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**Dentistry — Periodontal probes —**

**Part 1:  
General requirements**

*Médecine bucco-dentaire — Sondes parodontales —*

*Partie 1: Exigences générales*

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## Foreword

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International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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.

ISO 21672-1 was prepared by Technical Committee ISO/TC 106, *Dentistry*, Subcommittee SC 4, *Dental instruments*.

ISO 21672 consists of the following parts, under the general title *Dentistry — Periodontal probes*:

- *Part 1: General requirements*
- *Part 2: Designation*

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# Dentistry — Periodontal probes —

## Part 1: General requirements

### 1 Scope

This part of ISO 21672 specifies general requirements and test methods for periodontal probes.

It is applicable to periodontal probes made of austenitic and martensitic stainless steel.

It is not applicable to periodontal probes with working ends made completely of plastics, nor to HAUER probes and periodontal probes with a defined probing force.

### 2 Normative references

The following referenced documents are indispensable for the application 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 6507-1, *Metallic materials — Vickers hardness test — Part 1: Test method*

ISO 6892-1, *Metallic materials — Tensile testing — Part 1: Method of test at room temperature*

ISO 7153-1, *Surgical instruments — Metallic materials — Part 1: Stainless steel*

ISO 13402, *Surgical and dental hand instruments — Determination of resistance against autoclaving, corrosion and thermal exposure*

### 3 Terms, definitions and symbols

#### 3.1 Terms and definitions

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

##### 3.1.1

##### **periodontal probe**

dental hand instrument designed to measure subgingival pocket depth, used in dentistry for diagnostic purposes and assessment of the condition of periodontal pockets

##### 3.1.2

##### **furcation probe**

periodontal probe designed to probe the furcations of premolars and molars

#### 3.2 Symbols

$b_1$  blade thickness

$b_2$  blade width

$d_1$  diameter of spherical or round end

- $d_2$  diameter of shank
- $h_1$  blade height
- $h_2$  shank height
- $R_1$  radius of shank
- $R_2$  radius of working end
- $\alpha$  blade angle
- $\beta$  offset angle

