

BUREAU OF INDIAN STANDARDS

DRAFT FOR COMMENTS ONLY

(Not to be reproduced without permission of BIS or used as an Indian Standard)

भारतीय मानक मसौदा

दंत चिकित्सा — विद्युत चालित दूधब्रश की भौतिक विशेषताएँ

Draft Indian Standard

Dentistry — Physical Properties of Powered Toothbrushes

[ICS 97.170]

Dentistry Sectional Committee, MHD 08

Last date for comments: **15 June 2025**

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’; and
- 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:

| <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 Water for analytical laboratory use — Specification and test methods | IS 1070 : 2023 Reagent grade water — Specification (<i>fourth revision</i>) | Technically Equivalent |
| IEC 60068-2-75 Environmental testing — Part 2-75: Tests — Test Eh: Hammer tests | IS 9000 (Part 7/Sec 7) : 2020/IEC 60068-2-75 : 2014 Environmental testing Part 7 Tests Section 7 Test Eh: Hammer tests (<i>first revision</i>) | Identical |

| | | |
|---|--|-----------|
| IEC 60335-1 Household and similar electrical appliances — Safety — Part 1: General requirements | IS 302 (Part 1) : 2024/IEC 60335-1 : 2020 Household and similar electrical appliances — Safety Part 1 General requirements (<i>seventh revision</i>) | Identical |
|---|--|-----------|

The Committee responsible for the preparation of this standard 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:

| <i>International Standard</i> | <i>Title</i> |
|-------------------------------|---|
| IEC 60335-2-52 | Household and similar electrical appliances — Safety — Part 2-52: Particular requirements for oral hygiene appliances |

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*)’. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

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 requirements and test methods for the physical properties of powered toothbrushes in order to promote the safety of these products for their intended use.

There are different technologies of powered toothbrushes. Common features of those powered toothbrushes to which this document applies are:

- a battery;
- a motor;
- a mechanical or magnetic drive system;
- a moving brush head with tufted filaments.

Powered toothbrushes can have a moving brush head with different motions (e.g. oscillating-rotating, side-by-side), frequencies and velocities.

The requirements listed in this document apply to all types of powered toothbrushes. However, there is a possibility that some requirements are not applicable for all types, for example brush head plate retention can only be applied if the brush has a head portion that might get detached from the brush shaft.

This document is not applicable to other types of powered oral hygiene devices (such as powered interdental brushes) or manual toothbrushes.

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 20127 : 2025 or kindly contact:

Head
Medical Equipment and Hospital Planning Department
Bureau of Indian Standards
9 Bahadur Shah Zafar Marg
New Delhi-110002
Email: mhd8@bis.gov.in
mhd@bis.gov.in