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Dentistry - Colour tabs for intraoral tooth colour determination (ISO 22598:2020)

Táto norma obsahuje anglickú verziu európskej normy. This standard includes the English version of the European Standard.

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Dentistry - Colour tabs for intraoral tooth colour determination (ISO 22598:2020)

Médecine bucco-dentaire - Plaquettes de teinte pour la determination de la teinte dentaire intra-buccale (ISO 22598:2020)

Zahnheilkunde - Farbschlüssel für die intraorale Zahnfarbbestimmung (ISO 22598:2020)

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EN ISO 22598:2020 (E)

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European foreword

This document (EN ISO 22598:2020) has been prepared by Technical Committee ISO/TC 106 "Dentistry" in collaboration with Technical Committee CEN/TC 55 "Dentistry" the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by March 2021, and conflicting national standards shall be withdrawn at the latest by March 2021.

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Dentistry — Colour tabs for intraoral tooth colour determination

Médecine bucco-dentaire — Plaquettes de teinte pour la détermination de la teinte dentaire intra-buccale



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ISO 22598:2020(E)

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 106, *Dentistry*, Subcommittee SC 2, *Prosthodontic materials*.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

ISO 22598:2020(E)

Introduction

In dentistry, colour matching, colour communication among dentist and dental technician (indirect restorations) and colour reproduction and verification are essential elements for a successful aesthetic restoration. Other important appearance attributes include translucency/opacity, gloss, opalescence and fluorescence.

Questions regarding the principles of chromatics and the individual colour perception have been controversially discussed for years between those involved. Today, various systems are available for the purpose of objectivizing tooth colour perception. The most common method is the colour comparison using reference colours being supplied in the form of shade guides consisting of tooth shaped colour tabs made of ceramic, for a dental colour system. The objective of this document is to specify test methods for such colour tabs. This document does not cover colour samples, which are produced by each manufacturer to demonstrate colour effects usually of all components of a given individually designed assortment. These colour samples are not used to determine the colour *in vivo* and are not provided in a tooth-shaped form.

Dentistry — Colour tabs for intraoral tooth colour determination

1 Scope

This document specifies requirements for tooth-like colour representations made of ceramic materials used to determine the tooth colour in the patient's mouth or to check the colour of dental prosthesis, which are referred to as colour tabs in this document.

The colour coordinates of colour tabs are left to the manufacturers' discretion.

Resources for visualizing the colours of ceramic and other masses, e.g. mass shade guides and colour patterns for certain ceramic and other masses, do not fall into the scope of this document. They can be manufactured from any materials and serve solely to illustrate the colour effect; they do not serve to determine colour inside the mouth.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 1942, Dentistry — Vocabulary

ISO 8601-1, Date and time — Representations for information interchange — Part 1: Basic rules

ISO 8601-2, Date and time — Representations for information interchange — Part 2: Extensions

ISO 11664-2, Colorimetry — Part 2: CIE standard illuminants

ISO 15223-1, Medical devices — Symbols to be used with medical device labels, labelling and information to be supplied — Part 1: General requirements

ISO/TR 28642, Dentistry — Guidance on colour measurement

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