
Dentistry — Dental tweezers

Médecine bucco-dentaire — Précelles dentaires

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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).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

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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 4, *Dental instruments*.

This first edition of ISO 15098 cancels and replaces ISO 15098-1:1999, ISO 15098-2:2000 and ISO 15098-3:2000.

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.

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 <http://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

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

5.1 Design and dimensions

Meriam type dental tweezers shall have the designs shown in [Figure 1](#) and the dimensions given in [Table 1](#).

College type dental tweezers shall have the designs shown in [Figure 2](#) and [Figure 3](#) and the dimensions given in [Table 1](#).

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	?	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](#).