

Irish Standard I.S. EN 6097:2019

Aerospace series - Bearing, spherical plain, metal to metal, extra wide inner ring in corrosion resisting steel - Dimensions and loads - Inch series

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I.S. EN 6097:2019

2019-05-19

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Published:

This document is based on:

EN 6097:2019 2019-05-01

This document was published ICS number:

under the authority of the NSAI
and comes into effect on:
49.035

NOTE: If blank see CEN/CENELEC cover page

NSAI T +353 1 807 3800 Sales:

 1 Swift Square,
 F +353 1 807 3838
 T +353 1 857 6730

 Northwood, Santry
 E standards@nsai.ie
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National Foreword

I.S. EN 6097:2019 is the adopted Irish version of the European Document EN 6097:2019, Aerospace series - Bearing, spherical plain, metal to metal, extra wide inner ring in corrosion resisting steel - Dimensions and loads - Inch series

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EUROPEAN STANDARD

EN 6097

NORME EUROPÉENNE

EUROPÄISCHE NORM

May 2019

ICS 49.035

English Version

Aerospace series - Bearing, spherical plain, metal to metal, extra wide inner ring in corrosion resisting steel -Dimensions and loads - Inch series

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

Luft- und Raumfahrt - Gelenklager, Metall auf Metall, extra breiter Innenring aus korrosionsbeständigem Stahl - Maße und Belastungen, Inch-Reihe

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

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

EN 6097:2019 (E)

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European foreword

This document (EN 6097:2019) 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of an identical text or by endorsement, at the latest by November 2019, and conflicting national standards shall be withdrawn at the latest by November 2019.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 6097:2019 (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 the characteristics of inch based spherical plain bearings, metal to metal, in corrosion resisting steel, extra wide inner ring inch series.

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

The slide hole treatment either at the outer ring or inner ring.

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 2030, Aerospace series — Steel X105CrMo17 (1.3544) — Hardened and tempered — Bars — $D_e \le 150 \text{ mm}$

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

EN 2337, Aerospace series — Spherical plain bearings — Technical Specification

EN 2424, Aerospace series — Marking of aerospace products

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

MIL-PRF-23827, Grease, aircraft and instrument, gear and actuator screw, NATO code No.G-354 metric¹

MIL-PRF-46010, Lubricant, solid film, heat cured, corrosion — inhibiting, NATO Code-S-1738¹

MIL-PRF-81322, Grease, aircraft, general purpose, wide temperature range, NATO Code G-395¹

TR 4475, Aerospace series — Bearings and mechanical transmissions for airframe applications — Vocabulary²

¹ Published by: Department of Defense (DoD), the Pentagon, Washington, D.C., 20307, USA.

² 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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