SLOVENSKI STANDARD
oSIST prEN ISO 15098:2023

01-julij-2023

Zobozdravstvo - Dentalne pincete (ISO/DIS 15098:2023)

Dentistry - Dental tweezers (ISO/DIS 15098:2023)

Zahnheilkunde - Dentalpinzetten (ISO/DIS 15098:2023)

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Médecine bucco-dentaire Précelles dentaires (ISO/DIS 15098:2023)

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ICS:

11.060.20 Zobotehnična oprema Dental equipment

oSIST prEN ISO 15098:2023 **en,fr,de**

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DRAFT INTERNATIONAL STANDARD

ISO/DIS 15098

ISO/TC **106**/SC **4** Secretariat: **DIN**

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Dentistry — Dental tweezers

Médecine bucco-dentaire — Précelles dentaires

ICS: 11.060.20

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Foreword

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This document was prepared by Technical Committee ISO/TC 106, *Dentistry*, Subcommittee SC 4, *Dental instruments*.

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This second edition of ISO 15098 cancels and replaces ISO 15098:2020. The main changes are the following:

— Replacing “?” with “12” in Table 1.

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Dentistry — Dental tweezers

1 Scope

This document specifies general requirements and test methods for metallic dental tweezers of the Meriam type and for College type.

This document is not applicable to anatomical tweezers and surgical tweezers.

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 1101, *Geometrical product specifications (GPS) — Geometrical tolerancing — Tolerances of form, orientation, location and run-out*

ISO 1942, *Dentistry — Vocabulary*

ISO 2768-1, *General tolerances — Part 1: Tolerances for linear and angular dimensions without individual tolerance indications*

ISO 6508-1, *Metallic materials — Rockwell hardness test — Part 1: Test method*

ISO 7153-1, *Surgical instruments — Materials — Part 1: Metals*

ISO 15223-1:2016, *Medical devices — Symbols to be used with medical device labels, labelling and information to be supplied — Part 1: General requirements*

ISO 17664, *Processing of health care products — Information to be provided by the medical device manufacturer for the processing of medical devices*

ISO 21850-1, *Dentistry — Materials for dental instruments — Part 1: Stainless steel*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 1942 and the following apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at https://www.electropedia.org/

3.1
dental tweezers
hand-guided dental instrument designed to grasp, hold or transfer items and/or material into and out of the oral cavity

Note 1 to entry: Dental tweezers are also known as cotton forceps and pliers and are different from anatomical tweezers.

3.2
College type dental tweezers
special design of dental tweezers with straight shank and angled or curved working end

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3.3
Meriam type dental tweezers
special design of dental tweezers with angulated shank and contra-angulated working end

3.4
guide pin
pin for guiding the tweezers' halves when the tweezers are pressed together

4 Classification

Dental tweezers are classified into the following types according to the shape of the shank and working end:

— Meriam type dental tweezers, i.e. with an angulated shank and a contra-angulated working end (see Figure 1).

— College type dental tweezers, i.e. with a straight shank, subdivided according to the shape of the working end:

  — angled: see Figure 2.

  — curved: see Figure 3.

5 Requirements

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5.1 Design and dimensions

Meriam type dental tweezers shall have the designs shown in Figure 1 and the dimensions given in Table 1.

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College type dental tweezers shall have the designs shown in Figure 2 and Figure 3 and the dimensions given in Table 1.

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Table 1 — Dimensions for dental tweezers

Tweezer type	b_1 mm	b_2 mm	b_3 mm	h_1 mm	h_2 mm	l mm	r mm	α °
	Tolerance							
	±0,2	±0,2	±1	±1	±1	±5	reference	±5
Meriam type 1	1,3	1,1	12	6	6	160	—	40
Meriam type 2	1,6	1,3	13	6,2	6,2	162		43,4
College type 1, angled	1,3	1,1	10	8	—	150	—	40
College type 2, angled	1,5	1,2	12	10	—	152	—	45,7
College type 3, curved	1,3	1,1	10	8	—	150	15	—
See Table 2 for the description of each variable in this table.								

Dimensions without tolerances shall be in accordance with ISO 2768-1. Tolerances of form, orientation and location shall be in accordance with ISO 1101, if not specified otherwise in this document.

The points of measurement associated with the dimensions are listed in Table 2.

Test in accordance with 6.1 and 6.2.

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5.1.1 Length

5.1.1.1 Location of measurement points

The location of measurement points for dental tweezers shall be as shown in Table 2 and in Figure 1 to Figure 3.

