

INTERNATIONAL ISO
STANDARD 9693

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Second edition
1999-12-15

Metal-ceramic dental restorative systems

Systèmes pour restaurations dentaires métallo-céramiques



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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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 3.

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 9693 was prepared by Technical Committee ISO/TC 106, *Dentistry*, Subcommittee SC 2, *Prosthetic materials*.

Attention is drawn to the possibility that some of the elements of this International Standard may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

This second edition cancels and replaces the first edition (ISO 9693:1991), which has been technically revised.

Significant differences between this second edition and the first edition are:

- the scope includes metallic materials (not only alloys) processed by casting or machining;
- a requirement (4.3.3) and a test (6.3.3) on the debonding/crack-initiation strength for the metal-ceramic system have been added, replacing the previous requirement and test related to metal-ceramic bond characterization.

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Introduction

Dental metallic materials and ceramics are suitable for use in fabrication of metal-ceramic dental restorations.

Specific qualitative and quantitative requirements for freedom from biological hazards are not included in this International Standard, but it is recommended that, in assessing possible biological hazards, reference be made to ISO 10993-1 and ISO 7405.

Requirements and test methods for tarnish and corrosion resistance for the components and for the metal-ceramic system will be included in the future when they are available.