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EUROPEAN STANDARD

EN ISO 1403

NORME EUROPÉENNE

EUROPÄISCHE NORM

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English version

**Rubber hoses, textile-reinforced, for  
general-purpose water applications - Specification  
(ISO 1403:1995)**

Tuyaux en caoutchouc à armature textile d'usage  
général pour l'eau - Spécifications  
(ISO 1403:1995)

Gummschläuche mit Textileinlage für allgemeine  
Anwendungen mit Wasser - Anforderung  
(ISO 1403:1995)

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This European Standard was approved by CEN on 1997-04-21. 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 Central Secretariat or to any CEN member.

The European Standards exist 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 Central Secretariat has the same status as the official versions.

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

**CEN**

European Committee for Standardization  
Comité Européen de Normalisation  
Europäisches Komitee für Normung

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

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EN ISO 1403:1997

### Foreword

The text of the International Standard from Technical Committee ISO/TC 45 "Rubber and rubber products" of the International Organization for Standardization (ISO) has been taken over as an European Standard by Technical Committee CEN/TC 218 "Rubber and plastics 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of an identical text or by endorsement, at the latest by November 1997, and conflicting national standards shall be withdrawn at the latest by November 1997.

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

### Endorsement notice

The text of the International Standard ISO 1403:1995 has been approved by CEN as a European Standard without any modification.

NOTE: Normative references to International Standards are listed in annex ZA (normative).

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**Annex ZA (normative)****Normative references to international publications  
with their relevant European publications**

This European Standard incorporates by dated or undated reference, 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 in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN</u>	<u>Year</u>
ISO 1307	1992	Rubber and plastics hoses for general-purpose industrial applications - Bore diameters and tolerances, and tolerances on length	EN ISO 1307	1995
ISO 1402	1994	Rubber and plastics hoses and hose assemblies - Hydrostatic testing	EN ISO 1402	1996
ISO 4671	1984	Rubber and plastics hoses and hose assemblies - Methods of measurement of dimensions	EN 24671	1993
ISO 4672	1988	Rubber and plastics hoses - Sub-ambient temperature flexibility tests	EN 24672	1993
ISO 7326	1991	Rubber and plastics hoses - Assessment of ozone resistance under static conditions	EN 27326	1993
ISO 8033	1991	Rubber and plastics hoses - Determination of adhesion between components	EN 28033	1993

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INTERNATIONAL  
STANDARD

**ISO**  
**1403**

Third edition  
1995-08-01

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**Rubber hoses, textile-reinforced, for  
general-purpose water applications —  
Specification**

**iTeh STANDARD PREVIEW**

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*Tuyaux en caoutchouc à armature textile d'usage général pour l'eau —  
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Reference number  
ISO 1403:1995(E)

**ISO 1403:1995(E)****Foreword**

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established 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. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 1403 was prepared by Technical Committee ISO/TC 45, *Rubber and rubber products*, Subcommittee SC 1, *Hoses (rubber and plastics)*.

This third edition cancels and replaces the second edition (ISO 1403:1986), which has been technically revised.

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International Organization for Standardization  
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# Rubber hoses, textile-reinforced, for general-purpose water applications — Specification

## 1 Scope

This International Standard specifies the requirements for three types of general-purpose textile-reinforced rubber water hose with an operating range of – 25 °C to + 70 °C, and a maximum working pressure of up to 2,5 MPa.

NOTE 1 These hoses should **not** be used for conveyance of potable (drinking) water, for washing-machine inlets, as fire-fighting hose, for special agricultural machines and as collapsible water hose.

## 2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 3:1973, *Preferred numbers — Series of preferred numbers*.

ISO 37:1994, *Rubber, vulcanized or thermoplastic — Determination of tensile stress-strain properties*.

ISO 188:1982, *Rubber, vulcanized — Accelerated ageing or heat-resistance tests*.

ISO 1307:1992, *Rubber and plastics hoses for general-purpose industrial applications — Bore diameters and tolerances, and tolerances on length*.

ISO 1402:1994, *Rubber and plastics hoses and hose assemblies — Hydrostatic testing*.

ISO 2393:1994, *Rubber test mixes — Preparation, mixing and vulcanization — Equipment and procedures*.

ISO 4671:1984, *Rubber and plastics hose and hose assemblies — Methods of measurement of dimensions*.

ISO 4672:—<sup>1)</sup>, *Rubber and plastics hoses — Subambient-temperature flexibility tests*.

ISO 7326:1991, *Rubber and plastics hoses — Assessment of ozone resistance under static conditions*.

ISO 8033:1991, *Rubber and plastics hose — Determination of adhesion between components*.

## 3 Types of hose

Three types of hose are specified, as follows:

Type 1: Low pressure — designed for a maximum working pressure of 0,6 MPa (6 bar) for all sizes;

Type 2: Medium pressure — designed for a maximum working pressure of 1,0 MPa (10 bar) for all sizes;

Type 3: High pressure — designed for a maximum working pressure of 2,5 MPa (25 bar) for all sizes.

1) To be published. (Revision of ISO 4672:1988)