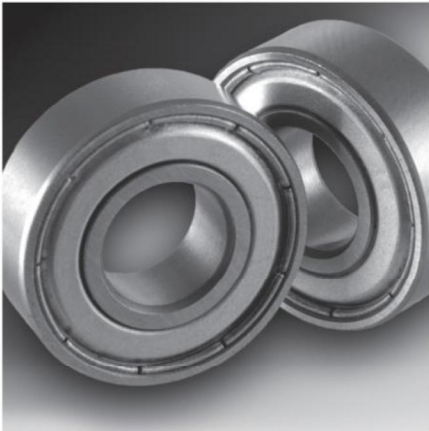


AMERICAN NATIONAL STANDARD
ABMA Standard



Spherical Plain Bearing -- Part 4: Spherical plain bearing rod ends

Sponsor

**American Bearing
Manufacturers Association**

**ANSI/ABMA/ISO 12240-4-2010 (Identical
Adoption of ISO 12240-4:1998)**

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ABMA FOREWORD (This foreword is not part of ANSI/ABMA/ISO 12240-4-2010.)

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The text is approved as an International Standard if a two-thirds majority of the P (participating)-members of the TC/SC are in favor and not more than one-quarter of the total number of votes cast are negative.

International Standard 12240-4-2010 was prepared by Technical Committee ISO/TC 4, Rolling Bearings / Subcommittee 4, Tolerances, tolerance definitions and symbols (including GPS).

This standard was processed and approved for submittal to ANSI for national adoption by Accredited Standards Committee B3. Committee approval of the national adoption of this standard does not necessarily mean that all committee members voted for its adoption.

Suggestions for the improvement of this standard gained through experience with its use will be welcomed. These suggestions should be sent to:

ASC B3 Secretariat
American Bearing Manufacturers Association
2025 M Street, N.W., Suite 800 Washington,
DC 20036

**INTERNATIONAL STANDARD ISO 12240-4:1998**
TECHNICAL CORRIGENDUM 1

Published 1999-07-15

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

Spherical plain bearings —
Part 4:
Spherical plain bearing rod ends**TECHNICAL CORRIGENDUM 1***Rotules lisses —**Partie 4: Embouts à rotule**RECTIFICATIF TECHNIQUE 1*

Technical Corrigendum 1 to International Standard ISO 12240-4:1998 was prepared by Technical Committee ISO/TC 4, *Rolling bearings*, Subcommittee SC 7, *Spherical plain bearings*.

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Table 3

For $d = 20$ mm, the value for r_s should be 0,3 mm (instead of 0,6 mm) and the value for r_{1s} should be 0,6 mm (instead of 0,3 mm).

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12240-4

First edition
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Spherical plain bearings — Part 4: Spherical plain bearing rod ends

Rotules lisses —

Partie 4: Embouts à rotule

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Foreword

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Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 12240-4 was prepared by Technical Committee ISO/TC 4, *Rolling bearings*, Subcommittee SC 7, *Spherical plain bearings*.

This first edition cancels and replaces ISO 6126:1987 of which it constitutes a technical revision.

ISO 12240 consists of the following parts, under the general title *Spherical plain bearings*:

- *Part 1: Radial spherical plain bearings*
- *Part 2: Angular contact radial spherical plain bearings*
- *Part 3: Thrust spherical plain bearings*
- *Part 4: Spherical plain bearing rod ends*

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Spherical plain bearings —

Part 4:

Spherical plain bearing rod ends

1 Scope

This part of ISO 12240 specifies dimensions, tolerances and radial internal clearances for various dimension series of spherical plain bearing rod ends.

The dimensions and tolerances specified in this part of ISO 12240 have been selected to permit the design and use of spherical plain bearing rod ends which incorporate radial spherical plain bearings having various sliding material combinations.

The specified tolerance values apply for finished spherical plain bearing rod ends before any coating, plating, ring splitting or fracturing.

Spherical plain bearing rod ends need not conform to the designs illustrated but compliance is required as regards dimensions, tolerances and radial internal clearances specified.

NOTE — Spherical plain bearing rod ends for airframe applications and specific spherical plain bearing rod ends for direct connection to hydraulic cylinders are not covered by this part of ISO 12240.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO 12240. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this part of ISO 12240 are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 582:1995, *Rolling bearings – Chamfer dimensions – Maximum values.*

ISO 965-1:1992, *ISO general purpose metric screw threads – Tolerances – Part 1: Principles and basic data.*

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

ISO 6811:1998, *Spherical plain bearings – Vocabulary.*

ISO 12240-1:1998, *Spherical plain bearings – Part 1: Radial spherical plain bearings.*

1) To be published. (Revision of ISO 1132:1980)