

Aerospace series - Nut, anchor, self-locking, fixed, 90° corner, reduced series, with counterbore, in heat resisting steel, MoS2 lubricated - Classification: 1 100 MPa (at ambient temperature) / 315 °C

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>See Eesti standard EVS-EN 3750:2026 sisaldab Euroopa standardi EN 3750:2026 ingliskeelset teksti.</p> <p>Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.</p> <p>Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 04.03.2026.</p> <p>Standard on kättesaadav Eesti Standardimis- ja Akrediteerimiskeskusest.</p>	<p>This Estonian standard EVS-EN 3750:2026 consists of the English text of the European standard EN 3750:2026.</p> <p>This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation and Accreditation.</p> <p>Date of Availability of the European standard is 04.03.2026.</p> <p>The standard is available from the Estonian Centre for Standardisation and Accreditation.</p>
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ICS 49.030.30

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English Version

**Aerospace series - Nut, anchor, self-locking, fixed, 90°
corner, reduced series, with counterbore, in heat resisting
steel, MoS2 lubricated - Classification: 1 100 MPa (at
ambient temperature) / 315 °C**

Série aérospatiale - Écrou à river, à freinage interne,
fixe, d'angle 90°, série réduite, avec chambrage, en
acier résistant à chaud, lubrifié au MoS2 - Classification
: 1 100 MPa (à température ambiante)/315 °C

Luft- und Raumfahrt - Anniemutter, selbstsichernd,
einseitiger verkürzter 90° Eckflansch, mit zylindrischer
Aussenkung, aus hochwarmfestem Stahl, MoS2-
geschmiert - Klasse: 1 100 MPa (bei Raumtemperatur)
/ 315 °C

This European Standard was approved by CEN on 2 February 2026.

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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-CENELEC Management Centre has the same status as the official versions.

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

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European foreword

This document (EN 3750:2026) has been prepared by ASD-STAN.

After enquiries and votes carried out in accordance with the rules of this Association, this document has received the approval of the National Associations and the Official Services of the member countries of ASD-STAN, 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 September 2026, and conflicting national standards shall be withdrawn at the latest by September 2026.

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

This document supersedes EN 3750:2010.

EN 3750:2026 includes the following significant technical changes with respect to EN 3750:2010:

- normative references updated;
- Clause 3 “Terms and definitions” added;
- Figure 1 corrected (hole diameter);
- Bibliography added.

Any feedback and questions on this document should be directed to the users’ national standards body. A complete listing of these bodies can be found on the CEN website.

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1 Scope

This document specifies the characteristics of 90° corner, reduced series, counterbored fixed anchor nuts, with a self-locking feature achieved by forming the upper portion out-of-round, in heat resisting steel, MoS₂ lubricated.

Classification: 1 100 MPa¹/315 °C.²

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 ≥ 900 MPa — Bars for machined bolts — D ≤ 25 mm*

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

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

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

EN 2516, *Aerospace series — Passivation of corrosion resisting steels and decontamination of nickel or cobalt base alloys*

EN 3638, *Aerospace series — Heat-resisting alloy X6NiCrTiMoV26-15 (1.4980) — Consumable electrode remelted — Solution treated and precipitation treated — Sheets, strips and plates — 0,5 mm ≤ a ≤ 10 mm*

EN 3639, *Aerospace series — Heat resisting alloy X6NiCrTiMoV26-15 (1.4980) — Softened and cold worked — Wires for forged fasteners — D ≤ 15 mm — 900 MPa ≤ R_m ≤ 1 100 MPa*

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*

ISO 9156, *Aerospace — Nuts, anchor, self-locking, fixed, 90° corner, reduced series, 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*

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.

TR 3791,³ *Aerospace series — Materials for self-locking nuts, threaded inserts and screw thread inserts of temperature classes ≤ 425 °C*

3 Terms and definitions

No terms and definitions are listed in this document.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <https://www.electropedia.org/>

4 Required characteristics

4.1 Configuration — Dimensions — Masses

Configuration, dimensions and masses shall be in accordance with Figure 1 and Table 1.

Dimensions and tolerances shall be in accordance with ISO 9156, expressed in millimetres and apply before MoS₂ lubrication.

Form and position tolerances shall be in accordance with ISO 8788 and those specified in Table 1.

4.2 Materials

Materials shall be in accordance with EN 2398, EN 2399, EN 3638, EN 3639 or TR 3791³.

Heat treatment shall be applied to reach the 1 100 MPa.

4.3 Surface treatment

Part shall be passivated in accordance with EN 2516, type C2, C5 – C13, and in minimum the thread area shall be lubricated in accordance with EN 2491.

$\sqrt{6,3}$ [$\sqrt{3,2}$] 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.

³ Published as ASD-STAN TR, available at: <https://www.asd-stan.org>.