paints and varnishes - Scratch test
ISO 2808	Paints and varnishes - Determination of film thickness
ISO 2810	Paints and varnishes - Notes for guidance on the conduct of natural weathering

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- ISO 2813 Paints and varnishes - Determination of specular gloss of non-metallic paint films at 20°, 60° and 85°
- ISO 2815 Paints and varnishes - Buchholz indentation test
- ISO 3668 Paints and varnishes - Visual comparison of the colour of paints
- ISO 4628-1 Paints and varnishes - Evaluation of degradation of paint coatings - Designation of intensity, quantity and size of common defect - Part 1: General principles and rating schemes
- ISO 4628-2 Paints and varnishes - Evaluation of degradation of paint coatings - Designation of intensity, quantity and size of common defect - Part 2: Designation of degree of blistering
- ISO 4628-3 Paints and varnishes - Evaluation of degradation of paint coatings - Designation of intensity, quantity and size of common defect - Part 3: Designation of degree of rusting
- ISO 4628-4 Paints and varnishes - Evaluation of degradation of paint coatings - Designation of intensity, quantity and size of common defect - Part 4: Designation of degree of cracking
- ISO 4628-5 Paints and varnishes - Evaluation of degradation of paint coatings - Designation of intensity, quantity and size of common defect - Part 5: Designation of degree of flaking

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