Draft for Public Comment

Form 36

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Responsible committee: MCE/12 Plain bearings

Interested committees:

Title: Draft BS ISO 7148-1 Plain bearings — Testing of the tribological behaviour of bearing materials. Part 1: Testing of bearing metals.

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Introduction

This draft standard is based on national and international discussions. Your comments on this draft are invited and will assist in the preparation of the consequent standard.

For international standards, comments will be reviewed by the relevant UK national committee before sending the consensus UK vote and comments to the international committee, which will then decide appropriate action. If the international standard is approved, it is usual for the text to be published as a British Standard.

For national standards, comments will be reviewed by the relevant UK national committee and the resulting standards published as a British Standard.

UK Vote

Please indicate whether you consider the UK should submit a negative (with supporting technical reasons) or positive vote on this draft. Please indicate if you are aware of any reason why this draft standard should not be published as a British Standard.

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Template for comments and secretariat observations

Date: xx/xx/20xx	Document: ISO/DIS xxxx

1	2	(3)	4	5	(6)	7
MB	Clause No./ Subclause No./Annex **(e.g. 3.1)**	Paragraph/ Figure/Table/Note	**Type of comment**	**Commend (justification for change) by the MB**	**Proposed change by the MB**	**Secretariat observations on each comment submitted**
	3.1	Definition 1	ed	Definition is ambiguous and needs clarifying.	Amend to read '...so that the mains connector to which no connection...'	
	6.4	Paragraph 2	te	The use of the UV photometer as an alternative cannot be supported as serious problems have been encountered in its use in the UK.	Delete reference to UV photometer.	

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DRAFT International Standard

ISO/DIS 7148-1

ISO/TC **123**/SC **2**

Secretariat: **DIN**

Voting begins on:
2024-08-15

Voting terminates on:
2024-11-07

Plain bearings — Testing of the tribological behaviour of bearing materials —

Part 1: Testing of bearing metals

Paliers lisses — Essai du comportement tribologique des matériaux antifriction —

Partie 1: Essai des matériaux métalliques

ICS: 21.100.10

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Full document details: 24/30482101 DC

Contents

Page

Foreword ..... **iv**
1 Scope **1**
2 Normative references **1**
3 Terms and definitions **1**
4 Symbols and units **1**
5 Special features for the tribological testing of metallic bearing materials **2**
6 Test methods **3**
6.1 General 3
6.2 Test method A — Pin-on-disc 4
6.3 Test method B — Block-on-ring 5
6.4 Test method C — Rotation under thrust load 6
7 Test specimens **7**
7.1 Disc 7
7.2 Ring 7
7.3 Pin 8
7.4 Block 8
7.5 Sleeve 8
7.6 Plate 8
7.7 Preparation of the test specimens 9
8 Test methods and test equipment **9**
9 Lubrication **10**
10 Designation **10**
11 Test conditions **10**
12 Test procedure **11**
13 Test report **11**
13.1 General 11
13.2 Test results 11
Annex A (informative) **Test report** **13**
Bibliography **15**

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Document Sharing Hub
Full document details: 24/30482101 DC

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 of 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 www.iso.org/foreword.html.

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

This fourth edition cancels and replaces the third edition (ISO 7148-1:2012), which has been technically revised.

The main changes compared to the previous edition are as follows:

— "This part of ISO 7148" has been replaced with "This document";

— Clause 2 "Normative references" has been updated;

— Clause 3 "Terms and definitions" has been implemented;

— Table 1 and Table A.1 has been updated, and Table 2 has been added;

— Clause 6 has been updated;

— Clause 7 has been updated;

— Clause 8 has been updated;

— Clause 11 has been updated;

A list of all parts in the ISO 7148 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

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Plain bearings — Testing of the tribological behaviour of bearing materials —

Part 1:
Testing of bearing metals

1 Scope

This document specifies tribological tests of metallic bearing materials for plain bearings under conditions of boundary lubrication.

The test procedures described in this document enable the friction and wear behaviour of bearing material/mating/lubricant combinations to be compared with that of other combinations, thus facilitating the selection of a bearing material for running repeatedly or for long periods under conditions of boundary lubrication, low speed and continuous sliding. Owing to differences in test conditions, measured friction and wear values can be expected to vary from one test facility to another.

The test results give useful information for practical application only if all parameters of influence are identical. The more the test conditions deviate from the actual application, the greater the uncertainty of the applicability of the results.

2 Normative references

The following referenced documents are indispensable for the application 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.

ISO 4378-2, *Plain bearings — Terms, definitions, classification and symbols — Part 2: Friction and wear*

ISO 4378-3, *Plain bearings — Terms, definitions, classification and symbols — Part 3: Lubrication*

ISO 4385, *Plain bearings — Compression testing of metallic bearing materials*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 4378-2 and ISO 4378-3 apply.

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 https://www.electropedia.org/

4 Symbols and units

See Table 1.

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