KÜLMALT MÕÕTUVALTSITUD ÜLDTÖÖSTLUSLIKU KVALITEEDIGA JA TÕMBEKVALITEEDIGA SÜSINIKTERASLEHT

Cold-reduced carbon steel sheet of commercial and drawing qualities

EESTI STANDARDIKESKUS
ESTONIAN CENTRE FOR STANDARDISATION

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-ISO 3574:2010 “Külmalt mõõtuvaltsitud üldtööstusliku kvaliteediga ja tõmbekvaliteediga süsinikterasleht” sisaldab rahvusvahelise standardi ISO 3574:2008 “Cold-reduced carbon steel sheet of commercial and drawing qualities” identset ingliskeelset teksti.	This Estonian Standard EVS-ISO 3574:2010 consists of the identical English text of the International Standard ISO 3574:2008 “Cold-reduced carbon steel sheet of commercial and drawing qualities”.
Standard EVS-ISO 3574:2010 on kinnitatud Eesti Standardikeskuse 10.12.2010 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teataja 2011. aasta jaanuarikuu numbris.	This standard is ratified with the order of Estonian Centre for Standardisation dated 10.12.2010 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.
Standard on kättesaadav Eesti Standardikeskusest.	The standard is available from Estonian Centre for Standardisation.

Käsitlusala

1.1 Käesolev rahvusvaheline standard käsitleb külmalt mõõtuvaltsitud üldtööstusliku kvaliteediga ja tõmbekvaliteediga süsinikteraslehe omadusi. Seda kasutatakse selliste rakenduste jaoks, kus toote pinnakvaliteet on põhilise tähtsusega.

1.2 Üldtööstusliku kvaliteediga lehte (CR1) kasutatakse üldise otstarbega tootmises, kus lehte kasutatakse tasapinnaliste toodete tootmiseks, painutamiseks, mõõdukaks vormimiseks ja keevitatud toodete tootmiseks. Antud teraslehte valmistatakse paksuste vahemikus 0,36 mm ja üle (tavaliselt valmistatakse paksuseni kuni 4 mm), laiusega 600 mm ja üle, rullides ja mõõtulõigatud lehtedes.

1.3 Tõmbekvaliteediga teraslehte (CR2, CR3, CR4, CR5) kasutatakse tõmbamiseks või tugevaks vormimiseks, kaasa arvatud keevitamiseks. Antud teraslehte valmistatakse paksusega 0,36 mm ja üle (tavaliselt valmistatakse paksuseni kuni 4 mm), laiusega 600 mm ja üle, rullides ja mõõtulõigatud lehtedes. Tõmbekvaliteediga terasleht on määratud kõikide käesoleva rahvusvahelise standardi nõuetega või kui tellitakse vastavalt kokkuleppele kindlaksmääratud omadustega toote tootmine, siis sellisel ei ole juhul antud rahvusvahelise standardi nõuded mehaanilistele omadustele kohaldatud. Teraste tõmbekvaliteedid on määratud järgnevalt:

CR2 – tõmbekvaliteediga terasleht

CR3 – sügavtõmbekvaliteediga terasleht

CR4 – sügavtõmbekvaliteediga terasleht, desoksüdeeritud alumiiniumiga (mitte-vanandatud)

CR5 – ekstrasügavtõmbekvaliteediga terasleht (stabiliseeritud kõrglegeeritud ülimadala süsinikusisaldusega teras)

1.4 Kõrglegeeritud ülimadala süsinikusisaldusega terast võib kasutada toodete tootmiseks CR2, CR3, CR4 kvaliteediga terastest, kindlustades, et klienti on informeeritud vastavast asendusest ja tarnedokumentides on kirjas konkreetne tarnitud materjal.

1.5 Külmalt mõõtuvaltsitud süsinikterasleht laiusega vähem kui 600 mm võidakse lõigata laiast lehest ja seda käsitletakse kui lehte.

ICS 77.140.50 Lameterastooted ja -pooltooted

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 3574 was prepared by Technical Committee ISO/TC 17, *Steel*, Subcommittee SC 12, *Continuous mill flat rolled products*.

This fourth edition cancels and replaces the third edition (ISO 3574:1999), which has been technically revised.

Cold-reduced carbon steel sheet of commercial and drawing qualities

1 Scope

1.1 This International Standard applies to cold-reduced carbon steel sheet of commercial and drawing qualities. It is suitable for applications where the surface is of prime importance.

1.2 Commercial quality sheet (CR1) is intended for general fabricating purposes where sheet is used in the flat condition or for bending, moderate forming, and welding operations. It is produced in thicknesses of 0,36 mm and thicker (commonly produced up to 4 mm) and in widths of 600 mm and over, in coils and cut lengths.

1.3 Drawing quality sheet (CR2, CR3, CR4, CR5) is intended for drawing or severe forming, including welding. It is produced in thicknesses of 0,36 mm and thicker (commonly produced up to 4 mm) and in widths of 600 mm and wider, in coils and cut lengths. Drawing quality sheet is furnished according to all the requirements of this International Standard, or, by agreement when ordered, to fabricate an identified part, in which case, the mechanical property requirements do not apply. Drawing qualities are identified as follows:

CR2 — Drawing quality

CR3 — Deep drawing quality

CR4 — Deep drawing quality aluminum killed (non-ageing)

CR5 — Extra deep drawing quality (stabilized interstitial free)

1.4 Interstitial free steel (IF steel) can be applied on orders of CR2, CR3 and CR4, provided that the customer is informed of the substitution and related shipping documents reflect the actual material shipped.

1.5 Cold-reduced sheet less than 600 mm wide can be slit from wide sheet and will be considered as sheet.

2 Normative references

The following standards referenced documents are indispensable for the application 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.

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

ISO 10113, *Metallic materials — Sheet and strip — Determination of plastic strain ratio*

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

ISO 16162, *Continuously cold-rolled steel sheet products — Dimensional and shape tolerances*