

**BUREAU OF INDIAN STANDARDS**

**DRAFT FOR COMMENTS ONLY**

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*भारतीय मानक मसौदा*  
**दंत चिकित्सा — दंत भट्टी — अलग थर्मोकपल के साथ तापमान माप  
के लिए परीक्षण पद्धति**

*Draft Indian Standard*  
**Dentistry — Dental Furnace — Test Method for Temperature  
Measurement with Separate Thermocouple**

**[ICS 11.060.20]**

Dentistry Sectional Committee, MHD 08

Last date for comments: **1 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
IEC 60584-1 Thermocouples — Part 1: Reference tables	IS 16923 (Part 1) : 2018/IEC 60584-1 : 2013 Thermocouples Part 1 EMF specifications and tolerances ( <i>first revision</i> )	Identical
IEC 60584-3 Thermocouples — Part 3: Extension and	IS 16923 (Part 3) : 2023/IEC 60584-3 : 2021 Thermocouples	Identical

compensating cables — Part 3 Extension and Tolerances and identification compensating cables — system Tolerances and identification system	ISO 6872, Dentistry — IS 18813:2024/ ISO 6872, Ceramic materials Dentistry — Ceramic materials	Identical
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This Standard refers to IEC 60584-1 and IEC 60584-2. Both the IEC Standards have been merged in a single Standard i.e. IEC 60584-1.

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

## **Scope**

This International Standard specifies a test method for the calibration of dental furnaces that are suitable for the heat treatment of silica-based dental ceramic restorations in the temperature range between 600 °C and 1 050 °C. This International Standard does not include furnaces intended to sinter zirconium oxide-frameworks (in the temperature range of 1 350°C or higher).

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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 13078 : 2013 or kindly contact:

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