

BUREAU OF INDIAN STANDARDS

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भारतीय मानक मसौदा
दंत चिकित्सा — पॉलिमर-आधारित कम्पोज़िट मशीनेबल ब्लैंक्स

Draft Indian Standard
Dentistry — Polymer-Based Composite Machinable Blanks

[ICS 11.060.10]

Dentistry Sectional Committee, MHD 08

Last date for comments: **18 July 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:

- Wherever the words 'International Standard' appear referring to this standard, they should be read as 'Indian Standard'
- 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:

<i>International Standard</i>	<i>Corresponding Indian Standard</i>	<i>Degree of Equivalence</i>
ISO 1942, Dentistry — Vocabulary	IS 17895 : 2023/ISO 1942 : 2020, Dentistry — Vocabulary	Identical
ISO 3696:1987, Water for analytical laboratory use — Specification and test methods	IS 1070 : 2023, Reagent grade water - Specification (<i>Fourth Revision</i>)	Not Equivalent
ISO 4049:2019, Dentistry — Polymer-based restorative materials	IS 10011 : 2022, Dentistry — Polymer-Based Restorative	Modified

Materials (ISO 4049 :2019, MOD)
(*Second Revision*)

ISO 6344-3, Coated abrasives — Determination and designation of grain size distribution — Part 3: Microgrit sizes P240 to P5000	— PGD/09/23641, Coated Abrasives — Determination and Designation of Grain Size Distribution Part 3 Microgrit Sizes P240 to P5000 (<i>Second Revision</i>)	Identical
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ISO 6872:2015, Dentistry Ceramic materials	— MHD/08/25042, Dentistry Ceramic Materials	— Identical
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ISO 8601-1, Date and time Representations for information interchange — Part 1: Basic rules	— IS/ISO 8601-1 : 2019, Date and Time - Representations For Information Interchange Part 1 Basic Rules	Identical
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ISO 18675:2022, Dentistry Machinable ceramic blanks	— MHD/08/25048, Dentistry Machinable Ceramic Blanks	— Identical
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This standard also makes a reference to the BIS Certification Marking of the product. Details of which is given in National Annex A.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test shall be rounded off in accordance with IS 2: 2022 ‘Rules for rounding off numerical values (*second revision*)’.

NATIONAL ANNEX A
(National Foreword)

A-1 BIS CERTIFICATION MARKING

The product(s) conforming to the requirements of this standard may be certified as per the conformity assessment schemes under the provisions of the *Bureau of Indian Standards Act, 2016* and the Rules and Regulations framed thereunder, and the product(s) may be marked with the Standard Mark.

Scope

This document specifies the characteristics of polymer-based composite machinable blanks with respect to the milling process and provides the test methods that address the clinical issues specific to those materials. In addition, this document specifies the items to be described on the packaging and materials, as well as descriptions to be included in the instructions for use.

The polymer-based composite machinable blanks covered in this document are blanks that are used for fabricating permanent dental restorative appliances (e.g. single crowns or inlays) by milling processes. They do not include large-sized blanks (e.g. discs) that allow for the fabrication of two or more units of crowns or bridges from one blank or materials for temporary use.

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 5139:2023 or kindly contact:

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