

BRITISH STANDARD SPECIFICATION

**DOMESTIC
LIGHTING APPLIANCES
FOR USE WITH
BUTANE/PROPANE GASES**

**PART 1 : APPLIANCES
FOR USE WITH BUTANE GAS**

B.S. 2977 : Part 1 : 1958

Confirmed
December 2011

Amendment No. 1, published 5 June 1958

to B.S. 2977 : 1958

Domestic lighting appliances for use with
butane/propane gases

Part 1 : Appliances for use with butane gas

Corrigendum

Page 7, Clause 29, line 4.

Calorific value should read ' 3,200 B.t.u/cu.ft. gross '.

Page 8, appendix B, paragraph 5, line 5.

Correct ' $4\pi r$ ' to read ' $4\pi r^2$ '.

PD. 3574

Amendment No. 2, published 30 November 1959

to B.S. 2977 : Part 1 : 1958

**Domestic lighting appliances
for use with butane/propane gases.**

Part 1: Appliances for use with butane gas

Revision

Clause 12. Delete this clause.

Appendix A. Delete this appendix.

Amendment No. 3, published 19 June, 1964

to B.S. 2977 : Part 1 : 1958

**Domestic lighting appliances for use with
butane/propane gases**

Part 1. Appliances for use with butane gas

Addenda

Title. Delete completely from the cover, and pages 1 and 4, the title of the standard, Part 1, and the title of Part 1. Substitute the following new title:

**B.S. 2977 : 1958 'DOMESTIC LIGHTING APPLIANCES
FOR USE WITH LIQUEFIED PETROLEUM GASES'**

Page 2. List of standards. Insert B.S. numbers for the last two items, as follows, deleting the asterisk in each case:

penultimate item, 'B.S. 3245' and last item 'B.S. 3212'.

Foreword. In the first paragraph, delete the last two words 'butane gas' and substitute 'liquefied petroleum gases'.

New heading. Insert below the heading 'Specification' and immediately preceding the heading 'Section One : General' the following new heading:

'PART 1. APPLIANCES FOR USE WITH COMMERCIAL BUTANE'

Clause 1. Scope. In the first line, delete 'This British Standard' and substitute 'Part 1 of this British Standard'.

In the third and fourth lines, delete 'butane gas' and substitute 'commercial butane'.

Clause 3. Instructions. Delete this clause and substitute the following:

'INSTRUCTIONS

3. Instructions for fitting, maintenance and use shall be provided for each appliance. These instructions shall be in accordance with the recommendations of CP 339 : 1956, 'Domestic butane gas-burning installations', Parts 1, 2 and 3.'

Clause 5. Fittings and materials. In the list of standards, insert the number B.S. 3245 for the penultimate item, and B.S. 3212 for the last item, and delete the asterisk in each case.

Clause 12. (This clause was deleted by Amendment No. 2, PD 3574.) Substitute the following new clause:

‘ INJECTOR JETS

12. Injector jets shall be in accordance with B.S., ‘ Injector jets for liquefied petroleum gases ’ (in course of preparation).’

Clauses 29 and 34. Delete references to test gases ‘ A ’ and ‘ B ’ and substitute ‘ LPG.A ’ and ‘ LPG.B ’ respectively.

Clause 29. Add a note at the end of the clause as follows:

‘ NOTE. For sources of supply of these test gases, reference should be made to the British Standards Institution.’

Clause 33. Combustion. Delete the second sentence and the footnote, and substitute the following:

‘ The construction of the two gases may be determined by a variety of methods as detailed in B.S. 1756, ‘ Code for the sampling and analysis of flue gases ’, and the ratio is not appreciably affected by dilution of the products of combustion during sampling. The CO and CO₂ contents of the products of combustion shall be determined by methods capable respectively of an accuracy of 0.001 per cent and 0.05 per cent of the volume of the sample.’

Clause 36. Lighting efficiency. Alter the reference to Appendix B to read ‘ Appendix A ’.

Appendix B. Test for lighting efficiency. Re-letter this Appendix ‘ A ’ (original Appendix A was deleted by Amendment No. 2, PD 3574).

New part. Add a new part to the standard as follows, and amend the contents list accordingly:

**PART 2. APPLIANCES FOR USE WITH
COMMERCIAL PROPANE**

SCOPE

38. Part 2 of this British Standard specifies the classification, construction, operation, safety requirements and tests for lighting appliances intended for domestic use with commercial propane at 14 in w.g. pressure.

NOTE 1. Commercial propane is a mixture consisting predominantly of C₃ hydrocarbons with some C₄ hydrocarbons and small amounts of C₂ hydrocarbons. However, the distributors of the gas are able to supply gas whose combustion characteristics are always within the limits prescribed by the test gases defined in Clause 39.

NOTE 2. The term ‘ lighting appliance ’ includes their component parts, i.e. burners, brackets, pendants and taps.