

Dentistry - Water-based cements - Part 2: Resin-modified cements

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NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN ISO 9917-2:2010 sisaldab Euroopa standardi EN ISO 9917-2:2010 ingliskeelset teksti.

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English Version

Dentistry - Water-based cements - Part 2: Resin-modified cements (ISO 9917-2:2010)

Médecine bucco-dentaire - Ciments à base d'eau - Partie 2:
Ciments modifiés par addition de résine (ISO 9917-2:2010)

Zahnheilkunde - Wasserhärtende Zemente - Teil 2:
Kunststoffmodifizierte Zemente (ISO 9917-2:2010)

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Foreword

This document (EN ISO 9917-2:2010) has been prepared by Technical Committee ISO/TC 106 "Dentistry" in collaboration with 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of an identical text or by endorsement, at the latest by October 2010, and conflicting national standards shall be withdrawn at the latest by October 2010.

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Endorsement notice

The text of ISO 9917-2:2010 has been approved by CEN as a EN ISO 9917-2:2010 without any modification.

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Introduction

This part of ISO 9917 has been prepared in order to present the requirements and test methods for cements in which setting is achieved by a combination of an acid-base reaction and polymerization. The polymerization component of the reaction may be activated by mixing different components or through application of energy from an external source. As far as possible, test methods employed within this part of ISO 9917 have been harmonized with those used in ISO 4049 and ISO 9917-1.

Specific qualitative and quantitative requirements for freedom from biological hazard are not included in this part of ISO 9917, but it is recommended that reference be made to ISO 10993-1 and ISO 7405 when assessing possible biological or toxicological hazards.

Dentistry — Water-based cements —

Part 2: Resin-modified cements

1 Scope

This part of ISO 9917 specifies requirements and test methods for dental cements that are intended for luting, base or lining and restoration purposes and for which the materials are water-based and set by multiple reactions in which setting is achieved by a combination of an acid-base reaction and polymerization.

EXAMPLE Conventional glass polyalkenoate cements are normally formed by reacting an ion-leachable aluminosilicate glass with a polyalkenoic acid in an aqueous environment. Materials that fall within the scope of this part of ISO 9917 will normally be able to effect setting by such an aqueous acid-base type reaction but in addition will be able to undergo setting by polymerization.

NOTE Attention of manufacturers and test laboratories is drawn to the closely-related International Standards ISO 4049 and ISO 9917-1. Consideration should be given as to which is the most appropriate International Standard by which to evaluate any individual product.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 1942, *Dentistry — Vocabulary*

ISO 3665:1996, *Photography — Intra-oral dental radiographic film — Specification*

ISO 3696, *Water for analytical laboratory use — Specification and test methods*

ISO 7491, *Dental materials — Determination of colour stability*

ISO 8601, *Data elements and interchange formats — Information interchange — Representation of dates and times*

3 Terms and definitions

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

3.1

mixing time

that part of the working time required in order to obtain a satisfactory mix of the components

NOTE Materials that fall within the scope of this part of ISO 9917 include materials that require mixing and single component materials that do not require mixing.