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ISO/TC 123/SC 2

Plain bearings — Requirements and guidance on backings for thick-walled multilayer bearings

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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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: www.iso.org/iso/foreword.html.

This document was prepared by ISO/TC 123, *Plain bearings*, Subcommittee SC 2, *Materials and lubricants, their properties, characteristics, test methods and testing conditions*.

This second edition cancels and replaces the first edition (ISO 6280:1981), which has been technically revised. The main changes compared to the previous edition are as follows:

- The Scope has been revised.
- Normative references have been updated.
- A new Clause 3 Terms and definitions has been added.
- Clauses 4 and 5 have been revised.

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Plain bearings — Requirements and guidance on backings for thick-walled multilayer bearings

1 Scope

This document gives requirements and guidance to obtain the optimum bond between backing and bearing metal for thick-walled multilayer plain bearings. This optimum bond depends on the chemical composition, the state of stress, the structural arrangement and the machining of the bond surface of the backings.

NOTE Control of the manufacturing process is an important requirement to achieve an optimum bond between backing material and bearing metal.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

No terms and definitions are listed in this document.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at https://www.iso.org/obp
- IEC Electropedia: available at http://www.electropedia.org/

4 Backing materials

4.1 General

Steel and cast steel, cast iron with lamellar and spheroidal graphite as well as cast copper alloys are used as backing materials.

For cast iron backing, additional dovetailed grooves may be used on bond surface for mechanical anchoring.

4.2 Steel and cast steel

Before lining, the backing is heat-treated for normalizing and stresses relieving.

Typical contents of elements for bonding:

- C < 0,25 % (mass fraction);</p>
- $Cr \le 1,1 \%$ (mass fraction);
- Ni < 0,5 % (mass fraction);</p>
- Mn ≤ 1,3 % (mass fraction).