



# SLOVENSKI STANDARD

SIST EN ISO 21536:2008

01-april-2008

BUXca Yý U.

SIST EN 12564:2000

---

## Neaktivni kirurški vsadki (implantati) - Sklepne proteze - Posebne zahteve za kolenske proteze (ISO 21536:2007)

Non-active surgical implants - Joint replacement implants - Specific requirements for knee-joint replacement implants (ISO 21536:2007)

Nichtaktive chirurgische Implantate - Implantate zum Gelenkersatz - Besondere Anforderungen an Implantate für den Kniegelenkersatz (ISO 21536:2007)

(standards.iteh.ai)

Implants chirurgicaux non actifs - Implants de remplacement d'articulation - Exigences spécifiques relatives aux implants de remplacement de l'articulation du genou (ISO 21536:2007)

<https://standards.iteh.ai/catalog/standards/sist/8f5dca7d-d9cf-4f21-88a2-9d7aeb48cb35/sist-en-iso-21536-2008>

**Ta slovenski standard je istoveten z: EN ISO 21536:2007**

---

### **ICS:**

11.040.40

**SIST EN ISO 21536:2008**

**en**

**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

SIST EN ISO 21536:2008

<https://standards.iteh.ai/catalog/standards/sist/8f5dca7d-d9cf-4f21-88a2-9d7aeb48cb35/sist-en-iso-21536-2008>

English Version

Non-active surgical implants - Joint replacement implants -  
Specific requirements for knee-joint replacement implants (ISO  
21536:2007)

Implants chirurgicaux non actifs - Implants de  
remplacement d'articulation - Exigences spécifiques  
relatives aux implants de remplacement de l'articulation du  
genou (ISO 21536:2007)

Nichtaktive chirurgische Implantate - Implantate zum  
Gelenkersatz - Besondere Anforderungen an Implantate für  
den Kniegelenkersatz (ISO 21536:2007)

This European Standard was approved by CEN on 16 August 2007.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION  
COMITÉ EUROPÉEN DE NORMALISATION  
EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: rue de Stassart, 36 B-1050 Brussels

**Contents**

Page

Foreword.....3

**iTeh STANDARD PREVIEW  
(standards.iteh.ai)**

SIST EN ISO 21536:2008

<https://standards.iteh.ai/catalog/standards/sist/8f5dca7d-d9cf-4f21-88a2-9d7aeb48cb35/sist-en-iso-21536-2008>

## Foreword

This document (EN ISO 21536:2007) has been prepared by Technical Committee ISO/TC 150 "Implants for surgery" in collaboration with Technical Committee CEN/TC 285 "Non-active surgical implants", the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by March 2008, and conflicting national standards shall be withdrawn at the latest by March 2008.

This document supersedes EN 12564:1998.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EC Directive(s).

For relationship with EC Directive(s), see informative Annex ZA which is an integral part of this document.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

(standards.iteh.ai)

### Endorsement notice

SIST EN ISO 21536:2008

The text of ISO 21536:2007 has been approved by CEN as a EN ISO 21536:2007 without any modification.

**Annex ZA**  
(informative)

**Relationship between this European Standard and the Essential Requirements of EU Directive 93/42/EEC**

This European Standard has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association to provide a means of conforming to Essential Requirements of the New Approach Directive 93/42/EEC.

Once this standard is cited in the Official Journal of the European Communities under that Directive and has been implemented as a national standard in at least one Member State, compliance with the clauses of this standard given in table ZA confers, within the limits of the scope of this standard, a presumption of conformity with the corresponding Essential Requirements of that Directive and associated EFTA regulations.

**Table ZA — Correspondence between this International Standard and Directive 93/42/EEC**

Clause(s)/sub-clause(s) of this International Standard	Essential Requirements (ERs) of Directive 93/42/EEC	Qualifying remarks/Notes
4	1, 2, 3, 4, 5, 7.1, 7.2, 9.2	
5	1, 2, 3, 4, 5, 6, 7.1, 9.1, 9.2	
6	1, 2, 3, 4, 7.1, 7.2, 7.3, 7.4, 8.2, 9.1, 9.2	
7	1, 2, 3, 4, 5, 6, 7.1, 7.2, 7.3, 14	
8	1, 2, 3, 4, 5, 7.1, 7.2, 7.3	
9	3, 8.1, 8.3, 8.4, 8.5, 8.6, 8.7, 13.3	Via ISO 14630
10	3, 5, 7.2, 8.1, 8.3, 8.4, 8.5, 8.6, 8.7	Via ISO 14630
11	9.1, 13	
NOTE Clauses 4, 5, 6, 7, 8 and subclause 11.5 supplement and are dependent on the corresponding clauses of ISO 21534.		

**WARNING —** Other requirements and other EU Directives may be applicable to the product(s) falling within the scope of this standard.

---

---

**Non-active surgical implants — Joint  
replacement implants — Specific  
requirements for knee-joint replacement  
implants**

*Implants chirurgicaux non actifs — Implants de remplacement  
d'articulation — Exigences spécifiques relatives aux implants de  
remplacement de l'articulation du genou*

iTeh STANDARD PREVIEW  
(standards.iteh.ai)

SIST EN ISO 21536:2008

<https://standards.iteh.ai/catalog/standards/sist/8f5dca7d-d9cf-4f21-88a2-9d7aeb48cb35/sist-en-iso-21536-2008>



**PDF disclaimer**

This PDF file may contain embedded typefaces. In accordance with Adobe's licensing policy, this file may be printed or viewed but shall not be edited unless the typefaces which are embedded are licensed to and installed on the computer performing the editing. In downloading this file, parties accept therein the responsibility of not infringing Adobe's licensing policy. The ISO Central Secretariat accepts no liability in this area.

Adobe is a trademark of Adobe Systems Incorporated.

Details of the software products used to create this PDF file can be found in the General Info relative to the file; the PDF-creation parameters were optimized for printing. Every care has been taken to ensure that the file is suitable for use by ISO member bodies. In the unlikely event that a problem relating to it is found, please inform the Central Secretariat at the address given below.

**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

SIST EN ISO 21536:2008

<https://standards.iteh.ai/catalog/standards/sist/8f5dca7d-d9cf-4f21-88a2-9d7aeb48cb35/sist-en-iso-21536-2008>



**COPYRIGHT PROTECTED DOCUMENT**

© ISO 2007

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office  
Case postale 56 • CH-1211 Geneva 20  
Tel. + 41 22 749 01 11  
Fax + 41 22 749 09 47  
E-mail [copyright@iso.org](mailto:copyright@iso.org)  
Web [www.iso.org](http://www.iso.org)

Published in Switzerland



## Contents

Page

Foreword.....	iv
Introduction .....	v
1 Scope .....	1
2 Normative references .....	1
3 Terms and definitions.....	1
4 Intended performance .....	2
5 Design attributes.....	2
5.1 General.....	2
5.2 Thickness of ultra-high molecular weight polyethylene (UHMWPE) in tibial components and meniscal components.....	2
5.3 Finish of non-articulating regions of metallic knee joint components .....	3
6 Materials .....	3
7 Design evaluation .....	3
7.1 General.....	3
7.2 Preclinical evaluation.....	3
8 Manufacture.....	3
9 Sterilization.....	4
10 Packaging .....	4
11 Information to be supplied by the manufacturer.....	4
11.1 General.....	4
11.2 Information supplied on the label .....	4
11.3 Constructional compatibility of components .....	4
11.4 Information for the patient .....	4
11.5 Marking .....	4
Annex A (informative) Evaluation of range of relative angular motion of components of fully constrained total knee joint replacement implants.....	5