

BUREAU OF INDIAN STANDARDS
DRAFT FOR COMMENTS ONLY

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IS XXXX : 2022
ISO 21250-1 : 2020
June 2022

भारतीय मानक प्रारूप
Draft Indian Standard

रोलिंग बियरिंग्स — रोलिंग बियरिंग ग्रीस का ध्वनि परीक्षण — भाग : 1 मूलरूप सिद्धांत, परीक्षण सम्मुचय
और परीक्षण मशीन

Rolling Bearings — Noise Testing of Rolling Bearing Greases — Part 1: Basic Principles, Testing Assembly and Test Machine

ICS 21.100.20

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Bearings Sectional Committee, PGD 13

NATIONAL FOREWORD

This Indian Standard which is identical with ISO 21250-1 : 2020 ‘Rolling bearings — Noise testing of rolling bearing greases — Part 1: Basic principles, testing assembly and test machine’ issued by the International Organization for Standardization (ISO) will adopted by the Bureau of Indian Standards on recommendation of the Bearings Sectional Committee and approval of the Production and General Engineering Department.

The rolling bearing life theory emphasizes the use of pure and homogeneous lubricants as essential for a long bearing service life. Grease lubrication is the most common type of rolling bearing lubrication. The purity grade of bearing grease is influenced by thickeners, base oils, additives and solid lubricant additives as well as the manufacturing process and is reflected in the running noise. Therefore, noise testing of rolling bearing greases is recommended.

In addition, grease noise testing in accordance with this standard allows the grease manufacturers to develop low-noise lubricants with better damping properties. This standard can also support the rolling bearing manufacturers and end-users in the selection of low noise grease with better damping properties.

Other parts in this series are:

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| Part 2 | Rolling bearings — Noise testing of rolling bearing greases — Part 2: Test and evaluation method BQ+ |
| Part 3 | Rolling bearings — Noise testing of rolling bearing greases — Part 3: Test and evaluation method MQ |

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Part 4 Rolling bearings — Noise testing of rolling bearing greases — Part 4: Test and evaluation method NQ

The text of ISO Standard has been approved as suitable for publication as an Indian Standard without deviations. Certain conventions are, however, not identical to those used in Indian Standards. Attention is particularly drawn to the following:

- a) Wherever the words ‘International Standard’ appear referring to this standard, they should be read as ‘Indian Standard’.
- b) Comma (,) has been used as a decimal marker while in Indian Standards, the current practice is to use a point (.) as the decimal marker.

In this adopted standard, reference appears to certain International Standards for which Indian Standards also exist. The corresponding Indian Standards, which are to be substituted in their respective places, are listed below along with their degree of equivalence for the editions indicated.

<i>International Standard</i>	<i>Corresponding Indian Standard</i>	<i>Degree of Equivalence</i>
ISO 492 Rolling bearings— Radial bearings— Geometrical product specifications (GPS) and tolerance values	IS 5692 : 2019 Rolling bearings - Radial bearings - Geometrical product specifications (GPS) and tolerance values (Second Revision)	Identical with ISO 492 : 2014
ISO 5593 Rolling bearings — Vocabulary	IS 2399 : 2019 Rolling bearings – Vocabulary (<i>Second Revision</i>)	Identical with ISO 5593 : 1997
ISO 5753-1 Rolling bearings — Internal clearance — Part 1: Radial internal clearance for radial bearings	IS 5935 (Part 1) : 2019 Rolling bearings - Internal clearance: Part 1 radial internal clearance for radial bearings (<i>Second Revision</i>)	Identical with ISO 5753-1 : 2009

The technical committee has reviewed the provisions of the following International Standards referred in this adopted standard and has decided that they are acceptable for use in conjunction with this standard.

<i>International Standard</i>	<i>Title</i>
ISO 21250-2 : 2020	Rolling bearings — Noise test of rolling bearing greases — Part 2: Test and evaluation method BQ+
ISO 21250-3 : 2020	Rolling bearings — Noise test of rolling bearing greases — Part 3: Test and evaluation method MQ
ISO 21250-4 : 2020	Rolling bearings — Noise test of rolling bearing greases — Part 4: Test and evaluation method NQ
ISO 15242-1 : 2015	Rolling bearings — Measuring methods for vibration — Part 1: Fundamentals

In reporting the result of a test or analysis made in accordance with this standard, if the final value, observed or calculated, is to be rounded off, it shall be done in accordance with IS 2 : 1960 ‘Rules for rounding off numerical values (revised)’.

For comments only

For more information or copy of ISO standard please write us at pgd@bis.gov.in