
Dentistry — Corrosion test methods for dental amalgam

*Médecine bucco-dentaire — Essais de corrosion des amalgames
dentaires*

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Foreword

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 106, *Dentistry*, Subcommittee SC 1, *Filling and restorative materials*.

This second edition cancels and replaces the first edition (ISO/TS 17988:2014), which has been technically revised. The main changes to the previous edition are as follows:

- The scope has been extended to include products that are within the scope of ISO 20749.
- [Clause 3](#) includes additional terms and definitions.
- [Clause 4](#): quantities required for the production of test-pieces for each of the three test procedures are given now as the mass of dental amalgam alloy per test-piece, in place of the total mass of dental amalgam alloy for the complete test (i.e. the estimated quantity for all test-pieces including permitted replacements).
- [5.2.2.2](#) and [5.3.2](#): the parameter R_a has replaced R_k to specify surface roughness on steel moulds.
- [5.3.2](#): the surface roughness of the tapered hole in the Hertzian-indentation strength-reduction test-piece mould has been revised.
- [8.3.1.1](#) and [8.3.1.2](#): two additional items have been added to the list of apparatus.
- [8.3.1.4](#): blood dilution vials without protuberances on the interior base surface might not be available. A means by which the required flat surface can be created has been added.
- [8.3.4](#) and [8.4.2.2](#): a technical addition has been made to the procedure. Instructions are given for replacing test-pieces from which invalid results had been produced. Also, advice is given to make the maximum number of permitted replacements at the time that the actual test-pieces are made (to avoid a possible 31-day delay should a result be invalid and a replacement test-piece be required).
- [8.4.2.2](#): instructions are given to inspect the substrate disc and to replace it if damage is observed.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

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