**IS xxxxx (Part 1) : 2024**

***भारतीय मानक***

***Indian Standard***

**ISO 14242-1 : 2014**

**सर्जरी के लिए प्रत्यारोपण - संपूर्ण कूल्हे-संयुक्त कृत्रिम अंगों का घिसाव**

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

**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

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भारतीय मानक ब्यूरो

BUREAU OF INDIAN STANDARDS

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Orthopaedic Instruments, Implants and Accessories Sectional Committee, MHD 02

NATIONAL FOREWORD

This Indian Standard (Part 1) which is identical to ISO 14242-1 : 2014 ‘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’ issued by the International Organization for Standardization was adopted by the Bureau of Indian Standards on the recommendation of the Orthopaedic Instruments, Implants and Accessories Sectional Committee and approval of the Medical Equipment and Hospital Planning Division Council.

Amendment 1 published in 2018 to ISO 14242-1 : 2014 is 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 conventions are however not identical to those used in Indian Standards. Attention is particularly drawn to the following:

1. Wherever the words ‘International Standard’ appear referring to this standard, they should be read as ‘Indian Standard’; and
2. 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:

|  |  |  |
| --- | --- | --- |
| *International Standard* | *Corresponding Indian Standard* | *Degree of*  *Equivalence* |
| 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), IS (xxxxx) Part 1 : 2024, 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:

|  |  |
| --- | --- |
| *International Standard/*  *Other Publication* | *Title* |
| 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*)’. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.