



BSI Standards Publication

Implants for surgery — Partial and total hip joint prostheses

Part 12: Deformation test method for press-fit acetabular component

National foreword

This British Standard is the UK implementation of ISO 7206-12:2025. It supersedes BS ISO 7206-12:2016, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee CH/150/4, Surgical Implants - Bone and Joint Replacements.

A list of organizations represented on this committee can be obtained on request to its committee manager.

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Implants for surgery — Partial and total hip joint prostheses —

Part 12: Deformation test method for press-fit acetabular components

Implants chirurgicaux — Prothèses partielles et totales de l'articulation de la hanche —

Partie 12: Méthode d'essai de déformation des composants acétabulaires sans ciment

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Contents

Page

Foreword	iv
Introduction	vi
1 Scope	1
2 Normative references	1
3 Terms and definitions	2
4 Principle	3
5 Apparatus	3
5.1 Loading device	3
5.2 Test specimen selection	6
5.3 Number of samples and testing conditions	6
6 Procedure	6
7 Test report	7
8 Interpretation of results	8
Bibliography	9

Foreword

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This document was prepared by Technical Committee ISO/TC 150, *Implants for surgery*, Subcommittee SC 4, *Bone and joint replacements*.

This second edition cancels and replaces the first edition (ISO 7206-12:2016), which has been technically revised.

The main changes are as follows:

- the third element of the title has been aligned with the scope which states that this test is for press-fit acetabular components;
- the terminology has been aligned with ISO 21535:2023;
- the scope has been revised to clarify that the deformation measurements that are made in this test and how these measurements are then used in an evaluation of risks associated with acetabular cup deformation to determine if acetabular component performance can be adversely affected;
- the term “metal backing deformation” has been changed to “metal shell deformation” and the term “spherical socket deformation” has been deleted in [Clause 3](#);
- a requirement for the clamping jaw material to have a minimum hardness of 60 HRC has been added in [5.1](#);
- the requirement to test all liner articulating surface materials has been changed to a recommendation and a requirement has been added to justify why each liner material was not tested in [5.2](#);
- a new subclause, “[5.3](#) Number of samples and testing conditions”, has been added and corresponding information has been moved to this subclause;
- in [Clause 6](#), the starting rotational orientation for symmetric and asymmetric specimens have been clarified and tolerances have been added to the rotational orientations where needed, a minimum loading rate has been added, a clarification has been added regarding the 0,2 % deformation stopping criterion, the steps for testing monobloc and modular acetabular components have been clarified and corresponding procedure steps have been added;