

**Aerospace series - Bolts, pan head, six lobe recess, normal shank, long thread, in titanium alloy TI-P63, MoS2 coated - Classification: 1 100 MPa (at ambient temperature)**

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 3725:2003 sisaldab Euroopa standardi EN 3725:2003 ingliskeelset teksti.

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Standard on kättesaadav Eesti standardiorganisatsioonist.

This Estonian standard EVS-EN 3725:2003 consists of the English text of the European standard EN 3725:2003.

This standard is ratified with the order of Estonian Centre for Standardisation dated 15.04.2003 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.

The standard is available from Estonian standardisation organisation.

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English version

Aerospace series - Bolts, pan head, six lobe recess, normal  
shank, long thread, in titanium alloy TI-P64001, MoS<sub>2</sub> coated -  
Classification: 1 100 MPa (at ambient temperature)

This European Standard was approved by CEN on 19 August 2002.

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 Management Centre or to any CEN member.

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EUROPEAN COMMITTEE FOR STANDARDIZATION  
COMITÉ EUROPÉEN DE NORMALISATION  
EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: rue de Stassart, 36 B-1050 Brussels

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## Foreword

This document EN 3725:2003 has been prepared by the European Association of Aerospace Manufacturers (AECMA).

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of an identical text or by endorsement, at the latest by August 2003, and conflicting national standards shall be withdrawn at the latest by August 2003.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, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and United Kingdom.

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## 1 Scope

This standard specifies the characteristics of pan head bolts with six lobe recess, normal shank and long thread, in TI-P64001, MoS<sub>2</sub> coated, for aerospace applications.

Strength class: 1 100 MPa <sup>1)</sup>

NOTE Taking account of the recess geometry, the strength class to be used for the seating torque calculation shall not be greater than 900 MPa.

## 2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text, and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

ISO 3353, *Aerospace - Lead and runout threads.*

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

EN 2424, *Aerospace series - Marking of aerospace products.*

EN 2491, *Aerospace series - Molybdenum disulphide dry lubricants - Coating methods.*

EN 3457, *Aerospace series - Titanium alloy TI-P63 - Not heat treated - Reference heat treatment - Solution treated and aged - Grade 2 forging stock for fasteners -  $D \leq 25$  mm.*

EN 3813, *Aerospace series - Titanium alloy TI-P64001 - Annealed - Bar and wire for forged fasteners -  $D_e \leq 25$  mm<sup>3)</sup>.*

EN 3818, *Aerospace series - Bolts with MJ threads, in titanium alloy TI-P64001 - Classification = 1 100 MPa (at ambient temperature) - Technical specification.*

EN 3905, *Aerospace series - Six lobe recesses for bolts - Technical specification<sup>2)</sup>.*

EN 3911, *Aerospace series - Six lobe recess - Geometrical definition<sup>3)</sup>.*

## 3 Required characteristics

### 3.1 Configuration – Dimensions – Tolerances

See Figure 1 and Tables 1 and 2. Dimensions and tolerances are in millimetres. They apply before MoS<sub>2</sub> coating.

### 3.2 Materials

EN 3457 or EN 3813

### 3.3 Surface treatment

EN 2491.

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1) Minimum tensile strength of the material at ambient temperature

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

3) In preparation at the date of publication of this standard