

Irish Standard I.S. EN 2862:2009

Aerospace series - Nuts, anchor, selflocking, fixed, 90 ° corner, with counterbore, in alloy steel, cadmium plated, MoS<sub>2</sub> lubricated - Classification : 1 100 MPa (at ambient temperature) / 235 °C

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# EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

**EN 2862** 

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### **English Version**

Aerospace series - Nuts, anchor, self-locking, fixed, 90° corner, with counterbore, in alloy steel, cadmium plated, MoS<sub>2</sub> lubricated - Classification : 1 100 MPa (at ambient temperature) / 235 °C

Série aérospatiale - Écrous à river, à freinage interne, fixes, d'angle 90°, avec chambrage, en acier allié, cadmiés, lubrifiés MoS<sub>2</sub> - Classification : 1 100 MPa (à température ambiante) / 235 °C

Luft- und Raumfahrt - Annietmuttern, selbstsichernd, 90° Eckflansch, mit zylindrischer Aussenkung, aus legiertem Stahl, verkadmet, MoS<sub>2</sub>-geschmiert - Klasse: 1 100 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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# EN 2862:2009 (E)

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EN 2862:2009 (E)

### **Foreword**

This document (EN 2862:2009) 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.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

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### 1 Scope

This European Standard specifies the characteristics of 90° corner, counterbored, fixed, anchor nuts, with a self-locking feature achieved by forming the upper portion out-of-round, in alloy steel, cadmium plated, MoS<sub>2</sub> lubricated.

Classification: 1 100 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 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 — De ≤ 40 mm — For prevailing torque nuts

EN 2543, Aerospace series — Steel FE-PL1502 (25CrMo4) — Annealed — Sheet and strip —  $0.3 \le a \le 2$  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 3221, Aerospace — Nuts, anchor, self-locking, fixed, 90° corner, 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  $^{\circ}$ 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  $\leq$  425 °C  $^{3)}$ 

<sup>1)</sup> 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.

<sup>2)</sup> 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.

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



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