SLOVENSKI STANDARD
SIST EN ISO 898-6:1996

01-april-1996

Mehanske lastnosti veznih elementov - 6. del: Matice z drobnim navojem z določeno preskušeno obremenitvijo

Mechanical properties of fasteners - Part 6: Nuts with specified proof load values - Fine pitch thread (ISO 898-6:1994)

Mechanische Eigenschaften von Verbindungselementen - Teil 6: Muttern mit festgelegten Prüfkräften - Feingewinde (ISO 898-6:1994)

Caractéristiques mécaniques des éléments de fixation - Partie 6: Ecrous avec charges d'épreuve spécifiées - Filetage a pas fin (ISO 898-6:1994)

Ta slovenski standard je istoveten z: **EN ISO 898-6:1995**

ICS:

21.060.20 Matice Nuts

SIST EN ISO 898-6:1996 **en**

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN ISO 898-6

November 1995

ICS 21.060.20

Supersedes EN 20898-6:1992

Descriptors: See ISO document

English version

Mechanical properties of fasteners - Part 6: Nuts with specified proof load values - Fine pitch thread (ISO 898-6:1994)

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This European Standard was approved by CEN on 1995-11-04. 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.

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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

Foreword

The text of the International Standard from ISO/TC 2 "Fasteners" of the International Organization for Standardization (ISO) has been taken over as a European Standard by the Technical Committee CEN/TC 185 "Threaded and non-threaded mechanical fasteners and accessories".

This European Standard replaces EN 20898-6:1992.

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of an identical text or by endorsement, at the latest by May 1996, and conflicting national standards shall be withdrawn at the latest by May 1996.

According to the CEN/CENELEC Internal Regulations, the following countries are bound to implement this European Standard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, United Kingdom.

Endorsement notice

The text of the International Standard ISO 898-6:1994 was approved by CEN as a European Standard without any modification.

NOTE: Normative references to International Standard are listed in annex ZA (normative).

Annex ZA (normative)
Normative references to international publications with their relevant European publications

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.

Publication	Year	Title	EN/HD	Year
ISO 286-1	1988	ISO systems of limits and fits - Part 1: Bases of tolerances, deviations and fits	EN 20286-1	1993
ISO 898-2	1992	Mechanical properties of fasteners - Part 2: Nuts with specified proof load values - Coarse thread	EN 20898-2	1993

INTERNATIONAL STANDARD

ISO 898-6

Second edition
1994-12-15

Mechanical properties of fasteners —

Part 6:
Nuts with specified proof load values — Fine pitch thread

Caractéristiques mécaniques des éléments de fixation —

Partie 6: Écrous avec charges d'épreuve spécifiées — Filetage à pas fin

Reference number
ISO 898-6:1994(E)

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 898-6 was prepared by Technical Committee ISO/TC 2, *Fasteners*, Subcommittee SC 1, *Mechanical properties of fasteners*.

This second edition cancels and replaces the first edition (ISO 898-6:1988), which has been technically revised.

ISO 898 consists of the following parts, under the general title *Mechanical properties of fasteners*:

- *Part 1: Bolts, screws and studs*
- *Part 2: Nuts with specified proof load values — Coarse thread*
- *Part 5: Set screws and similar threaded fasteners not under tensile stresses*
- *Part 6: Nuts with specified proof load values — Fine pitch thread*
- *Part 7: Torsional test and minimum torques for bolts and screws with nominal diameters 1 mm to 10 mm*

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Printed in Switzerland

Mechanical properties of fasteners —

Part 6:
Nuts with specified proof load values — Fine pitch thread

1 Scope

This part of ISO 898 specifies the mechanical properties of nuts with specified proof load values when tested at an ambient temperature range of + 10 °C to + 35 °C. Mechanical and physical properties will vary with respect to temperature and property class.

Products conforming to the requirements of this part of ISO 898 are evaluated only at the ambient temperature range and may not retain the specified physical properties at higher and lower temperatures.

At temperatures higher or lower than the ambient temperature range, a significant change in properties may occur. When fasteners are to be used above or below the ambient temperature range, it is the responsibility of the user to ensure that the mechanical and physical properties are suitable for his particular service conditions.

This part of ISO 898 applies to nuts

- with nominal thread diameters, d, from 8 mm up to and including 39 mm (fine pitch thread);
- of triangular ISO thread and with diameters and pitches in accordance with ISO 68 and ISO 262 (fine pitch thread);
- with diameter/pitch combinations in accordance with ISO 261 (fine pitch thread);
- with thread tolerances 6H in accordance with ISO 965-1 and 965-2 (see note 2);
- with specific mechanical requirements;
- with widths across flats as specified in ISO 272;
- with nominal heights greater than or equal to $0{,}5d$[1];
- made of carbon steel or alloy steel (see note 1).

It does not apply to nuts requiring special properties such as

- weldability;
- prevailing torque performance (see ISO 2320);
- corrosion resistance (see ISO 3506);
- ability to withstand temperatures above + 300 °C or below − 50 °C. (However, see note 1.)

NOTES

1 Nuts made from free-cutting steel should not be used above + 250 °C.

2 With thread tolerances other or larger than 6H, a decrease in the stripping strength should be considered (see table 1).

1) In ISO 898:1988, the symbol D was used.