

SLOVENSKI STANDARD

SIST EN 3720:2001

01-januar-2001

Aerospace series - Nuts, bihexagonal, self-locking, in heat resisting steel FE-PA92HT (A286), MoS2 coated - Classification: 1 100 MPa (at ambient temperature) / 425 °C

Aerospace series - Nuts, bihexagonal, self-locking, in heat resisting steel FE-PA92HT (A286), MoS2 coated - Classification: 1 100 MPa (at ambient temperature) / 425 °C

Luft- und Raumfahrt - Zwölfkantmuttern, selbstsichernd, aus hochwarmfestem Stahl FE-PA92HT (A286), MoS2 beschichtet - Klasse: 1 100 MPa (bei Raumtemperatur) / 425 °C

Série aérospatiale - Ecrous bihexagonaux, à freinage interne, en acier résistant a chaud FE-PA92HT (A286), revetus MoS2 - Classification: 1 100 MPa (a température ambiante) / 425°C

Ta slovenski standard je istoveten z: EN 3720:1995

ICS:

49.030.30 Matice Nuts

SIST EN 3720:2001 **en**

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EUROPEAN STANDARD

EN 3720

NORME EUROPÉENNE

EUROPÄISCHE NORM

July 1995

ICS 49.040.20

Descriptors: aircraft industry, hexagonal nut, self-locking nut, heat resistant steel, coating, classification, dimension, dimensional tolerance, designation

English version

**Aerospace series - Nuts, bihexagonal, self-locking,
in heat resisting steel FE-PA92HT (A286), MoS₂
coated - Classification: 1 100 MPa (at ambient
temperature) / 425 °C**

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Série aérospatiale - Ecrous bihexagonaux, à
freinage interne, en acier résistant à chaud
FE-PA92HT (A286), revêtus MoS₂
Classification: 1 100 MPa (à température
ambiante) / 425 °C

Luft- und Raumfahrt - Zwölfkantenmuttern,
selbstsichernd, aus hochwarmfestem Stahl
FE-PA92HT (A286), MoS₂ beschichtet - Klasse: 1
100 MPa (bei Raumtemperatur) / 425 °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

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This European Standard has been prepared by the European Association of Aerospace Manufacturers (AECMA).

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After inquiries and votes carried out in accordance with the rules of this Association, this Standard has successively received the approval of the National Associations and the Official Services of the member countries of AECMA, prior to its presentation to CEN.

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 January 1996, and conflicting national standards shall be withdrawn at the latest by January 1996.

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

1 Scope

This standard specifies the characteristics of self-locking bihexagonal nuts in FE-PA92HT, MoS₂ coated, for aerospace applications.

Classification : 1 100 MPa ¹⁾ / 425 °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 4095 Fasteners for aerospace construction - Bi-hexagonal wrenching configuration
- ISO 5855-2 Aerospace - MJ threads - Part 2 : Limit dimensions for bolts and nuts
- EN 2399 Heat resisting steel FE-PA92-HT - $R_m \geq 900$ MPa - Bars for forged bolts - $D \leq 25$ mm - Aerospace series ³⁾
- EN 2424 Aerospace series - Marking of aerospace products
- EN 2491 Aerospace series - Molybdenum disulphide dry lubricants - Coating methods ⁴⁾
- EN 3639 Aerospace series - Heat resisting alloy FE-PA2601 - Softened and cold worked - Wire for forged fasteners - $D \leq 15$ mm - $900 \text{ MPa} \leq R_m \leq 1\,100 \text{ MPa}$ ⁵⁾
- EN 3752 Aerospace series - Nuts, self-locking, MJ threads, in heat resisting steel FE-PA92HT (A286), MoS₂ coated - Classification : 1 100 MPa (at ambient temperature) / 425 °C - Technical specification ⁵⁾

3 Required characteristics

3.1 Configuration - Dimensions - Tolerances - Masses

See figure 1 and table 1. Dimensions and tolerances are in millimetres. They apply before MoS₂ coating.

