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Språk: Engelsk

**Blankt stål**  
**Tekniske leveringsbetingelser**  
**Del 2: Stål for alminnelig bruk**

Bright steel products  
Technical delivery conditions  
Part 2: Steels for general engineering purposes

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### **Nasjonalt forord**

Den engelskspråklige versjonen av europeisk standard EN 10277-2:2008 er fastsatt som Norsk Standard NS-EN 10277-2:2008 i juli 2008.

Denne standarden erstatter NS-EN 10277-2:1999/AC:2003, NS-EN 10277-2:1999.

### **National foreword**

The English language version of European Standard EN 10277-2:2008 has been adopted as Norwegian Standard NS-EN 10277-2:2008 in July 2008.

This standard supersedes NS-EN 10277-2:1999/AC:2003, NS-EN 10277-2:1999.

English Version

**Bright steel products - Technical delivery conditions - Part 2:  
Steels for general engineering purposes**

Produits en acier transformés à froid - Conditions  
techniques de livraison - Partie 2: Aciers d'usage général

Blankstahlerzeugnisse - Technische Lieferbedingungen -  
Teil 2: Stähle für allgemeine technische Verwendung

This European Standard was approved by CEN on 4 February 2008.

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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 Management Centre has the same status as the official versions.

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## Foreword

This document (EN 10277-2:2008) 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of an identical text or by endorsement, at the latest by September 2008, and conflicting national standards shall be withdrawn at the latest by September 2008.

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

This document supersedes EN 10277-2:1999.

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

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.

During the preparation of the first edition of this European Standard there were not enough statistical data available concerning mechanical properties of bright bar products. Since then it has been recognized that the proof strength values in the cold drawn condition were too high. In addition, cyclic stresses that occur during straightening can reduce the proof strength (Bauschinger's effect), which was not taken into account when drafting the first edition of this standard. In this second edition the proof strength values of non-alloy and alloy grades in condition +QT+C in parts 3 and 5 have been adjusted downwards compared to the first edition.

Furthermore for this part the values for the tensile strength of grades S235JRC and S355J2C were adapted to EN 10025-2 in the table for mechanical properties.