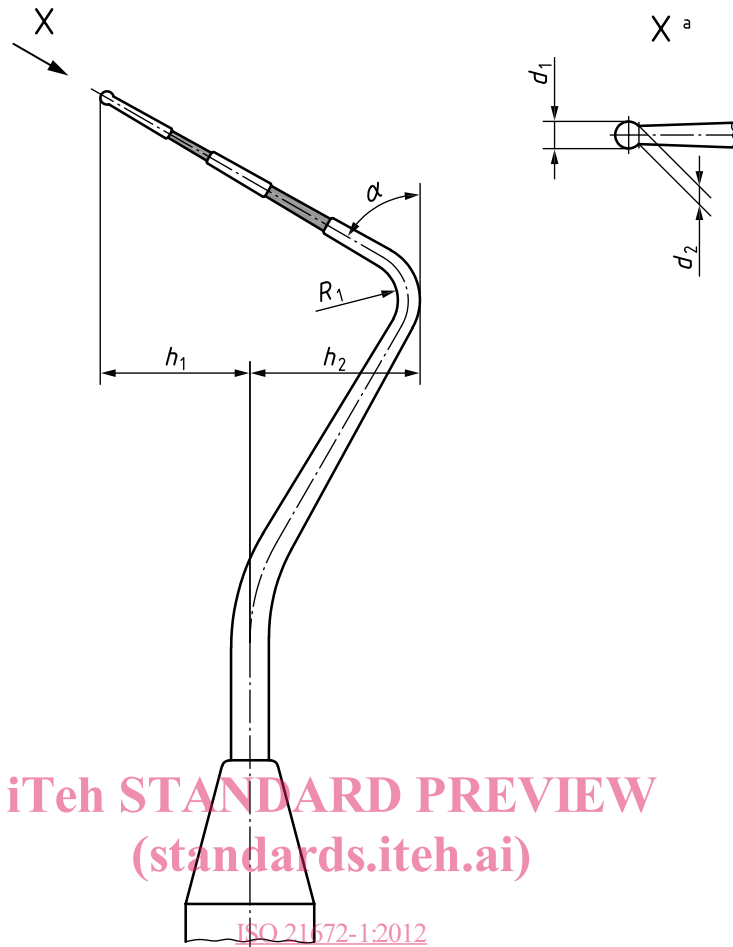
#### 4 Classification

For the purposes of this part of ISO 21672, periodontal probes are classified according to their intended function and their shapes into the following five types:

- Type 1, in accordance with Figure 1;
- Type 2, in accordance with Figure 2;
- Type 3, in accordance with Figure 3;
- Type 4, in accordance with Figure 4;
- Type 5, furcation probe, in accordance with Figure 5.

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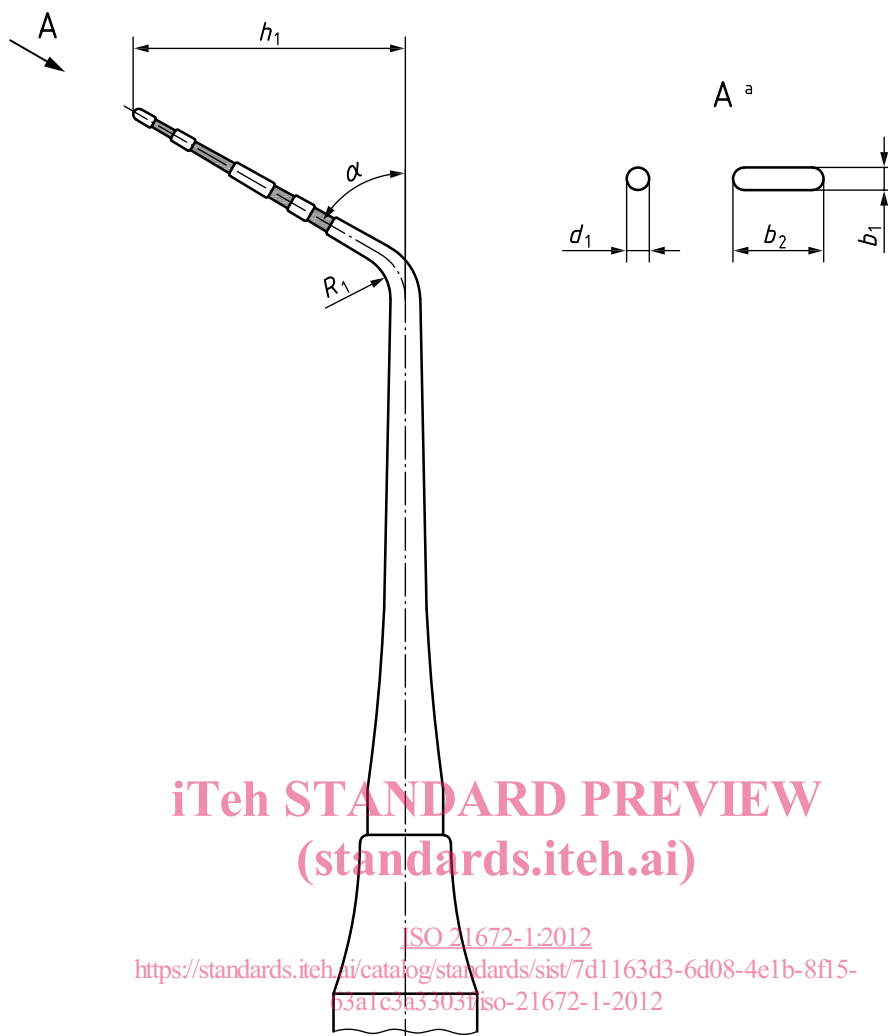
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a Enlarged view of the working end. [63a1c3a3303f/iso-21672-1-2012](https://standards.iteh.ai/catalog/standards/sist/7d1163d3-6d08-4e1b-8f15-63a1c3a3303f/iso-21672-1-2012)

