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Hexagon thin nuts (unchamfered) — Product grade B

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ICS 21.060.20



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National foreword

This British Standard is the official English language version of EN ISO 4036:2000. It is identical with ISO 4036:1999. It supersedes BS EN 24036:1992 which is withdrawn.

The UK participation in its preparation was entrusted by Technical Committee FME/9, Bolts, nuts and accessories, to Subcommittee FME/9/6, General purpose fasteners and accessories, which has the responsibility to:

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Summary of pages

This document comprises a front cover, an inside front cover, the EN ISO title page, the EN ISO foreword page, the ISO title page, pages ii to iv, pages 1 to 5, the annex ZA page, an inside back cover and a back cover.

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been prepared under the			-
direction of the Engineering Sector Committee, was published under the authority of the Standards Committee and comes into effect on 15 February 2001	Amd. No.	Date	Comments
© BSI 02-2001			
ISBN 0 580 36190 X			
10D11 0 000 00100 A			

Amendments issued since publication

EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

EN ISO 4036

November 2000

ICS 21.060.20

Supersedes EN 24036:1991

English version

Hexagon thin nuts (unchamfered) - Product grade B (ISO 4036:1999)

Ecrous bas hexagonaux (sans chanfrein) - Grade B (ISO 4036:1999)

Sechskantmuttern, niedrige Form (ohne Fase) -Produktklassen B (ISO 4036:1999)

This European Standard was approved by CEN on 26 October 2000.

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Ref. No. EN ISO 4036:2000 E

Foreword

The text of the International Standard from Technical Committee ISO/TC 2 "Fasteners" of the International Organization for Standardization (ISO) has been taken over as an European Standard 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of an identical text or by endorsement, at the latest by May 2001, and conflicting national standards shall be withdrawn at the latest by May 2001.

This European Standard supersedes EN 24036:1991.

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 4036:1999 has been approved by CEN as a European Standard without any modification.

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

INTERNATIONAL STANDARD

EN ISO 4036:2000 ISO 4036

> Second edition 1999-08-15

Corrected and reprinted 2000-12-01

Hexagon thin nuts (unchamfered) — Product grade B

Écrous bas hexagonaux (sans chanfrein) — Grade B



Reference number ISO 4036:1999(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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 3.

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 4036 was prepared by Technical Committee ISO/TC 2, Fasteners.

This second edition cancels and replaces the first edition (ISO 4036:1979) which has been technically revised.

Introduction

This International Standard is part of the complete ISO product standard series on external hexagon drive fasteners. The series comprises:

- a) hexagon head bolts (ISO 4014 to ISO 4016 and ISO 8765);
- b) hexagon head screws (ISO 4017, ISO 4018 and ISO 8676);
- c) hexagon nuts (ISO 4032 to ISO 4036, ISO 8673 to ISO 8675);
- d) hexagon bolts with flange (ISO 4162 and ISO 15071);
- e) hexagon nuts with flange (ISO 4161 and ISO 10663);
- f) structural bolts and nuts (ISO 4775, ISO 7411 to ISO 7414 and ISO 7417).

Hexagon thin nuts (unchamfered) — Product grade B

1 Scope

This International Standard specifies the characteristics of unchamfered hexagon thin nuts, with threads from M1,6 up to and including M10 and product grade B.

If, in special cases, specifications other than those listed in this International Standard are required, they should be selected from existing International Standards, for example ISO 724, ISO 965-1 and ISO 4759-1.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this International Standard. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO 225:1983, Fasteners — Bolts, screws, studs and nuts — Symbols and designations of dimensions.

ISO 724:1993, ISO general-purpose metric screw threads — Basic dimensions.

ISO 965-1:1998, ISO general purpose metric screw threads — Tolerances — Part 1: Principles and basic data.

ISO 3269:—¹⁾, Fasteners — Acceptance inspection.

ISO 4042:1999, Fasteners — Electroplated coatings.

ISO 4759-1:—²⁾, Tolerances for fasteners — Part 1: Bolts, screws, studs and nuts — Product grades A, B and C.

ISO 6157-2:1988, Fasteners — Surface discontinuities — Part 2: Nuts.

ISO 8839:1986, Mechanical properties of fasteners — Bolts, screws, studs and nuts made of non-ferrous metals.

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

ISO 10683:—³⁾, Fasteners — Non-electrolytically applied zinc flake coatings.

¹⁾ To be published. (Revision of ISO 3269:1988)

²⁾ To be published. (Revision of ISO 4759-1:1978)

³⁾ To be published.

3 Dimensions

See Figure 1 and Table 1. Symbols and descriptions of dimensions are defined in ISO 225.

