
Plastics hoses - Helical-thermoplastic-reinforced thermoplastics hoses for suction and discharge of aqueous materials - Specification (ISO 3994:1998)

Plastics hoses - Helical-thermoplastic-reinforced thermoplastics hoses for suction and discharge of aqueous materials - Specification (ISO 3994:1998)

Kunststoffschläuche - Thermoplastischwendelverstärkte thermoplastische Schläuche zum Ansaugen und Entladen wässriger Stoffe - Anforderungen (ISO 3994:1998)

Tuyaux en plastiques - Tuyaux-thermoplastiques a renforcement thermoplastique en spirale et refoulement de matieres aqueuses - Spécifications (ISO 3994:1998)

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Ta slovenski standard je istoveten z: EN ISO 3994:2000

ICS:

23.040.70 Gumene cevi in armature Hoses and hose assemblies

SIST EN ISO 3994:2000

en

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 3994

April 2000

ICS 23.040.70

Supersedes EN 23994:1993

English version

Plastics hoses - Helical-thermoplastic-reinforced thermoplastics
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wässriger Stoffe - Anforderungen (ISO 3994:1998)

This European Standard was approved by CEN on 7 March 2000.

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.

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 Central Secretariat 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, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

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

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

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 replaces EN 23994:1993.

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 October 2000, and conflicting national standards shall be withdrawn at the latest by October 2000.

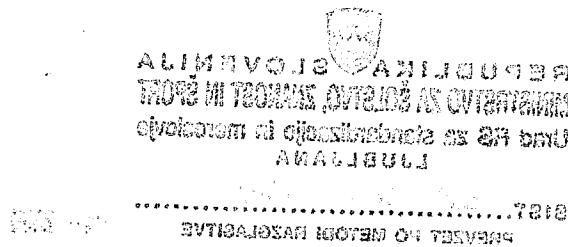
According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal,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

Endorsement notice

The text of the International Standard ISO 3994:1998 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 176	1976	Plastics - Determination of loss of plasticizers - Activated carbon method	EN ISO 176	1999
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 1746	1983	Rubber or plastics hoses and tubing - Bending tests	EN 21746	1993
ISO 4672	1997	Rubber and plastics hoses - Sub-ambient temperature flexibility tests	EN ISO 4672	1999
ISO 11758	1995	Rubber and plastics hoses - Exposure to a xenon arc lamp - Determination of changes in colour and appearance	EN ISO 11758	1997

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INTERNATIONAL
STANDARD

ISO
3994

Second edition
1998-04-01

**Plastics hoses — Helical-thermoplastic-
reinforced thermoplastics hoses for suction
and discharge of aqueous materials —
Specification**

*Tuyaux en plastiques — Tuyaux thermoplastiques à renforcement
thermoplastique en spirale pour aspiration et refoulement de matières
aqueuses — Spécifications*

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Reference number
ISO 3994:1998(E)

ISO 3994:1998(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 3994 was prepared by Technical Committee ISO/TC 45, *Rubber and rubber products*, Subcommittee SC 1, *Hoses (rubber and plastics)*.

This second edition cancels and replaces the first edition (ISO 3994:1977), which has been technically revised.

Annexes A, B and C form an integral part of this International Standard.

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Introduction

This International Standard has been prepared to provide minimum acceptable requirements for the satisfactory performance of polymer reinforced thermoplastics hoses for suction and discharge applications, conveying water, aqueous chemical solutions and abrasive solids and slurries.

If there is a special requirement for resistance to deleterious chemicals this shall be a matter for agreement between the supplier and the purchaser.

The list of nominal bores given in tables 1 and 2 is not intended to be restrictive or to preclude the manufacture of other sizes than those of the R 10 series of preferred numbers (the basis of the tables) and which may be the subject of individual national standards but compliance with this standard can not be claimed.

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Plastics hoses — Helical-thermoplastic-reinforced thermoplastics hoses for suction and discharge of aqueous materials — Specification

1 Scope

This International Standard specifies the requirements for three types of helical thermoplastic reinforced thermoplastics hoses for suction and discharge applications for use in the temperature range from -10 °C to +55 °C.

The types of hoses covered in this International Standard are not intended for use with flammable and combustible materials nor with aromatic solvents.

NOTE Hoses of a similar construction for suction and discharge for fire fighting are specified in ISO 14775.

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 176:1976 *Plastics - Determination of loss of plasticizers - Activated carbon method.*

ISO 554:1976 *Standard atmospheres for conditioning and/or testing - Specifications*