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STN	**Letectvo a kozmonautika Kĺbové ložiská z nehrdzavejúcej ocele s montážnymi drážkami Rozmery a zaťaženia**	**STN EN 2588** 31 4815

Aerospace series - Bearing, spherical plain in corrosion resisting steel with assembly slots - Dimensions and loads

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

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EN 2588

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Supersedes EN 2588:2006

English Version

Aerospace series - Bearing, spherical plain in corrosion resisting steel with assembly slots - Dimensions and loads

Série aérospatiale - Rotule lisse en acier résistant à la corrosion avec encoches d'assemblage - Dimensions et charges

Luft- und Raumfahrt - Gelenklager aus korrosionsbeständigem Stahl mit Einführnut - Maße und Belastungen

This European Standard was approved by CEN on 9 September 2024.

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European foreword

This document (EN 2588:2024) 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 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of an identical text or by endorsement, at the latest by April 2025, and conflicting national standards shall be withdrawn at the latest by April 2025.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 2588:2006.

This document includes the following significant technical changes with respect to EN 2588:2006:

— normative references updated;

— subclause 5.4 “Materials”: hardness requirement for the outer ring corrected.

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.

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1 Scope

This document specifies the characteristics of spherical plain bearings in corrosion resisting steel, with assembly slots, metric series, with or without lubrication holes and groove, intended for use in fixed or moving parts of aircraft structure and control mechanisms, within the temperature range from −54 °C to 150 °C.

It also applies to the following temperature ranges when lubricated with the following greases (see EN 2337):

— ester type very high pressure grease (code letter A), operating range from −73 °C to 121 °C;

— synthetic hydrocarbon type very high pressure grease general purpose (code letter B), operating range from −54 °C to 177 °C.

Their field of application when lubricated with grease code letter A is limited to 121 °C.

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 2337, *Aerospace series — Spherical plain bearings — Technical specification*

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

EN 2491, *Aerospace series — Molybdenum disulphide dry lubricants — Coating methods*

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

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