INTERNATIONAL STANDARD

ISO 3547-2

Fourth edition 2023-06

Plain bearings — Wrapped bushes —

Part 2:

Test data for outside and inside diameters

Paliers lisses — Bagues roulées —

Partie 2: Données d'essai pour le diamètre extérieur et le diamètre intérieur





© ISO 2023

tation, no part of 'including plot' 'om either'. All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office CP 401 • Ch. de Blandonnet 8 CH-1214 Vernier, Geneva Phone: +41 22 749 01 11 Email: copyright@iso.org Website: www.iso.org

Published in Switzerland

Contents			Page	
Fore	word		iv	
1	Scop	pe	1	
2	Norr	mative references	1	
3	Tern	ms and definitions	1	
4		bols and units		
5	-	sentation of data on drawing		
6		ts.		
	6.1	Test A		
	6.2	Test B		
	6.3	Test C		
_	6.4	Test D		
7	Test 7.1	t A		
	7.1 7.2	Calculation basis		
		7.2.1 Elastic reduction, v , of outside diameter, D_0		
		7.2.2 Calculation of diameter of checking block, $d_{\rm ch}$ 1	4	
		7.2.3 Effective cross-sectional area of the bush, A_{cal}	4	
		7.2.4 Calculation of checking load, $F_{\rm ch}$ 7.2.5 Limits for Δz		
	7.3	Obtaining data — Example		
	7.4	Presentation of data on drawing — Example	7	
8		t B	7	
	8.1	Description	7	
	8.2 8.3	Obtaining data — ExamplePresentation of data on drawing — Example		
0				
9	Test 9.1	Description	 ຂ	
	9.2	Obtaining data — Example	9	
	9.3	Presentation of data on drawing — Example	9	
10	Test	t D	10	
	10.1	Description	10	
	10.2	0 1	10	
	10.3			
11		ignation of tests according to this document		
Bibl	iograpl	hy		

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 document 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).

ISO draws attention to the possibility that the implementation of this document may involve the use of (a) patent(s). ISO takes no position concerning the evidence, validity or applicability of any claimed patent rights in respect thereof. As of the date of publication of this document, ISO had not received notice of (a) patent(s) which may be required to implement this document. However, implementers are cautioned that this may not represent the latest information, which may be obtained from the patent database available at www.iso.org/patents. ISO shall not be held responsible for identifying any or all such patent rights.

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/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 123, *Plain bearings*, Subcommittee SC 3, *Dimensions, tolerances and construction details*.

This fourth edition cancels and replaces the third edition (ISO 3547-2:2017), of which it constitutes a minor revision. The changes are as follows:

- the units in <u>Table 1</u> have been corrected;
- in $\frac{7.2.3}{1.00}$, the correct term for A_{cal} has been implemented.

A list of all the parts in the ISO 3547 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.

Plain bearings — Wrapped bushes —

Part 2:

Test data for outside and inside diameters

1 Scope

This document specifies the test data for outside and inside diameters of wrapped bushes made of mono and multi-layer bearing material for plain bearing applications. It also specifies test designations.

Since the wall thickness of the bush is measured in the free condition, no special test data are required for this on the drawing (see ISO 3547-5 and ISO 3547-6).

NOTE Depending on the manufacturing method, the back of the bushes can show isolated light depressions and, similarly, bushes with lubrication holes, grooves and bore indentations can show distortion. It is therefore suggested to measure the wall thickness away from these areas.

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.

ISO 286-2, Geometrical product specifications (GPS) — ISO code system for tolerances on linear sizes — Part 2: Tables of standard tolerance classes and limit deviations for holes and shafts

ISO 3547-1:2018, Plain bearings — Wrapped bushes — Part 1: Dimensions

ISO 3547-4, Plain bearings — Wrapped bushes — Part 4: Materials

ISO 4378-1, Plain bearings — Terms, definitions, classification and symbols — Part 1: Design, bearing materials and their properties

ISO 4378-4, Plain bearings — Terms, definitions, classification and symbols — Part 4: Basic symbols

ISO 12301, Plain bearings — Quality control techniques and inspection of geometrical and material quality characteristics

ISO 13715, Technical product documentation — Edges of undefined shape — Indication and dimensioning

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 4378-1 and ISO 4378-4 apply.

ISO and IEC maintain terminology 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.