

SVENSK STANDARD

SS-ISO 6811:2020

Spherical plain bearings – Vocabulary (ISO 6811:1998, IDT)

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Standarden är framtagen av kommittén för Rullningslager, SIS/TK 105.

Har du synpunkter på innehållet i den här standarden, vill du delta i ett kommande revideringsarbete eller vara med och ta fram andra standarder inom området? Gå in på www.sis.se - där hittar du mer information.

Den internationella standarden ISO 6811:1998 gäller som svensk standard. Detta dokument innehåller den officiella engelska versionen av ISO 6811:1998.

The International Standard ISO 6811:1998 has the status of a Swedish Standard. This document contains the official English version of ISO 6811:1998.

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission IEC on all matters of electrotechnical standardization.

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 6811 was prepared by Technical Committee ISO/TC 4, *Rolling bearings*, Subcommittee SC 7, *Spherical plain bearings*.

This second edition cancels and replaces the first edition (ISO 6811:1983), which has been technically revised.

[Annex A](#) of this International Standard is for information only.

Spherical plain bearings — Vocabulary

1 Scope

This International Standard presents general terms and definitions relevant to the field of spherical plain bearings. It deals with bearings, bearing parts and features, movements, angles and rod ends.

NOTE — In addition to terms and definitions used in the three official ISO languages (English, French and Russian), this International Standard gives the equivalent terms and definitions in the German language; these are published under the responsibility of the member body for Germany DIN). However only the terms and definitions given in the official languages can be considered as ISO terms and definitions.

2 Principles and rules followed

2.1 Constitution of the vocabulary

The vocabulary comprises

- a) terms, with their definition, in systematic order (see [clause 3](#));
- b) figures with index numbers of relevant terms (see [clause 4](#));
- c) alphabetical listings of the terms, with their Index numbers (see the [Index](#)).

2.2 Constitution of [clause 3](#) on terms and definitions

The terms and definitions are given in groups and subgroups, arranged in systematic order.

A two-digit serial number is assigned to each group, e.g. 01, 02, etc.

Each group is divided into subgroups, to each of which is assigned a four-digit serial number, the first two digits being those of the group. Each entry (a term with its definition) is assigned a six-digit index number, the first four digits being those of the subgroup.

A term printed in **bold** typeface in a definition is defined in another entry in this International Standard. The basic form of each such term is included in the alphabetical index, where the index number of the corresponding entry is shown.

2.3 Constitution of [clause 4](#) on figures

Each figure gives the index numbers of relevant terms. A figure usually shows only one example of the several existing forms of a bearing or part. In most cases the figures are simplified and leave out unnecessary details.

2.4 Constitution of the index

The index includes all terms given and defined in [clause 3](#). Multipleword terms appear in alphabetical order both by natural order of words and by their key words.

The index refers to the index number of the entry in [clause 3](#) where the term is defined.

3 Terms and definitions

01

bearings

support or a guide by means of which a moving part is located with respect to other parts of a mechanism

[SOURCE: ISO 4378-1]

01.01

plain bearings

bearing in which only sliding friction takes place

[SOURCE: ISO 4378-1]

01.01.01

spherical plain bearing

plain bearing, designed primarily for oscillatory, tilting and slow rotational movements, in which the sliding contact surfaces are spherical

SEE:

SEE:

01.01.02

radial spherical plain bearing

spherical plain bearing intended to support primarily radial load

SEE:

SEE:

SEE:

SEE:

01.01.03

radial contact spherical plain bearing

radial spherical plain bearing having a **nominal contact angle** of 0°

SEE:

SEE:

01.01.04

spherical plain bearing outer ring with ballstud

spherical plain bearing in which a **ball stud** is mounted in place of an **inner ring**

SEE:

01.01.05

spherical plain bearing with stud

spherical plain bearing in which a **stud** is mounted

SEE:

01.01.06

angular contact radial spherical plain bearing

radial spherical plain bearing having a **nominal contact angle** larger than 0° up to 30°

SEE:

SEE:

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01.01.07

thrust spherical plain bearing

spherical plain bearing intended to support primarily axial load

SEE:

SEE:

01.01.08

axial contact spherical plain bearing

thrust spherical plain bearing having a **nominal contact angle** $\tau = 90^\circ$

SEE:

01.01.09

angular contact thrust spherical plain bearing

thrust spherical plain bearing having a **nominal contact angle** larger than 30° but less than 90°

SEE:

02 Spherical plain bearing features and parts

02.01 Features

02.01.01

bearing bore

inside surface of an **inner ring** or **shaft washer** of a **spherical plain bearing**

SEE:

SEE:

SEE:

02.01.02

bearing outside surface

outside surface of an **outer ring** or **housing washer** of a **spherical plain bearing**

SEE:

SEE:

SEE:

02.01.03

sphered outer surface

surface of an **inner ring**, **shaft washer** or **ball stud** intended to make sliding contact with the **outer ring**, **housing washer** or **rod end eye** and having a convex surface being part of a sphere

SEE:

SEE:

SEE:

SEE:

02.01.04

sphered inner surface

surface of an **outer ring**, **housing washer** or **rod end eye** intended to make sliding contact with the **inner ring**, **shaft washer** or **ball stud** and having a concave surface being part of a hollow sphere