



SLOVENSKI STANDARD

SIST EN 3241:2008

01-september-2008

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Aerospace series - Nuts, self-locking, clip, in heat resisting steel FE-PA 92 HT (A 286), silver coated - Classification: 1 100 MPa (at ambient temperature) / 425 °C

Luft- und Raumfahrt - Klemmuttern, selbstsichernd, aus hochwarmfestem Stahl FE-PA 92 HT (A 286), versilbert - Klasse: 1 100 MPa (bei Raumtemperatur) / 425 °C

Série aérospatiale - Écrous à pincer, à freinage interne, en acier résistant à chaud FE-PA 92 HT (A 286), argentés - Classification: 1 100 MPa (à température ambiante) / 425 °C

Ta slovenski standard je istoveten z: EN 3241:2008

ICS:

49.030.30 Matice Nuts

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ICS 49.030.30

English Version

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This European Standard was approved by CEN on 2 February 2008.

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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.

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Foreword

This document (EN 3241:2008) 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of an identical text or by endorsement, at the latest by December 2008, and conflicting national standards shall be withdrawn at the latest by December 2008.

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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1 Scope

This standard specifies the characteristics of self-locking silver coated clip nuts in FE-PA 92 HT for aerospace applications.

Classification: 1 100 MPa¹⁾ /425 °C²⁾

2 References

- EN 2424 Aerospace series — Marking of aerospace products³⁾
- EN 2786 Aerospace series — Electrolytic silver plating of fasteners⁴⁾
- EN 3152 Aerospace series — Propulsion standard parts — Nuts, self-locking, in heat resisting steel FE-PA 92 HT (A 286) — Classification: 1 100 MPa/425 °C — Technical specification
- 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 ≤ 15 mm — 900 MPa ≤ Rm ≤ 1 100 MPa⁴⁾
- EN 3741 Aerospace series — Nuts, clip, metric — Installation holes and assembly
- ISO 5855-1 Aerospace — MJ threads — Part 1: General requirements
- ISO 5855-2 Aerospace — MJ threads — Part 2: Limit dimensions for bolts and nuts

3 Required characteristics

3.1 Configuration – Dimensions – Tolerances – Masses

The configuration of the clip nut in this standard is given as an example only. Forms not stated are at the manufacturer's option. Only the maximum overall dimensions given in the table 1 and the interchangeability requirements are imposed. The minimum dimensions are limited by the requirements of the technical specification. Dimensions and tolerances to be met after coating. Dimensions and tolerances are in millimetres.

-
- 1) The strength class of the bolt concerned which can withstand the load at ambient temperature when tested at 100 % load without cracking or breaking the nut.
 - 2) Maximum test temperature of the part.
 - 3) Published as ASD standard at the date of publication of this standard.
 - 4) Published as ASD Prestandard at the date of publication of this standard.

3.2 Material

Nut element: EN 3638 or EN 3639.

Clip: EN 3638

3.3 Surface treatment

Silver coating to EN 2786, coating thickness 5 µm to 15 µm.

On nuts MJ6 and larger, the coating thickness shall be not less than 5 µm, measured at the pitch diameter.

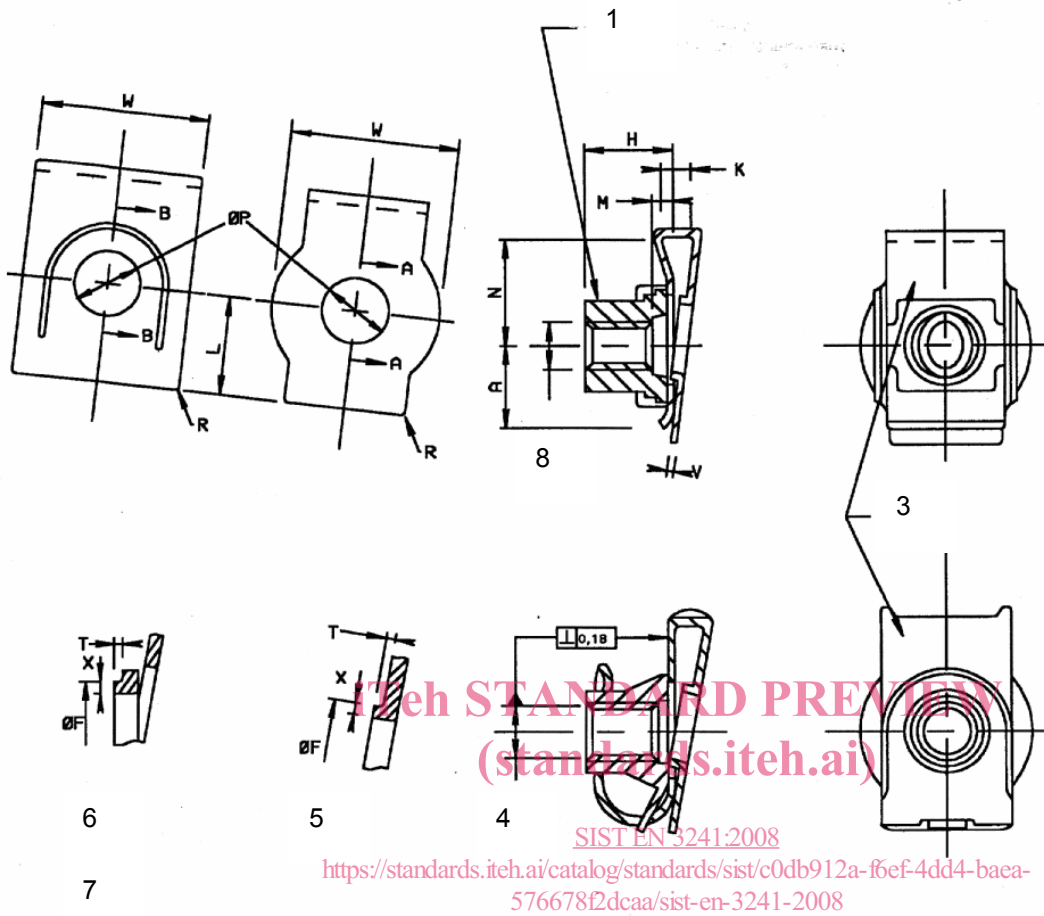
Nuts MJ5 and smaller shall show complete coverage on the threads.

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All forms are acceptable within limit dimensions.

Key

- 1 Deformation in this area to achieve self locking requirement. Tooling marks acceptable.
- 2 Dimensions apply after coating. Thread surfaces will be as achieved by normal method of manufacture.
- 3 Identity Markings
- 4 Pitch ϕ
- 5 View A-A
- 6 View B-B
- 7 Remove sharp edges 0,1 to 0,4.
- 8 Thread ϕ

Figure 1