SIST

SLOVENSKI STANDARD
SIST EN 3834:2010

01-marec-2010

Aeronavtika - Zakovne matice, samozapiralne, premiļ ne, dvostranske, z izvrtino za valjaste vijake, iz korozijsko odpornega jekla, mazane z MoS2 - Klasifikacija: 900 MPa (pri temperaturi okolice)/315 ÁC

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

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

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

Ta slovenski standard je istoveten z: **EN 3834:2010**

ICS:

49.030.30	Matice	Nuts

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 3834

January 2010

ICS 49.030.30

English Version

Aerospace series - Nuts, anchor, self-locking, floating, two lug, incremental counterbore, in corrosion 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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This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN Management Centre has the same status as the official versions.

CEN members are the national standards bodies of 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 United Kingdom.

EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
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Foreword

This document (EN 3834:2010) 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 self-locking, floating, two lug anchor nuts, with incremental counterbore, in corrosion 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 2424, *Aerospace series — Marking of aerospace products*

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

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*[3)]

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 MoS_2 lubricant.

3) 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

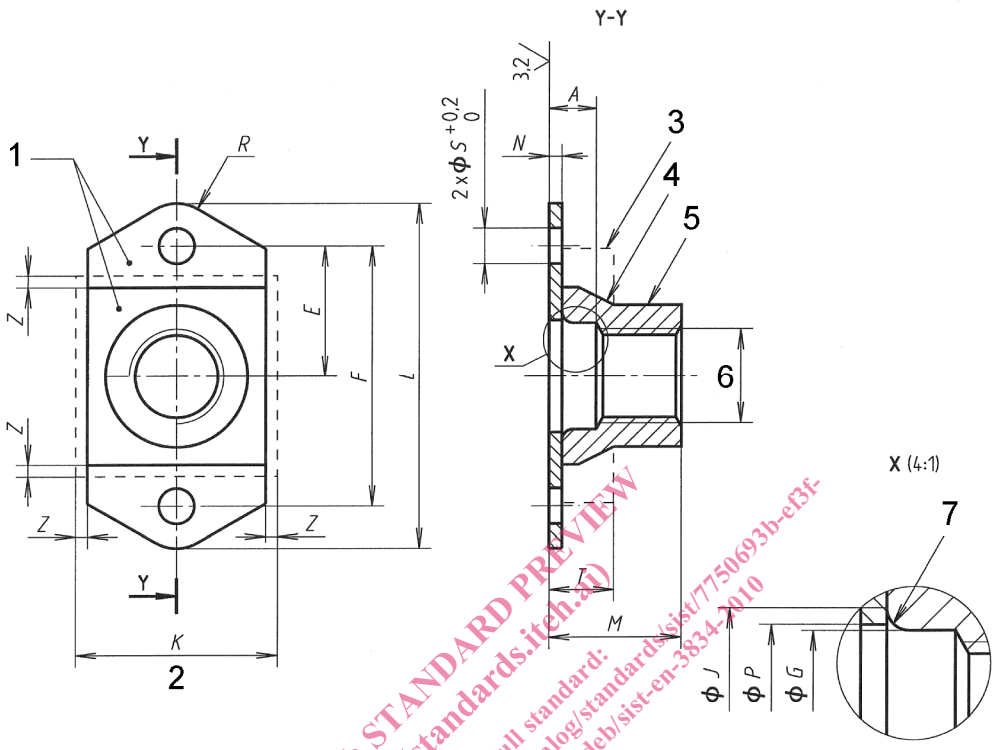
TR 3791.

3.4 Surface treatment

EN 2491, thickness not specified.

6,3 [3,2] These values in micrometres apply before surface treatment. They do not apply to threads and sheared edges the surface texture of which will be as 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 the self-locking torque requirement. Tooling marks are permitted in this area.
6 Thread
7 Radius or chamfer

Figure 1

Table 1

Diameter code	Thread [a]	*A* Counterbore Code	*A* Counterbore min.	*E*	*F*	*G* min.	*J* [b] max.	*K* max.	*L* max.	*M* max.	*N* [c] max.	*P* min.	*R* ≈	*S*	*T* max.	*Z* Radial float min.	Mass [d]
050	MJ5x0,8-4H6H	04	4	9,5	19	5,2	7,3	12	25,2	8,5	0,9	6,5	3	2,5	4,5	0,5	3,2
		06	6							10,5							3,5
		08	8							12,5							3,7
		10	10							14,5							3,9
060	MJ6x1-4H5H	04	4	11	22	6,2	8,7	13,5	29,2	9,4	0,9	7,5	3,5	2,5	4,6	0,5	3,6
		06	6							11,4							3,9
		08	8							13,4							4,2
		10	10							15,4							4,5
080	MJ8x1-4H5H	04	4	11	22	8,2	10,9	16	29,2	11,2	1,1	9,5	3,5	3	5,5	0,5	6,9
		06	6							13,2							7,9
		08	8							15,2							8,9
		10	10							17,2							9,9

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

b Measured at sharp corners (chamfered) or point of tangency (radiused).

c Measured 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	EN3834-08006

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.