**IS xxxxx (Part 4) : 2024**

***भारतीय मानक***

***Indian Standard***

**ISO 14242-4 : 2018**

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

**भाग 4 घटक स्थिति में भिन्नता के तहत हिप कृत्रिम अंगों का परीक्षण करना जिसके परिणामस्वरूप सीधे किनारे पर भार पड़ता है**

**Implants for Surgery — Wear of Total Hip-Joint Prostheses**

**Part 4 Testing Hip Prostheses Under Variations in Component Positioning which Results in Direct Edge Loading**

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 4) which is identical to ISO 14242-4 : 2018 ‘Implants for surgery —Wear of total hip-joint prostheses Part 4 Testing hip prostheses under variations in component positioning which results in direct edge loading’ 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.

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 14242-1, 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 | MHD02(25893) IS (XXXXX)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 | Identical |
| ISO 14242-2, Implants for surgery — Wear of total hip-joint prostheses Part 2 Methods of measurement | MHD02(25894) IS (XXXXX)Implants for surgery — Wear of total hip-joint prostheses Part 2 Methods of measurement | Identical |
| ISO 14242-3, Implants for surgery — Wear of total hip-joint prostheses Part 3 Loading and displacement parameters for orbital bearing type wear testing machines and corresponding environmental conditions for test | MHD02(25895) IS (XXXXX)Implants for surgery — Wear of total hip-joint prostheses Part 3 Loading and displacement parameters for orbital bearing type wear testing machines and corresponding environmental conditions for test | Identical |

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.