

STN	Letectvo a kozmonautika Kíbové ložiská so samomaznou vrstvou, s extra širokým vnútorným krúžkom z nehrdzavejúcej ocele Rozmery a zaťaženia Palcový rad	STN EN 6096 31 4829
------------	---	---

Aerospace series - Bearing, spherical plain with self-lubricating liner, extra wide inner ring in corrosion resisting steel - Dimensions and loads - Inch series

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. 10/19

Obsahuje: EN 6096:2019

129445

EUROPEAN STANDARD

EN 6096

NORME EUROPÉENNE

EUROPÄISCHE NORM

May 2019

ICS 49.035

English Version

Aerospace series - Bearing, spherical plain with self-lubricating liner, extra wide inner ring in corrosion resisting steel - Dimensions and loads - Inch series

Série aérospatiale - Rotule lisse, à garniture autolubrifiante, bague intérieure extra large en acier résistant à la corrosion - Dimensions et charges - Série en inches

Luft- und Raumfahrt - Gelenklager mit selbstschmierender Beschichtung, extra breitem Innenring aus korrosionsbeständigem Stahl - Maße und Belastungen - Inch-Reihe

This European Standard was approved by CEN on 5 November 2018.

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



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

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

Contents

	Page
European foreword.....	3
Introduction	4
1 Scope.....	5
2 Normative references.....	5
3 Terms, definitions and symbols.....	5
4 Requirements.....	6
4.1 Configuration, dimensions, tolerances and mass.....	6
4.2 Surface roughness.....	6
4.3 Material.....	11
4.4 Surface treatment	11
4.5 Swaging groove	11
4.6 Liner technology.....	11
4.7 Loads.....	12
4.8 Starting torque values	13
4.9 Temperature range	13
5 Designation.....	14
6 Marking.....	14
7 Technical specification.....	14
8 Quality management system.....	14
Annex A (informative) Standard evolution form.....	15
Bibliography.....	16

European foreword

This document (EN 6096:2019) 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 November 2019, and conflicting national standards shall be withdrawn at the latest by November 2019.

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.

EN 6096:2019 (E)**Introduction**

This document is published at edition P2. Former P1 and drafts may exist of Airbus development only but without any ASD-STAN official publication. In consequence configuration management discrepancies with these unofficial documents are under Airbus responsibility.

1 Scope

This European standard specifies general characteristics of spherical plain bearings in corrosion resisting steel with self-lubricating liner, extra wide inner ring, inch series.

They are intended for use in fixed or moving parts of the aircraft structure and control mechanisms.

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 2030, *Aerospace series — Steel X105CrMo17 (1.3544) — Hardened and tempered — Bars — $D_e \leq 150$ mm*

EN 2133, *Aerospace series — Cadmium plating of steels with specified tensile strength $\leq 1\,450$ MPa, copper, copper alloys and nickel alloys*

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

EN 2755, *Aerospace series — Bearing, spherical plain in corrosion resisting steel with self-lubricating liner — Elevated load at ambient temperature — Technical specification*

EN 3161, *Aerospace series — Steel FE-PM3801 (X5CrNiCu17-4) — Air melted, solution treated and precipitation treated, bar a or $D \leq 200$ mm, $R_m \geq 930$ MPa*

ISO 1132-1, *Rolling bearings — Tolerances — Part 1: Terms and definitions*

ISO 8075, *Aerospace — Surface treatment of hardenable stainless steel parts*

TR 4475, *Aerospace series — Bearings and mechanical transmissions for airframe applications — Vocabulary*¹

koniec náhľadu – text ďalej pokračuje v platenej verzii STN

¹ Published as ASD-STAN Technical Report at the date of publication of this European standard by AeroSpace and Defence industries Association of Europe – Standardization (ASD-STAN) (see www.asd-stan.org).