Table 2 — Measurement points for dental tweezers

	Dimension	Measurement point
b_1	Blade width	Measured at a distance of 3 mm from the tip of the working end.
b_2	Blade thickness	Measured at a distance of 3 mm from the tip of the working end.
b_3	Blade length	Distance measured from the extreme tip of the blade, parallel to the centreline of the blade, to the blade/shank interface.
h_1	Blade height	Distance measured from the centreline of the instrument, at right angle to the centreline of the instrument, to the farthest extremity of the blade.
h_2	Shank height	Distance measured from the centreline of the instrument, at right angle to the centreline of the instrument, to the farthest external surface of the first bend of the shank.
l	Length	Distance measured with closed tweezers from the farthest extremity of the blade, parallel to the centreline of the instrument, to the end of the instrument.
r	Radius of blade	Radius of curvature of the inside of the blade.
α	Blade angle	Angle from the centreline of the blade to the centreline of the instrument.

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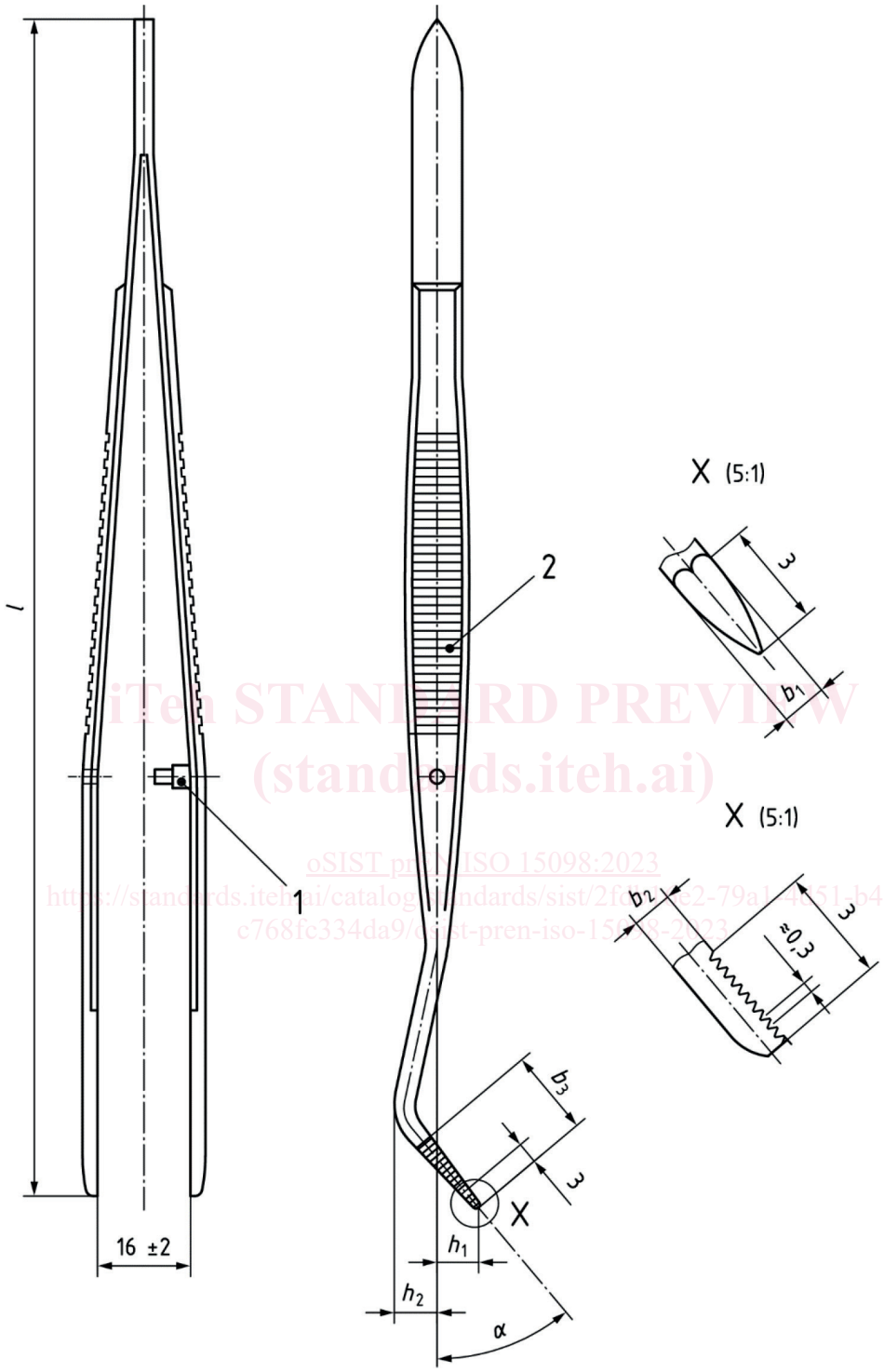
Dimensions in millimetres



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Key

1 guide pin

2 handle serrations

Figure 1 — Meriam type dental tweezers

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