BUREAU OF INDIAN STANDARDS

DRAFT FOR COMMENTS ONLY

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भारतीय मानक मसौदा

दंत चिकित्सा - हर्ट्ज़ियन इंडेंटेशन स्ट्रेंथ (एचआईटी) विधि द्वारा दंत मिश्रण की ताकत का निर्धारण

Draft Indian Standard

Dentistry — Determination of the Strength of Dental Amalgam by the Hertzian Indentation Strength (HIT) Method

ICS 11.060.10

Dentistry Sectional Committee, MHD 08

Last date for comments: 24 May 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
Determination and designation of	PGD/09/23647, Coated Abrasives Determination and designation of grain size distribution Part 2 Macrogrit sizes P12 to P220	Identical
*	PGD/09/23641, Coated Abrasives Determination and designation of	Identical

grain size distribution Part 3: Microgrit sizes P240 to P5000	0	
ISO 21920-2, Geometrical product specifications (GPS) Surface texture: Profile Part 2: Terms, definitions and surface texture parameters	specifications (GPS)- Surface	Identical
ISO 24234, Dentistry — Dental amalgam	IS 18495 : 2024/ ISO 24234 : 2021, Dentistry - Dental amalgam (<i>Second</i> <i>Revision</i>)	Identical

The technical committee has reviewed the provisions of the following International Standards referred in this adopted standard and has decided that they are acceptable for use in conjunction with this standard:

International Standard ISO 7488	<i>Title</i> Dentistry — Mixing machines for dental amalgam
ISO 13897	Dentistry — Dental amalgam reusable mixing-capsules

This standard includes modification of cross reference from ISO 13565-2 to ISO 21920-2. Wherever reference to ISO 13565-2 occurs in the text, ISO 21920-2 has to be substituted.

This Standard also includes modification of ISO 6344-1 to two parts i.e. ISO 6344-2: 2021 and ISO 6344-3: 2021.

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*)'.

Scope

This document gives the practical details of the test method for the measurement of the strength of a dental amalgam by the Hertzian indentation strength test (HIT) method.

It is applicable to dental amalgam formed from products that are within the scope of ISO 24234 and ISO 20749.

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 20746: 2016 or kindly contact:

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