
INTERNATIONAL STANDARD



3003

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

Dried-milk borers

Sondes à lait sec

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FOREWORD

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO Member Bodies). The work of developing International Standards is carried out through ISO Technical Committees. Every Member Body interested in a subject for which a Technical Committee has been set up 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.

Draft International Standards adopted by the Technical Committees are circulated to the Member Bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 3003 was drawn up by Technical Committee ISO/TC 34, *Agricultural food products*, and circulated to the Member Bodies in January 1973.

It has been approved by the Member Bodies of the following countries :

Australia	Hungary	Romania
Belgium	India	South Africa, Rep. of
Brazil	Iran	Thailand
Bulgaria	Israel	Turkey
Egypt, Arab Rep. of	Netherlands	United Kingdom
Finland	New Zealand	U.S.S.R.
France	Poland	Yugoslavia
Germany	Portugal	

The Member Bodies of the following countries expressed disapproval of the document on technical grounds :

Austria
Canada

The Association of Official Analytical Chemists (AOAC) has also expressed disapproval of the document.

Dried-milk borers

1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies requirements for borers for the sampling of dried milk in drums and sacks, and gives dimensions for guidance only.

2 REFERENCE

ISO/R 707, *Milk and milk products – Sampling.*

3 TYPES OF BORER

Two types of borer are specified, namely :

Type A : long.

Type B : short.

(See figure.)

4 MATERIALS

The blade and stem shall be made of polished metal, preferably stainless steel.

The grip of the long type should preferably be made of stainless steel. Other materials may be used provided that they do not impart any odours and, if the borer is to be sterilized by means of a burner, the handle should be coated with a suitable insulating, heat-resistant material.

The short type borer shall preferably have a detachable grip of wood or plastics, fitted with a bayonet catch on the blade.

5 CONSTRUCTION

5.1 Shape, material and finish shall permit the borer to be easily cleaned, and, if necessary, sterilized, as appropriate, according to the conditions described in sub-clause 2.2.1.3 of ISO/R 707.

5.2 The protruding edge of the blade of type A shall be sufficiently sharp to serve as a scraper.

5.3 The point of the blade shall be sufficiently sharp to facilitate sampling.

6 PRINCIPAL DIMENSIONS

The types of borer specified in the table are suitable for sampling dried milk, but the dimensions are given for guidance only.

Dimensions in millimetres
(subject to a tolerance of 10 %)

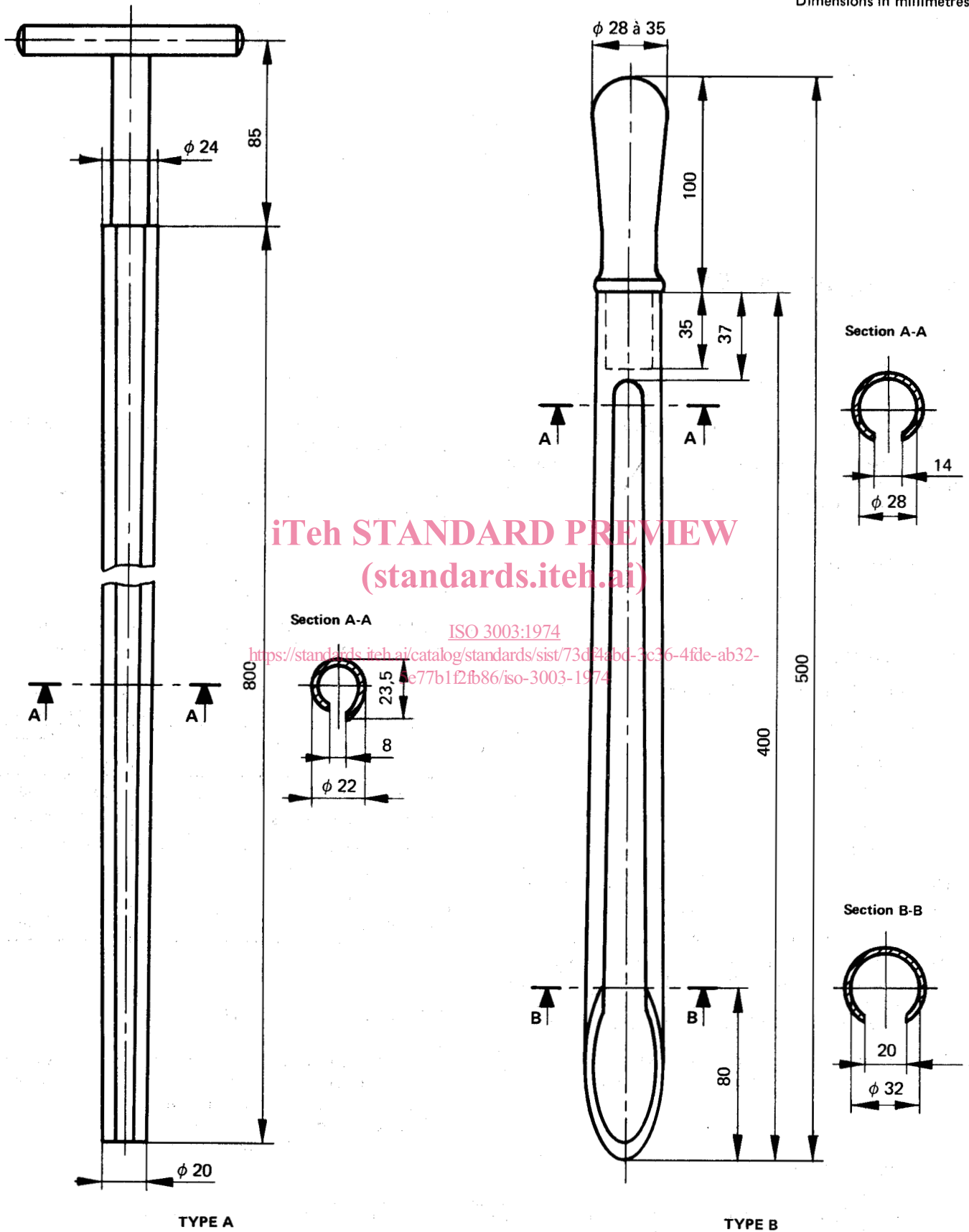
	Type A Long	Type B Short
Length of blade	800	400
Thickness of metal of blade	1 to 2	1 to 2
Inner diameter of blade at point	18	32
Inner diameter of blade at grip or stem	22	28
Slit width at point	4	20
Slit width at grip or stem	14	14

7 NOTE ON USE OF BORERS

7.1 With more or less sticky products, the borers can be inserted vertically. Type A borers are then filled completely by turning and can be withdrawn vertically. Type B borers are already filled completely during insertion, but must be withdrawn in an oblique position to prevent losses from the lower end.

7.2 In the case of more or less free-flowing products, the containers shall be inclined, the borers inserted nearly horizontally with the slit downwards and withdrawn with the slit upwards.

Dimensions in millimetres



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FIGURE — Dried-milk borers