



NSAI
Standards

Irish Standard
I.S. EN ISO 10511:2012

Prevailing torque type hexagon thin nuts (with non-metallic insert) (ISO 10511:2012)

I.S. EN ISO 10511:2012

Incorporating amendments/corrigenda/National Annexes issued since publication:

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This document replaces:
EN ISO 10511:1997

<i>This document is based on:</i>	<i>Published:</i>
EN ISO 10511:2012	11 January, 2013
EN ISO 10511:1997	15 November, 1997

This document was published
under the authority of the NSAI
and comes into effect on:
11 January, 2013

ICS number:
21.060.20

NSAI
1 Swift Square,
Northwood, Santry
Dublin 9

T +353 1 807 3800
F +353 1 807 3838
E standards@nsai.ie
W NSAI.ie

Sales:
T +353 1 857 6730
F +353 1 857 6729
W standards.ie

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I.S. EN ISO 10511:2012

EUROPEAN STANDARD

EN ISO 10511

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 2012

ICS 21.060.20

Supersedes EN ISO 10511:1997

English Version

Prevailing torque type hexagon thin nuts (with non-metallic insert) (ISO 10511:2012)

Écrous hexagonaux bas autofreinés (à anneau non métallique) (ISO 10511:2012)

Sechskantmuttern mit Klemmteil (mit nichtmetallischem Einsatz), niedrige Form (ISO 10511:2012)

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Foreword

This document (EN ISO 10511:2012) has been prepared by Technical Committee ISO/TC 2 "Fasteners" in collaboration with Technical Committee CEN/TC 185 "Fasteners" 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of an identical text or by endorsement, at the latest by June 2013, and conflicting national standards shall be withdrawn at the latest by June 2013.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN ISO 10511:1997.

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The text of ISO 10511:2012 has been approved by CEN as EN ISO 10511:2012 without any modification.

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I.S. EN ISO 10511:2012
INTERNATIONAL
STANDARD

ISO
10511

Third edition
2012-12-15

**Prevailing torque type hexagon thin nuts
(with non-metallic insert)**

Écrous hexagonaux bas autofreinés (à anneau non métallique)



Reference number
ISO 10511:2012(E)

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Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

Published in Switzerland

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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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. 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.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 10511 was prepared by Technical Committee ISO/TC 2, *Fasteners*, Subcommittee SC 12, *Fasteners with metric internal thread*.

This third edition cancels and replaces the second edition (ISO 10511:1997), of which it constitutes a minor revision.

Prevailing torque type hexagon thin nuts (with non-metallic insert)

1 Scope

This International Standard specifies the characteristics of prevailing torque type hexagon thin nuts (with non-metallic insert) with thread from M3 up to and including M36, in product grade A for threads up to and including M16 and product grade B for threads above M16, and with property classes 04 and 05.

NOTE The dimensions of the nuts correspond to those given in ISO 4035 plus prevailing torque feature.

If other specifications are required, they can be selected from existing International Standards, for example ISO 261, ISO 724, ISO 898-2, ISO 965-2, ISO 2320 and ISO 4759-1.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable to its application. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 225, *Fasteners — Bolts, screws, studs and nuts — Symbols and descriptions of dimensions*

ISO 261, *ISO general purpose metric screw threads — General plan*

ISO 724, *ISO general-purpose metric screw threads — Basic dimensions*

ISO 898-2, *Mechanical properties of fasteners made of carbon steel and alloy steel — Part 2: Nuts with specified property classes — Coarse thread and fine pitch thread*

ISO 965-2, *ISO general purpose metric screw threads — Tolerances — Part 2: Limits of sizes for general purpose external and internal screw threads — Medium quality*

ISO 2320, *Prevailing torque type steel nuts — Mechanical and performance properties*

ISO 3269, *Fasteners — Acceptance inspection*

ISO 4042, *Fasteners — Electroplated coatings*

ISO 4759-1, *Tolerances for fasteners — Part 1: Bolts, screws, studs and nuts — Product grades A, B and C*

ISO 6157-2, *Fasteners — Surface discontinuities — Part 2: Nuts*

ISO 8992, *Fasteners — General requirements for bolts, screws, studs and nuts*

ISO 10683, *Fasteners — Non-electrolytically applied zinc flake coatings*

3 Dimensions

See Figure 1 and Table 1.

Symbols and descriptions of dimensions are specified in ISO 225.

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