



National Standards Authority of Ireland

IRISH STANDARD

**I.S. EN 3752:2005**

ICS 49.030.30

**AEROSPACE SERIES - NUTS, SELF-LOCKING,  
MJ THREADS, IN HEAT RESISTING STEEL  
FE-PA2601 (A286), MOS2 COATED -  
CLASSIFICATION: 1 100 MPA (AT AMBIENT  
TEMPERATURE) / 425° C - TECHNICAL  
SPECIFICATION**

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 3752**

November 2004

ICS 49.030.30

Supersedes EN 3752:2003

English version

**Aerospace series - Nuts, self-locking, MJ threads, in heat  
resisting steel FE-PA2601 (A286), MoS2 coated - Classification:  
1 100 MPa (at ambient temperature) / 425° C - Technical  
specification**

Série aéronautique - Écrous, à freinage interne, à filetage  
MJ, en acier résistant à chaud FE-PA2601 (A286), revêtus  
MoS2 - Classification : 1 100 MPa (à température  
ambiante) / 425° C - Spécification technique

Luft- und Raumfahrt - Muttern, selbstsichernd, MJ-  
Gewinde, aus hochwärmfestem Stahl FE-PA2601 (A286),  
MoS2-beschichtet - Klasse: 1 100 MPa (bei  
Raumtemperatur) / 425° C - Technische  
Lieferbedingungen

This European Standard was approved by CEN on 11 September 2003.

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.

CEN members are the national standards bodies of Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION  
COMITÉ EUROPÉEN DE NORMALISATION  
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## **Foreword**

This document (EN 3752:2004) has been prepared by the European Association of Aerospace Manufacturers - Standardization (AECMA-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 AECMA, 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 May 2005, and conflicting national standards shall be withdrawn at the latest by May 2005.

This document supersedes EN 3752:2003.

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, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

## EN 3752:2004 (E)

### 1 Scope

This standard specifies the characteristics; qualification and acceptance requirements for self-locking nuts with MJ threads in FE-PA2601, MoS<sub>2</sub> coated, for aerospace applications.

Classification: 1 100 MPa <sup>1)</sup> / 425 °C <sup>2)</sup>

It is applicable whenever referenced.

### 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 2859-1, | <i>Sampling procedures for inspection by attributes – Part 1: Sampling schemes indexed by acceptance quality limit (AQL) for lot-by-lot inspection</i> |
| ISO 3452,   | <i>Non-destructive testing – Penetrant inspection – General principles</i>   |
| ISO 4288,   | <i>Geometrical Product Specifications (GPS) – Surface texture: Profile method – Rules and procedures for the assessment of surface texture</i>         |
| ISO 5855-2, | <i>Aerospace – MJ threads – Part 2: Limit dimensions for bolts and nuts</i>  |
| ISO 7481,   | <i>Aerospace – Nuts, self-locking, with maximum operating temperature less than or equal to 425 °C – Test methods</i>                                  |
| EN 2491,    | <i>Aerospace series – Molybdenum disulphide dry lubricants – Coating methods</i>   |
| EN 9133,    | <i>Aerospace series – Quality management systems – Qualification procedure for aerospace standard parts <sup>3)</sup></i>                              |
- ASTM E 112-96, *Standard Test Methods for Determining Average Grain Size <sup>4)</sup>*

### 3 Terms and definitions

For the purposes of this standard, the following terms and definitions apply.

#### 3.1

##### **batch**

quantity of finished nuts, of the same type and same diameter, produced from the same material obtained from the same melt, manufactured in the course of the same production cycle, following the same manufacturing route and having undergone all the relevant heat treatments and surface treatments

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1) Correspond 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 test temperature of the parts

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

4) Published by: American Society for Testing and Materials (ASTM), 1916, Race Street, Philadelphia, PA 19103, USA

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