



NSAI
Standards

Irish Standard
I.S. EN 2852:2010

Aerospace series - Nuts, hexagonal, plain,
normal height, normal across flats, heat
resisting steel passivated - Classification:
1 100 MPa/650 °C

I.S. EN 2852:2010

Incorporating amendments/corrigenda/National Annexes issued since publication:

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EUROPEAN STANDARD

EN 2852

NORME EUROPÉENNE

EUROPÄISCHE NORM

March 2010

ICS 49.030.30

English Version

**Aerospace series - Nuts, hexagonal, plain, normal height,
normal across flats, heat resisting steel passivated -
Classification: 1 100 MPa/650 °C**

Série aérospatiale - Écrous hexagonaux, simples hauteur
normale, surplats normaux en acier résistant à chaud
passivé - Classification : 1 100 MPa/650 °C

Luft- und Raumfahrt - Sechskantmuttern, normale Höhe,
normale Schlüsselweite, aus hochwarmfestem Stahl,
passiviert - Klasse: 1 100 MPa/650 °C

This European Standard was approved by CEN on 25 December 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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Contents		Page
Foreword.....		3
1	Scope	4
2	Normative references	4
3	Required characteristics	5
4	Designation	7
5	Marking	8
6	Technical specification	8

Foreword

This document (EN 2852:2010) 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of an identical text or by endorsement, at the latest by September 2010, and conflicting national standards shall be withdrawn at the latest by September 2010.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.

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, Croatia, 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.

1 Scope

This standard specifies the characteristics of plain hexagonal nuts in passivated heat resisting steel, with or without locking holes, the dimensions of which are in conformity with ISO 8279.

These nuts are intended for use in aircraft assemblies, subjected principally to tension loading.

They are intended to be used with bolts of 1 100 MPa ¹⁾ tensile strength classification, at temperatures up to 650 °C.

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 2171 ²⁾, *Heat resisting steel FE-PA92-HT — $R_m \geq 900$ MPa — Bars — Aerospace series* ³⁾

EN 2398, *Aerospace series — Heat resisting steel FE-PA2601 (X6NiCrTiMoV26-15) — $R_m \geq 900$ MPa — Bars for machined bolts — $D \leq 25$ mm*

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

EN 2516, *Aerospace series — Passivation of corrosion resisting steels and decontamination of nickel base alloys*

EN 4317, *Aerospace series — Heat resisting alloy FE-PA2601 (X6NiCrTiMoV26-15) — Non heat treated — Forging stock — a or $D \leq 200$ mm*

EN 4318, *Aerospace series — Heat resisting alloy FE-PA2601 (X6NiCrTiMoV26-15) — Solution treated and precipitation treated — Bar and section — $D_e \leq 100$ mm — $R_m \geq 960$ MPa*

EN 9100, *Quality Management Systems — Requirements for Aviation, Space and Defense Organizations*

ISO 5855-1, *Aerospace — MJ threads — Part 1: General requirements*

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

ISO 8279, *Aerospace — Nuts, hexagonal, plain, normal height, normal across flats, with MJ threads, classifications: 600 MPa (at ambient temperature)/120 °C, 600 MPa (at ambient temperature)/235 °C, 900 MPa (at ambient temperature)/425 °C, 1 100 MPa (at ambient temperature)/235 °C, 1 100 MPa (at ambient temperature)/315 °C, 1 100 MPa (at ambient temperature)/650 °C, 1 210 MPa (at ambient temperature)/730 °C, 1 250 MPa (at ambient temperature)/235 °C and 1 550 MPa (at ambient temperature)/600 °C — Dimensions*

ISO 8788, *Aerospace — Nuts, metric — Tolerances of form and position*

ISO 9139, *Aerospace — Nuts, plain or slotted (castellated) — Procurement specification*

1) This strength level applies at ambient temperature.

2) Inactive for new designation, see EN 4317 and EN 4318.

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

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