



**SLOVENSKI STANDARD**  
**SIST EN ISO 7042:2001**  
**01-julij-2001**

**BUXca Yý U**  
**SIST ISO 7042:1996**

---

üYgfhcVYnUý ]lbY'a U]W'n'XYZcfa UW'cžhd'&!F UnfYX]lfXbcghj) ž, ž%\$]b`%&fGC  
+\$( &% - +Ł

Prevailing torque type all-metal hexagon nuts - Property classes 5, 8, 10 and 12 (ISO 7042:1997)

Sechskantmuttern mit Klemnteil (Ganzmetallmuttern), Typ 2 - Festigkeitsklassen 5, 8, 10 und 12 (ISO 7042:1997)

Ecrous hexagonaux autofreinés tout métal - Classes de qualité 5, 8, 10 et 12 (ISO 7042:1997)

<https://standards.iteh.ai/catalog/standards/sist/16c3181f-bb45-4e78-8663-f84b8939a3ba/sist-en-iso-7042-2001>

**Ta slovenski standard je istoveten z: EN ISO 7042:1997**

---

**ICS:**

21.060.20 Matice Nuts

**SIST EN ISO 7042:2001 en**

**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

[SIST EN ISO 7042:2001](#)

<https://standards.iteh.ai/catalog/standards/sist/16c3181f-bb45-4e78-8663-f84b8939a3ba/sist-en-iso-7042-2001>

EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

EN ISO 7042

November 1997

ICS 21.060.20

Descriptors: See ISO document

English version

Prevailing torque type all-metal hexagon nuts - Property classes  
5, 8, 10 and 12 (ISO 7042:1997)

Ecrous hexagonaux autofreinés tout métal - Classes de  
qualité 5, 8, 10 et 12 (ISO 7042:1997)

Sechskantmuttern mit Klemnteil (Ganzmetallmuttern), Typ  
2 - Festigkeitsklassen 5, 8, 10 und 12 (ISO 7042:1997)

This European Standard was approved by CEN on 23 October 1997.

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, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

[SIST EN ISO 7042:2001](https://standards.iteh.ai/catalog/standards/sist/16c3181f-bb45-4e78-8663-f84b8939a3ba/sist-en-iso-7042-2001)

<https://standards.iteh.ai/catalog/standards/sist/16c3181f-bb45-4e78-8663-f84b8939a3ba/sist-en-iso-7042-2001>



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

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

Page 2  
EN ISO 7042:1997

## Foreword

The text of the International Standard ISO 7042:1997 has been prepared by Technical Committee ISO/TC 2 "Fasteners" in collaboration with 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 May 1998, and conflicting national standards shall be withdrawn at the latest by May 1998.

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

## Endorsement notice

The text of the International Standard ISO 7042:1997 has been approved by CEN as a European Standard without any modifications.

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

**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

SIST EN ISO 7042:2001

<https://standards.iteh.ai/catalog/standards/sist/16c3181f-bb45-4e78-8663-f84b8939a3ba/sist-en-iso-7042-2001>



**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 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.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN</u>	<u>Year</u>
ISO 225	1983	Fasteners - Bolts, screws, studs and nuts - Symbols and designations of dimensions	EN 20225	1991
ISO 2320	1997	Prevailing torque type steel hexagon nuts - Mechanical and performance properties	EN ISO 2320	1997

<https://standards.iteh.ai/catalog/standards/sist/16c3181f-bb45-4e78-8663-f84b8939a3ba/sist-en-iso-7042-2001>

**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

[SIST EN ISO 7042:2001](#)

<https://standards.iteh.ai/catalog/standards/sist/16c3181f-bb45-4e78-8663-f84b8939a3ba/sist-en-iso-7042-2001>

# INTERNATIONAL STANDARD

**ISO  
7042**

Second edition  
1997-11-15

---

---

## Prevailing torque type all-metal hexagon nuts, style 2 — Property classes 5, 8, 10 and 12

*Écrous hexagonaux autofreinés tout métal, style 2 — Classes  
de qualité 5, 8, 10 et 12*

**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

[SIST EN ISO 7042:2001](https://standards.iteh.ai/catalog/standards/sist/16c3181f-bb45-4e78-8663-f84b8939a3ba/sist-en-iso-7042-2001)

[https://standards.iteh.ai/catalog/standards/sist/16c3181f-bb45-4e78-8663-  
f84b8939a3ba/sist-en-iso-7042-2001](https://standards.iteh.ai/catalog/standards/sist/16c3181f-bb45-4e78-8663-f84b8939a3ba/sist-en-iso-7042-2001)



Reference number  
ISO 7042:1997(E)

## ISO 7042:1997(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 7042 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 7042:1983), which has been technically revised.

Annex A of this International Standard is for information only.

© ISO 1997

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from the publisher.

International Organization for Standardization  
Case postale 56 • CH-1211 Genève 20 • Switzerland  
Internet central@iso.ch  
X.400 c=ch; a=400net; p=iso; o=isocs; s=central

Printed in Switzerland



# Prevailing torque type all-metal hexagon nuts, style 2 — Property classes 5, 8, 10 and 12

## 1 Scope

This International Standard specifies the characteristics of prevailing torque type all-metal hexagon nuts, style 2, with threads from M5 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 5, 8, 10 and 12.

### NOTES

- 1 The dimensions of the nuts with the exception of the dimensions  $m_w$  and  $h_{max}$  correspond to those given in ISO 4033.
- 2 Nuts of property class 9 are dealt with in ISO 7720.

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

**iTeh STANDARD PREVIEW**  
(standards.iteh.ai)

## 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 225:1983, *Fasteners – Bolts, screws, studs and nuts – Symbols and designations of dimensions.*

ISO 261:–<sup>1)</sup>, *ISO general purpose metric screw threads – General plan.*

ISO 965-2:–<sup>2)</sup>, *ISO general purpose metric screw threads – Tolerances – Part 2: Limits of sizes for general purpose bolt and nut threads – Medium quality.*

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

ISO 3269:1988, *Fasteners – Acceptance inspection.*

ISO 4042:–<sup>3)</sup>, *Fasteners – Electroplated coatings.*

ISO 4759-1:–<sup>4)</sup>, *Tolerances for fasteners – Part 1: Bolts, screws, studs and nuts – Product grades A, B and C.*

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

ISO 8992:1986, *Fasteners – General requirements for bolts, screws, studs and nuts.*

---

1) To be published. (Revision of ISO 261:1973)  
 2) To be published. (Revision of ISO 965-2:1980)  
 3) To be published. (Revision of ISO 4042:1989)  
 4) To be published. (Revision of ISO 4759-1:1978)