SIST

SLOVENSKI STANDARD
SIST EN 4126:2010

01-marec-2010

Aeronavtika - Zakovne matice, samovarovalne, premiļ ne, dvostranske, skrajġana serija, z izvrtino za valjaste vijake, iz toplotnoodpornega jekla, mazane z MoS2 - Klasifikacija: 900 MPa (pri temperaturi okolice)/315 ĆC

Aerospace series - Nuts, anchor, self-locking, floating, two lug, reduced series, with incremental counterbore, in heat resisting steel, MoS2 lubricated - Classification: 900 MPa (at ambient temperature)/315 °C

Luft- und Raumfahrt - Annietmuttern, selbstsichernd, beweglich, beiderseitiger verkürzter Flansch, mit tiefer zylindrischer Aussenkung, aus hochwarmfestem Stahl, MoS2-geschmiert - Klasse: 900 MPa (bei Raumtemperatur)/315 °C

Série aérospatiale - Écrous à river, à freinage interne, flottants, double patte, série reduite, avec chambrage très profond, en acier résistant à chaud, lubrifiés MoS2 - Classification: 900 MPa (à température ambiante)/315 °C

Ta slovenski standard je istoveten z: **EN 4126:2010**

ICS:

49.030.30	Matice	Nuts

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 4126

January 2010

ICS 49.030.30

English Version

Aerospace series - Nuts, anchor, self-locking, floating, two lug, reduced series, with incremental counterbore, in heat resisting steel, MoS_2 lubricated - Classification: 900 MPa (at ambient temperature) / 315 °C

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This European Standard was approved by CEN on 21 November 2009.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: Avenue Marnix 17, B-1000 Brussels

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Foreword

This document (EN 4126:2010) has been prepared by the Aerospace and Defence Industries Association of Europe - Standardization (ASD-STAN).

After enquiries and votes carried out in accordance with the rules of this Association, this Standard has received the approval of the National Associations and the Official Services of the member countries of ASD, 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of an identical text or by endorsement, at the latest by July 2010, and conflicting national standards shall be withdrawn at the latest by July 2010.

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

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

1 Scope

This standard specifies the characteristics of miniature self-locking two lug, reduced series, incremental counterbored floating anchor nuts, in heat resisting steel, MoS_2 lubricated.

Classification: 900 MPa[1] / 315 °C[2].

2 Normative references

The following referenced documents are indispensable for the application 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.

EN 2398, *Aerospace series — Heat resisting steel FE-PA2601 (X6NiCrTiMoV26-15) — $R_m \geq 900$ MPa — Bars for machined bolts — $D \leq 25$ mm*

EN 2399, *Aerospace series — Heat resisting steel FE-PA2601 (X4NiCrTiMoV26-15) — $R_m \geq 900$ MPa — Bars for forged bolts — $D \leq 25$ mm*

EN 2424, *Aerospace series — Marking of aerospace products*

EN 2491, *Aerospace series — Molybdenum disulphide dry lubricants — Coating methods*

EN 3638, *Aerospace series — Heat resisting alloy FE-PA2601 (X6NiCrTiMoV26-15) — Consumable electrode remelted — Solution and precipitation treated — Sheet, strip and plate — 0,5 mm ≤ a ≤ 10 mm*

EN 3639, *Aerospace series — Heat resisting alloy FE-PA2601 — Softened and cold worked — Wire for forged fasteners — $D \leq 15$ mm — 900 MPa ≤ $R_m \leq$ 1 100 MPa*[3]

EN 3816, *Aerospace series — Steel FE-PA3601 (X6CrNiTi18-10) — Air melted — Softened and cold rolled — Sheet and strip — $a \leq 3$ mm — $R_m \geq 800$ MPa*

EN 9100, *Quality Management Systems — Requirements for Aviation, Space and Defense Organizations*

EN 9133, *Aerospace series — Quality management systems — Qualification procedure for aerospace standard parts*

TR 3791, *Aerospace series — Materials for self-locking nuts, threaded inserts and screw thread inserts of temperature classes ≤ 425 °C*[4]

ISO 5855-2, *Aerospace — MJ threads — Part 2: Limit dimensions for bolts and nuts*

ISO 5858, *Aerospace — Nuts, self-locking, with maximum operating temperature less than or equal to 425 °C — Procurement specification*

ISO 8788, *Aerospace — Nuts, metric — Tolerances of form and position*

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 surface treatment.

3) Published as ASD-STAN Prestandard at the date of publication of this standard.

