



National Standards Authority of Ireland

IRISH STANDARD

**I.S. EN 3712:2007**

ICS 49.030.30

**AEROSPACE SERIES - NUTS, ANCHOR,  
SELF-LOCKING, ONE LUG, FIXED, REDUCED  
SERIES, WITH COUNTERBORE, IN STEEL,  
CADMIUM PLATED, MOS2 LUBRICATED -  
CLASSIFICATION: 1 100 MPA (AT AMBIENT  
TEMPERATURE) / 235 °C**

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*This Irish Standard was  
published under the authority  
of the National Standards  
Authority of Ireland and  
comes into effect on:  
24 July 2007*

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 3712**

June 2007

ICS 49.030.30

English Version

**Aerospace series - Nuts, anchor, self-locking, one lug, fixed,  
reduced series, with counterbore, in 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,  
simple patte, série réduite, avec chambrage, en acier,  
cadmiés, lubrifiés MoS<sub>2</sub> - Classification : 1 100 MPa (à  
température ambiante) / 235 °C

Luft-und Raumfahrt - Anniemuttern, selbstsichernd,  
einseitiger verkürzter Flansch, mit zylindrischer  
Aussenkung, aus Stahl, verkadmet, MoS<sub>2</sub> geschmiert -  
Klasse: 1 100 MPa (bei Raumtemperatur) / 235 °C

This European Standard was approved by CEN on 20 April 2006.

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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## **Foreword**

This document (EN 3712:2007) 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 December 2007, and conflicting national standards shall be withdrawn at the latest by December 2007.

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.

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, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

## EN 3712:2007 (E)

### 1 Scope

This standard specifies characteristics for one lug, reduced series, counterbored, fixed anchor nuts, with a self-locking feature achieved by forming the upper portion out-of-round, in steel, cadmium plated, MoS<sub>2</sub> lubricated, classification 1 100 MPa <sup>1)</sup> / 235 °C. <sup>2)</sup>

### 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.

ISO 3191, *Aerospace — Nuts, anchor, self-locking, fixed, single lug, reduced series, 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.*

EN 2133, *Aerospace series — Cadmium plating of steels with specified tensile strength  $\leq 1\,450$  MPa, copper, copper alloys and nickel alloys.*

EN 2424, *Aerospace series — Marking of aerospace products.*

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

EN 2542, *Aerospace series — Steel FE-PL43S — Annealed — Bar and wire —  $D_e \leq 40$  mm — for prevailing torque nuts.*<sup>3)</sup>

EN 2543, *Aerospace series — Steel FE-PL43S — Annealed — Sheet and strip —  $0,3 \leq a \leq 2$  mm — for prevailing torque nuts.*<sup>3)</sup>

EN 9100, *Aerospace series — Quality management systems — Requirements (based on ISO 9001:2000) and Quality systems — Model for quality assurance in design, development, production, installation and servicing (based on ISO 9001:1994).*

EN 9133, *Aerospace series — Quality management systems — Qualification Procedure for aerospace standard parts.*

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1) Corresponds to strength class of the associated bolt, the 100 per cent 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 of its original characteristics, after ambient temperature has been restored. The maximum temperature is conditioned by the cadmium plating.

3) Published as ASD Prestandard at the date of publication of this standard.

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