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IRISH STANDARD

I.S. EN 3020:2008

ICS 49.030.30

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This Irish Standard was published under the authority of the National Standards Authority of Ireland and comes into effect on:
17 July 2008

AEROSPACE SERIES - SELF-LOCKING PLATE NUTS, FLOATING, TWO-LUG, IN HEAT RESISTING STEEL FE-PA92HT (A286), SILVER PLATED - CLASSIFICATION: 1 100 MPA (AT AMBIENT TEMPERATURE)/650 °C

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EUROPEAN STANDARD

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May 2008

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English Version

Aerospace series - Self-locking plate nuts, floating, two-lug, in heat resisting steel FE-PA92HT (A286), silver plated - Classification: 1 100 MPa (at ambient temperature)/650 °C

Série aérospatiale - Ecrous à river à freinage interne, flottants, double patte, en acier résistant à chaud FE-PA92HT(A286), argentés - Classification: 1 100 MPa (à température ambiante)/650 °C

Luft- und Raumfahrt - Selbstsichernde Annietmuttern, beweglich, beidseitiger Flansch, aus hochwarmfestem Stahl FE-PA92HT (A286), versilbert - Klasse: 1 100 MPa (bei Raumtemperatur)/650 °C

This European Standard was approved by CEN on 12 December 2007.

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Foreword

This document (EN 3020:2008) 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of an identical text or by endorsement, at the latest by November 2008, and conflicting national standards shall be withdrawn at the latest by November 2008.

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1 Scope

This standard specifies the characteristics of self-locking, floating plate nuts in FE-PA2601, silver plated, for aerospace applications.

Classification: 1 100 MPa[1)]/650 °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 2399, *Heat resisting steel FE-PA92-HT — $R_m \geq$ 900 MPa — Bars for forged bolts — $D \leq$ 25 mm — Aerospace series*[3)]

EN 2424, *Aerospace series — Marking of aerospace products*[4)]

EN 2786, *Aerospace series — Electrolytic silver plating of fasteners*[4)]

EN 3004, *Aerospace series — Nuts, self-locking, MJ threads, in heat resisting steel FE-PA2601 (A286) — Classification: 1 100 MPa (at ambient temperature)/650 °C — Technical specification*

EN 3638, *Aerospace series — Heat resisting alloy FE-PA2601 (X6NiCrTiMoV26-15), consumable electrode remelted, solution and precipitation treated — Sheet, strip and plate 0,5 mm ≤ a ≤ 10 mm*[4)]

EN 3639, *Aerospace series — Heat resisting alloy FE-PA2601 — Softened and cold worked — Wire for forged fasteners $D \leq$ 15 mm, 900 MPa ≤ R_m ≤ 1 100 MPa*[4)]

ISO 5855-2, *Aerospace — MJ threads — Part 2: Limit dimensions for bolts and nuts*

3 Required characteristics

3.1 Configuration, dimensions, tolerances, masses

See Figure 1 and Table 1. Dimensions and tolerances apply after silver plating.

3.2 Material

Nut element: EN 2399, EN 3638 or EN 3639

Cage: EN 3638

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1) The strength class of the bolt concerned which can withstand the load at ambient temperature when tested at 100 % load without cracking or breaking of the nut.

2) Maximum test temperature of the parts.

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

4) Published as ASD-standard.

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