Steel castings for general engineering uses

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EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN
10293:2005 sisaldab Euroopa standardi
EN 10293:2005 ingliskeelset teksti.

Käesolev dokument on jõustatud 30.05.2005 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.

Standard on kättesaadav Eesti standardiorganisatsioonist.

This Estonian standard EVS-EN 10293:2005 consists of the English text of the European standard EN 10293:2005.

This document is endorsed on 30.05.2005 with the notification being published in the official publication of the Estonian national standardisation organisation.

The standard is available from Estonian standardisation organisation.

Käsitlusala:

This document applies to steel castings: for general engineering uses. Its uses
include machinery (mechanical,
electrical...), automotive industries,
railroad, armament, agricultural
equipment, mining

Scope:

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ICS 77.140.80

Võtmesõnad: grades, grades (quality), inspection, marking, materials, mechanical properties, pressure vessels, production, properties, quality, specification (approval), specifications, steel grades, steels, strength of materials, structural systems, testing

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EUROPEAN STANDARD

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NORME EUROPÉENNE EUROPÄISCHE NORM

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English version

Steel castings for general engineering uses

Aciers moulés d'usage général

Stahlguss für allgemeine Anwendungen

This European Standard was approved by CEN on 14 February 2005.

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.

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 Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION COMITÉ EUROPÉEN DE NORMALISATION EUROPÄISCHES KOMITEE FÜR NORMUNG

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Foreword

This document (EN 10293:2005) has been prepared by Technical Committee ECISS/TC 31 "Steel castings", 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 October 2005, and conflicting national standards shall be withdrawn at the latest by October 2005.

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

Introduction

This document retains the same format for clauses as EN 1559-1:1997 and EN 1559-2:2000. It should be used in conjunction with these standards. Where no text is given under a paragraph heading, the corresponding paragraph of EN 1559-1:1997 and EN 1559-2:2000 applies.

The structure of this document is as follows:

- clauses and subclauses preceded by indicates no additional conditions to EN 1559-11) and EN 1559-21);
- clauses and subclauses marked with a single dot indicate that the conditions shall be agreed at the time of enquiry and order;
- subclauses marked with two dots indicate that conditions may be agreed at the time of enquiry and order (optional);
- subclauses without dot marking are mandatory.

Socretain Seneral des of Files 1) When a complementary information is given in a clause or subclause of this document (versus the same clause or subclause of EN 1559-1:1997 or EN 1559-2:2000) it is preceded by "in addition to EN 1559-2:2000".

1 Scope

This document applies to steel castings:

— for general engineering uses. Its uses include machinery (mechanical, electrical...), automotive industries, railroad, armament, agricultural equipment, mining

In cases where castings are joined by welding by the founder, this document applies.

In cases where castings are welded:

- to wrought products (plates, tubes, forgings...), or
- by non founders

this document does not apply.

2 Normative references

The following 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.

EN 1559-2:2000, Founding — Technical conditions of delivery — Part 2: Additional requirements for steel castings

■ 3 Terms and definitions

• 4 Information to be supplied by the purchaser

In cases of grades with different mechanical properties relating to heat treatment conditions the purchaser shall specify the heat treatment symbol (see Clause 5).

5 Designation

In addition to EN 1559-2:2000:

— for a steel grade which can be delivered to different strength levels, according to the heat treatment, a suffix shall be added in accordance with Table 3. For example: G26CrMo4 + QT1.

6 Manufacture

6.1 Manufacturing process

■ 6.1.1 Melting

6.1.2 Heat treatment

Unless otherwise agreed, the type of heat treatment shall comply with Table 3.

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