

Dental aqueous impression materials based on agar

The European Standard EN ISO 1564:1998 has the status of a
British Standard

ICS 11.060.10

NO COPYING WITHOUT BSI PERMISSION EXCEPT AS PERMITTED BY COPYRIGHT LAW



Document Sharing Hub

National foreword

This British Standard is the English language version of EN ISO 1564:1998. It is identical with ISO 1564:1995. It supersedes BS EN 21564:1991 which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee CH/51, Prosthodontic materials, which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible international/European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

A list of organizations represented on this committee can be obtained on request to its secretary.

Cross-references

Attention is drawn to the fact that CEN and CENELEC Standards normally include an annex which lists normative references to international publications with their corresponding European publications. The British Standards which implement international or European publications referred to in this document may be found in the BSI Standards Catalogue under the section entitled “International Standards Correspondence Index”, or by using the “Find” facility of the BSI Standards Electronic Catalogue.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, the EN ISO title page, page 2, the ISO title page, pages ii to iv, pages 1 to 14 and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

This British Standard, having been prepared under the direction of the Health and Environment Sector Committee, was published under the authority of the Standards Committee and comes into effect on 15 February 1999

© BSI 05-1999

ISBN 0 580 30997 5

Amendments issued since publication

Amd. No.	Date	Comments

Contents

	Page
National foreword	Inside front cover
Foreword	2
Foreword	iii
Text of ISO 1564	1

English version

Dental aqueous impression materials based on agar

(ISO 1564:1995)

Produits dentaires hydrauliques pour
empreintes à base d'agar-agar
(ISO 1564:1995)

Dentale Abformmassen auf Agarbasis
(ISO 1564:1995)

This European Standard was approved by CEN on 20 November 1998.

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.

CEN

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 replaces EN 21564:1990.

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 May 1999, and conflicting national standards shall be withdrawn at the latest by May 1999.

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 1564:1995 has been approved by CEN as a European Standard without any modification.

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

INTERNATIONAL STANDARD

**ISO
1564**

Second edition
1995-11-01

Dental aqueous impression materials based on agar

Produits dentaires hydrauliques pour empreintes à base d'agar-agar



Contents

	Page
Foreword	iii
1 Scope	1
2 Normative references	1
3 Definitions	1
4 Classification by type	1
5 Requirements for characteristics and physical properties	1
5.1 Biocompatibility	2
5.2 Homogeneity (Sol state)	2
5.3 Consistency: types 1 and 2 (Sol state)	2
5.4 Extrudability: types 2 and 3 (Sol state)	2
6 Sampling	2
7 Test methods: basic conditions and procedures	2
7.1 Specimen preparation	2
7.2 Test conditions	2
7.3 Number of specimens to be tested for pass/fail determinations	2
7.4 Expression of results	2
8 Test procedures	2
8.1 Homogeneity: type 1 only	2
8.2 Consistency: types 1 and 2	3
8.3 Extrudability: types 2 and 3	3
8.4 Extrusion temperature: types 2 and 3	3
8.5 Gelation temperature	3
8.6 Detail reproduction	4
8.7 Compatibility with gypsum	4
8.8 Recovery from deformation	6
8.9 Strain in compression	10
8.10 Resistance to tearing	10
9 Required instructions for use	12
10 Requirements for packaging and marking	13
10.1 Packaging	13
10.2 Labelling and marking	13
Annex ZA (normative) Normative references to international publications with their relevant European publications	14
Figure 1 — Apparatus for gelation temperature test	5
Figure 2 — Apparatus for detail reproduction and compatibility with gypsum test	7
Figure 3 — Split mould for forming specimens for testing properties in compression	8
Figure 4 — Apparatus for determining recovery from deformation	9
Figure 5 — Apparatus for determining strain in compression	11
Figure 6 — Pattern for specimen for resistance to tearing test	13
Table 1 — Required property value limits	1

Descriptors: Dentistry, dental materials, dental impressions, agar, classification, specifications, materials specifications, physical properties, mechanical properties, tests, physical tests, mechanical tests, test equipment, marking, labelling, packaging.