

**BUREAU OF INDIAN STANDARDS**

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**भारतीय मानक मसौदा**  
**सर्जरी के लिए प्रत्यारोपण - धातु सामग्री - सर्जिकल प्रत्यारोपण**  
**अनुप्रयोगों के लिए शुद्ध टैंटलम**

*(IS 5347 (Part 17) : 2002 का पहला पुनरीक्षण)*

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

*(First Revision of IS 5347 (Part 17) : 2002)*

ICS 11.040.10

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Orthopaedic Instruments, Implants and  
Accessories Sectional Committee, MHD 02

Last date for comments: **17 July 2024**

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**NATIONAL FOREWORD**

*(Adoption clause will be added later)*

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:

- 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 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

In reporting the result of a test or analysis made in accordance with this standard, is to be rounded off, its shall be done in accordance with IS 2 : 2022 ‘Rules for rounding off numerical values (*Second Revision*)’.

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**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 13782:2019 or kindly contact:

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## **SCOPE**

This document specifies the characteristics of, and corresponding test methods for, unalloyed tantalum sheet, rod and wire used in the manufacture of surgical implants.

NOTE 1 Provision is made for two grades of tantalum.