

Rubber hoses and hose assemblies for liquefied petroleum gas, LPG (liquid or gaseous phase), and natural gas up to 25 bar (2,5 MPa) — Specification

ICS 23.040.70

National foreword

This British Standard is the UK implementation of EN 1762:2003, incorporating corrigendum November 2007. It supersedes BS EN 1762:1998 which is withdrawn.

The start and finish of text introduced or altered by corrigendum is indicated in the text by tags. Text altered by CEN corrigendum November 2007 is indicated in the text by AC1 AC1.

The UK participation in its preparation was entrusted to Technical Committee PRI/66, Rubber and plastics tubing, hoses and hose assemblies.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

Compliance with a British Standard cannot confer immunity from legal obligations.

This British Standard, was published under the authority of the Standards Policy and Strategy Committee on 17 June 2004

© BSI 2008

ISBN 978 0 580 62326 4

Amendments/corrigenda issued since publication

Date	Comments
30 September 2008	Implementation of CEN corrigendum November 2007

English version

Rubber hoses and hose assemblies for liquefied petroleum gas,
LPG (liquid or gaseous phase), and natural gas up to 25 bar
(2,5 MPa) - Specification

Tuyaux et flexibles en caoutchouc pour le gaz de pétrole
liquéfié GPL (en phase liquide ou gazeuse) et le gaz
naturel jusqu'à 25 bar (2,5 MPa) - Spécification

Gummischläuche und -schlauchleitungen für Flüssiggas
LPG (flüssig oder gasförmig) und Erdgas bis 25 bar (2,5
MPa) - Spezifikation

This European Standard was approved by CEN on 8 September 2003.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: rue de Stassart, 36 B-1050 Brussels

Contents

Page

Foreword.....	3
1 Scope	3
2 Normative references	3
3 Terms and definitions.....	4
3.1 Additional Terms and definitions	4
3.1.1 Electrically Bonded Hose/Hose Assembly.....	4
3.1.2 Electrically Conductive Hose/Hose Assembly.....	4
3.1.3 Electrically Discontinuous Hose/Hose Assembly	4
4 Classification	4
5 Materials and construction	5
5.1 Hose	5
5.2 Hose assemblies	5
6 Dimensions.....	5
6.1 Nominal bore, internal diameters, outside diameters, tolerances, and minimum bend radius	5
6.2 Minimum thickness of lining and cover	7
6.3 Concentricity	7
6.4 Tolerances on length	7
7 Physical properties	7
7.1 Rubber Compounds	7
7.2 Finished hose & hose assemblies	7
8 Electrical properties	9
8.1 Textile reinforced hoses with bonding wires.....	9
8.2 Textile reinforced hoses with conducting materials.....	9
8.3 Wire helix reinforced hoses	9
8.4 Hose assemblies that are required to be discontinuous.....	9
9 Type approval.....	9
10 Frequency of testing.....	9
11 Marking	10
11.1 Hoses	10
11.2 Hose assemblies	10
Annex A (normative) Flammability test	11
A.1 Method	11
A.2 Assessment	11
Annex B (normative) Test frequency.....	12
Annex C (informative) Test frequency.....	13

Foreword

This document (EN 1762:2003) has been prepared by Technical Committee CEN/TC 218 “Rubber and plastic hoses and hose assemblies”, the secretariat of which is held by BSI.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by April 2004, and conflicting national standards shall be withdrawn at the latest by April 2004.

This document supersedes EN 1762:1997.

Annex A and B are normative. Annex C is informative.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and the United Kingdom.

1 Scope

This European Standard specifies the requirements for rubber hoses and rubber hose assemblies used for the transfer of liquefied petroleum gas (LPG) in liquid or gaseous phase and natural gas with a maximum working pressure of 25 bar (2,5 MPa) and vacuum within the temperature range of -30 °C to +70 °C and, when designated -LT, -50 °C to +70 °C.

2 Normative references

This European Standard incorporates by dated or undated references, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated by amendment or revision. For undated references latest edition of the publication referred to applies (including amendments).

EN 28033 *Rubber and plastics hose - Determination of adhesion between components* (ISO 8033:1991)

EN ISO 1402 *Rubber and plastics hoses and hose assemblies — Hydrostatic testing* (ISO 1402:1994)

EN ISO 1746 *Rubber or plastics hoses and tubing — Bending tests* (ISO 1746: 1998, including technical corrigendum 1:1999)

EN ISO 4671 *Rubber and plastics hoses and hose assemblies — Methods of measurement of dimensions* (ISO 4671:1984)

EN ISO 4672 *Rubber and plastics hoses — Sub-ambient temperature flexibility tests* (ISO 4672:1987)

EN ISO 7233 *Rubber and plastics hoses and hose assemblies — Determination of suction resistance* (ISO 7233:1991)

EN ISO 7326 *Rubber and plastics hoses — Assessment of ozone resistance under static conditions* (ISO 7326:1991)

EN ISO 8031 *Rubber and plastics hoses and hose assemblies — Determination of electrical resistance* (ISO 8031:1993)

ISO 37 *Rubber, vulcanized or thermoplastic — Determination of tensile stress-strain properties*