



NSAI
Standards

Irish Standard
I.S. EN 4072:2016&AC:2017

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

I.S. EN 4072:2016&AC:2017

Incorporating amendments/corrigenda/National Annexes issued since publication:

EN 4072:2016/AC:2017

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I.S. xxx: Irish Standard — national specification based on the consensus of an expert panel and subject to public consultation.

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SWiFT xxx: A rapidly developed recommendatory document based on the consensus of the participants of an NSAI workshop.

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Údarás um Chaighdeáin Náisiúnta na hÉireann

National Foreword

I.S. EN 4072:2016&AC:2017 is the adopted Irish version of the European Document EN 4072:2016, 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

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In line with international standards practice the decimal point is shown as a comma (,) throughout this document.

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EUROPEAN STANDARD

EN 4072:2016/AC

NORME EUROPÉENNE

June 2017

EUROPÄISCHE NORM

Juin 2017

Juni 2017

ICS 49.030.20

English version
Version Française
Deutsche Fassung

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 aéronautique - 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 ambiante) / 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 corrigendum becomes effective on 28 June 2017 for incorporation in the official English version of the EN.

Ce corrigendum prendra effet le 28 juin 2017 pour incorporation dans la version anglaise officielle de la EN.

Die Berichtigung tritt am 28. Juni 2017 zur Einarbeitung in die offizielle Englische Fassung der EN in Kraft.



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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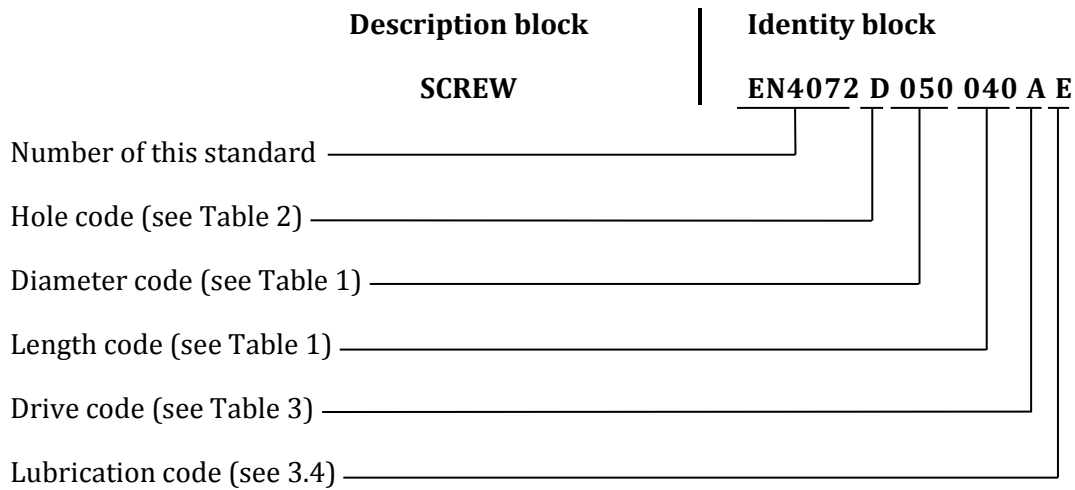
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EN 4072:2016/AC:2017 (E)

1 Modifications to Clause 4, Designation

Replace the figure with the following one:

"



Replace Table 3 with the following one:

"

Table 3

Drive	Code
ISO 14276 Unribbed	A
ISO 14275 Ribbed	R

"

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 aéronautique - 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
ambiante) / 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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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 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.

EN 4072:2016 (E)**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 MPa¹⁾ / 425 °C²⁾.

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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