BSI Standards Publication

Aerospace series — Screw, 100° countersunk reduced head, offset cruciform recess, close tolerance shank, short thread, in titanium alloy, anodized, MoS2 lubricated — Classification: 1 100 MPa (at ambient temperature)/315 °C — Inch series

bsi.

National foreword

This British Standard is the UK implementation of EN 6024:2024.

The UK participation in its preparation was entrusted to Technical Committee ACE/12, Aerospace fasteners and fastening systems.

A list of organizations represented on this committee can be obtained on request to its committee manager.

Contractual and legal considerations

This publication has been prepared in good faith, however no representation, warranty, assurance or undertaking (express or implied) is or will be made, and no responsibility or liability is or will be accepted by BSI in relation to the adequacy, accuracy, completeness or reasonableness of this publication. All and any such responsibility and liability is expressly disclaimed to the full extent permitted by the law.

This publication is provided as is, and is to be used at the recipient's own risk.

The recipient is advised to consider seeking professional guidance with respect to its use of this publication.

This publication is not intended to constitute a contract. Users are responsible for its correct application.

Published by BSI Standards Limited 2024

ISBN 978 0 539 18316 0

ICS 49.030.20

Compliance with a British Standard cannot confer immunity from legal obligations.

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 31 July 2024.

Amendments/corrigenda issued since publication

Date	Text affected

EUROPEAN STANDARD **EN 6024**

NORME EUROPÉENNE

EUROPÄISCHE NORM

July 2024

ICS 49.030.20

English Version

Aerospace series - Screw, 100° countersunk reduced head, offset cruciform recess, close tolerance shank, short thread, in titanium alloy, anodized, MoS2 lubricated - Classification: 1 100 MPa (at ambient temperature)/315 °C - Inch series

Série aérospatiale - Vis à tête fraisée 100° réduite, à empreinte cruciforme déportée, tige à tolérance serrée, filetage court, en alliage de titane, anodisée, lubrifiée au MoS2 - Classification : 1 100 MPa (à température ambiante)/315 °C - Série en inches

Luft- und Raumfahrt - 100° Senk-Passschraube mit reduziertem Kopf, Flügelkreuzschlitz, enge Toleranz, kurzes Gewinde, aus Titanlegierung, anodisiert, MoS2-geschmiert - Klasse: 1 100 MPa (bei Raumtemperatur)/315 °C - Zoll-Reihe

This European Standard was approved by CEN on 8 April 2024.

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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

Ref. No. EN 6024:2024 E

Contents

Page

European foreword

This document (EN 6024:2024) has been prepared by ASD-STAN.

After enquiries and votes carried out in accordance with the rules of this Association, this document has received the approval of the National Associations and the Official Services of the member countries of ASD-STAN, 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 January 2025, and conflicting national standards shall be withdrawn at the latest by January 2025.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

Any feedback and questions on this document should be directed to the users' national standards body. A complete listing of these bodies can be found on the CEN website.

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

1 Scope

This document specifies the characteristics for screws, 100° countersunk reduced head, offset cruciform recess, close tolerance shank, short thread, in titanium alloy, anodized, MoS_2 lubricated, classification 1 100 MPa[1]/315 °C[2], inch series, for aerospace applications.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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.

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

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

EN 2532:1996-12,[3] *Titanium alloy Ti-P68 — 1 100 ≤ Rm ≤ 1 280 MPa — Bar — De ≤ 25 mm*

ISO 3161, *Aerospace — UNJ threads — General requirements and limit dimensions*

ISO 3353-1, *Aerospace — Lead and runout threads — Part 1: Rolled external threads*

TR 3775,[4] *Bolts and pins — Materials*

MIL-B-87114,[5] *Bolts, Recess Drive, General Specification for (S/S by NAS4002 and NAS4003)*

NAS527,[6] *Inspection procedure for flush fasteners*

NAS621,[6] *Fasteners, titanium alloy procurement specification*

NASM 33781,[6] *Recess, offset cruciform, dimensions of recess, gage and driver for*

ATA iSpec 2200,[7] *Information Standards for Aviation Maintenance*

3 Terms and definitions

No terms and definitions are listed in this document.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at https://www.electropedia.org/

---

1 Minimum tensile strength of the material at ambient temperature.

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

3 Published as ASD-STAN Standard at the date of publication of this standard.

4 Published as ASD-STAN Technical Report at the date of publication of this standard.

5 Published by Department of Defense (DoD), available at: https://assist.dla.mil/

6 Published by Aerospace Industries Association (AIA), available at: https://www.aia-aerospace.org/

7 Published by Air Transport Association of America, Inc. (ATA), available at: https://publications.airlines.org/