

STANDARD

13402

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**Surgical and dental hand instruments —
Determination of resistance against
autoclaving, corrosion and thermal
exposure**

*Instruments chirurgicaux et dentaires à main — Détermination de la
résistance au passage à l'autoclave, à la corrosion et à l'explosion à la
chaleur*



Reference number
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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 13402 was prepared by Technical Committee ISO/TC 170, *Surgical instruments*.

Annex A of this International Standard is for information only.

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Introduction

The procedures described in this International Standard are intended to form a harmonized series of tests that may be referred to, individually or in combination, in other separate product standards. The requirements for such tests shall be defined and stated within the body of the product standard along with the number of cycles for each test procedure.

The tests apply to dental and surgical instruments and are already standardized in relevant product standards (e.g. ISO 7151, *Surgical instruments — Non-cutting, articulated instruments — General requirements and test methods*; ISO 9173-1 *Dental extraction forceps — Part 1: Screw and pin joint types*). However, the test procedures as stated in the product standards differ in minor details. An alignment and a compilation was established. The most important test methods for dental and surgical instruments have been brought together in one general International Standard.

Other, additional, tests may also be required in individual product standards; those procedures and requirements will be determined by the members of the working groups concerned. When established, it is intended that these additional test procedures are incorporated in this International Standard as an addendum or at the next revision.

This International Standard does not specify any test sequence nor any requirements related to specific instruments. The requirements, the test sequence and the number of test cycles have to be defined in the relevant product standards or, if no standard is available, it has to be left to the decision of the purchaser and/or the manufacturer.

Apart from the boiling water test, the autoclave test applies for determining corrosion resistance. In this sense, this International Standard specifies two test methods for determining corrosion resistance. When placing an order, it is intended that the purchaser state whether both tests are to be carried out or which of the two tests. If the purchaser does not so indicate, the choice is left to the discretion of the manufacturer.