

**Bright steel products - Technical
delivery conditions - Part 5: Steels for
quenching and tempering**

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Part 5: Steels for quenching and tempering

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 10277-5:2000 sisaldab Euroopa standardi EN 10277-5:1999 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 11.01.2000 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 10277-5:2000 consists of the English text of the European standard EN 10277-5:1999.</p> <p>This document is endorsed on 11.01.2000 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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<p>Käsitlusala: This part of prEN 10277 applies to bright steel bars in the drawn, turned or ground condition, in straight lengths of steels for quenching and tempering. This prEN 10277-5 is complemented by prEN 10277-1.</p>	<p>Scope: This part of prEN 10277 applies to bright steel bars in the drawn, turned or ground condition, in straight lengths of steels for quenching and tempering. This prEN 10277-5 is complemented by prEN 10277-1.</p>
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ICS 77.140.60

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English version

Bright steel products

Technical delivery conditions

Part 5: Steels for quenching and tempering

Produits en acier transformés à froid –	Blankstahlerzeugnisse –
Conditions techniques de livraison –	Technische Lieferbedingungen –
Partie 5: Aciers pour trempe et revenu	Teil 5: Vergütungsstähle

This European Standard was approved by CEN on 1999-06-11.

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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.

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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 23 "Steels for heat treatment, alloy steels and free-cutting steels - Qualities and dimensions", 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 January 2000, and conflicting national standards shall be withdrawn at the latest by January 2000.

This European Standard has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association. This European Standard is considered to be a supporting standard to those application and product standards which in themselves support an essential safety requirement of a New Approach Directive and which make reference to this European Standard.

This European Standard EN 10277 "Bright steel products - Technical delivery conditions" is subdivided as follows:

- Part 1: General;
- Part 2: Steels for general engineering purposes;
- Part 3: Free-cutting steels;
- Part 4: Case hardening steels;
- Part 5: Steels for quenching and tempering.

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.

1 Scope

1.1 This part of EN 10277 applies to bright steel bars in the drawn, turned or ground condition, in straight lengths of steels for quenching and tempering.

1.2 This EN 10277-5 is complemented by EN 10277-1.

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.

EN 10083-1:1991+A1:1996 Quenched and tempered steels - Part 1: Technical delivery conditions for special steels

EN 10277-1 Bright steel products - Technical delivery conditions - Part 1: General

3 Definitions

For the purpose of this standard, the following definition applies in addition to the definitions in EN 10277-1.

3.1 Steels for quenching and tempering: Engineering steels which because of their chemical composition are suitable for hardening and in the quenched and tempered condition have good toughness at a given tensile strength.

4 Classification and designation

4.1 Classification

Steel grades C35E, C35R, C40E, C40R, C45E, C45R, C50E, C50R, C60E and C60R are non-alloy special steels. All other steel grades covered by this European Standard are alloy special steels.