



SLOVENSKI STANDARD

SIST EN 4069:2001

01-januar-2001

Aerospace series - Nuts, hexagon, plain, reduced height, reduced across flats, in heat resisting steel, passivated - Classification: 600 MPa (at ambient temperature)/650°C

Aerospace series - Nuts, hexagon, plain, reduced height, reduced across flats, in heat resisting steel, passivated - Classification: 600 MPa (at ambient temperature)/650°C

Luft- und Raumfahrt - Flache Sechskantmuttern, kleine Schlüsselweiten, aus hochwarmfestem Stahl, passiviert - Klasse: 600 MPa (bei Raumtemperatur)/650°C

Série aérospatiale - Ecrous hexagonaux ordinaires, hauteur réduite, surplats réduits, en acier résistant a chaud, passivés - Classification: 600 MPa (a température ambiante)/650°C

Ta slovenski standard je istoveten z: EN 4069:1996

ICS:

49.030.30 Matice Nuts

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EUROPEAN STANDARD

EN 4069

NORME EUROPÉENNE

EUROPÄISCHE NORM

January 1996

ICS 49.040.20

Descriptors: aircraft industry, nut, fastener, hexagonal nut, heat resistant steel, classification, dimension, dimensional tolerance, surface treatment, screw thread, designation, marking

English version

Aerospace series - Nuts, hexagon, plain, reduced height, reduced across flats, in heat resisting steel, passivated - Classification : 600 MPa (at ambient temperature) / 650 °C

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Série aérospatiale - Ecrous hexagonaux ordinaires, hauteur réduite, surplats réduits en acier résistant à chaud, passivés
Classification : 600 MPa (à température ambiante) / 650 °C

Luft- und Raumfahrt - Flache Sechskantmuttern, kleine Schlüsselweiten, aus hochwarmfestem Stahl, passiviert - Klasse : 600 MPa (bei Raumtemperatur) / 650 °C

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CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

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

1 Scope

This standard specifies the characteristics of hexagon plain nuts, reduced height, reduced across flats, in heat resisting steel, passivated.

Classification : 600 MPa ¹⁾ / 650 °C ²⁾

2 Normative references

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.

ISO 5855-2	Aerospace - MJ threads - Part 2 : Limit dimensions for bolts and nuts
ISO 8788	Aerospace - Fasteners - Tolerances of form and position for nuts
ISO 9139	Aerospace - Nuts, plain and slotted - Procurement specification ³⁾
EN 2000	Aerospace series - Quality assurance - EN aerospace products - Approval of the quality system of manufacturers
EN 2424	Aerospace series - Marking of aerospace products
EN 2516	Aerospace series - Passivation of corrosion resistant steels and decontamination of nickel base alloys ³⁾
TR 3823	Aerospace series - Materials for plain and slotted hexagonal nuts ⁴⁾ https://standards.iteh.ai/catalog/standards/sist/74b0489a-7d21-45f0-83a0-563163a3e833/sist-en-4069-2001

1) Corresponds to the minimum tensile stress which the nut is able to withstand at ambient temperature without breaking or cracking when tested with a bolt of a higher strength class.

2) Maximum temperature that the nut is able to withstand, without permanent alteration to its original characteristics, after ambient temperature has been restored. The maximum temperature is conditioned by the material.

3) In preparation at the date of publication of this standard

4) Published as AECMA Technical Report at the date of publication of this standard

3 Required characteristics

3.1 Configuration - Dimensions - Masses

See figure 1 and table 1.

Dimensions and tolerances are expressed in millimetres and apply after surface treatment.

Details of form not stated are at the manufacturer's option.

