



SLOVENSKI STANDARD
SIST EN ISO 13716:2001

01-november-2001

Dentistry - Reversible-irreversible hydrocolloid impression material systems (ISO 13716:1999)

Dentistry - Reversible-irreversible hydrocolloid impression material systems (ISO 13716:1999)

Zahnheilkunde - Reversible-irreversible Hydrokolloid-Abformmaterialiensysteme (ISO 13716:1999)

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Art dentaire - Systemes de produits pour empreintes a base d'hydrocolloides réversibles-irréversibles (ISO 13716:1999)

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11.060.10 Zobotehnični materiali Dental materials

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en

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 13716

August 2000

ICS 11.060.10

English version

Dentistry - Reversible-irreversible hydrocolloid impression
material systems (ISO 13716:1999)

Art dentaire - Systèmes de produits pour empreintes à
base d'hydrocolloïdes réversibles-irréversibles (ISO
13716:1999)

Zahnheilkunde - Reversible-irreversible Hydrokolloid-
Abformmaterialiensysteme (ISO 13716:1999)

This European Standard was approved by CEN on 9 June 2000.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

Foreword

The text of the International Standard from Technical Committee ISO/TC 106 "Dentistry" of the International Organization for Standardization (ISO) has been taken over as an European Standard by Technical Committee CEN/TC 55 "Dentistry", the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by February 2001, and conflicting national standards shall be withdrawn at the latest by February 2001.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

Endorsement notice

The text of the International Standard ISO 13716:1999 has been approved by CEN as a European Standard without any modification.

NOTE: Normative references to International Standards are listed in annex ZA (normative).

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Annex ZA (normative)

Normative references to international publications with their relevant European publications

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN</u>	<u>Year</u>
ISO 1563	1990	Alginate dental impression material	EN 21563	1991
ISO 1564	1995	Dental aqueous impression materials based on agar	EN ISO 1564	1998
ISO 1942-1		Dental vocabulary - Part 1: General and clinical terms	EN 21942-1	1991
ISO 1942-2	1989	Dental vocabulary - Part 2: Dental materials	EN 21942-2	1992
ISO 1942-3	1989	Dental vocabulary - Part 3: Dental instruments	EN 21942-3	1993
ISO 1942-4	1989	Dental vocabulary - Part 4: Dental equipment	EN 21942-4	1993
ISO 1942-5	1989	Dental vocabulary - Part 5: Terms associated with testing	EN ISO 1942-5	1994

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STANDARD

ISO
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First edition
1999-05-01

**Dentistry — Reversible-irreversible
hydrocolloid impression material systems**

*Art dentaire — Systèmes de produits pour empreintes à base
d'hydrocolloïdes réversibles-irréversibles*

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Contents

	Page
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Requirements	2
5 Sampling	2
6 Test methods — General	2
7 Tensile bond strength	3
8 Linear dimensional change test	5
9 Information required in manufacturer's instructions	7
10 Requirements for labelling	8
Bibliography	15

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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 13716 was prepared by Technical Committee ISO/TC 106, *Dentistry*, Subcommittee SC 2, *Prosthetic materials*.

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Introduction

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

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Dentistry — Reversible-irreversible hydrocolloid impression material systems

1 Scope

This international Standard specifies requirements and test methods for tensile bond strength and linear dimensional change of reversible-irreversible hydrocolloid impression materials used in dentistry, as well as requirements for their labelling and manufacturer's instructions.

This International Standard is applicable to those alginate and syringeable agar dental impression materials which have been formulated such that they will bond to each other, when used in combination, to provide elastic impressions of oral tissues.

NOTE Requirements for other characteristics and properties of these impression materials are given in ISO 1563 and ISO 1564.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this International Standard. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO 1563:1990, *Dental alginate impression material*.

ISO 1564:1995, *Dental aqueous impression materials based on agar*.

ISO 1942 (all parts), *Dental vocabulary*.

3 Terms and definitions

For purposes of this International Standard, the terms and definitions given in ISO 1942 and the following apply.

3.1 bond

(between dental reversible and irreversible impression materials) adherence of the materials to each other after both materials have set

3.2 storing

(of agar impression material) conditioning of the material, immediately after liquefaction, to reduce and maintain the temperature required for use in a succeeding step

3.3 tensile bond strength

(of reversible-irreversible impression material specimen) force per unit area required to create a rupture in a specimen tested in the tensile mode