

Irish Standard I.S. EN 3229:2009

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

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English Version

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

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

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

This European Standard was approved by CEN on 29 September 2009.

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 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 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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I.S. EN 3229:2009

EN 3229:2009 (E)

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EN 3229:2009 (E)

Foreword

This document (EN 3229:2009) 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of an identical text or by endorsement, at the latest by June 2010, and conflicting national standards shall be withdrawn at the latest by June 2010.

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EN 3229:2009 (E)

1 Scope

This European Standard specifies the characteristics of plain, hexagonal nuts, reduced height, normal across flats, with left hand thread, in steel, cadmium plated.

Classification: 900 MPa 1) / 235 °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 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 \leq R_m \leq 1 100 MPa — Bars — D_e \leq 40 mm

EN 2424, Aerospace series — Marking of aerospace products

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

EN 2444, Steel FE-PL711 — 900 MPa \leq R_m \leq 1 100 MPa — Bars and wires — D_e \leq 45 mm ³)

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

EN 3513, Aerospace series — Steel FE-PL711 — Hardened and tempered — $900 \le R_m \le 1$ 100 MPa — Bar and wire — $D_e \le 45$ mm 4)

EN 9100, Quality Management Systems — Requirements for Aviation, Space and Defense Organizations

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 °C, 450 MPa (at ambient temperature) /235 °C, 600 MPa (at ambient temperature) /425 °C, 900 MPa (at ambient temperature) /235 °C, 900 MPa (at ambient temperature) /650 °C, 1 100 MPa (at ambient temperature) /235 °C, 1 100 MPa (at ambient temperature) /730 °C and 1 250 MPa (at ambient temperature)/600 °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.

³⁾ Inactive for new design. See EN 3513.

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