

BUREAU OF INDIAN STANDARDS

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भारतीय मानक मसौदा
सर्जरी के लिए प्रत्यारोपण - संपूर्ण कूल्हे-संयुक्त कृत्रिम अंग
पहनना

भाग 1: घिसाव-परीक्षण मशीनों के लिए लोडिंग और विस्थापन पैरामीटर
और परीक्षण के लिए संबंधित पर्यावरणीय स्थितियाँ

Draft Indian Standard

Implants for Surgery Wear of Total Hip-Joint
Prostheses

Part 1: Loading and Displacement Parameters for Wear-
Testing Machines and Corresponding Environmental
Conditions for Test

ICS 11.040.40

Orthopaedic Instruments, Implants and
Accessories Sectional Committee, MHD 02

Last date for comments: **18 July 2024**

NATIONAL FOREWORD

(Adoption clause will be added later)

Amendment 1 published in 2018, to ISO 14242-1: 2014 will be given at the end of this publication.

The text of ISO Standard has been approved as suitable for publication as an Indian Standard without deviations. Certain terminologies and 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 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 7206-1, Implants for surgery — Partial and total hip joint prostheses — Part 1: Classification and designation of dimensions	IS 12375 (Part 1): 2015 ISO 7206-1 : 2008 Implants for surgery - Partial and total hip joint prostheses: Part 1 classification and designation of dimensions (Second Revision)	Identical
ISO 14242-2 Implants for surgery — Wear of total hip-joint prostheses — Part 2: Methods of measurement	MHD02(25894), Implants for surgery — Wear of total hip-joint prostheses — Part 2: Methods of measurement	Identical

The technical committee responsible for the preparation of this standard has reviewed the provisions of following mentioned International Standards and has decide that they are acceptable for use in conjunction with this standard:

<i>International Standard/ Other Publication</i>	<i>Title</i>
ISO 3696:1987	Water for analytical laboratory use — Specification and test methods

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated expressing the result of a test or analysis, shall be rounded off in accordance with IS 2: 2022 ‘Rules for rounding off numerical values (Second Revision)’.

Note: The technical content of the document has not been included as it is identical with the corresponding ISO standard. For details, please refer to ISO 14242-1: 2014 or kindly contact:

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SCOPE

This part of ISO 14242 specifies the relative angular movement between articulating components, the pattern of the applied force, the speed and duration of testing, the sample configuration, and the test environment to be used for the wear testing of total hip-joint prostheses.