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Aerospace series - Screws, 100° countersunk normal head, offset cruciform recess, close tolerance shank, short thread in titanium alloy, aluminium IVD coated - Classification: 1 100 MPa (at ambient temperature) / 425 °C

EESTI STANDARDIKESKUS
ESTONIAN CENTRE FOR STANDARDISATION

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 4072:2016 sisaldab konsolideeritult Euroopa standardi EN 4072:2016 ja selle paranduse EN 4072:2016/AC:2017 ingliskeelset teksti.	This Estonian standard EVS-EN 4072:2016 consists of the consolidated English text of the European standard EN 4072:2016 and its corrigendum EN 4072:2016/AC:2017.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 23.03.2016.	Date of Availability of the European standard is 23.03.2016.
Standard on kättesaadav Eesti Standardikeskusest.	The standard is available from the Estonian Centre for Standardisation.

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ICS 49.030.20

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 4072

March 2016

ICS 49.030.20

Supersedes EN 4072:2009

English Version

Aerospace series - Screws, 100° countersunk normal head, offset cruciform recess, close tolerance shank, short thread in titanium alloy, aluminium IVD coated - Classification: 1 100 MPa (at ambient temperature) / 425 °C

Série aérospatiale - Vis à tête fraisée 100° normale, à empreinte cruciforme déportée, fût à tolérance serrée, filetage court, en alliage de titane, revêtues aluminium IVD - Classification: 1 100 MPa (à température ambiente) /425 °C

Luft- und Raumfahrt - 100° Senkschrauben mit Flügelkreuzschlitz, kurzes Gewinde, aus Titanlegierung, Aluminium IVD beschichtet - Klasse: 1 100 Mpa (bei Raumtemperatur) / 425 °C

This European Standard was approved by CEN on 27 September 2015.

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-CENELEC 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-CENELEC Management Centre has the same status as the official versions.

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

This document consolidates EN 4072:2016 and the corrigendum EN 4072:2016/AC:2017.

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

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

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Ref. No. EN 4072:2016 E

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European Foreword

This document (EN 4072:2016) 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 2016, and conflicting national standards shall be withdrawn at the latest by September 2016.

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.

This document supersedes EN 4072:2009.

This document includes the corrigendum EN 4072:2016/AC:2017 which corrects the figure and Table 3 in Clause 4.

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, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

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1 Scope

This standard specifies the characteristics of screws, 100° countersunk normal head, offset cruciform recess, close tolerance shank, short thread, in titanium alloy, aluminium IVD coated.

Classification: 1 100 MPa[1)] / 425 °C[2)].

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

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

EN 4016, *Aerospace series — Oversized bolts*

EN 6118, *Aerospace series — Process specification — Aluminium base protection for fasteners*

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

EN 9133, *Aerospace series — Quality management systems — Qualification procedure for aerospace standard parts*

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 5856, *Aerospace — Screws, 100 degrees normal countersunk head, internal offset cruciform ribbed or unribbed drive, 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 7913, *Aerospace — Bolts and screws, metric — Tolerances of form and position*

ISO 9152, *Aerospace — Bolts, with MJ threads, in titanium alloys, strength class 1 100 MPa — Procurement specification*

ISO 14275, *Aerospace — Drives, internal, offset cruciform, ribbed — Metric series*

ISO 14276, Aerospace — Drives, internal, offset cruciform — Metric series

TR 3775, *Aerospace series — Bolts and pins — Materials*

MIL-DTL-83488, *Coating, aluminum, high purity*

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

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

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