

STN	<p>Letectvo a kozmonautika Nízke šesthranné matice s bežným otvorom kľúča, z ocele, pokovované kadmiom Trieda: 900 MPa (pri teplote okolia)/235 °C</p>	<p>STN EN 3228</p>
		31 3317

Aerospace series - Nuts, hexagonal, plain, reduced height, normal across flats, in steel, cadmium plated - Classification: 900 MPa (at ambient temperature)/235 C

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola označená vo Vestníku ÚNMS SR č. 06/22

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English Version

**Aerospace series - Nuts, hexagonal, plain, reduced height,
normal across flats, in steel, cadmium plated -
Classification: 900 MPa (at ambient temperature)/235 °C**

Série aérospatiale - Écrous hexagonaux ordinaires,
hauteur réduite, surplats normaux, en acier, cadmiés -
Classification : 900 MPa (à température ambiante)/235
°C

Luft- und Raumfahrt - Flache Sechskantmuttern mit
reduzierter Höhe, normale Schlüsselweite, aus Stahl,
verkadmet - Klasse: 900 MPa (bei
Raumtemperatur)/235 °C

This European Standard was approved by CEN on 17 January 2022.

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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 3228:2022) 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of an identical text or by endorsement, at the latest by September 2022 and conflicting national standards shall be withdrawn at the latest by September 2022.

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EN 3228:2022 (E)**1 Scope**

This document specifies the characteristics of plain hexagonal nuts, reduced height, normal across flats, in steel, cadmium plated, for aerospace applications.

Classification: 900 MPa/235 °C¹.

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 2133, Aerospace series — Cadmium plating of steels with specified tensile strength ≤ 1 450 MPa, copper, copper alloys and nickel alloys

EN 2205, Aerospace series — Steel FE-PL1502 (25CrMo4) — 900 MPa ≤ R_m ≤ 1 100 MPa — Bars — D_e ≤ 40 mm

EN 2424, Aerospace series — Marking of aerospace products

EN 2438, Aerospace series — Steel FE-PL2102 (35NiCr6) — 900 MPa ≤ R_m ≤ 1 100 MPa — Bars — D_e ≤ 40 mm

EN 2448, Aerospace series — Steel FE-PL1503 (35CrMo4) — 900 MPa ≤ R_m ≤ 1 100 MPa — Bars — D_e ≤ 40 mm

EN 3513, Steel FE-PL711 — Hardened and tempered — 900 ≤ R_m ≤ 1 100 MPa — Bar and wire — D_e ≤ 45 mm²

TR 3823, Aerospace series — Materials for plain, slotted and self-locking by plastic ring hexagonal nuts³

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

ISO 8788, Aerospace — Nuts, metric — Tolerances of form and position

ISO 9139, Aerospace — Nuts, plain or slotted (castellated) — Procurement specification

ISO 9609, Aerospace — Nuts, hexagonal, plain, reduced height, normal across flats, with MJ threads, classifications: 450 MPa (at ambient temperature)/120 degrees C, 450 MPa (at ambient temperature)/235 degrees C, 600 MPa (at ambient temperature)/425 degrees C, 900 MPa (at ambient temperature)/235 degrees C, 900 MPa (at ambient temperature)/315 degrees C, 900 MPa (at ambient temperature)/650 degrees C, 1 100 MPa (at ambient temperature)/235 degrees C, 1 100 MPa (at ambient temperature)/730 degrees C and 1 250 MPa (at ambient temperature)/600 degrees C — Dimensions

koniec náhľadu – text d'alej pokračuje v platenej verzii STN

¹ 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.

² Published as ASD-STAN Standard at the date of publication of this document by AeroSpace and Defence Industries Association of Europe – Standardization (ASD-STAN), <http://www.asd-stan.org>.

³ Published as ASD STAN Technical Report at the date of publication of this document by AeroSpace and Defence Industries Association of Europe – Standardization (ASD STAN), <http://www.asd-stan.org>.