

**Surveotstarbelised terassepised. Osa 5:
Martensiit, austeniit ja austeniit-ferriit
roostevabad terased**

Steel forgings for pressure purposes - Part 5:
Martensitic, austenitic, and austenitic-ferritic stainless
steels

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 10222-5:2000 sisaldab Euroopa standardi EN 10222-5:1999+AC:2000 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 16.06.2000 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 10222-5:2000 consists of the English text of the European standard EN 10222-5:1999+AC:2000.</p> <p>This document is endorsed on 16.06.2000 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:</p> <p>This part of this draft European Standard specifies the technical delivery conditions for forgings for pressure purposes made of stainless steels, including creep resisting steels. Chemical composition and mechanical properties are specified.</p>	<p>Scope:</p> <p>This part of this draft European Standard specifies the technical delivery conditions for forgings for pressure purposes made of stainless steels, including creep resisting steels. Chemical composition and mechanical properties are specified.</p>
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ICS 77.140.30, 77.140.85

Võtmesõnad:

Hinnagrupp J

English version

Steel forgings for pressure purposes

Part 5: Martensitic, austenitic and austenitic-ferritic stainless steels

Pièces forgées en acier pour appareils à pression – Partie 5: Aciers inoxydables martensitiques, austénitiques et austéno-ferritiques

Schmiedestücke aus Stahl für Druckbehälter – Teil 5: Martensitische, austenitische und austenitisch-ferritische nicht rostende Stähle

This European Standard was approved by CEN on 1999-09-03.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

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, the Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and the 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 28 “Steel forgings”, the secretariat of which is held by BSI.

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 June 2000, and conflicting national standards shall be withdrawn at the latest by June 2000.

This European Standard has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For relationship with EU Directive(s), see informative Annex ZB, which is an integral part of this standard.

Attention is drawn to annex ZA which is an A-deviation requested by Sweden.

The titles of the other Parts of this European Standard are:

Part 1: General requirements for open die forgings

Part 2: Ferritic and martensitic steels with specified elevated temperature properties

Part 3: Nickel steels with specified low temperature properties

Part 4: Weldable fine grain steels with high proof strength

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

This Part of this European Standard specifies the technical delivery conditions for forgings for pressure purposes made of stainless steels, including creep resisting steels. Chemical composition and mechanical properties are specified.

General information on technical delivery conditions is given in EN 10021.

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 10021	General technical delivery requirements for iron and steel products
EN 10222-1:1998	Steel forgings for pressure purposes - Part 1: General requirements for open die forgings

3 Chemical composition

3.1 Cast analysis

The chemical composition (cast analysis), determined in accordance with EN 10222-1, shall conform to table 1.

3.2 Product analysis

The product analysis shall not deviate from the specified cast analysis (see table 1) by more than the values specified in table 2 (see 9.2 to EN 10222-1:1998).

4 Heat treatment and mechanical properties

When heat treated in accordance with table 1, the mechanical properties determined in accordance with EN 10222-1, shall conform to the requirements of table 1.

Verification of the impact properties of martensitic and austenitic-ferritic stainless steels shall be mandatory and for austenitic stainless steels shall be by agreement.