

**Süsinik- ja legeerterasest valmistatud
kinnitusdetailide mehaanilised
omadused. Osa 5: Seadekruvid ja
sarnased tõmbepinge all mitteolevad
keermestatud kinnitusdetailid**

Mechanical properties of fasteners made of carbon
steel and alloy steel - Part 5: Set screws and similar
threaded fasteners not under tensile stresses

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN ISO 898-5:1999 sisaldab Euroopa standardi EN ISO 898-5:1998 ingliskeelset teksti. Käesolev dokument on jõustatud 23.11.1999 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes. Standard on kättesaadav Eesti standardiorganisatsioonist.	This Estonian standard EVS-EN ISO 898-5:1999 consists of the English text of the European standard EN ISO 898-5:1998. This document is endorsed on 23.11.1999 with the notification being published in the official publication of the Estonian national standardisation organisation. The standard is available from Estonian standardisation organisation.
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Käsitlusala: ISO 898 see osa määrab kindlaks süsinik- või legeerterasest valmistatud, 1,6 - 24 mm (kaasa arvatud) keerme nimiläbimõõduga seadekruvide ja sarnaste tõmbepinge all mitteolevate kinnitusdetailide mehaanilised omadused.	Scope:
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ICS 21.060.10

Võtmesõnad: katsed, kinnitusdetailid, kruvid, kõvaduskatsed, materjalide tehnilised andmed, mehaanilised katsed, mehaanilised omadused, märgistamine, seadekruvid, tehnilised andmed, tähistus

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Descriptors: Fasteners, set screws, mechanical properties, testing.

English version

**Mechanical properties of fasteners made of carbon
steel and alloy steel**

Part 5: Set screws and similar threaded fasteners not under tensile stresses
(ISO 898-5 : 1998)

Caractéristiques mécaniques des
éléments de fixation en acier au
carbone et en acier allié – Partie 5: Vis
sans tête et éléments de fixation filetés
similaires non soumis à des contraintes
de traction (ISO 898-5 : 1998)

Mechanische Eigenschaften von
Verbindungselementen aus Kohlen-
stoffstahl und legiertem Stahl – Teil 5:
Gewindestifte und ähnliche nicht auf
Zug beanspruchte Verbindungs-
elemente (ISO 898-5 : 1998)

This European Standard was approved by CEN on 1998-07-25.

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

Foreword

International Standard

ISO 898-5 : 1998 Mechanical properties of fasteners made of carbon steel and alloy steel – Part 5: Set screws and similar threaded fasteners not under tensile stresses,

which was prepared by ISO/TC 2 'Fasteners' of the International Organization for Standardization, has been adopted by Technical Committee CEN/TC 185 'Threaded and non-threaded mechanical fasteners and accessories', the Secretariat of which is held by DIN, as a European Standard.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, and conflicting national standards withdrawn, by February 1999 at the latest.

In accordance with the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard:

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.

Endorsement notice

The text of the International Standard ISO 898-5 : 1998 was approved by CEN as a European Standard without any modification.

NOTE: Normative references to international publications are listed in Annex ZA (normative).

1 Scope

This part of ISO 898 specifies the mechanical properties of set screws and similar threaded fasteners not under tensile stresses with nominal thread diameters from 1,6 mm up to and including 24 mm, which are made of carbon steel or alloy steel.

The mechanical and physical properties apply when tested at an ambient temperature of 10 °C to 35 °C and will vary at higher or lower temperatures.

This part of ISO 898 does not apply to set screws requiring special properties such as

- specified tensile stresses (see ISO 898-1);
- weldability;
- corrosion resistance;
- ability to withstand temperatures above + 300 °C or below – 50 °C.

NOTE — Set screws made from free-cutting steel should not be used above + 250 °C.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO 898. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this part of ISO 898 are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 965-3:1998, *ISO general purpose metric screw threads — Tolerances — Part 3: Deviations for constructional threads.*

ISO 4948-1:1982, *Steels — Classification — Part 1: Classification of steels into unalloyed and alloy steels based on chemical composition.*

ISO 6506:1981, *Metallic materials — Hardness test — Brinell test.*

ISO 6507-1:1997, *Metallic materials — Vickers hardness test — Part 1: Test method.*

ISO 6508:1986, *Metallic materials — Hardness test — Rockwell test (scales A - B - C - D - E - F - G - H - K).*