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# NATIONAL STANDARD OF THE

# PEOPLE'S REPUBLIC OF CHINA

# GB/T 12613.7-2011

Replacing GB/T 18330-2001

## Plain bearings -- Wrapped bushes -- Part 7: Measurement of wall thickness of thin-walled bushes

滑动轴承 卷制轴套 第7部分：薄壁轴套壁厚测量

**(English Translation)**

**Issued on: December 30, 2011** **Implemented on: October 1, 2012**

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## Foreword

GB/T 12613 "Plain bearings - hub" consists of the following seven parts.

--- Part 1. Dimensions;

--- Part 2. outside and inside diameter of the test data;

--- Part 3. Lubrication holes, grooves and pockets;

--- Part 4. Materials;

--- Part 5. diameter test;

--- Part 6. inner diameter of the test;

--- Part 7. Measurement of wall thickness of thin-walled sleeve.

This part of GB/T 12613 Part 7.

This section drafted in accordance with GB/T 1.1-2009 given rules.

This Part replaces GB/T 18330-2001 "thin-walled slide bearing bush and wall thickness measurement of thin-walled sleeve." And GB/T 18330-Compared to 2001, the main changes are as follows.

--- Delete obsolete references in Chapter 2.

--- Table 1. Remove the number of specimens symbols n, Measurement Uncertainty Uncertainty uE symbol symbols u, measuring equipment, for the first time with the first Difference [Delta] x symbol reading second measured value, deltax of this average [Delta] x; modified portion of the symbol. measuring the distance by the symbol "ac" change as "ach", wall thickness by the symbol "stot" to "s3".

--- Choose to change the measuring line states. When measuring line, when the sleeve width is greater than 50mm, measured from the line of three to two;-point measurement, Sleeve width > 50mm, <=90mm <=150mm when an outer diameter measuring line to 2; sleeve width > 90mm and an outer Path > is 150mm, select the measuring line consensus



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by the manufacturer and user.

--- Remove the wall thickness of ten-point measurement.

--- Load measuring head by a "0.6N ~ 2N" to "0.8N ~ 2.5N".

--- Delete "accuracy specification" clause (GB/T 18330-2001 7.3).

--- Delete (GB/T 18330-2001 8.1) "uncertainty u calculated measure."

--- Remove GB/T 18330-2001 Appendix A and Appendix B.

This section uses the translation method identical with the international standard ISO 3547-7:2007 "Plain bearings - Wrapped bushes - Part 7. thin-walled shaft Sets of wall thickness measurement. " Consistency correspondence between this part of international documents and normative references of our files are as follows.

--- GB/T 12613.1-2011 Plain bearings - Wrapped bushes - Part 1. Dimensions (ISO 3547-1:2006, IDT)

--- GB/T 18324-2001 copper alloy sliding bearing bush (idt ISO 4379:1993) and ISO 3547-7:2007 as compared to this section made the following editorial changes.

--- Equivalents adoption of international standards in place of the standard corresponding to international standards.

This part is proposed by China Machinery Industry Federation.

Bearing this in part by the National Standardization Technical Committee (SAC/TC236) centralized.

This section is responsible for drafting unit. Productivity Promotion Center in the machine.

Participated in the drafting of this section. Zhejiang Changsheng Sliding Bearings Co., Ltd., Zhejiang SF Oilless Bearing Co., Ltd., Zhejiang Bearing Co., Ltd., Bearing Co., Ltd. Jiashan Feng into three complex.

This part of the standard replaces the previous editions are.

--- GB/T 18330-2001.

Plain bearings - Wrapped bushes Part 7. Measurement of wall thickness of thin-walled sleeve

## 1 Scope

GB/T 12613 in this section according to GB/T 27939-2011, provides total wall thickness of thin-walled sleeve finished detecting and measuring device method.



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## 2 Normative references

The following documents for the use of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

ISO 3547-1 Plain bearings - Wrapped bushes - Part 1. Dimensions (Plainbearings-Wrappedbushes-Part 1.

Dimensions)

ISO 4379 copper alloy sliding bearing bush (Plainbearings-Copperaloybushes)

## 3 Terms and Definitions

The following terms and definitions apply to this document.

Wall thickness walthickness, s3 the inner surface of the sleeve and the outer diameter surface corresponds to the diameter of the radial distance between the two measuring points. see picture 1.

a) snap-sleeve b) straight seam sleeve Explanation.

1 --- buckle.

Figure 1 wall thickness, s3



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