



**International  
Standard**

**ISO 5832-4**

**Implants for surgery — Metallic  
materials —**

**Part 4:  
Cobalt-chromium-molybdenum  
casting alloy**

*Implants chirurgicaux — Matériaux métalliques —*

*Partie 4: Alliage de fonderie en cobalt, chrome et molybdène*

[ISO/PRF 5832-4](https://standards.iteh.ai/catalog/standards/iso/76a1feca-c45e-47b4-8dff-690dc680075f/iso-prf-5832-4)

<https://standards.iteh.ai/catalog/standards/iso/76a1feca-c45e-47b4-8dff-690dc680075f/iso-prf-5832-4>

**Fourth edition**

**PROOF/ÉPREUVE**

Reference number  
ISO 5832-4:2024(en)

© ISO 2024

iTeh Standards  
(<https://standards.iteh.ai>)  
Document Preview

[ISO/PRF 5832-4](https://standards.iteh.ai/catalog/standards/iso/76a1feca-c45e-47b4-8dff-690dc680075f/iso-prf-5832-4)

<https://standards.iteh.ai/catalog/standards/iso/76a1feca-c45e-47b4-8dff-690dc680075f/iso-prf-5832-4>



**COPYRIGHT PROTECTED DOCUMENT**

© ISO 2024

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office  
CP 401 • Ch. de Blandonnet 8  
CH-1214 Vernier, Geneva  
Phone: +41 22 749 01 11  
Email: [copyright@iso.org](mailto:copyright@iso.org)  
Website: [www.iso.org](http://www.iso.org)

Published in Switzerland

**PROOF/ÉPREUVE**

© ISO 2024 – All rights reserved

# Contents

Page

Foreword.....	iv
Introduction.....	v
1 Scope.....	1
2 Normative references.....	1
3 Terms and definitions.....	1
4 Chemical composition.....	1
5 Mechanical properties.....	2
6 Test methods.....	2
Bibliography.....	4

**iTeh Standards**  
**(<https://standards.itih.ai>)**  
**Document Preview**

[ISO/PRF 5832-4](#)

<https://standards.itih.ai/catalog/standards/iso/76a1feca-c45e-47b4-8dff-690dc680075f/iso-prf-5832-4>

**PROOF/ÉPREUVE**

© ISO 2024 – All rights reserved

## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see [www.iso.org/directives](http://www.iso.org/directives)).

ISO draws attention to the possibility that the implementation of this document may involve the use of (a) patent(s). ISO takes no position concerning the evidence, validity or applicability of any claimed patent rights in respect thereof. As of the date of publication of this document, ISO had not received notice of (a) patent(s) which may be required to implement this document. However, implementers are cautioned that this may not represent the latest information, which may be obtained from the patent database available at [www.iso.org/patents](http://www.iso.org/patents). ISO shall not be held responsible for identifying any or all such patent rights.

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see [www.iso.org/iso/foreword.html](http://www.iso.org/iso/foreword.html).

This document was prepared by Technical Committee ISO/TC 150, *Implants for surgery*, Subcommittee SC 1, *Materials*.

This fourth edition cancels and replaces the third edition (ISO 5832-4:2014), which has been technically revised.

The main changes are as follows:

- [ISO/PRF 5832-4](https://standards.itec.ai/catalog/standards/iso/76af1feca-c45e-47b4-8dff-690dc680075f/iso-prf-5832-4) the introduction has been updated;
- [Clause 4](#) on chemical composition has been updated;
- the mechanical testing language has been updated;
- this document has been harmonized with the ISO 5832 series.

A list of all parts in the ISO 5832 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at [www.iso.org/members.html](http://www.iso.org/members.html).

## Introduction

While no known surgical implant material has ever been shown to cause absolutely no adverse reactions in the human body, long-term clinical experience with the material referred to in this document has shown that an acceptable level of biological response can be expected when the material is used in appropriate applications. However, this document covers the raw material and not finished medical devices, where the design and fabrication of the device can impact biological response.

iTeh Standards  
(<https://standards.iteh.ai>)  
Document Preview

[ISO/PRF 5832-4](https://standards.iteh.ai/catalog/standards/iso/76a1feca-c45e-47b4-8dff-690dc680075f/iso-prf-5832-4)

<https://standards.iteh.ai/catalog/standards/iso/76a1feca-c45e-47b4-8dff-690dc680075f/iso-prf-5832-4>

