

Specification for

Metal collapsible tubes for eye ointment

Co-operating organizations

The Packaging Standards Committee, under whose supervision this Packaging Code was prepared, consists of representatives from the following Government departments and scientific and industrial organizations:

- Association of Steel Drum Manufacturers
- Board of Trade
- British Carton Association*
- British Jute Trade Federal Council
- British Paper Bag Federation
- British Paper and Board Makers' Association (Incorporated)
- British Paper Box Federation*
- British Plastics Federation*
- British Railways Board
- British Tin Box Manufacturers' Federation*
- Chemical Industries Association
- Collapsible Tube Manufacturers' Association*
- Crown Agents for Oversea Governments and Administrations
- Envelope Makers' and Manufacturing Stationers' Association
- Fibreboard Packing Case Manufacturers' Association
- Food Manufacturers' Federation Incorporated
- Glass Manufacturers' Federation*
- Institute of Packaging
- Institution of Production Engineers
- Ministry of Technology
- Ministry of Transport
- Packaging Films Manufacturers' Association
- Paintmakers' Association of Great Britain
- Society of British Soap Makers
- Society of Motor Manufacturers and Traders Ltd.
- Timber Container Confederation

The industrial organizations marked with an asterisk in the above list, together with the following, were directly represented on the Committees entrusted with the preparation of this British Standard:

- Aluminium Federation
- Association of British Pharmaceutical Industry
- British Closure Manufacturers' Association
- British Medical Association
- British Pharmacopoeia Commission
- Faculty of Ophthalmologists
- Guild of Public Pharmacists
- Institute of Purchasing and Supply
- Joint Committee of Ophthalmic Opticians
- Ministry of Health
- National Pharmaceutical Union
- Pharmaceutical Society of Great Britain
- Scottish National Committee of Ophthalmic Opticians
- The Research Association for the Paper and Board, Printing and Packaging Industries (PIRA)

This British Standard, having been approved by the Packaging Standards Committee, was published under the authority of the General Council on 1 December 1967

© BSI 02-2000

The following BSI references relate to the work on this standard:
Committee reference PKM/602
Draft for comment 67/7155

ISBN 0 580 34363 4

Amendments issued since publication

Amd. No.	Date of issue	Comments
4891	April 1985	Indicated by a sideline in the margin

Contents

	Page
Co-operating organizations	Inside front cover
Foreword	ii
1 Scope	1
2 Manufacture	1
3 Sizes	2
4 Cleanliness	2
5 Marking	3
Appendix A Test for the effectiveness of closure	4
Appendix B Test for metal particle content	4
Figure 1 — Caps for eye ointment tubes	1
Figure 2 — Dimensions of eye ointment tubes	2
Figure 3 — Typical apparatus for testing eye ointment tubes	5
Figure 4 — Extrusion apparatus	6
Table 1 — Dimensions of eye ointment tubes (other than nozzle dimensions)	3
Table 2 — Nozzle dimensions to suit thermosetting and thermoplastic plastics caps	3

Foreword

This standard makes reference to the following British Standard:

BS 2006, *Specification for aluminium collapsible tubes.*

This British Standard was drawn up following a request from a joint committee of the British Pharmacopoeia Commission and the Pharmaceutical Society of Great Britain. The Joint Committee was set up at the request of the Ministry of Health as a result of concern over the incidence of metal particles in eye ointments packed in metal collapsible tubes and in its report requested that a standard should be prepared for eye ointment tubes with special emphasis on a limitation on the presence of metal particles. As a result of research and experiment into methods of production on the part of the Collapsible Tube Manufacturers' Association and into methods of test by members of the Association of the British Pharmaceutical Industry this standard has been evolved. The BSI committee responsible for this standard is aware that the method of test given for assessing metal particles is not perfect but after giving the problem much careful thought has decided that it is sufficiently satisfactory and is the best that can be devised in the present state of knowledge. The quality of the tubes specified in the standard will be kept under review and it will be revised as soon as the development of manufacturing techniques, the use of other materials, or other advances make a higher level of cleanliness commercially practicable.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 6, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.