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Third edition
2022-03

Implants for surgery — Metallic materials —

Part 6: Wrought cobalt-nickel-chromium-molybdenum alloy

Implants chirurgicaux — Matériaux métalliques —

Partie 6: Alliage corroyé à base de cobalt, de nickel, de chrome et de molybdène



Reference number
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Contents

Page

Foreword.....iv

Introduction.....v

1 Scope..... 1

2 Normative references..... 1

3 Terms and definitions..... 1

4 Chemical composition..... 1

5 Microstructure..... 2

 5.1 General..... 2

 5.2 Grain size index..... 2

6 Tensile properties..... 2

7 Test methods..... 3

Foreword

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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 documents 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).

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This document was prepared by Technical Committee ISO/TC 150, *Implants for surgery*, Subcommittee SC 1, *Materials*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 285, *Non-active surgical implants*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This third edition cancels and replaces the second edition (ISO 5832-6:1997) which has been technically revised.

The main changes compared to the previous edition are as follows:

- the introduction has been updated;
- requirements for boron in [Table 1](#) has been added;
- information on grain size in [5.2](#) has been added;
- requirements for tensile properties in [Table 2](#) have been updated and 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.

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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 the biological response.