

Aerospace series - Screws, pan head, six lobe recess, normal shank, long thread, in titanium alloy TI-P64001, anodized, MoS2 coated - Strength class: 1 100 MPa (at ambient temperature)

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EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 3725:2005 sisaldab Euroopa standardi EN 3725:2004 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 25.01.2005 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 3725:2005 consists of the English text of the European standard EN 3725:2004.</p> <p>This document is endorsed on 25.01.2005 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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<p>Käsitlusala: This standard specifies the characteristics of pan head screws with six lobe recess, threaded to head, in TIP64001, anodised, MoS2 coated, for aerospace applications</p>	<p>Scope: This standard specifies the characteristics of pan head screws with six lobe recess, threaded to head, in TIP64001, anodised, MoS2 coated, for aerospace applications</p>
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ICS 49.030.20

Võtmesõnad:

English version

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Série aérospatiale - Vis à tête cylindrique, à empreinte six lobes, fût normal, filetage long, en alliage de titane TI-P64001, anodisées, revêtues MoS2 - Classe de résistance : 1 100 MPa (à température ambiante)

Luft- und Raumfahrt - Zylinderschrauben, Sechsbogenzahn, langes Gewinde, aus Titanlegierung TI-P64001, anodisiert, MoS2 beschichtet - Festigkeitsklasse: 1 100 MPa (bei Raumtemperatur)

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
EUROPÄISCHES KOMITEE FÜR NORMUNG

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

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Foreword

This document (EN 3725:2004) 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 3725:2003.

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.

1 Scope

This standard specifies the characteristics of pan head screws with six lobe recess, threaded to head, in TI-P64001, anodized, MoS₂ coated, for aerospace applications.

Strength class: 1 100 MPa ¹⁾

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

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 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*

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

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

EN 3813, *Aerospace series – Titanium alloy TI-P64001 – Annealed – Bar and wire for forged fasteners – $D_e \leq 25$ mm ²⁾*

EN 3818, *Aerospace series – Bolts, MJ threads, in titanium alloy TI-P64001 – Strength class: 1 100 MPa (at ambient temperature) – Technical specification*

EN 3905, *Aerospace series – Six lobe recesses for bolts – Technical specification ²⁾*

EN 3911, *Aerospace series – Six lobe recess – Geometrical definition*

3 Required characteristics

3.1 Configuration – Dimensions – Tolerances – Masses

See Figure 1 and Tables 1 and 2.

Dimensions and tolerances are in millimetres. They apply after anodizing but before MoS₂ coating.

3.2 Materials

EN 3813

3.3 Surface treatment

EN 2491

1) Minimum tensile strength of the material at ambient temperature

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