

<b>STN</b>	<b>Letectvo a kozmonautika Puzdrá zo zliatiny hliníka, so samomaznou vrstvou Rozmery a zaťaženia</b>	<b>STN EN 2285</b>  31 4860
------------	--	---------------------------------------

Aerospace series - Bush, plain, aluminium alloy, with self-lubricating liner - Dimensions and loads

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. 06/25

Obsahuje: EN 2285:2025

Oznámením tejto normy sa ruší  
STN EN 2285 (31 4860) z novembra 2017

**140715**

EUROPEAN STANDARD

EN 2285

NORME EUROPÉENNE

EUROPÄISCHE NORM

April 2025

ICS 49.030.99

Supersedes EN 2285:2017

English Version

## Aerospace series - Bush, plain, aluminium alloy, with self-lubricating liner - Dimensions and loads

Série aérospatiale - Bague cylindrique, en alliage d'aluminium, à garniture autolubrifiante - Dimensions et charges

Luft- und Raumfahrt - Buchse aus Aluminium-Legierung mit selbstschmierender Beschichtung - Maße und Belastungen

This European Standard was approved by CEN on 27 January 2025.

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, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye 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**

**EN 2285:2025 (E)**

<b>Contents</b>		<b>Page</b>
<b>European foreword .....</b>		<b>3</b>
<b>1</b>	<b>Scope.....</b>	<b>4</b>
<b>2</b>	<b>Normative references.....</b>	<b>4</b>
<b>3</b>	<b>Terms and definitions.....</b>	<b>4</b>
<b>4</b>	<b>Required characteristics.....</b>	<b>4</b>
<b>4.1</b>	<b>Configuration - Dimensions - Masses .....</b>	<b>4</b>
<b>4.2</b>	<b>Surface roughness .....</b>	<b>4</b>
<b>4.3</b>	<b>Materials and temperature range.....</b>	<b>5</b>
<b>4.4</b>	<b>Surface treatment.....</b>	<b>5</b>
<b>5</b>	<b>Designation .....</b>	<b>9</b>
<b>6</b>	<b>Marking .....</b>	<b>10</b>
<b>7</b>	<b>Technical specification .....</b>	<b>10</b>
<b>8</b>	<b>Design recommendation .....</b>	<b>10</b>

## European foreword

This document (EN 2285:2025) has been prepared by ASD-STAN.

After enquiries and votes carried out in accordance with the rules of this Association, this document has received the approval of the National Associations and the Official Services of the member countries of ASD-STAN, 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 October 2025, and conflicting national standards shall be withdrawn at the latest by October 2025.

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 2285:2017.

This document includes the following significant technical changes with respect to EN 2285:2017:

- normative references updated;
- EN 2424 introduced for marking;
- subclause 4.3 “Materials”: the different application temperatures of the possible materials are taken into account by a new additional code letter.

Any feedback and questions on this document should be directed to the users’ national standards body. A complete listing of these bodies can be found on the CEN website.

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, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.

**EN 2285:2025 (E)****1 Scope**

This document specifies the characteristics of plain bushes in aluminium alloy with self-lubricating liner and the design recommendation of shafts and housings.

The bushes are intended for use in assembly with an interference fit into fixed and moving aerospace parts.

**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 2086, *Aerospace series — Aluminium alloy AL-P2618A-T851 — Hand and die forgings —  $a \leq 150$  mm*

EN 2101, *Aerospace series — Chromic acid anodizing of aluminium and wrought aluminium alloys*

EN 2284, *Aerospace series — Sulphuric acid anodizing of aluminium and wrought aluminium alloys*

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

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

EN 2701,<sup>1</sup> *Aerospace series — Aluminium alloy (2024) — Solution treated, water quench, cold worked and naturally aged (T3) — Drawn tube for structures —  $0,6 \leq a \leq 12,5$  mm*

EN 2704, *Aerospace series — Aluminium alloy AL-P2024 — AlCu4Mg1 - T3511 — Drawn bars —  $D_e \leq 75$  mm*

**koniec náhľadu – text ďalej pokračuje v platenej verzii STN**

---

<sup>1</sup> Published as ASD-STAN prEN at the date of publication of this document, available at: <https://www.asd-stan.org/>.