4) Published as ASD-STAN 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 before MoS_2 lubrication.

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

3.2 Tolerances of form and position

ISO 8788.

3.3 Materials

Threaded element: EN 2398, EN 2399, EN 3638, EN 3639 or TR 3791.

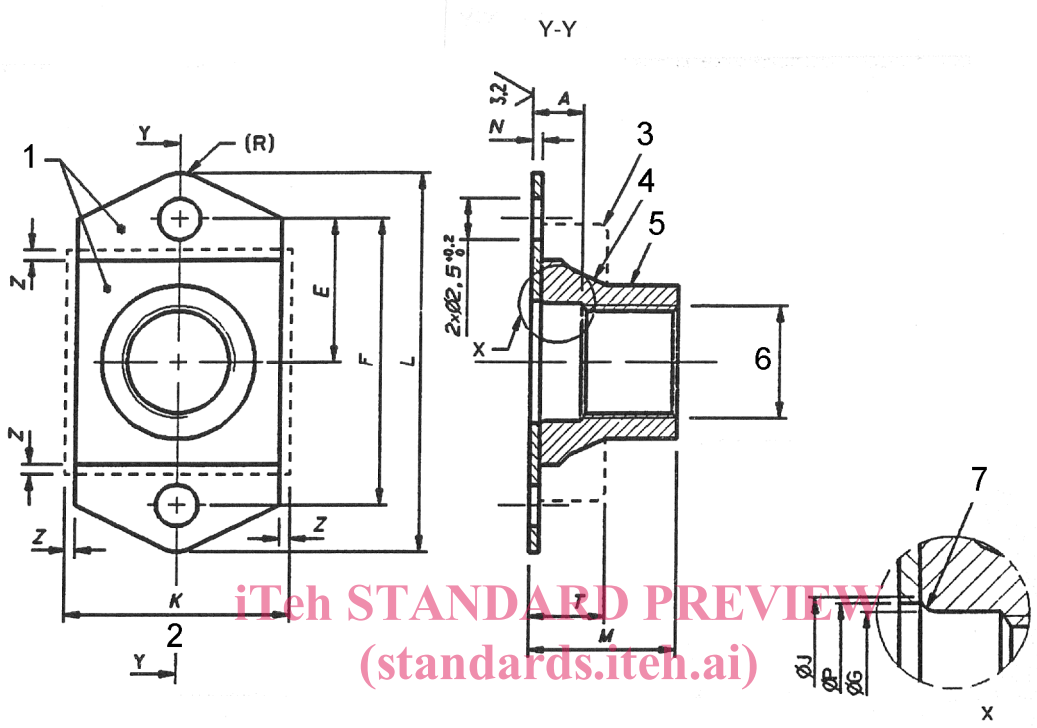
Cage: EN 3638 or EN 3816.

3.4 Surface treatment

EN 2491, thickness not specified.

6,3 [3,2] These values in micrometres apply before surface treatment. The values do not apply to threads and sheared edges the surface texture of which will be achieved by usual manufacturing methods.

Remove sharp edges 0,1 to 0,4.



Key

1 Marking
2 Float inclusive
3 Cage
4 Threaded element
5 Form out-of-round in this area to achieve self-locking. Tooling marks are permitted in this area.
6 Thread
7 Radius or chamfer

Figure 1

Table 1

Diameter code	Thread [a] Designation	A Counterbore Code	A Counterbore min.	E	F	G min.	J [b] max.	K max.	L max.	M max.	N [c] nom.	P min.	R	T max.	Z Radial float min.	Mass [d]
050	MJ5×0,8-4H6H	04	4	7	14	5,5	7,3	12	19,2	8,5	0,9	6,5	2,5	4,5	0,5	1,5
		06	6							10,5						2,0
		08	8							12,5						2,4
		10	10							14,5						2,7
060	MJ6×1-4H5H	04	4	8	16	6,5	8,7	13,5	21,2	9,4	0,9	7,5	2,5	4,6	0,5	2,0
		06	6							11,4						2,4
		08	8							13,4						2,8
		10	10							15,4						3,2

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

[b] Is to sharp corners (chamfered) or point of tangency (radiused).

[c] Is applicable at the rivet hole location.

[d] Approximate values (kg/1 000 pieces), calculated on the basis of 7,85 kg/dm^3, given for information purposes only.

4 Designation

EXAMPLE

Description block	Identity block
NUT	EN4126-06008

Number of this standard

Diameter code (see Table 1)

Counterbore code (see Table 1)

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