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Dental base metal casting alloys — **Part 2:** Nickel-based alloys

Alliages dentaires non précieux à couler —
Partie 2: Alliages à base de nickel



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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 6871-2 was prepared by Technical Committee ISO/TC 106, *Dentistry*, Subcommittee SC 2, *Prosthetic materials*.

This first edition of ISO 6871-2, together with ISO 6871-1, cancel and replace the first edition of ISO 6871 published in 1987, of which they constitute a technical revision.

ISO 6871 consists of the following parts, under the general title *Dental base metal casting alloys*:

- *Part 1: Cobalt-based alloys*
- *Part 2: Nickel-based alloys*

Annex A forms an integral part of this part of ISO 6871. Annexes B and C are for information only.

Introduction

Dental base metal casting alloys are suitable for use in fabrication of removable dental appliances.

Specific qualitative and quantitative requirements of freedom from biological hazard are not included in this part of ISO 6871 but it is recommended that, in assessing possible biological or toxicological hazards, reference should be made to ISO/TR 7405^[2] and ISO 10993-1^[4].

For other compositions the manufacturer has to present adequate evidence of biological investigations in accordance with ISO/TR 7405 or ISO 10993-1, and/or clinical investigations in order to assess the biological response of the material.

Specific quantitative requirements for corrosion resistance are not included in this part of ISO 6871. In order to get information of the kind and amount of metal ions leached from the alloy, reference should be made to ISO/TR 10271^[3], reference number 14, Static immersion test, described in annex A.

Beryllium is considered to be hazardous in handling unless adequate precautions are met. Annex B contains those recommended precautions which are known to be adequate at the time of publication of this part of ISO 6871.