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SYNOPSIS

IS/ISO 9917-1: 2007 Dentistry -- Water-based cements -- Part 1: Powder/ liquid acid-base cements

a) Scope:

This part of IS/ISO 9917 specifies requirements and test methods for powder/liquid acid-base dental cements intended for permanent cementation, lining and restoration. This part of IS/ISO 9917 is applicable to both hand – mixed and capsulated cements for mechanical mixing. This part of IS/ISO 9917 specifies limits for each of the properties according to whether the cement is intended for use as a luting agent, a base or liner or as a restorative material. This part of IS/ISO 9917 is not intended to address resin-modified water-based cements.

b) Salient features of content:

The Dentistry Cement materials are used for various applications in dentistry like luting, bases or lining and restoration.

This Standard specifies the terms and definitions, classifications, materials, preparation of test specimens, sampling, requirements, marking and methods of tests of net setting time, film thickness, compressive strength, determination of acid erosion, determination of optical properties, determination of acid-soluble arsenic and lead contents and determination of radio opacity.

This standard will be useful for manufacturers, users, distributors and other stakeholders.

c) Type/grades/classes, if any covered in the standard: Classified on basis of Chemical Composition as :

- i) Zinc phosphate cement,
- ii) Zinc polycarboxylate cement,
- iii) Glass polyalkenoate cement.