INTERNATIONAL STANDARD

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AMENDMENT 1
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Dentistry — Ceramic denture teeth

AMENDMENT 1

Produits et matériel pour l'art dentaire — Dents en céramique

AMENDEMENT 1

Reference number
ISO 4824:1993/Amd.1:1997(E)

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.

Amendment 1 to International Standard ISO 4824:1993 was prepared by Technical Committee ISO/TC 106, *Dentistry*, Subcommittee SC 2, *Prosthodontic materials*.

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Replace existing subclause 4.1 with the following text.

4.1 Radioactivity of ceramic material

Dental ceramic materials shall have an activity concentration of not more than 1,0 $Bq \cdot g^{-1}$ of uranium-238. Test in accordance with 6.7.

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After subclause 6.6.4 add the following subclause 6.7.

6.7 Radioactivity

6.7.1 Sample preparation

If the teeth contain pins, crush lightly to remove pins, then continue milling in a tungsten-carbide mill or an alumina ceramic mill. Sieve and obtain 50 g of powder with particle size less than 75 μm.

6.7.2 Counting procedure

Use a sample volume of 60 ml bulk powder and determine the activity concentration of uranium-238 by neutron activation.

6.7.3 Assessment of results

Each sample tested shall comply with the requirements in 4.1.