

## SLOVENSKI STANDARD SIST ISO 12308:2002

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Drsni ležaji - Zagotavljanje kakovosti - Vrste vzorcev - Definicije, uporaba in preskušanje

Plain bearings -- Quality assurance -- Sample types -- Definitions, applications and testing

# iTeh STANDARD PREVIEW

Paliers lisses -- Assurance de la gualité -- Types d'échantillons -- Définitions, utilisation et essais

SIST ISO 12308:2002

Ta slovenski standard je istoveten z: ISO 12308:1994

<u>ICS:</u>

21.100.10 Drsni ležaji

**Plain bearings** 

SIST ISO 12308:2002

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# INTERNATIONAL STANDARD

ISO 12308

First edition 1994-02-01

## Plain bearings — Quality assurance — Sample types — Definitions, applications and testing

# iTeh STANDARD PREVIEW

Paliers lisses - Assurance de la qualité — Types d'échantillons — Définitions, utilisation et essais



## 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 VIEW a vote.

International Standard ISO 12308 was prepared by Technical Committee ISO/TC 123, Plain bearings, Subcommittee SC 5, Quality analysis and assurance. https://standards.iteh.ai/catalog/standards/sist/03ab39b7-45b5-472b-

Annex A of this International Standard is for information onlyist-iso-12308-2002

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International Organization for Standardization

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# Plain bearings — Quality assurance — Sample types — Definitions, applications and testing

#### 1 Scope

This International Standard defines the types of plain bearing samples such as are exchanged between purchaser and manufacturer.

In the field of internal combustion engines and other series production, it is necessary to work with different types of samples depending on the purpose TISO 123

Different types of samples are

- samples used for tests and examinations which are carried out in the experimental stage and pilot lot stage; these include fitting samples, prototype samples and intermediate samples;
- samples used to prove that the quality<sup>1)</sup> is in accordance with the quality requirements (dimensions, material and performance specification); these include initial samples and reference samples and, if necessary, intermediate samples;
- samples which give selective information about particular quality characteristics of a plain bearing, relating to their conformity with the specifications; these involve reference and characteristic modification samples.

#### **2** Normative reference

The following standard contains provisions which, through reference in this text, constitute provisions

of this International Standard. At the time of publication, the edition indicated was valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent edition of the standard indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

https://standards.iteh.ai/catalog/standards(SOO12301)1992, - Plain bearings — Quality control are b0b5-4fc9ec613e64/sist-istechniques and inspection of geometrical and material quality characteristics.

#### **3** Inspection and test report for samples

Together with the samples, the manufacturer shall supply a completed test report to the purchaser with data on dimensions, material and/or performance, as appropriate. In the fields of application listed in clause 1, the "Initial Sample Test Report" is used for the initial samples and the characteristic modification samples. When the purchaser carries out an inspection, he informs the manufacturer about the results.

The test reports are kept by the manufacturer on agreement between the manufacturer and purchaser.

#### 4 Marking

All sample supplies shall be marked conspicuously by the manufacturer. The kind of marking is to be agreed between the manufacturer and purchaser.

<sup>1)</sup> See ISO 3534 and ISO 8402 for further information.

## 5 Types of plain bearing samples, definition and manufacturing process, application and testing

## 6 Designation

#### EXAMPLE

Designation of an initial sample (S4) with test report:

#### Sample ISO 12308 - S4

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Type of sample	Symbol	Definition and manufacturing process	Application	<b>Testing</b> (by manufacturer)
Fitting sample	S1	Plain bearing applied to fitting tests only	Fitting tests on stationary ma- chines, internal combustion en- gines, etc.	Fitting dimensions only Complete data of each fitting dimension for each bearing Recording of these individual test results in the test report
Prototype sample	S2	<u>SIST IS</u>	<ul> <li>Technical developments at the purchaser</li> <li>functional tests, e.g. experimental run-in machines, internal combustion engines, gear boxes etc</li> <li>performance in test rig, e.g.</li> <li>performance in test rig, e.g.</li> <li>for establishing the specifi- 012 cation of quality character-standistics (dimensions, -455-472, 64/s; materials, etc.) 002</li> </ul>	Agreed specified quality charac- teristics Complete quality testing of all specified quality characteristics carried out on the quantity agreed Recording of these individual test results in the test report NOTE — The number of sam- ples should not exceed 200.
Intermediate sample	\$3	Plain bearing which corresponds to a large degree to the "initial sample", but has only partially been manufactured by means of the equipment and processes used for series production	<ul> <li>Pilot lot and initial series</li> <li>NOTES</li> <li>1 Use to be agreed between manufacturer and purchaser.</li> <li>2 Intermediate sample shall be substituted by the "initial sample" later on.</li> </ul>	Quality characteristics in ac- cordance with ISO 12301 Quantity tested should be 20 max. Recording of these individual test results in the test report The "non-series" process cy- cles and sequences shall clearly be indicated by the manufac- turer in the report
Initial sample	S4	Plain bearing, completely manu- factured by means of the equip- ment and processes used for series production under the ap- propriate control conditions NOTE — The initial sample is to furnish the proof that the manu- facturer is in a position to com- ply with the quality requirements (dimensions, ma- terial, function, etc.) requested by the purchaser.	Series assembly after approval	Quality characteristics in ac- cordance with ISO 12301 Quantity tested should be 20 max. Recording of these individual test results in the test report NOTES 1 It is advisable to keep one of the accepted samples avail- able at the manufacturer's and/or purchaser's premises for a period to be agreed. 2 Performance testing is car- ried out by the purchaser only.

#### See table 1.

Type of sample	Symbol	Definition and manufacturing process	Application	<b>Testing</b> (by manufacturer)
Reference sample	S5	Plain bearing representing the desired value of a quality characteristic NOTE — These samples are taken by the manufacturer from the series production or from the delivery ready for despatch and tested as agreed upon with the purchaser.	The reference samples are de- livered to the purchaser for the control test together with the determined actual values of all quality characteristics desig- nated for the test, in order to check, for example, the com- parability of the test methods/equipment used	Dimensional and material test- ing of all quality characteristics agreed between manufacturer and purchaser (e.g. nip, bearing material composition) Test data to be given by the manufacturer NOTE — The reported test val- ues may substitute a receiving inspection carried out at the purchaser's premises.
Characteristic modification sam- ple	S6	Plain bearing manufacturer after the execution of a specification modificaton	Series assembly after approval	Only those quality character- istics concerned by the modifi- cation need be tested Quantity tested should be 20 max. Recording of these individual test results in the test report

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## Annex A

## (informative)

## **Bibliography**

- [1] ISO 3534-1:1993, *Statistics* Vocabulary and symbols Part 1: Probability and general statistical terms.
- [2] ISO 3534-2:1993, Statistics Vocabulary and symbols Part 2: Statistical quality control.
- [3] ISO 3534-3:1985, Statistics Vocabulary and symbols Part 3: Design of experiments.
- [4] ISO 8402:1986, *Quality Vocabulary*.

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