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Implants for surgery — Hydroxyapatite —

Part 4: Determination of coating adhesion strength

Implants chirurgicaux — Hydroxyapatite —

Partie 4: Détermination de la résistance à l'adhésion du revêtement



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Foreword

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

This second edition cancels and replaces the first edition (ISO 13779-4:2002), which has been technically revised.

A list of all parts in the ISO 13779 series can be found on the ISO website.

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Introduction

Hydroxyapatite coatings are designed to promote adhesion to bone and to be colonized by bone. As a consequence, the mechanical strains in the coating and mechanical properties of the coating after implantation will change with time during the osteointegration of the coating. The aim of initial measurements of the adhesion properties of the coating, in dry conditions, detailed in this document is to guarantee minimum mechanical properties of the coating during implantation. Those minimal properties defined in ISO 13779-2 are for the coating to keep its morphology (thickness, roughness, etc.) during the implantation and to avoid chipping and spalling of the coating during implantation.