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

GB/T 36917.4-2022

**Dentistry - Laboratory cutters - Part 4: Miniature carbide
laboratory cutters**

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Table of Contents

foreword

Introduction

1 Scope

2 Normative references

3 Terms, Definitions and Symbols

3.1 Terms and Definitions

3.2 Symbols

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 of Standardization Documents" drafted.

This document is part 4 of GB/T 36917 "Cutting tools for dental laboratories". GB/T 36917 has released the following parts.

- Part 1. Steel cutting tools for laboratory use;
- Part 2. Carbide cutting tools for laboratory use;
- Part 3. Carbide cutting tools for milling machines;
- Part 4. Micro carbide cutting tools for laboratory use.

This document is modified and adopted ISO 7787-4.2002 "Dental Rotary Instrument Cutting Tools - Part 4. Micro-tungsten carbide blades for laboratory use"

Tool".

Compared with ISO 7787-4.2002, this document has made the following structural adjustments.

- Added "3.1 Terms and Definitions", 3.2 corresponds to Chapter 3 of ISO 7787-4.2002;
- Chapter 6 corresponds to Chapter 5 of ISO 7787-4.2002, of which 6.1~6.4 correspond to 5.1~5.4 of ISO 7787-4.2002, adding
- Added 6.5.

The technical differences between this document and ISO 7787-4.2002 and their reasons are as follows.

--- Replaced ISO 1797-1 (see 4.1.2, 4.3.2 and Chapter 9) with the normatively cited YY/T 0967 to adapt to our country's technology

improve the operability;

--- Deleted Chapter 6 "Acceptance Quality Limit (AQL)" in ISO 7787-4:2002, added "Sampling" Chapter (see Chapter 5) and Judgment

specified content (see 6.5) to improve operability;

--- Replaced ISO 8325 (see 6.1, 6.2, 6.4) with the normatively cited YY/T 0874 to adapt to my country's technical conditions and improve

Operability;

--- Replaced ISO 6360 (see Chapters 7 and 9) with normatively cited YY/T 0873 (all parts) to adapt to our country's

technical conditions to improve operability.

The following editorial changes have been made to this document.

--- In order to harmonize with existing standards, the name of the standard has been changed to "Cutting tools for dental laboratories - Part 4. Micro-hardened for laboratory use"

Alloy cutting tools";

--- Added the statement about the unit in the figure and table (see 4.3.1);

--- Added references.

Please note that some content of this document may be patented. The issuing agency of this document assumes no responsibility for identifying patents.

Introduction

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

very important.

GB/T 36917 "Cutting tools for dental laboratory" consists of 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. Carbide cutting tools for laboratory use. The purpose is to standardize the various dimensions and other aspects of carbide cutting tools

Require.

--- Part 3. Carbide cutting tools for milling machines. The purpose is to standardize the

various dimensions and other aspects of cemented carbide cutting tools for milling machines.

a requirement.

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

various requirements.

GB/T 36917 is divided into the above four parts according to the differences in materials, connecting equipment and dimensions of cutting tools for laboratory use.

This document is one of a series of standards for dental rotary instruments.

The nominal diameter of the working part listed in Table 1 to Table 16 is consistent with the diameter specified in YY/T 1011.

Note that YY/T 0873 (all parts) gives a fifteen-digit number coding system to classify all types of dental rotation

Turn the instrument.

Dental laboratory cutting tools

Part 4. Micro carbide cutting tools for laboratory use

1 Scope

This document specifies the size and shape requirements, the number of cutting edges, and the types of tooth shapes for 10 commonly used micro-carbide cutting tools in dental laboratories.

Class and radial runout requirements, these 10 kinds of micro carbide cutting tools are also the most important micro cutting tools used in the laboratory.

This document applies to 10 types of micro carbide cutting tools mainly used in laboratories.

2 Normative references

The contents of the following documents constitute essential provisions of this document through normative references in the text. Among them, dated citations

documents, only the version corresponding to that date applies to this document; for undated references, the latest edition (including all amendments) applies to this document.

YY/T 0873 (all parts) Numerical coding system for dental rotary instruments [ISO 6360 (all

parts)]

Note. YY/T 0873.1-2013 Numerical coding system for dental rotary instruments Part

1.General characteristics (ISO 6360-1.2004, IDT);

YY/T 0873.2-2014 Numerical coding system for dental rotary instruments - Part 2.Shape
(ISO 6360-2.2004, IDT);

YY/T 0873.3-2014 Numerical coding system for dental rotary instruments - Part
3.Characteristics of burs and cutting tools (ISO 6360-3.2005, IDT);

YY/T 0873.4-2014 Numerical coding system for dental rotary instruments - Part
4.Characteristics of diamond instruments (ISO 6360-4.2004, IDT);

YY/T 0873.5-2014 Numerical coding system for dental rotary instruments - Part
5.Characteristics of endodontic instruments (ISO 6360-5.2007, IDT);

YY/T 0873.6-2015 Numerical coding system for dental rotary instruments - Part
6.Characteristics of abrasive instruments (ISO 6360-6.2004, IDT);

YY/T 0873.7-2014 Numerical coding systems for dental rotary instruments - Part
7.Characteristics of mandrels and special instruments (ISO 6360-7.2006, IDT).

YY/T 0874 Test methods for dental rotary instruments (YY/T 0874-2013, ISO 8325.2004,
IDT)

YY/T 0967 Rods for rotating and reciprocating instruments in dentistry (YY/T 0967-2022,
ISO 1797.2017, MOD)

3.1 Terms and Definitions

There are no terms and definitions that need to be defined in this document.

3.2 Symbols

The following symbols apply to this document.

d1---working part diameter, head diameter.

d2--- neck size.

l --- Working part length, head length.

alpha --- Working part angle.