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BSI Standards Publication

Aerospace series - Nuts, bihexagonal, self-locking, with counterbore, in heat resisting nickel base alloy, passivated, MoS₂ lubricated - Classification: 1 550 MPa (at ambient temperature) / 315 °C

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National foreword

This British Standard is the UK implementation of EN 2894:2018.

The UK participation in its preparation was entrusted to Technical Committee ACE/12, Aerospace fasteners and fastening systems.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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Compliance with a British Standard cannot confer immunity from legal obligations.

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English Version

Aerospace series - Nuts, bihexagonal, self-locking, with counterbore, in heat resisting nickel base alloy, passivated, MoS₂ lubricated - Classification: 1 550 MPa (at ambient temperature) / 315 °C

Série aérospatiale - Écrous bihexagonaux, à freinage interne, avec chambrage, en alliage résistant à chaud à base de nickel, passivés lubrifiés MoS₂ - Classification: 1 550 MPa (à température ambiante) / 315 °C

Luft- und Raumfahrt - Zwölfkantmuttern, selbstsichernd, mit zylindrischer Aussenkung, aus hochwarmfester Nickelbasislegierung, passiviert, MoS₂-geschmiert - Klasse: 1 550 MPa (bei Raumtemperatur) / 315 °C

This European Standard was approved by CEN on 13 May 2018.

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-CENELEC 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-CENELEC 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, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



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COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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European foreword

This document (EN 2894:2018) 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 2019, and conflicting national standards shall be withdrawn at the latest by April 2019.

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.

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, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

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1 Scope

This European standard specifies the characteristics of self-locking bihexagonal nuts, with counterbore, in heat resisting nickel base alloy, passivated, MoS₂ lubricated.

Classification: 1 550 MPa¹⁾ / 315 °C²⁾.

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 2424, *Aerospace series — Marking of aerospace products*

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

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

EN 2952, *Aerospace series — Heat resisting alloy NI-PH2601 — Solution treated and cold worked; bar for forged fasteners $D \leq 50$ mm, $1\ 270$ MPa $\leq R_m \leq 1\ 550$ MPa)*

ISO 4095, *Aerospace — Bihexagonal drives — Wrenching configuration — Metric series³⁾*

ISO 5855-2, *Aerospace — MJ threads — Part 2: Limit dimensions for bolts and nuts³⁾*

ISO 5858, *Aerospace — Nuts, self-locking, with maximum operating temperature less than or equal to 425 °C — Procurement specification³⁾*

ISO 8788, *Aerospace — Nuts, metric — Tolerances of form and position³⁾*

3 Required characteristics

3.1 Configuration - Dimensions - Mass

See Figure 1 and Table 1.

Dimensions and tolerances are expressed in millimetres and apply after passivation but before MoS₂ lubrication.

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

3.2 Tolerances of form and position

See ISO 8788.

3.3 Material

See EN 2952.

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 surface treatment.

3))Published by: ISO International International Standardisation Organisation (<http://www.iso.ch/>).