



National Standards Authority of Ireland

IRISH STANDARD

I.S. EN 2889:2006

ICS 49.030.20

**AEROSPACE SERIES - METRIC BOLTS,  
NORMAL HEXAGON HEAD, COARSE  
TOLERANCE NORMAL SHANK, SHORT  
THREAD, IN ALLOY STEEL, CADMIUM  
PLATED - CLASSIFICATION: 900 MPA (AT  
AMBIENT TEMPERATURE)/235 °C**

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EUROPEAN STANDARD

**EN 2889**

NORME EUROPÉENNE

EUROPÄISCHE NORM

July 2006

ICS 49.030.20

Supersedes EN 2889:1995

English Version

**Aerospace series - Metric bolts, normal hexagon head, coarse tolerance normal shank, short thread, in alloy steel, cadmium plated - Classification: 900 MPa (at ambient temperature)/235 °C**

Série aérospatiale - Vis à tête hexagonale normale, fût normal à tolérance large, filetage court, en acier allié, cadmiées - Classification: 900 MPa (à température ambiante)/235 °C

Luft- und Raumfahrt - Sechskantschrauben, kurzes Gewinde, aus legiertem Stahl, verkadmet - Klasse: 900 MPa (bei Raumtemperatur)/235 °C

This European Standard was approved by CEN on 13 January 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 Central Secretariat 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 Central Secretariat has the same status as the official versions.

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## **Foreword**

This European Standard (EN 2889:2006) has been prepared by the AeroSpace and Defense 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of an identical text or by endorsement, at the latest by January 2007, and conflicting national standards shall be withdrawn at the latest by January 2007.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, 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.

This document supersedes EN 2889:1995.

## EN 2889:2006 (E)

### 1 Scope

This standard specifies the characteristics of bolts, normal hexagonal head, coarse tolerance normal shank, short thread, in alloy steel, cadmium plated.

Classification: 900 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 3193, *Aerospace — Bolts, normal hexagonal head, normal shank, short or medium length MJ threads, metallic material, coated or uncoated, strength classes less than or equal to 1 100 MPa — Dimensions*

ISO 3353-1, *Aerospace — Lead and runout threads — Part 1: Rolled external threads*

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

ISO 7689, *Aerospace — Bolts, with MJ threads, made with alloy steel, strength class 1 100 MPa — Procurement specification*

ISO 7913, *Aerospace — Bolts and screws, metric — Tolerances of form and position*

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

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

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)*

TR 3775, *Aerospace series — Bolts and pins — National materials<sup>3)</sup>*

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1) Minimum tensile strength of the material at ambient temperature.

2) Maximum temperature that the bolt can withstand without continuous change in its original characteristics, after return to ambient temperature. The maximum temperature is determined by the surface treatment.

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

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