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Hot rolled and cold rolled non-coated products of multiphase steels for cold forming - Technical delivery conditions

EESTI STANDARDIMIS- JA AKREDITEERIMISKESKUS
ESTONIAN CENTRE FOR STANDARDISATION AND ACCREDITATION

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 10338:2025 sisaldab Euroopa standardi EN 10338:2025 ingliskeelset teksti.	This Estonian standard EVS-EN 10338:2025 consists of the English text of the European standard EN 10338:2025.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation and Accreditation.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 30.07.2025.	Date of Availability of the European standard is 30.07.2025.
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ICS 77.140.50

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 10338

July 2025

ICS 77.140.50

Supersedes EN 10338:2015

English Version

Hot rolled and cold rolled non-coated products of multiphase steels for cold forming - Technical delivery conditions

Produits plats non revêtus laminés à chaud et laminés à froid en aciers multiphasés pour formage à froid - Conditions techniques de livraison

Warmgewalzte und kaltgewalzte Flacherzeugnisse ohne Überzug aus Mehrphasenstählen zum Kaltumformen - Technische Lieferbedingungen

This European Standard was approved by CEN on 23 June 2025.

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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

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European foreword

This document (EN 10338:2025) has been prepared by Technical Committee CEN/TC 459 “ECISS – European Committee for Iron and Steel Standardization”[1], the secretariat of which is held by AFNOR.

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 January 2026, and conflicting national standards shall be withdrawn at the latest by January 2026.

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 10338:2015.

In comparison with the previous edition, the following technical modifications have been made:

— scope and normative references have been updated;

— definitions have been added in Clause 3;

— renaming of steel grade HCT1180G2 into HCT1180C and deletion of the family for multiphase steel (MP);

— addition of four new steel families: dual-phase steels with improved formability (XH), complex-phase steels with improved formability (CH), multi-phase steels with improved formability (AH) and martensitic steels (MS);

— addition of cold-rolled multiphase steels for cold forming: HCT780XG, HCT1180X, HCT590XH, HCT780XH, HCT980XH, HCT1180XH, HCT980CH, HCT1180CH, HCT1370CH, HCT980AH, HCT1180AH, HCT1100MS, HCT1200MS, HCT1300MS, HCT1500MS and HCT1700MS;

— addition of an informative Annex A about steel designation for multiphase steels for cold forming.

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] Through its sub-committee SC 9 “Coated and uncoated flat products to be used for cold forming” (secretariat: AFNOR).

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1 Scope

This document applies to hot rolled and cold rolled non-coated steel flat products made of multiphase steels for cold forming. It covers cold rolled products of thicknesses t < 3 mm and hot rolled products of thicknesses t ≤ 6,5 mm.

These products are delivered in sheet, hot rolled strip, slit hot rolled strip, cold strip, slit cold rolled strip or cut lengths obtained from slit wide strip.

Flat products of multiphase steels for cold forming can be delivered with an electrolytic zinc coating according to EN 10152.

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 10020, *Definition and classification of grades of steel*

EN 10021, *General technical delivery conditions for steel products*

EN 10048, *Hot rolled narrow steel strip — Tolerances on dimensions and shape*

EN 10049, *Measurement of roughness average Ra and peak count RPc on metallic flat products*

EN 10051, *Continuously hot-rolled strip and plate/sheet cut from wide strip of non-alloy and alloy steels — Tolerances on dimensions and shape*

EN 10079, *Definition of steel products*

EN 10130, *Cold rolled low carbon steel flat products for cold forming — Technical delivery conditions*

EN 10131, *Cold rolled uncoated and zinc or zinc-nickel electrolytically coated low carbon and high yield strength steel flat products for cold forming — Tolerances on dimensions and shape*

EN 10204, *Metallic products — Types of inspection documents*

EN ISO 377, *Steel and steel products — Location and preparation of samples and test pieces for mechanical testing (ISO 377)*

EN ISO 6892-1:2019, *Metallic materials — Tensile testing — Part 1: Method of test at room temperature (ISO 6892-1:2019)*

ISO 10275, *Metallic materials — Sheet and strip — Determination of tensile strain hardening exponent*

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