



**ISO 13402**

**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'exposition à la chaleur*

**Second edition  
2025-03**

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ISO copyright office  
CP 401 • Ch. de Blandonnet 8  
CH-1214 Vernier, Geneva  
Phone: +41 22 749 01 11  
Email: [copyright@iso.org](mailto:copyright@iso.org)  
Website: [www.iso.org](http://www.iso.org)

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This document was prepared by Technical Committee ISO/TC 170, *Surgical instruments*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 55, *Dentistry*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This second edition cancels and replaces the first edition (ISO 13402:1995), which has been technically revised.

The main changes are as follows:

- restructuring of the document;
- update of [Clause 2](#);
- addition of [Clause 3](#);
- addition of [Clause 4](#) including a table with an overview of test methods;
- addition of [Clause 5](#);
- addition of [Annexes A](#) to [H](#) including test methods.

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The procedures described in this document form a harmonized series of tests that can be referred to, individually or in combination, in other separate product standards. The requirements for such tests are 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, ISO 9173-1). However, the test procedures as stated in the product standards differ in minor details. An alignment and a compilation were established.

The most important test methods for dental and surgical instruments have been compiled in this document.