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NSAI Standards

Irish Standard
I.S. EN 4309:2016

Aerospace series - Nuts, hexagon, self-locking by plastic ring, normal height, normal across flats, in alloy steel, cadmium plated - Classification: 900 MPa (at ambient temperature) / 120 °C

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I.S. EN 4309:2016

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This document is based on:	*Published:*
EN 4309:2016	2016-12-21

This document was published under the authority of the NSAI and comes into effect on:	ICS number: 49.030.30
2017-01-16	NOTE: If blank see CEN/CENELEC cover page

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National Foreword

I.S. EN 4309:2016 is the adopted Irish version of the European Document EN 4309:2016, Aerospace series - Nuts, hexagon, self-locking by plastic ring, normal height, normal across flats, in alloy steel, cadmium plated - Classification: 900 MPa (at ambient temperature) / 120 °C

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 4309

December 2016

ICS 49.030.30

English Version

Aerospace series - Nuts, hexagon, self-locking by plastic ring, normal height, normal across flats, in alloy steel, cadmium plated - Classification: 900 MPa (at ambient temperature) / 120 °C

Série aérospatiale - Écrous hexagonaux, à freinage interne par bague plastique, hauteur normale, surplats normaux, en acier allié, cadmiés - Classification : 900 MPa (à température ambiante) / 120 °C

Luft- und Raumfahrt - Sechskantmuttern, selbstsichernd mit Plastikring, mit normaler Schlüsselweite, aus legiertem Stahl, verkadmet - Klasse: 900 MPa (bei Raumtemperatur) / 120 °C

This European Standard was approved by CEN on 11 March 2016.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
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Contents

Page

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European foreword

This document (EN 4309:2016) 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 2017, and conflicting national standards shall be withdrawn at the latest by June 2017.

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1 Scope

This European Standard specifies the characteristics of hexagonal nuts, self-locking by plastic ring, normal height, normal across flats, in alloy steel, cadmium plated.

Classification: 900 MPa 1) / 120 °C 2)

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

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

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

EN 9100, *Aerospace series — Quality Management Systems — Requirements for Aviation, Space and Defence Organizations*

EN 9133, *Aerospace series — Quality Management Systems — Qualification Procedure for Aerospace Standard Products*

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 3823, *Aerospace series — Materials for plain, slotted and self-locking by plastic ring hexagonal nuts* 3)

3 Required characteristics

3.1 Configuration – Dimensions – Masses

See Figure 1 and Table 1.

Dimensions and tolerances are expressed in millimetres and apply after surface treatment.

Details of form not stated are at the manufacturer's option.

3.2 Tolerances of form and position

ISO 8788

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1) Corresponds to the minimum tensile stress which the nut is able to withstand at ambient temperature without breaking or cracking when tested with a bolt of a higher strength class.

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 plastic ring.

3) Published as ASD-STAN Technical Report at the date of publication of this standard by AeroSpace and Defence industries Association of Europe - Standardization (ASD-STAN) (www.asd-stan.org)

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