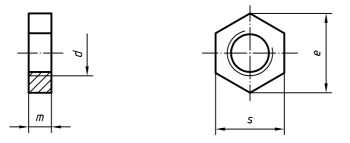




Table 1	- Dimensions	

Dimensions in millimetres

Th	read (d)		M1,6	M2	M2,5	М3	(M3,5) ^a	M4	M5	M6	M8	M10
Pb			0,35	0,4	0,45	0,5	0,6	0,7	0,8	1	1,25	1,5
е		min.	3,28	4,18	5,31	5,88	6,44	7,5	8,63	10,89	14,2	17,59
m	max.	1,00	1,20	1,60	1,80	2,00	2,20	2,70	3,2	4,0	5,0	
	min.	0,75	0,95	1,35	1,55	1,75	1,95	2,45	2,9	3,7	4,7	
s nom.	nom. =	max.	3,2	4,0	5,0	5,5	6,0	7,00	8,00	10,00	13,00	16,00
		min.	2,9	3,7	4,7	5,2	5,7	6,64	7,64	9,64	12,57	15,57
^a If possible, the size in parentheses should be avoided.												
^b <i>P</i> is the pitch of the thread.												

4 Specifications and reference standards

See Table 2.

Material		Steel (St)	Non-ferrous metal			
General requirements	International Standard	ISO 8992				
Thread Tolerance		6H				
	International Standards	ISO 724, ISO 965-1				
Mechanical	Hardness min.	110 HV30				
	International Standard	-	Materials as specified in ISO 8839			
Tolerances	Product grade	B				
	International Standard	ISO 47	759-1			
		As processed	Plain			
Finish and/or coating		Requirements for electroplating are covered in ISO 4042.				
		Requirements for non-electrolytically applied zinc flake coatings are covered in ISO 10683.				
		If different electroplating requirements are desired or if requirements are needed for other finishes, they should be agreed between customer and supplier.				
		Limits for surface discontinuities are covered in ISO 6157-2.				
Acceptability		For acceptance procedure, see ISO 3269.				

Table 2 — Specifications and reference standards

5 Designation

EXAMPLE

An unchamfered hexagon thin nut with thread M6 made from steel with a minimum hardness of 110 HV30 (St) is designated as follows:

Hexagon nut ISO 4036 - M6 - St

Bibliography

- [1] ISO 4014:1999, Hexagon head bolts Product grades A and B.
- [2] ISO 4015:1979, Hexagon head bolts Product grade B Reduced shank (shank diameter approximately equal to pitch diameter).
- [3] ISO 4016:1999, Hexagon head bolts Product grade C.
- [4] ISO 4017:1999, Hexagon head screws Product grades A and B.
- [5] ISO 4018:1999, Hexagon head screws Product grade C.
- [6] ISO 4032:1999, Hexagon nuts, style 1 Product grades A and B.
- [7] ISO 4033:1999, Hexagon nuts, style 2 Product grades A and B.
- [8] ISO 4034:1999, Hexagon nuts Product grade C.
- [9] ISO 4035:1999, Hexagon thin nuts (chamfered) Product grades A and B.
- [10] ISO 4161:1999, Hexagon nuts with flange Coarse thread.
- [11] ISO 4162: -4° , Hexagon bolts with flange Small series Product grade combination A/B.
- [12] ISO 4775:1984, Hexagon nuts for high-strength structural bolting with large width across flats Product grade B Property classes 8 and 10.
- [13] ISO 7411:1984, Hexagon bolts for high-strength structural bolting with large width across flats (thread lengths according to ISO 888) Product grade C Property classes 8.8 and 10.9.
- [14] ISO 7412:1984, Hexagon bolts for high-strength structural bolting with large width across flats (short thread length) Product grade C Property classes 8.8 and 10.9.
- [15] ISO 7413:1984, Hexagon nuts for structural bolting, style 1, hot-dip galvanized (oversize tapped) Product grades A and B Property classes 5, 6 and 8.
- [16] ISO 7414:1984, Hexagon nuts for structural bolting with large width across flats, style 1 Product grade B Property class 10.
- [17] ISO 7417:1984, Hexagon nuts for structural bolting, style 2, hot-dip galvanized (oversize tapped) Product grade A Property class 9.
- [18] ISO 8673:1999, Hexagon nuts, style 1, with metric fine pitch thread Product grades A and B.
- [19] ISO 8674:1999, Hexagon nuts, style 2, with metric fine pitch thread Product grades A and B.
- [20] ISO 8675:1999, Hexagon thin nuts (chamfered) with metric fine pitch thread Product grades A and B.
- [21] ISO 8676:1999, Hexagon head screws with metric fine pitch thread Product grades A and B.

⁴⁾ To be published. (Revision of ISO 4162:1990)

[22] ISO 8765:1999, Hexagon head bolts with metric fine pitch thread — Product grades A and B.

[23] ISO 10663:1999, Hexagon nuts with flange — Fine pitch thread.

[24] ISO 15071:1999, Hexagon bolts with flange — Small series — Product grade A.

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.

Publication	Year	Title	<u>EN</u>	Year
ISO 225	1983	Fasteners - Bolts, screws, studs and nuts - Symbols and designations of dimensions	EN 20225	1991
ISO 3269	2000	Fasteners - Acceptance inspection	EN ISO 3269	2000
ISO 4042	1999	Fasteners - Electroplated coatings	EN ISO 4042	1999
ISO 8839	1986	Mechanical properties of fasteners - Bolts, screws, studs and nuts made of non-ferrous metals	EN 28839	1991

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