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Irish Standard
I.S. EN 4084:2009

Aerospace series - Nuts, anchor, self-locking, fixed, two lug, with counterbore, in alloy steel, cadmium plated, MoS₂ lubricated - Classification: 1 100 MPA (at ambient temperature) / 235°C

I.S. EN 4084:2009

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English Version

Aerospace series - Nuts, anchor, self-locking, fixed, two lug, with counterbore, in alloy steel, cadmium plated, MoS2 lubricated - Classification: 1 100 MPA (at ambient temperature) / 235 °C

Série aérospatiale - Écrous à river, à freinage interne, fixes, double patte, avec chambrage, en acier, cadmiés, lubrifiés MoS2 - Classification: 1 100 MPa (à température ambiante)/235 °C

Luft- und Raumfahrt - Anniemuttern, selbstsichernd, beiderseitiger Flansch mit zylindrischer Aussenkung aus legiertem Stahl, verkadmet, MoS2-geschmiert - Klasse: 1 100 MPa (bei Raumtemperatur) / 235 °C

This European Standard was approved by CEN on 15 September 2009.

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Foreword

This document (EN 4084:2009) 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of an identical text or by endorsement, at the latest by May 2010, and conflicting national standards shall be withdrawn at the latest by May 2010.

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1 Scope

This European Standard specifies the characteristics of two lug fixed anchor nuts, with counterbore and a self-locking feature achieved by forming the upper portion out-of-round, in alloy steel, cadmium plated, MoS₂ lubricated.

Classification: 1 100 MPa ¹⁾ / 235 °C ²⁾.

2 Normative references

EN 2133, *Aerospace series — Cadmium plating of steels with specified tensile strength ≤ 1450 MPa, copper, copper alloys and nickel alloys*

EN 2424:2008, *Aerospace series — Marking of aerospace products*

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

EN 2542, *Aerospace series — Steel FE-PL1502 (25CrMo4) — Annealed — Bar and wire — $D_e \leq 40$ mm — For prevailing torque nuts*

EN 2543, *Aerospace series — Steel FE-PL1502 (25CrMo4) — Annealed — Sheet and strip — $0,3 \text{ mm} \leq a \leq 2 \text{ mm}$ — For prevailing torque nuts*

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 3223, *Aerospace — Nuts, anchor, self-locking, fixed, two lug, 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*

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*

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

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 can withstand without continuous change in its original characteristics, after return to ambient temperature. The maximum temperature is determined by the surface treatment.

3) Published as ASD-STAN Technical Report at the date of publication of this standard.

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