

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

DRAFT
prEN 4266

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Will supersede EN 4266:2013

English Version

**Aerospace series - Bearing spherical plain, metal to metal,
in corrosion resisting steel, cadmium plated - Wide series -
Dimensions and loads - Inch series**

Série aérospatiale - Rotule lisse, métal à métal en acier
résistant à la corrosion, cadmiée - Série large -
Dimensions et charges - Série en inches

Luft- und Raumfahrt - Gelenklager, Metall auf Metall,
aus korrosionsbeständigem Stahl, kadmiert - Breite
Reihe - Maße und Belastungen - Inch Reihe

This draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee ASD-STAN.

If this draft becomes a European Standard, 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.

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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
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European foreword

This document (prEN 4266:2024) 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 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 document is currently submitted to the CEN Enquiry.

This document will supersede EN 4266:2013.

prEN 4266:2024 includes the following significant technical changes with respect to EN 4266:2013:

- Value for the outer diameter for diameter code 05 in Table 1 corrected;
- Reference on TR 4661 for alternative materials added.
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prEN 4266:2024 (E)

1 Scope

This document specifies the characteristics of spherical plain bearings, metal to metal, in corrosion resisting steel, cadmium plated and chromated, wide series, inch series for aerospace applications.

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

They are used in the temperature range - 54 °C to 150 °C. As they are lubricated by means of the following greases:

- Code A: Grease as per MIL-PRF-23827C, operating temperature range - 73 °C to 121 °C;
- Code B: Grease as per MIL-PRF-81322G, operating temperature range - 54 °C to 177 °C.

The range of application for bearings lubricated with grease per code A is limited to 121 °C.

In both cases it is important to provide the spherical surface of the outer or inner ring with a dry-film lubricant as per MIL-PRF-46010G or equivalent (anti-seizing protection).

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

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 — De ≤ 150 mm*

EN 2133, *Aerospace series — Cadmium plating of steels with specified tensile strength ≤ 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 ≤ 200 mm, Rm ≥ 930 MPa*

ISO 1132-1, *Rolling bearings — Tolerances — Part 1: Terms and definitions*

ISO 8075, *Aerospace — Surface treatment of hardenable stainless steel parts*

TR 4475,¹ *Aerospace series — Bearings and mechanical transmissions for airframe applications — Vocabulary*

TR 4661,¹ *Aerospace series — Bearings, flight controls — Materials and surface treatments*

¹ Published as ASD-STAN Technical Report at the date of publication of this document (www.asd-stan.org).