



# SLOVENSKI STANDARD

## SIST EN 2867:2010

01-januar-2010

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Aerospace series - Nuts, anchor, self-locking, floating, one lug, with counterbore, in heat resisting steel, MoS2 lubricated - Classification: 1100 MPa (at ambient temperature)/315 °C

**STANDARD PREVIEW**  
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Luft- und Raumfahrt - Gehäuse-Anniemuttern, selbstsichernd, beweglich, einseitiger Flansch, mit zylindrischer Aussenkugung, aus hochwarmfestem Stahl, MoS2 geschmiert - Klasse: 1100 MPa (bei Raumtemperatur)/315 °C

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Série aérospatiale - Écrous à river à freinage interne, flottants, simple patte, avec chambrage, en acier résistant à chaud, lubrifiés MoS2 - Classification: 1100 MPa (à température ambiante)/315 °C

**Ta slovenski standard je istoveten z: EN 2867:2009**

### ICS:

49.030.30 Matice Nuts

**SIST EN 2867:2010 en**

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 2867**

November 2009

ICS 49.030.30

English Version

**Aerospace series - Nuts, anchor, self-locking, floating, one lug,  
with counterbore, in heat resisting steel, MoS2 lubricated -  
Classification: 1 100 MPa (at ambient temperature) / 315 °C**

Série aérospatiale - Écrous à river, à freinage interne,  
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Luft- und Raumfahrt - Gehäuse-Annietsmuttern,  
selbstsichernd, beweglich, einseitiger Flansch, mit  
zylindrischer Aussenkung, aus hochwarmfestem Stahl,  
MoS2 geschmiert - Klasse: 1 100 MPa (bei  
Raumtemperatur) / 315 °C

This European Standard was approved by CEN on 17 October 2009.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN Management Centre or to any CEN member.

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, 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  
EUROPÄISCHES KOMITEE FÜR NORMUNG

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## Foreword

This document (EN 2867:2009) 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 May 2010, and conflicting national standards shall be withdrawn at the latest by May 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, 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.

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## EN 2867:2009 (E)

## 1 Scope

This European Standard specifies the characteristics of one lug, floating anchor nuts, with counterbore and self-locking feature achieved by forming the upper portion out-of-round, in heat resisting steel, MoS<sub>2</sub> lubricated.

Classification: 1 100 MPa <sup>1)</sup> / 315 °C <sup>2)</sup>.

## 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 2424:2008, *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 —  $0,5 \text{ mm} \leq a \leq 10 \text{ mm}$*

EN 3639, *Aerospace series — Heat resisting alloy FE-PA2601 — Softened and cold worked — Wire for forged fasteners —  $D \leq 15 \text{ mm}$  —  $900 \text{ MPa} \leq R_m \leq 1 100 \text{ MPa}$  <sup>3)</sup>*

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*

ISO 3224, *Aerospace — Nuts, anchor, self-locking, floating, single lug, with counterbore, with MJ threads, classifications: 1 100 MPa (at ambient temperature)/ 235 °C, 1 100 MPa (at ambient temperature)/ 315 °C and 1 100 MPa (at ambient temperature)/ 425 °C — Dimensions*

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*

TR 3791, *Aerospace series — Materials for self-locking nuts, threaded inserts and screw thread inserts of temperature classes  $\leq 425$  °C <sup>4)</sup>*

1) Corresponds to strength class of the associated bolt, the 100 % load of which it is able to withstand, when tested at ambient temperature, without breaking or cracking.

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 in conformity with ISO 3224, expressed in millimetres and apply before MoS<sub>2</sub> lubrication.

#### 3.2 Materials

EN 2398, EN 2399, EN 3638, EN 3639 or TR 3791.

#### 3.3 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.

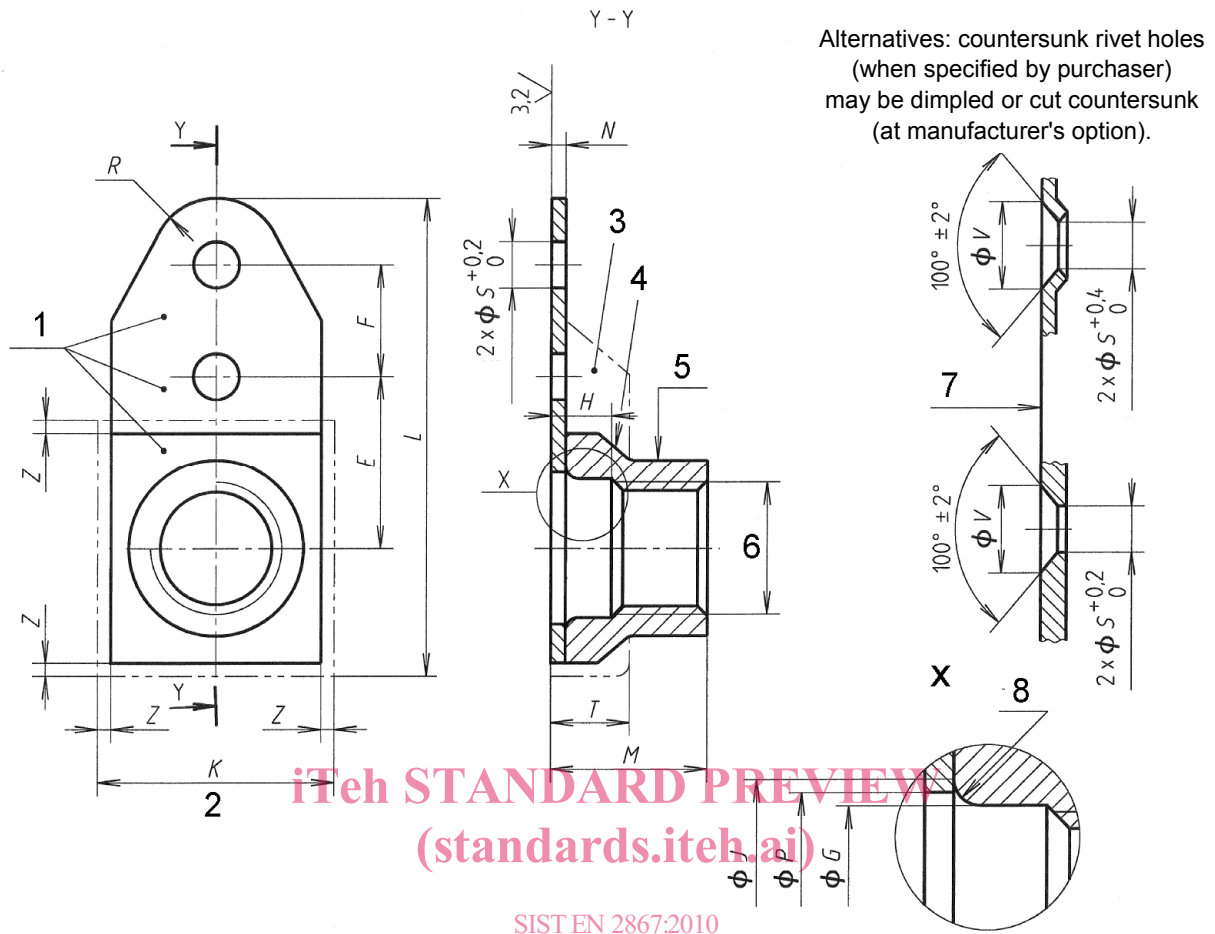
Break sharp edges 0,1 to 0,4.

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

Tolerances of form and position shall be in conformity with ISO 8788.

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### Key

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

Figure 1