

**Aerospace series - Nuts, bihexagonal, self-locking, with counterbore, in heat resisting steel, passivated -
Classification: 1 100 MPa (at ambient temperature) /650 °C**

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 3843:2010 sisaldab Euroopa standardi EN 3843:2010 ingliskeelset teksti.

Standard on kinnitatud Eesti Standardikeskuse 31.10.2010 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.

Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on 13.10.2010.

Standard on kättesaadav Eesti standardiorganisatsioonist.

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English Version

**Aerospace series - Nuts, bihexagonal, self-locking, with
counterbore, in heat resisting steel, passivated - Classification: 1
100 MPa (at ambient temperature) / 650 °C**

Série aérospatiale - Écrous bihexagonaux, à freinage
interne, avec chambrage, en acier résistant à chaud,
passivés - Classification : 1 100 MPa (à température
ambiante) / 650 °C

Luft- und Raumfahrt - Flache Zwölfkantmuttern,
selbstsichernd, mit zylindrischer Aussenkung, aus
hochwarmfestem Stahl, passiviert - Klasse: 1 100 MPa (bei
Raumtemperatur) / 650 °C

This European Standard was approved by CEN on 30 July 2010.

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Foreword

This document (EN 3843:2010) 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of an identical text or by endorsement, at the latest by April 2011, and conflicting national standards shall be withdrawn at the latest by April 2011.

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1 Scope

This standard specifies the characteristics of bihexagonal self-locking nuts, with counterbore, in heat resisting steel, passivated.

Classification: 1 100 MPa ¹⁾ / 650 °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 2424:2008, *Aerospace series — Marking of aerospace products*

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

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 4095, *Aerospace — Bihexagonal drives — Wrenching configuration — Metric series*

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

ISO 8641, *Aerospace — Self-locking nuts with maximum operating temperature greater than 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 ≤ 425 °C ³⁾*

3 Required characteristics

3.1 Configuration – Dimensions – Masses

See Figure 1 and Table 1.

Dimensions and tolerances are expressed in millimetres and apply after surface treatment.

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

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 material.

3) Published as ASD Technical Report at the date of publication of this standard by Aerospace and Defence Industries Association of Europe-Standardization (ASD-STAN) (www.asd-stan.org).