STN

Letectvo a kozmonautika
Skrutky so 100° zapustenou hlavou, špirálovou
drážkou, normálnym driekom, krátkym závitom, zo
zliatiny titánu, s hliníkovým IVD povlakom
Trieda: 1 100 MPa (pri teplote okolia)/425 °C

STN EN 4849

31 3158

Aerospace series - Screw, 100 countersunk normal head, Spiral Drive Recess, close tolerance normal shank, short thread, in titanium alloy, aluminium IVD coated - Classification: 1 100 MPa (at ambient temperature)/425 C

Táto norma obsahuje anglickú verziu európskej normy. This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 06/22

Obsahuje: EN 4849:2022

EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

EN 4849

March 2022

ICS 49.030.20

English Version

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

Série aérospatiale - Vis à tête fraisée normale 100°, empreinte en spirale, tige normale à tolérance large, filetage court, en alliage de titane, revêtue d'aluminium IVD - Classification : 1 100 MPa (à température ambiante)/425 °C

Luft- und Raumfahrt - 100° Senkschraube mit Spiral Antrieb, enge Schafttoleranz, kurzes Gewinde, aus Titanlegierung, Aluminium IVD beschichtet - Klasse: 1 100 MPa (bei Raumtemperatur)/425°C

This European Standard was approved by CEN on 10 January 2022.

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

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

EN 4849:2022 (E)

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European foreword

This document (EN 4849:2022) 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of an identical text or by endorsement, at the latest by September 2022, and conflicting national standards shall be withdrawn at the latest by September 2022.

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.

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, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

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Introduction

Aerospace and Defence Standardisation (ASD-STAN) draws attention to the fact that it is claimed that compliance with this document may involve the use of a patent "Spiral Drive System for Threaded Fasteners" EP1025370B1.

ASD-STAN takes no position concerning the evidence, validity and scope of this patent right.

The holder of this patent right has assured ASD-STAN that he/she is willing to negotiate licences under reasonable and non-discriminatory terms and conditions with applicants throughout the world. In this respect, the statement of the holder of this patent right is registered with ASD-STAN. Information may be obtained from:

Phillips Screw Company 301 Edgewater Drive, Suite 320 Wakefield, Massachusetts 01880 USA

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights other than those identified above. ASD-STAN shall not be held responsible for identifying any or all such patent rights.

1 Scope

This document specifies the characteristics of externally threaded fasteners, 100° countersunk normal head, Spiral Drive Recess, close tolerance normal shank, short thread, in titanium alloy, aluminium IVD coated, for aerospace applications.

Classification: 1 100 MPa1/425 °C2

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 3813, Aerospace series — Titanium alloy TI-P64001 (Ti-6Al-4V) — Annealed — Bar and wire for forged fasteners — De \leq 50 mm

EN 4016, Aerospace series — Oversized bolts³

EN 4609, Aerospace series — Spiral drive recesses for threaded fasteners — Geometrical definition and technical requirements

EN 6117, Aerospace series — Specification for lubrication of fasteners with cetyl alcohol³

EN 6118, Aerospace series — Process specification — Aluminium base protection for fasteners³

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 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

MIL-DTL-5541, Chemical Conversion Coatings on Aluminum and Aluminum Alloys⁴

koniec náhľadu – text ďalej pokračuje v platenej verzii STN

Minimum tensile strength of the material at ambient temperature.

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

Published as ASD-STAN Prestandard at the date of publication of this standard by AeroSpace and Defence Industries Association of Europe – Standardization (ASD-STAN) (www.asd-stan.org).

Published by: Department of Defense (DoD), The Pentagon, Washington, D.C. 20301, USA.