

Irish Standard I.S. EN 2311:2017

Aerospace series - Bushes with selflubricating liner - Technical specification

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NSAI	T +353 1 807 3800	Sales:
1 Swift Square,	F +353 1 807 3838	T +353 1 857 6730
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#### **National Foreword**

I.S. EN 2311:2017 is the adopted Irish version of the European Document EN 2311:2017, Aerospace series -Bushes with self-lubricating liner - Technical specification

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# EUROPEAN STANDARD NORME EUROPÉENNE

# EN 2311

# **EUROPÄISCHE NORM**

March 2017

ICS 49.035

Supersedes EN 2311:2012

**English Version** 

## Aerospace series - Bushes with self-lubricating liner -Technical specification

Série aérospatiale - Bagues avec garniture autolubrifiante - Spécification technique

Luft- und Raumfahrt - Buchsen mit selbstschmierender Beschichtung - Technische Lieferbedingungen

This European Standard was approved by CEN on 2 January 2017.

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**CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels** 

## EN 2311:2017 (E)

## Contents

Europe	ean foreword	3
1	Scope	4
2	Normative references	4
3	Terms and definitions	5
4	Required characteristics, inspection and test methods	7
5	Quality assurance	11
6	Acceptance conditions	12
7	Packaging	12
8	Certificate of compliance	13
Annex A (normative) Testing of permissible and ultimate static loads		15
A.1	Permissible radial static loads (C <sub>S</sub> )	15
A.2	Ultimate radial static loads	15
A.3	Permissible axial static loads (Ca)	16
A.4	Ultimate axial static loads	17
Annex B (normative) Testing of permissible radial dynamic loads (C25)		19
B.1	Principle	. 19
B.2	Method	19
Annex	C (normative) Fluids — Essential characteristics	22
<b>C.1</b>	Fuel for turbine aero engine	22
<b>C.2</b>	Fluids for de-icing circuit	22
<b>C.3</b>	Hydraulic fluids	22
<b>C.4</b>	De-icing and anti-icing fluids	23
Annex	D (normative) Resistance of the liner to peeling	24
D.1	Principle	24
D.2	Method	24
Annex	E (normative) Measurement of friction coefficient for EN 4534-2, EN 4535-2, EN 4536-2	
	and EN 4537-2 (for inch size only)	25
E.1	Principle	25
E.2	Starting torque under load $C_{25}$ at room temperature	25
Annex	F (informative) Permissible unit pressure	27
Annex	G (informative) Standard evolution form	28

### **European foreword**

This document (EN 2311:2017) 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 2017, and conflicting national standards shall be withdrawn at the latest by September 2017.

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#### 1 Scope

This document specifies the required characteristics, inspections and tests, quality assurance and qualification, acceptance and delivery conditions for bushes, designed to be subjected under load, to slow sliding movements, rotations and small oscillations only for aerospace applications.

This standard applies to all bushes when referred to in the respective product standards or in a design documentation.

The liner is designed to be used in the temperature range of -50 °C to 163 °C. Aluminium bushes are limited to -55 °C to 121 °C.

#### 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 2285, Aerospace series — Bushes, plain, aluminium alloy, with self-lubricating liner — Dimensions and loads

EN 2286, Aerospace series — Bushes, flanged aluminium alloy, with self-lubricating liner — Dimensions and loads

EN 2287, Aerospace series — Bushes, plain corrosion resisting steel, with self-lubricating liner — Dimensions and loads

EN 2288, Aerospace series — Bushes, flanged, corrosion resisting steel, with self-lubricating liner — Dimensions and loads

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

EN 4534-2, Aerospace series — Bushes, plain in aluminium alloy with self-lubricating liner, elevated load — Part 2: Dimensions and loads — Inch series

EN 4535-2, Aerospace series — Bushes, flanged in aluminium alloy with self-lubricating liner, elevated load — Part 2: Dimensions and loads — Inch series

EN 4536-2, Aerospace series — Bushes, plain in corrosion resisting steel with self-lubricating liner, elevated load — Part 2: Dimensions and loads — Inch series

EN 4537-2, Aerospace series — Bushes, flanged in corrosion-resisting steel with self-lubricating liner, elevated load — Part 2: Dimensions and loads — Inch series

EN 9100, Quality Management Systems — Requirements for Aviation, Space and Defense Organizations

EN 9133, Aerospace series — Quality management systems — Qualification procedure for aerospace standard parts

EN 10204, Metallic products — Types of inspection documents

EN ISO 8785, Geometrical Product Specification (GPS) — Surface imperfections — Terms, definitions and parameters



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