

ICS 11.060.20
CCS C 33



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 36917.2-2024

Replacing GB/T 36917.2-2018

**Dentistry - Laboratory cutters - Part 2: Carbide laboratory
cutters**

牙科学 技工室用刀具 第2部分：技工室用硬质合金刀具

(English Translation)

Issued on: September 29, 2024

Implemented on: October 1, 2025

**Issued by: State Administration for Market Regulation, China National
Standardization Administration**

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents"

Drafting is required.

This document is Part 2 of GB/T 36917. GB/T 36917 has published the following parts.

Part 1: Steel cutting tools for laboratory use;

Part 2: Cemented carbide cutting tools for laboratory use;

Part 3: Cemented carbide cutting tools for milling machines;

Part 4: Micro carbide cutting tools for laboratory use. -this document replaces GB/T 36917.2-2018 "Cutting tools for dental laboratories Part 2: Cemented carbide cutting tools for dental laboratories" Compared with GB/T 36917.2-2018, in addition to structural adjustments and editorial changes, the main technical changes are as follows.

Changed the scope (see Chapter 1, Chapter 1 of the 2018 edition); a) Added a chapter on "Terms and Definitions" (see Chapter 3); b) the classification has been changed and a third category of suitable materials has been added (see Chapter 5, Chapter 3 of the 2018 edition); c) Changed the requirements for rod materials and added that the type selection and its treatment method are determined by the manufacturer (see 6.1.2, 2018 edition).

5.1.2);

Added the rod length requirement (see 6.3.2); e) Added a chapter on "Sampling" (see Chapter 7); f) Added labeling regulations (see 9.1), changed labeling regulations, and added color marking regulations (see 9.2, 2018 edition) Chapter 8 of);

The relevant provisions on color identification in device identification have been changed (see Chapter 10, Chapter 9 of the 2018 edition); h) the relevant provisions on packaging labels have been changed, and the provisions on graphic symbols used for packaging labels have been added (see Chapter 11, 2018 Edition).

Chapter 10);

Added the cutting edge marking and number of cutting edges of cutting tools (see Appendix A); j) the number of cutting edges in Table 12 has been changed, and the notes on left and right and nominal diameters in Table 12 have been deleted (see Table A.1, 2018 Edition).

Table 12).

This document is modified to adopt ISO 7787-2:2020 "Cutting tools for dental laboratories - Part 2: Cemented carbide cutting tools for laboratories".

The technical differences between this document and ISO 7787-2:2020 and their reasons are as follows.

ISO 1942 was replaced by the normatively referenced GB/T 9937 to adapt to my country's technical conditions and improve operability (see Chapter 3);

ISO 1797 was replaced by the normative reference YY/T 0967 to adapt to my country's

technical conditions and improve operability (see Chapter 5, 6.3.2, Chapter 11);

ISO 8325 was replaced by the normative reference YY/T 0874 to adapt to my country's technical conditions and improve operability (see 8.1, 8.2, 8.4);

ISO 2157 was replaced by the normative reference YY/T 1011 to adapt to my country's technical conditions and improve operability (see 9.1);

ISO 15223-1 was replaced by the normative reference YY/T 0466.1 to adapt to my country's technical conditions and improve operability (see Chapter 11);

The number of cutting edges is increased, and "the selection of cutting edges of cutting tools shall be specified by the manufacturer" is changed to "the selection of cutting edges of cutting tools" and number to be specified by the manufacturer" to improve operability (see 6.4);

Change "the name and/or trademark and address of the manufacturer or its authorized agent" in a) of the package label to "the name and/or trademark of the manufacturer and/or its authorized agent" or trademark and address" to improve operability (see Chapter 11).

The following editorial changes were made to this document.

Added the statement of the scope of application of this document and deleted the note under the scope; -the introduction to ISO and IEC terminology databases in Chapter 3 of ISO 7787-2:2020 has been deleted;

Change the title of 6.3 from "Dimensions and number of cutting edges" to "Dimensions";
-Change the title of 8.2 from "Dimensions and number of cutting edges" to "Dimensions", and change "Determination of the number of cutting edges by visual inspection" in 8.2.

Moved to 8.3.

Introduction

The dimensional and other requirements for dental laboratory cutting tools are essential to ensure the interchangeability and safe use of laboratory instruments.

Very important.

According to the differences in materials, connection equipment, dimensions, etc. of cutting tools used in laboratories, GB/T 36917 is divided into the following four parts.

Part 1: Steel cutting tools for laboratory use. The purpose is to standardize the dimensions and other requirements of steel cutting tools.

Part 2: Cemented carbide cutting tools for laboratories. The purpose is to standardize the dimensions and other characteristics of cemented carbide cutting tools.

Require.

Part 3: Cemented carbide cutting tools for milling machines. The purpose is to standardize the dimensions and other aspects of cemented carbide cutting tools for milling machines.

Require.

Part 4: Micro carbide cutting tools for laboratory use. The purpose is to standardize the dimensions and other aspects of micro carbide cutting tools.

Various requirements.

Dental laboratory cutting tools Part 2: Cemented carbide cutting tools for laboratory use

1 Scope

This document specifies the dimensions and other requirements of 11 commonly used cemented carbide cutting tools. These 11 cemented carbide cutting tools are used in dental laboratories.

The most important cutting tool.

This document applies to carbide cutting tools for use in dental laboratories.

2 Normative references

The contents of the following documents constitute the essential clauses of this document through normative references in this document.

For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies.

in this document.

GB/T 9937 Dental Terminology (GB/T 9937-2020, ISO 1942:2009, MOD) YY/T 0466.1 Symbols for medical devices used to provide information for manufacturers Part 1: General requirements (YY/T 0466.1-2023, ISO 15223-1:2021, MOD) YY/T 0874 Test methods for rotating instruments in dentistry (YY/T 0874-2013, ISO 8325:2004, IDT) YY/T 0967 Rods for rotary and reciprocating instruments in dentistry (YY/T 0967-2022, ISO 1797:2017, MOD) YY/T 1011 Nominal diameters and designations of dental rotary instruments (YY/T 1011-2022, ISO 2157:2016, MOD)

3 Terms and definitions

The terms and definitions defined in GB/T 9937 and the following apply to this document.

Laboratory cutter

A rotating cutting tool used in dental laboratories for machining dental materials.