

Plastics containers —

Part 3: Specification for closed head plastics drums over 70 L up to and including 250 L total capacity

Committees responsible for this British Standard

The preparation of this British Standard was entrusted by the Packaging and Freight Containers Standards Policy Committee (PKM/-) to Technical Committee PKM/9, upon which the following bodies were represented:

- Association of Drum Manufacturers
- British Plastics Federation
- British Steel Industry
- Chemical Industries' Association
- Engineering Equipment and Materials Users' Association
- Health and Safety Executive
- Metal Packaging Manufacturers' Association
- Ministry of Defence
- Paintmakers' Association of Great Britain Ltd.
- PIRA International

This British Standard, having been prepared under the direction of the Packaging and Freight Containers Standards Policy Committee, was published under the authority of the Standards Board and comes into effect on 31 January 1992

© BSI 10-1999

First published July 1977
Second edition 31 January 1992

The following BSI references relate to the work on this standard:
Committee reference PKM/9
Draft for comment 90/46954 DC

ISBN 0 580 20158 9

Amendments issued since publication

Amd. No.	Date	Comments

Contents

	Page
Committees responsible	Inside front cover
Foreword	ii
Section 1. General	
1 Scope	1
2 Definitions	1
Section 2. Requirements for all types of drum	
3 Material, design and construction	5
4 Closures	5
Section 3. Additional requirements for drums of 216 L capacity	
5 Dimensions	6
6 Closure neck	6
7 Drainage	6
Appendix A Information to be supplied and requirements to be agreed	7
Appendix B Method of measuring total capacity	7
Appendix C Method of test for assessing the drainage efficiency of a drum	7
Figure 1 — Plastics drum terminology	1
Figure 2 — Orifice and closure terminology	2
Figure 3 — Container stacking height	4
Table 1 — Dimensions and tolerances applicable	6
Table 2 — Temperature correction factors	7
Publication(s) referred to	Inside back cover

Foreword

This Part of BS 4839 has been revised under the direction of the Packaging and Freight Containers Standards Policy Committee at the request of the Association of Drum Manufacturers, to refer specifically to closed head plastics drums. It supersedes BS 4839-3:1977 which is withdrawn.

The revised standard has been divided into sections in order to separate requirements applicable to all capacities of drums from those applicable only to drums of 216 L total capacity for which detailed dimensions are specified, together with a drainage requirement. As detailed dimensions and specific drainage requirements are developed for other capacities, consideration will be given to incorporating these in the relevant section by amendment.

In view of the many different products for which plastics drums may be used, an appendix has been included to draw attention to the need to ensure adequate performance and compatibility between the drum and the intended contents.

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 8, 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.

Section 1. General

1 Scope

This Part of BS 4839 specifies material, design and construction requirements for closed head plastics drums, with total capacities over 70 L up to and including 250 L, having an internal neck diameter not exceeding 70 mm. Detailed dimensions and a drainage requirement are specified for drums of 216 L total capacity.

NOTE 1 Information to be supplied by the purchaser and requirements to be agreed between supplier and purchaser are given in Appendix A.

NOTE 2 The title of the publication referred to in this standard is given on the inside back cover.

2 Definitions

For the purposes of this Part of BS 4839 the following definitions apply.

2.1

plastics

a group of synthetic resins or other substances that can be moulded into a drum

2.2

mould part line

a line on the drum corresponding to a parting joint of a mould

2.3

brimful capacity

the volume of water held by the drum when filled through the designed filling orifice to the point of overflowing while standing on a level surface (see Figure 1)

2.4

total capacity

the volume of water held by the drum when filled completely, i.e. following the removal of any air which would normally be trapped in any raised part of the drum head

2.5

orifice neck face: bung housing face

the uppermost surface of the orifice neck or bung housing (see Figure 2)

2.6

drum height to orifice neck face or bung housing face

the height from the base of the drum to the highest point of the neck face or bung housing face of the empty drum (see Figure 1 and Figure 2)

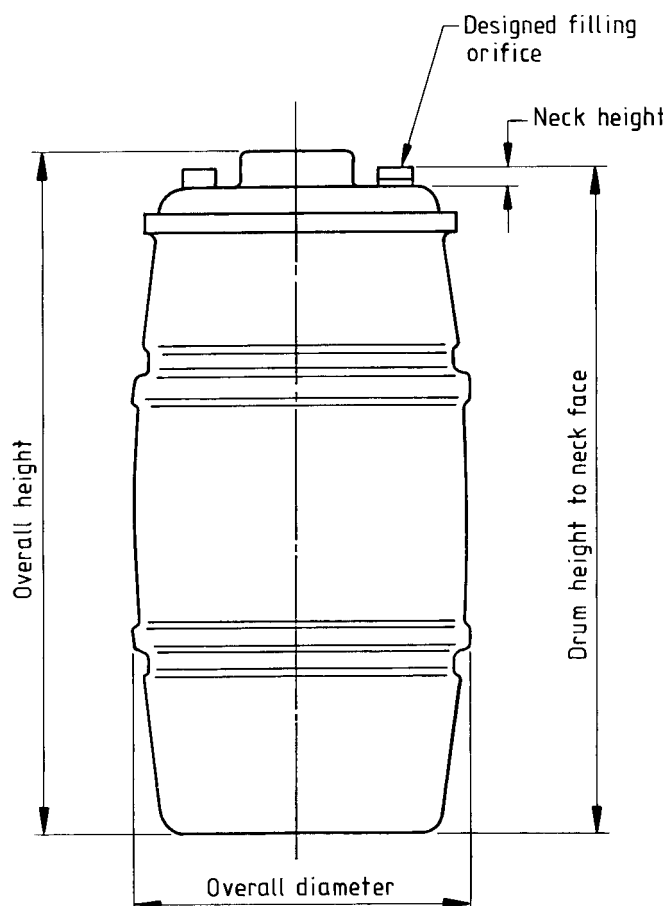


Figure 1 — Plastics drum terminology