



**SLOVENSKI STANDARD**  
**SIST EN ISO 4035:2023**

**01-november-2023**

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**Vežni elementi - Šestrobe nizke matice (tip 0) (ISO 4035:2023)**

Fasteners - Hexagon thin nuts (style 0) (ISO 4035:2023)

Mechanische Verbindungselemente - Niedrige Sechskantmuttern (Typ 0) (ISO 4035:2023)

Fixations - Écrous bas hexagonaux (style 0) (ISO 4035:2023)

**Ta slovenski standard je istoveten z: EN ISO 4035:2023**

**ICS:**

21.060.20      Matice      Nuts

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EUROPEAN STANDARD

EN ISO 4035

NORME EUROPÉENNE

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September 2023

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English Version

## Fasteners - Hexagon thin nuts (style 0) (ISO 4035:2023)

Fixations - Écrous bas hexagonaux (style 0) (ISO 4035:2023)

Mechanische Verbindungselemente - Niedrige Sechskantmuttern (Typ 0) (ISO 4035:2023)

This European Standard was approved by CEN on 10 June 2023.

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EUROPEAN COMMITTEE FOR STANDARDIZATION  
COMITÉ EUROPÉEN DE NORMALISATION  
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Contents	Page
European foreword.....	3

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## European foreword

This document (EN ISO 4035:2023) 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 BSI.

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of an identical text or by endorsement, at the latest by March 2024, and conflicting national standards shall be withdrawn at the latest by March 2024.

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

This document supersedes EN ISO 4035:2012.

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### Endorsement notice

The text of ISO 4035:2023 has been approved by CEN as EN ISO 4035:2023 without any modification.



INTERNATIONAL  
STANDARD

ISO  
4035

Fifth edition  
2023-08

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**Fasteners — Hexagon thin nuts  
(style 0)**

*Fixations — Écrous bas hexagonaux (style 0)*

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# Contents

	Page
Foreword.....	iv
<b>1 Scope</b> .....	<b>1</b>
<b>2 Normative references</b> .....	<b>1</b>
<b>3 Terms and definitions</b> .....	<b>1</b>
<b>4 Dimensions</b> .....	<b>2</b>
<b>5 Requirements and reference International Standards</b> .....	<b>4</b>
<b>6 Marking and labelling</b> .....	<b>5</b>
6.1 Marking on product.....	5
6.2 Labelling on package.....	5
<b>7 Designation</b> .....	<b>5</b>
<b>Annex A (normative) Nuts with <math>D &lt; M5</math> and <math>D &gt; M39</math>, not included in ISO 898-2 and ISO 3506-2</b> .....	<b>6</b>
<b>Bibliography</b> .....	<b>10</b>

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

[SIST EN ISO 4035:2023](https://standards.iteh.ai/catalog/standards/sist/44b1d399-a2c5-4f86-825b-8cd959fab6b7/sist-en-iso-4035-2023)

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## ISO 4035:2023(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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see [www.iso.org/directives](http://www.iso.org/directives)).

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. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see [www.iso.org/patents](http://www.iso.org/patents)).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see [www.iso.org/iso/foreword.html](http://www.iso.org/iso/foreword.html).

This document was prepared by Technical Committee ISO/TC 2, *Fasteners*, Subcommittee SC 12, *Fasteners with metric internal thread*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 185, *Fasteners*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This fifth edition cancels and replaces the fourth edition (ISO 4035:2012) which has been technically revised.

The main changes are as follows:

- the use of thin nuts and a warning in relation to lower thread stripping resistance have been added in scope;
- nuts with  $D < M5$  and  $D > M39$  (not included in ISO 898-2 and ISO 3506-2) have been dealt with in normative [Annex A](#);
- M7 has been added;
- $d_{a,max}$  and  $d_{w,min}$  have been specified with two decimal places;
- $d_{w,min}$  for sizes  $D \leq M5$  has been changed from  $s_{min} - IT16$  to  $s_{min} - IT15$  in order to have a larger bearing surface area and thus less contact pressure;
- for steel nuts, quenching and tempering condition has been specified in accordance with ISO 898-2;
- for stainless steel nuts, grades D4 and D6 and property class 040 have been added;
- non-ferrous metal nuts have been deleted (as a consequence of the withdrawal of ISO 8839);
- specifications for marking and labelling have been added as [Clause 6](#).

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at [www.iso.org/members.html](http://www.iso.org/members.html).

# Fasteners — Hexagon thin nuts (style 0)

## 1 Scope

This document specifies the characteristics of hexagon thin nuts (style 0), in steel and stainless steel, with metric coarse pitch thread M1,6 to M64, and with product grades A and B.

Thin nuts used as jam nuts are to be assembled together with a regular or high nut.

**WARNING — Thin nuts (style 0) have a reduced loadability compared to regular nuts or high nuts, and are not designed to provide resistance to thread stripping (see ISO 898-2).**

If in certain cases other specifications are requested, stainless steel grades and property classes can be selected from ISO 3506-2.

## 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. 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 898-2, *Fasteners — Mechanical properties of fasteners made of carbon steel and alloy steel — Part 2: Nuts with specified property classes*

ISO 965-1, *ISO general purpose metric screw threads — Tolerances — Part 1: Principles and basic data*

ISO 1891-4, *Fasteners — Vocabulary — Part 4: Control, inspection, delivery, acceptance and quality*

ISO 3269, *Fasteners — Acceptance inspection*

ISO 3506-2, *Fasteners — Mechanical properties of corrosion-resistant stainless steel fasteners — Part 2: Nuts with specified grades and property classes*

ISO 4042, *Fasteners — Electroplated coating systems*

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 8991, *Designation system for fasteners*

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

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

ISO 10684, *Fasteners — Hot dip galvanized coatings*

## 3 Terms and definitions

No terms and definitions are listed in this document.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at <https://www.iso.org/obp>