3.2 Materials

EN 2399 or EN 3639

3.3 Surface treatment

EN 2491

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 test temperature of the parts

3) Published as AECMA Standard at the date of publication of this standard

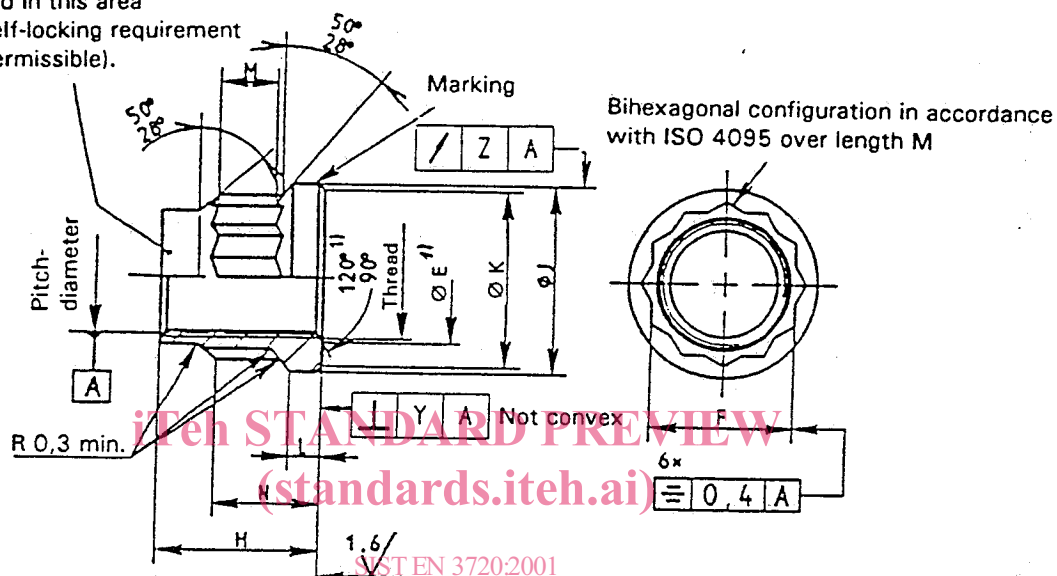
4) In preparation at the date of publication of this standard

5) Published as AECMA Prestandard at the date of publication of this standard

$6,3/\left(1,6/\right)$ Values apply before MoS₂ coating.
Thread surface will be as achieved by normal methods of manufacture.

Remove sharp edges 0,1 to 0,4

Form out-of-round in this area to achieve the self-locking requirement (tooling marks permissible).



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1) All forms of entry (radius or chamfer) are permissible within these limiting dimensions.

Details of form not stated are left to the manufacturer's discretion.

Figure 1

Table 1

Thread 1)		E		F	H	J	K	L	M	N	Y	Z	Mass kg/1 000 parts ≈
Code	Designation	max.	min.		max.	max.	min.	min.	min.	max.			
050	MJ5x0,8-4H6H	5,8	5,2	7	7	9,1	8,3	1,2	2	4,9	0,1	0,2	1,63
060	MJ6x1-4H5H	7,1	6,3	8	8,1	10,6	9,8		2,3	5,5			2,33
070	MJ7x1-4H5H	8,1	7,3	9	9,1	12,1	11,3		2,6	6,1			3,19
080	MJ8x1-4H5H	9,1	8,3	10	10,4	13,6	12,8		2,8	6,9			4,34
100	MJ10x1,25-4H5H	11,1	10,3	12	13	16,8	15,8	1,4	3,1	8,8	0,13	0,3	7,69
120	MJ12x1,25-4H5H	13,1	12,3	14	15	19,9	18,8		3,5	10,1			14,58
140	MJ14x1,5-4H5H	15,2	14,4	17	17,5	23	21,9	1,7	4	12,6	0,15		19,79

1) In accordance with ISO 5855-2. In the self-locking zone, the tolerances apply before forming out-of-round.

4 Designation

EXAMPLE :

	Description block	Identity block
	NUT	EN3720-050
Number of this standard		
Thread code (see table 1)		

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

5 Marking

EN 2424, style A, as indicated on figure 1.

6 Technical specification

EN 3752

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