



NSAI
Standards

Irish Standard
I.S. EN 2287:2017

Aerospace series - Bush, plain, in corrosion resisting steel with self-lubricating liner - Dimensions and loads

© CEN 2017 No copying without NSAI permission except as permitted by copyright law.

I.S. EN 2287:2017

Incorporating amendments/corrigenda/National Annexes issued since publication:

The National Standards Authority of Ireland (NSAI) produces the following categories of formal documents:

I.S. xxx: Irish Standard — national specification based on the consensus of an expert panel and subject to public consultation.

S.R. xxx: Standard Recommendation — recommendation based on the consensus of an expert panel and subject to public consultation.

SWiFT xxx: A rapidly developed recommendatory document based on the consensus of the participants of an NSAI workshop.

This document replaces/revises/consolidates the NSAI adoption of the document(s) indicated on the CEN/CENELEC cover/Foreword and the following National document(s):

NOTE: The date of any NSAI previous adoption may not match the date of its original CEN/CENELEC document.

This document is based on:

EN 2287:2017

Published:

2017-08-30

This document was published under the authority of the NSAI and comes into effect on:

2017-09-17

ICS number:

49.030.99

NOTE: If blank see CEN/CENELEC cover page

NSAI
1 Swift Square,
Northwood, Santry
Dublin 9

T +353 1 807 3800
F +353 1 807 3838
E standards@nsai.ie
W NSAI.ie

Sales:
T +353 1 857 6730
F +353 1 857 6729
W standards.ie

Údarás um Chaighdeáin Náisiúnta na hÉireann

National Foreword

I.S. EN 2287:2017 is the adopted Irish version of the European Document EN 2287:2017, Aerospace series - Bush, plain, in corrosion resisting steel with self-lubricating liner - Dimensions and loads

This document does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

For relationships with other publications refer to the NSAI web store.

Compliance with this document does not of itself confer immunity from legal obligations.

In line with international standards practice the decimal point is shown as a comma (,) throughout this document.

This is a free 8 page sample. Access the full version online.

This page is intentionally left blank

EUROPEAN STANDARD

EN 2287

NORME EUROPÉENNE

EUROPÄISCHE NORM

August 2017

ICS 49.030.99

Supersedes EN 2287:1989

English Version

Aerospace series - Bush, plain, in corrosion resisting steel with self-lubricating liner - Dimensions and loads

Série aérospatiale - Bagues cylindriques en acier
résistant à la corrosion à garniture autolubrifiante -
Dimensions et charges

Luft- und Raumfahrt - Buchse ohne Flansch aus
korrosionsbeständigem Stahl mit selbstschmierender
Beschichtung - Maße und Belastungen

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

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: Avenue Marnix 17, B-1000 Brussels

Contents

	Page
European foreword.....	3
1 Scope.....	4
2 Normative references.....	4
3 Required characteristics	4
3.1 Configuration – Dimensions – Masses.....	4
3.2 Surface roughness.....	4
3.3 Materials.....	4
4 Designation.....	8
5 Marking.....	8
6 Technical specification.....	8
7 Design recommendation	9

European foreword

This document (EN 2287:2017) 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 February 2018, and conflicting national standards shall be withdrawn at the latest by February 2018.

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.

This document supersedes EN 2287:1989.

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.

1 Scope

This European Standard specifies the characteristics of plain bushes in corrosion resisting steel with self-lubricating liner and the design recommendation of shafts and housings.

The bushes are intended for operation within the temperature range of 55 °C to 163 °C and assembly with an interference fit into fixed and moving aerospace parts.

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 2136, *Aerospaces — Steel FE-PM 42, $900 \text{ MPa} \leq R_m \leq 1100 \text{ MPa}$, bars $D_e \leq 100 \text{ mm}^1$*

EN 2311, *Aerospace series — Bushes with self-lubricating liners — Technical specification*

EN 2539, *Aerospace series — Steel FE-PM3801 (X5CrNiCu17-4) — Air melted — Solution annealed and precipitation treated — Bar, a or $D \leq 200 \text{ mm}$, $R_m \geq 965 \text{ MPa}^2$*

3 Required characteristics

3.1 Configuration - Dimensions - Masses

Configuration: according to Figure 1.

Dimensions, masses: according to Figure 1 and Table 1.

3.2 Surface roughness

According to Figure 1.

3.3 Materials

Bush: Steel according to EN 2136 or EN 2539.

Liner: Self-lubricating wear resistant material consistent with the requirements of EN 2311.

1) Published as ASD-STAN Standard at the date of publication of this standard. <http://www.asd-stan.org/>

2) Published as ASD-STAN Prestandard at the date of publication of this standard.

This is a free preview. Purchase the entire publication at the link below:

I.S. EN 2287 : 2017 : EN : COMBINED PDF

-
- ⊙ Looking for additional Standards? Visit SAI Global Infostore
 - ⊙ Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation
-

Need to speak with a Customer Service Representative - Contact Us