**IS xxxxx : 2024**

***भारतीय मानक***

***Indian Standard***

**ISO 13782 : 2019**

**सर्जरी के लिए प्रत्यारोपण — धातु सामग्री — सर्जिकल प्रत्यारोपण अनुप्रयोगों के लिए शुद्ध टैंटलम**

*(पहला पुनरीक्षण)*

**Implants for Surgery — Metallic Materials — Unalloyed Tantalum for Surgical Implant Applications**

*(First Revision)*

ICS 11.040.10

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BUREAU OF INDIAN STANDARDS

मानक भवन, 9 बहादुर शाह ज़फर मार्ग, नई दिल्ली - 110002

MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG

NEW DELHI - 110002

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NATIONAL FOREWORD

This Indian Standard (First Revision) which is identical to ISO 13782 : 2019 ‘Implants for surgery — Metallic materials — Unalloyed tantalum for surgical implant applications’ issued by the International Organization for Standardization (ISO) was adopted by the Bureau of Indian Standards on the recommendation of the Orthopaedic Instruments, Implants and Accessories Sectional Committee and after approval of the Medical Equipment and Hospital Planning Division Council.

This standard was first published in 2002 and was identical to ISO 13782 : 1996 ‘Implants for surgery — Metallic materials — Unalloyed tantalum for surgical implant applications’. This revision has been brought out to align it with the latest version of ISO 13782 : 2019.

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:

1. Wherever the words ‘International Standard’ appear referring to this standard, they should be read as ‘Indian Standard’.
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 places, are listed below along with their degree of equivalence for the editions indicated:

|  |  |  |
| --- | --- | --- |
| *International Standard* | *Corresponding Indian Standard* | *Degree of Equivalence* |
| ISO 643, Steels — Micrographic determination of the apparent grain size | IS 4748 : 2021/ISO 643 : 2019, Steel — Micrographic determination of the apparent grain size (*third revision*) | Identical |
| ISO 6892-1, Metallic materials — Tensile testing Part 1 Method of test at room temperature | IS 1608 (Part 1) : 2022/ISO 6892-1 : 2019, Metallic materials — Tensile testing Part 1 Method of test at room temperature | Identical |

The standard also makes a reference to the BIS Certification Marking of the product, details of which are given in National Annex A.

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.

**NATIONAL ANNEX A**

(*National Foreword*)

**A-1 BIS CERTIFICATION MARKING**

The product(s) conforming to the requirements of this standard may be certified as per the conformity assessment schemes under the provisions of the *Bureau of Indian Standards Act, 2016* and the Rules and Regulations framed thereunder, and the product(s) may be marked with the Standard Mark.