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Widening test on nuts

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EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN ISO 10484:2004 sisaldab Euroopa standardi EN ISO 10484:2004 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 26.10.2004 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN ISO 10484:2004 consists of the English text of the European standard EN ISO 10484:2004.</p> <p>This document is endorsed on 26.10.2004 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: this International Standard specifies the test procedure for evaluating the acceptability of surface discontinuities designated in ISO 6157-2 excluding nuts made of free cutting steel.</p>	<p>Scope: this International Standard specifies the test procedure for evaluating the acceptability of surface discontinuities designated in ISO 6157-2 excluding nuts made of free cutting steel.</p>
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ICS 21.060.20

Võtmesõnad:

English version

Widening test on nuts

(ISO 10484 : 1997)

Essai d'évasement des écrous
(ISO 10484 : 1997)

Aufweitversuch an Muttern
(ISO 10484 : 1997)

This European Standard was approved by CEN on 2004-07-01.

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 Management Centre 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 Management Centre has the same status as the official versions.

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

CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

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

Foreword

International Standard

ISO 10484 : 1997 Widening test on nuts,

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 January 2005 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, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland, and the United Kingdom.

Endorsement notice

The text of the International Standard ISO 10484 : 1997 was approved by CEN as a European Standard without any modification.

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

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1 Scope

This International Standard specifies the test procedure for evaluating the acceptability of surface discontinuities designated in ISO 6157-2 excluding nuts made of free cutting steel.

It applies to nuts with

- property classes to ISO 898-2 and ISO 898-6;
- nominal thread diameter, d , from 5 mm up to and including 39 mm;
- product grades A and B.

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 898-2:1992, *Mechanical properties of fasteners – Part 2: Nuts with specified proof load values – Coarse thread.*

ISO 898-6:1994, *Mechanical properties of fasteners – Part 6: Nuts with specified proof load values – Fine pitch thread.*

ISO 2320:1997, *Prevailing torque type steel hexagon nuts – Mechanical and performance properties.*

ISO 6157-2:1995, *Fasteners – Surface discontinuities – Part 2: Nuts.*

3 Widening test

3.1 Principle

After removal of the thread up to the nominal thread diameter a tapered mandrel is pushed into the nut.

The widening is measured as a percentage of the hole diameter.

3.2 Test mandrel

The test mandrel shown in figure 1 shall be used for measurement of widening of 6 % or 4 % respectively (see clause 4). It shall have a minimum hardness of not less than 45 HRC and the cone shall be polished (roughness $R_a = 2,5 \mu\text{m}$).

3.3 Test nut

The nut to be subjected to the widening test shall have the thread removed to a diameter equal to the nominal diameter of the thread with the tolerance H12.