### **BUREAU OF INDIAN STANDARDS**

## DRAFT FOR COMMENTS ONLY

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भारतीय मानक मसौदा

# दंत चिकित्सा - दांत की संरचना के लिए टेंसाइल बॉन्ड स्ट्रेंथ के परीक्षण के तरीके

Draft Indian Standard

# Dentistry — Test Methods for Tensile Bond Strength to Tooth Structure

ICS 11.060.10

Dentistry Sectional Committee, MHD 08

Last date for comments: 13 April 2024

#### NATIONAL FOREWORD

(Adoption clause will be added later)

The text of ISO Standard has been approved as suitable for publication as an Indian Standard without deviations. Certain conventions are however not identical to those used in Indian Standards. Attention is particularly drawn to the following:

- a) Wherever the words 'International Standard' appear referring to this standard, they should be read as 'Indian Standard'
- b) Comma (,) has been used as a decimal marker while in Indian Standards, the current practice is to use a point (.) as the decimal marker.

In this adopted standard, reference appears to certain International Standards for which Indian Standards also exist. The corresponding Indian Standards which are to be substituted in their respective places are listed below along with their degree of equivalence for the editions indicated:

International Standard Corresponding Indian Standard Degree of Equivalence

IS 17895 : 2023/ISO 1942 : 2020, Identical

ISO 1942, Dentistry — Vocabulary IS 17895 : 2023/ISO 1942 : 2020, Identical Dentistry Vocabulary

Dentistry vocabulary

ISO 3696, Water for analytical IS 1070: 2023, Reagent grade water Modified laboratory use — Specification and - Specification (*Fourth Revision*) test methods

ISO 6344-3, Coated abrasives PGD/09/23641, Coated Abrasives Identical Determination and designation of grain size distribution Part 3: grain size distribution Part 3 Microgrit sizes P240 to P5000 Microgrit sizes P240 to P5000

In reporting the result of a test or analysis made in accordance with this standard, is to be rounded off, it shall be done in accordance with IS 2: 2022 'Rules for rounding off numerical values (second revision)'.

Doc No: MHD 08(25040) WC March 2024

# Scope

This document gives guidance on substrate selection, storage and handling as well as essential characteristics of tensile bond strength test methods for quality testing of the adhesive bond between restorative dental materials and tooth structure, i.e. enamel and dentine. Some specific test methods for tensile bond strength measurements are given in Annex A.

This document does not include requirements for components of adhesive materials and their performance.

The technical content of the document has not been enclosed as it is identical with the corresponding ISO standard. For details, please refer to ISO/TS 4640: 2023 or kindly contact:

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