3.2 Tolerances of form and position

ISO 8788

3.3 Materials

TR 3823

3.4 Surface treatment

EN 2516, process class appropriate to the material

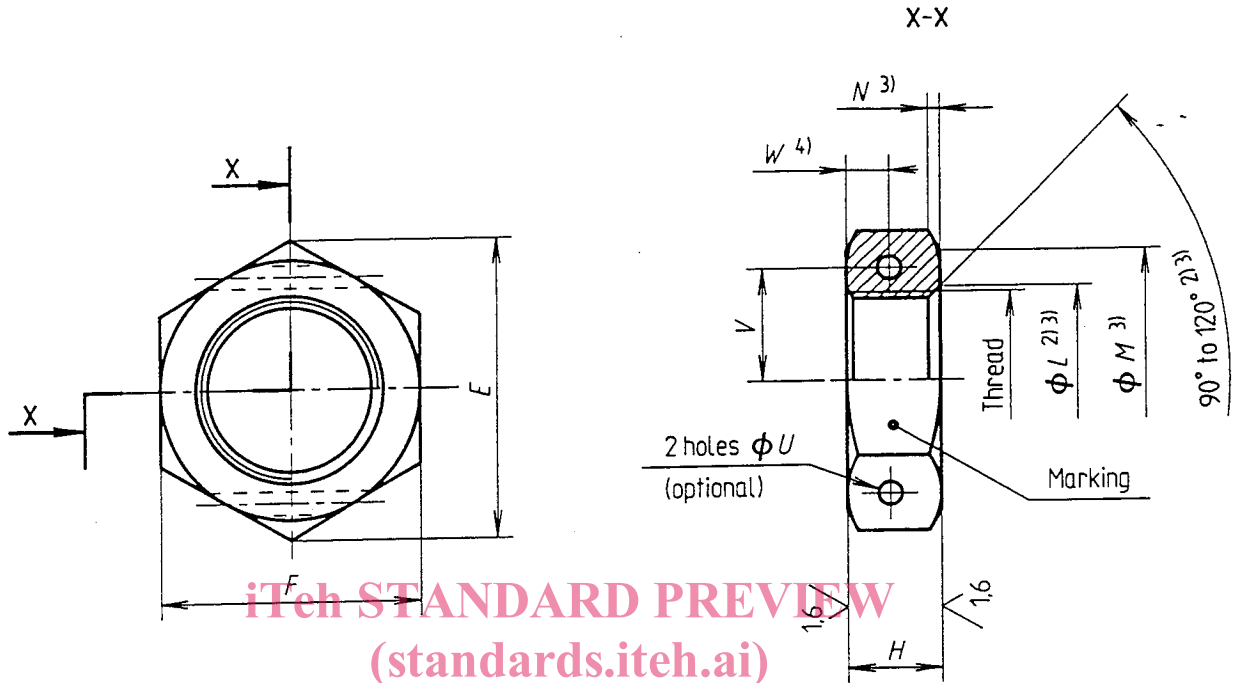
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6,3 / [1,6] 1)

Remove sharp edges 0,1 to 0,4



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- 1) These values in micrometres apply before surface treatment. They do not apply to threads the surface texture of which will be as achieved by usual manufacturing methods.
- 2) All forms of entry (chamfer or radius) permissible within the limiting dimensions
- 3) Applicable to both faces
- 4) From either face

Figure 1

Table 1

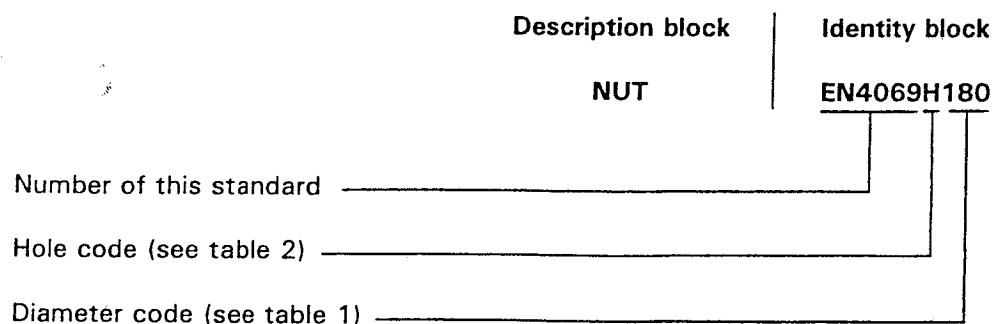
Diameter code	Thread 1)	E	F	H	L	M	N		U	V	W	Mass 2)
		min.	h13	h14	+ 0,8 0	min.	max.	min.	H13	± 0,2	min.	
100	MJ10x1,25-4H5H	15,5	14	5	10,3	13,2	0,6	0,3	1	5,9	2,1	4
120	MJ12x1,25-4H5H	18,9	17	6	12,3	16				7,2	2,6	7
140	MJ14x1,5-4H5H	21,1	19	7	14,4	18				8,2	3,1	9,5
160	MJ16x1,5-4H5H	24,5	22	8	16,4	21				9,7	3,6	14,8
180	MJ18x1,5-4H5H	26,8	24	9	18,4	23				10,8	4,1	18,8
200	MJ20x1,5-4H5H	30,2	27	10	20,4	26				12,5	4,6	26,8
220	MJ22x1,5-4H5H	33,6	30	11	22,4	29				13,9	5	30,8
240	MJ24x2-4H5H	35,8	32	12	24,5	30,9				14,9	5,5	36,8

1) In accordance with ISO 5855-2

2) Approximate values (kg/1 000 pieces), calculated on the basis of 7,85 kg/dm³, given for information purposes only. They apply to nuts without holes.

4 Designation

EXAMPLE :



NOTE : If necessary, the code I9005 shall be placed between the description block and the identity block.

Table 2

Holes	Code
with	H
without	(hyphen)

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5 Marking

EN 2424, style C, plus MJ

6 Technical specification

ISO 9139 except for approval of manufacturers : see EN 2000.