ISO 15032:2000-04 (E)

Prostheses_- Structural testing of hip units

Contents

Page

Foreword iv

Introduction v

1 Scope 1

2 Normative reference 1

3 Terms and definitions 1

4 Test configurations 2
4.1 General 2
4.2 Axes of coordinate system 2
4.3 Reference planes 2
4.4 Reference points 5
4.5 Test force 5
4.6 Load line 5
4.7 Reference distances 5

5 Test samples 5
5.1 Types of test sample 5
5.2 Responsibilities regarding selection, preparation and alignment of test samples 6
5.3 Selection of test samples 6
5.4 Preparation of test samples 6
5.5 Alignment of test samples 7

6 Test requirements and conditions 8
6.1 Types of test 8
6.2 Test loading requirements 8
6.3 Requirements and conditions relevant to test procedures and equipment 9
6.4 A-P and M-L test procedures 12
6.5 Torsional test procedures 18
6.6 Number of tests required 23
6.7 Restrictions on multiple use of test samples 23
6.8 Accuracy 23

7 Test loading parameters 24
7.1 Test loads and references 24
7.2 Details of loading 25

8 Test submission document 27
8.1 Document need 27
8.2 General requirements 27
8.3 Information required for test samples 28
8.4 Information required for tests 28

9 Test report 29
9.1 General requirements 29
9.2 Records required for all test samples 29
9.3 Records required for all tests 30
9.4 Records required for results of A-P and M-L tests 30
9.5 Records required for results of torsional tests 31

Annex A (normative) **Description of internal loads and their effects** 32

Annex B (informative) **Reference data for the specification of the A-P, M-L and torsional test loading conditions at different test loading levels** 35

Bibliography 38