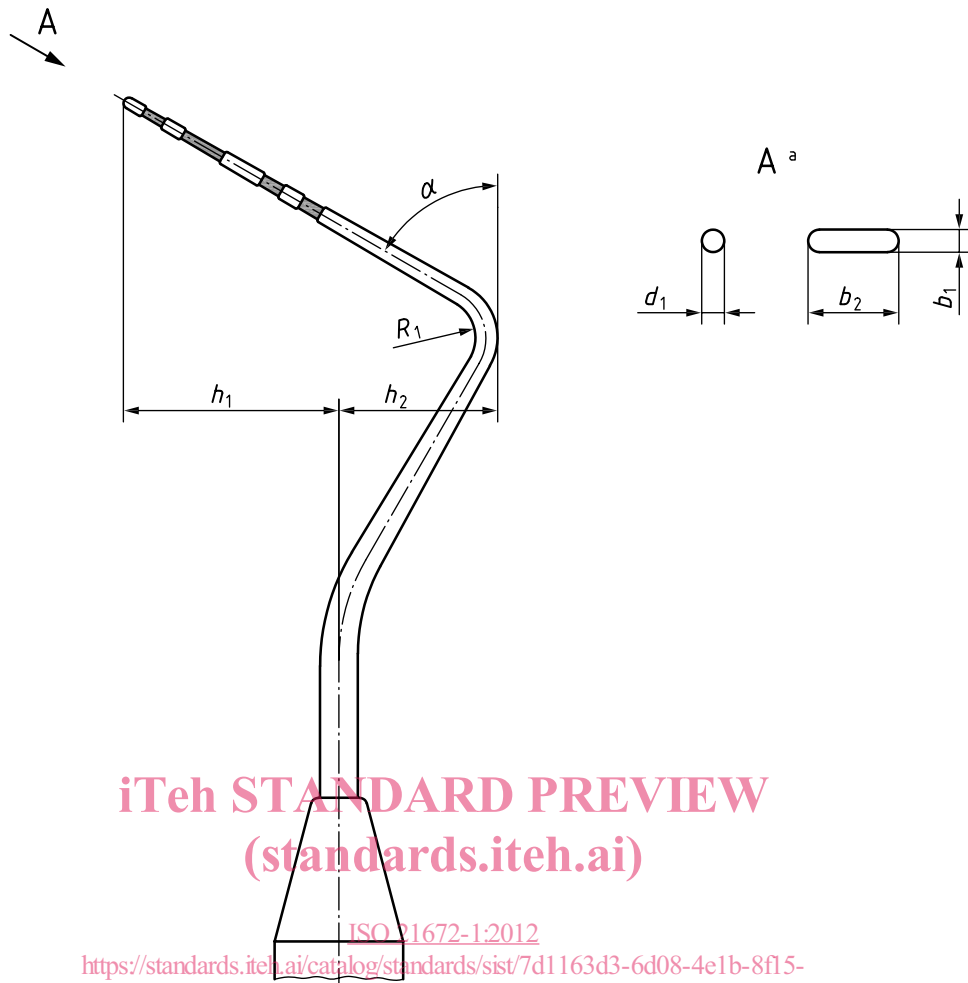
Figure 1 — Dimensions of Type 1 probes



<sup>a</sup> Enlarged view of the two possible versions for the working end: spherical ( $d_1$ ) or oval ( $b_1$ ,  $b_2$ ).

**Figure 2 — Dimensions of Type 2 probes**





<sup>a</sup> Enlarged view of the two possible versions for the working end: spherical ( $d_1$ ) or oval ( $b_1$ ,  $b_2$ ).

**Figure 3 — Dimensions of Type 3 probes**