



SLOVENSKI STANDARD
SIST EN ISO 10485:2004
01-november-2004

BUXca Yý U
SIST EN 493:2001

Obremenitveni preskus matic (ISO 10485:1991)

Cone proof load test on nuts (ISO 10485:1991)

Kegelprüfungversuch an Muttern (ISO 10485:1991)

Essai de charge d'épreuve au cône des écrous (ISO 10485:1991)

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Ta slovenski standard je istoveten z: EN ISO 10485:2004

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ICS:

21.060.20 Matice Nuts

SIST EN ISO 10485:2004 **en**

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 10485

July 2004

ICS 21.060.20

Supersedes EN 493:1992

English version

Cone proof load test on nuts (ISO 10485:1991)

Essai de charge d'épreuve au cône des écrous (ISO 10485:1991)

Kegelprüfkraftversuch an Muttern (ISO 10485:1991)

This European Standard was approved by CEN on 1 July 2004.

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.

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

Management Centre: rue de Stassart, 36 B-1050 Brussels

EN ISO 10485:2004 (E)**Foreword**

The text of ISO 10485:1991 has been prepared by Technical Committee ISO/TC 2 "Fasteners" of the International Organization for Standardization (ISO) and has been taken over as EN ISO 10485:2004 by Technical Committee CEN/TC 185 "Threaded and non-threaded mechanical fasteners and accessories", 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 January 2005, and conflicting national standards shall be withdrawn at the latest by January 2005.

This document supersedes EN 493:1992.

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, 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.

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Endorsement notice
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The text of ISO 10485:1991 has been approved by CEN as EN ISO 10485:2004 without any modifications.

[SIST EN ISO 10485:2004](#)

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

[803422174605/sist-en-iso-10485-2004](http://standards.iteh.ai/catalog/standards/sist-en-iso-10485-2004)

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 (including amendments).

NOTE Where an International Publication has been modified by common modifications, indicated by (mod.), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN</u>	<u>Year</u>
ISO 898-2	1992	Mechanical properties of fasteners - Part 2: Nuts with specified proof load values - Coarse thread	EN 20898-2	1993

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INTERNATIONAL STANDARD

ISO
10485

First edition
1991-12-01

Cone proof load test on nuts

Essai de charge d'épreuve au cône des écrous

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Reference number
ISO 10485:1991(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 10485 was prepared by Technical Committee ISO/TC 2, *Fasteners*, Sub-Committee SC 1, *Mechanical properties of fasteners*.

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Cone proof load test on nuts

1 Scope

This International Standard specifies the properties of nuts with

- nominal thread diameter, d , from 5 mm up to and including 39 mm,
- product grades A and B,
- property classes 8 to 12,

under the conditions of the cone proof load test.

2 Normative references

The following standards contain provisions which through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard 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 898-2:—¹⁾, *Mechanical properties of fasteners — Part 2: Nuts with specified proof load values — Coarse thread.*

ISO 898-6:1988, *Mechanical properties of fasteners — Part 6: Nuts with specified proof load values — Fine pitch thread.*

3 Principle

Detection of the presence of seams or cracks which could be detrimental. The use of a conical washer exaggerates the influence of such defects on the load-bearing ability of the nut by introducing a simultaneous dilating and stripping action.

4 Apparatus

4.1 Conical washer (see figure 1), having a minimum hardness of 57 HRC. The contact point of the cone shall be flat and shall have a width of $0,13 \text{ mm} \pm 0,03 \text{ mm}$ for nominal thread diameters $d \leq 12 \text{ mm}$ and a width of $0,38 \text{ mm} \pm 0,03 \text{ mm}$ for nominal thread diameters $d > 12 \text{ mm}$.

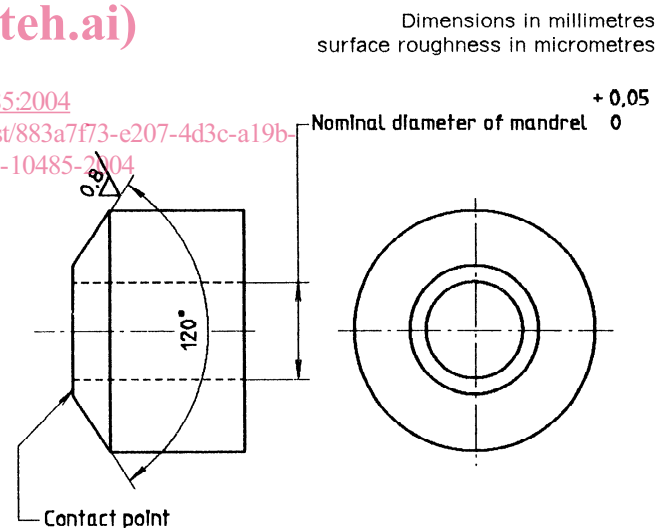


Figure 1 — Conical washer

4.2 Mandrel, hardened (45 HRC min.) and threaded to tolerance class 6g, except that the tolerance of the major diameter shall be the last quarter of the 6g range on the minimum material side.

1) To be published. (Revision of ISO 898-2:1980)