

SLOVENSKI STANDARD SIST ISO 7042:1996

01-april-1996

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

Écrous hexagonaux à freinage interne, à couple préalable (tout métal), style 2 -- Classes de qualité 5, 8, 10 et 12

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Ta slovenski standard je istoveten z: ISO 7042:1983

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International Standard



7042

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION•MEЖДУНАРОДНАЯ OPFAHU3AЦUЯ ПО CTAHДAPTU3AЦUU•ORGANISATION INTERNATIONALE DE NORMALISATION

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

Écrous hexagonaux à freinage interne, à couple préalable (tout métal), style 2 - Classes de qualité 5, 8, 10 et 12

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UDC 621.882.31

Ref. No. ISO 7042-1983 (E)

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3131 130 7042.1990

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of developing International Standards is carried out through ISO technical committees. Every member body interested in a subject for which a technical committee has been authorized 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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 7042 was developed by Technical Committee ISO/TC 2, Fasteners, and was circulated to the member bodies in December 1981.

It has been approved by the member bodies of the following countries:

<u>SIST ISO 7042:199</u>

Australia htt-jungarydards.iteh.ai/catalog/Norways/sist/8dc380b9-c062-4269-9e43-Brazil India 744f6bde0 Poland-iso-7042-1996

Canada Ireland Romania

China Italy South Africa, Rep. of

CzechoslovakiaJapanSpainDenmarkKorea, Dem. P. Rep. ofSri LankaEgypt, Arab Rep. ofKorea, Rep. ofSwedenFinlandMexicoSwitzerland

France Netherlands USA Germany, F.R. New Zealand

The member bodies of the following countries expressed disapproval of the document on technical grounds:

Belgium United Kingdom USSR

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

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1 Scope and field of application

This International Standard specifies the characteristics of prevailing torque type all-metal hexagon nuts, of style 2, with thread sizes from M 5 to M 36 inclusive, in product grades A ($d \le M$ 16) and B (d > M 16), and property classes 5, 8, 10 and 12.

NOTE — All dimensions of the nut, except dimensions h and m' correspond to ISO 4033.

If other specifications are required, it is recommended that they should be selected from existing International Standards, for example ISO 261, ISO 898, ISO 965, ISO 2320, ISO 4759/1.

2 References

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

ISO 261, ISO general purpose metric screw threads - General plan.

ISO 898, Mechanical properties of fasteners.

ISO 965, ISO general purpose metric screw threads — Tolerances.

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

ISO 3269, Fasteners — Acceptance inspection. 1)

ISO 4033, Hexagon nuts, style 2 - Product grades A and B.

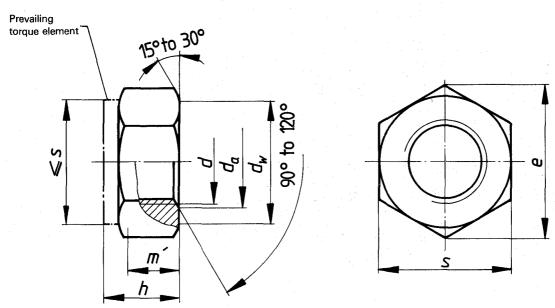
ISO 4042, Threaded components — Electroplated coatings components. 1)

ISO 4759/1, Tolerances for fasteners — Part 1: Bolts, screws and nuts with thread diameters > 1,6 and < 150 mm and product grades A, B and C.

¹⁾ At present at the stage of draft.

ISO 7042-1983 (E)

3 Dimensions



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Dimensions in millimetres

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Thread size d		Mt5ps:	/sta Md6 rds	.iteMa8/ca	talog/90m	dar w s/ 12 st	<mark>/8d//B140</mark> 199	-c M 21642	69 M/20 3-	M 24	M 30	M 36
P ²⁾		0,8	1	17,25 10	5bde0\$a7	sist-iş 75 7	042 -2 1996	2	2,5	3	3,5	4
.1	min.	5	6	8	10	12	14	16	20	24	30	36
d_a	max.	5,75	6,75	8,75	10,8	13	15,1	17,3	21,6	25,9	32,4	38,9
d_{w}	min.	6,9	8,9	11,6	14,6	16,6	19,6	22,5	27,7	33,2	42,7	51,1
e /	min.	8,79	11,05	14,38	17,77	20,03	23,35	26,75	32,95	39,55	50,85	60,79
	max.	5,1	6	8	10	12	14,1	16,4	20,3	23,9	30	36
h	min.	4,8	5,4	7,14	8,94	11,57	13,4	15,7	19	22,6	27,3	33,1
m' 3)	min.	2,75	3,3	4,4	5,5	6,6	7,7	8,8	. 11	13,2	16,5	19,8
	max.	8	10	13	16	18	21	24	30	36	46	55
S	min.	7,78	9,78	12,73	15,73	17,73	20,67	23,67	29,16	35	45	53,8

¹⁾ The size in brackets should be avoided if possible.

²⁾ P = pitch of the thread.

³⁾ Minimum wrenching height.

4 Specifications and reference International Standards

N14	Types	NF (normal friction) and LF (low friction)					
Nut	International Standard	ISO 2320					
Material		Steel, in accordance with ISO 898/2 and ISO 2320					
Thread	Tolerance	6H					
	International Standards	ISO 261, ISO 965					
Mechanical properties	Property class	5, 8, 10, 12 (d ≤ M16)					
	International Standards	ISO 898/2, ISO 2320					
Torque and other requirements 1)	International Standard	ISO 2320					
Tolerances	Product grade	For $d \leq M16$: A For $d > M16$: B					
	International Standard	ISO 4759/1					
	-	As processed					
Finish		Requirements for electroplated coatings are covered in ISO 4042.					
		If different electroplating requirements are desired or if requirements are needed for other finishes, they should be negotiated between customer and supplier.					
Acceptability		For acceptance procedure, see ISO 3269.					

¹⁾ Lubrication is permitted to meet the requirements in ISO 2320.

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5 Designation

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Example for the designation of a prevailing torque type all-metal hexagon nut, style 2, with thread size d = M12, property class 8 and normal friction (NF) type:

Prevailing torque type hexagon nut is a i/o talogy tandards for 180 7042 log/standards for 180 7042 l