

Irish Standard I.S. EN 6096:2019

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

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I.S. EN 6096:2019

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National Foreword

I.S. EN 6096:2019 is the adopted Irish version of the European Document EN 6096:2019, Aerospace series - Bearing, spherical plain with self-lubricating liner, extra wide inner ring in corrosion resisting steel - Dimensions and loads - Inch series

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EN 6096 **EUROPEAN STANDARD**

EUROPÄISCHE NORM

NORME EUROPÉENNE

May 2019

ICS 49.035

English Version

Aerospace series - Bearing, spherical plain with selflubricating 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.

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EN 6096:2019 (E)

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	Scope

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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of an identical text or by endorsement, at the latest by November 2019, and conflicting national standards shall be withdrawn at the latest by November 2019.

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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 — $D_{\rho} \le 150 \text{ mm}$

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 $D \le 200$ mm, $R_m \ge 930$ 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 — $Vocabulary^1$

3 Terms, definitions and symbols

For the purposes of this document, the terms and definitions given in TR 4475 apply.

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

- ISO Online browsing platform: available at http://www.iso.org/obp
- IEC Electropedia: available at http://www.electropedia.org/

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).



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