



SLOVENSKI STANDARD
SIST EN ISO 8308:2000

01-december-2000

; i a YbYUJ`dc`ja YfbYWj]]b`Wj cj cX]`!l [cHj `Ub`YdfYbcgUHY_c]b`g_cn]`ghYbY
Wj]]b`ghYbYWj cj cXcj `fGC`, ' \$, .% - ' Ł

Rubber and plastics hoses and tubing - Determination of transmission of liquids through
hose and tubing walls (ISO 8308:1993)

Gummi- und Kunststoffschläuche - Bestimmung der Durchlässigkeit von
Schlauchwandungen gegenüber Flüssigkeiten (ISO 8308:1993)

Tuyaux et tubes en caoutchouc et en plastique - Détermination de la transmission des
liquides a travers les parois des tuyaux et des tubes (ISO 8308:1993)

<https://standards.iteh.ai/catalog/standards/sist/36b3695e-71ff-44dc-8f46-f9deedcc8f31/sist-en-iso-8308-2000>

Ta slovenski standard je istoveten z: EN ISO 8308:1995

ICS:

23.040.70 Gumene cevi in armature Hoses and hose assemblies

SIST EN ISO 8308:2000

en

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN ISO 8308:2000

<https://standards.iteh.ai/catalog/standards/sist/36b3695e-71ff-44dc-8f46-f9deedcc8f31/sist-en-iso-8308-2000>

EUROPEAN STANDARD

EN ISO 8308

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 1995

ICS 23.040.70

Descriptors: rubber products, plastics products, pipes (tubes), plastic tubes, hoses, rubber hoses, tests, determination, permeability, test equipment

English version

**Rubber and plastics hoses and tubing -
Determination of transmission of liquids through
hose and tubing walls (ISO 8308:1993)**

Tuyaux et tubes en caoutchouc et en plastique
- Détermination de la transmission des liquides
à travers les parois des tuyaux et des tubes
(ISO 8308:1993)

Gummi- und Kunststoffschläuche - Bestimmung der
Durchlässigkeit von Schlauchwandungen gegenüber
Flüssigkeiten (ISO 8308:1993)

STANDARD PREVIEW
(standards.iteh.ai)
SIST EN ISO 8308:2000
<https://standards.iteh.ai/catalog/standards/sist/36b3695e-71ff-44dc-8f46-f9deedcc8f31/sist-en-iso-8308-2000>

This European Standard was approved by CEN on 1995-09-14. 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

© 1995

All rights of reproduction and communication in any form and by any means reserved in all countries to CEN and its members.

Ref. No. EN ISO 8308:1995 E

Foreword

The text of the International Standard from ISO/TC 45 "Rubber and rubber products" of the International Organization for Standardization (ISO) has been taken over as a European Standard by the Technical Committee CEN/TC 218 "Rubber and plastics hoses and hose assemblies".

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 June 1996, and conflicting standards shall be withdrawn at the latest by June 1996.

According to the CEN/CENELEC Internal Regulations, 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 8308:1993 has been approved by CEN as a European Standard without any modification.

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

[SIST EN ISO 8308:2000](https://standards.iteh.ai/catalog/standards/sist/36b3695e-71ff-44dc-8f46-f9deedcc8f31/sist-en-iso-8308-2000)

<https://standards.iteh.ai/catalog/standards/sist/36b3695e-71ff-44dc-8f46-f9deedcc8f31/sist-en-iso-8308-2000>

CORRECTED VERSION 96-04-11**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 June 1996, and conflicting standards shall be withdrawn at the latest by June 1996.

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 8308:1993 has been approved by CEN as a European Standard without any modification.

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

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN ISO 8308:2000

<https://standards.iteh.ai/catalog/standards/sist/36b3695e-71ff-44dc-8f46-f9deedcc8f31/sist-en-iso-8308-2000>

CORRECTED VERSION 96-04-11**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 4671	1984	Rubber and plastics hose and hose assemblies - Methods of measurement of dimensions	EN 24671	1993

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN ISO 8308:2000](https://standards.iteh.ai/catalog/standards/sist/36b3695e-71ff-44dc-8f46-f9deedcc8f31/sist-en-iso-8308-2000)

<https://standards.iteh.ai/catalog/standards/sist/36b3695e-71ff-44dc-8f46-f9deedcc8f31/sist-en-iso-8308-2000>

INTERNATIONAL STANDARD

ISO
8308

Second edition
1993-04-01

Rubber and plastics hoses and tubing — Determination of transmission of liquids through hose and tubing walls

iTeh STANDARD PREVIEW

*Tuyaux et tubes en caoutchouc et en plastique — Détermination de la
transmission des liquides à travers les parois des tuyaux et des tubes*

[SIST EN ISO 8308:2000](https://standards.iteh.ai/catalog/standards/sist/36b3695e-71ff-44dc-8f46-f9deedcc8f31/sist-en-iso-8308-2000)

[https://standards.iteh.ai/catalog/standards/sist/36b3695e-71ff-44dc-8f46-
f9deedcc8f31/sist-en-iso-8308-2000](https://standards.iteh.ai/catalog/standards/sist/36b3695e-71ff-44dc-8f46-f9deedcc8f31/sist-en-iso-8308-2000)



Reference number
ISO 8308:1993(E)

ISO 8308:1993(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 8308 was prepared by Technical Committee ISO/TC 45, *Rubber and rubber products*, Sub-Committee SC 1, *Hoses (rubber and plastics)*.

<https://standards.iteh.ai/catalog/standards/sist/36b3695e-71ff-44dc-8f46-8308-2000>

This second edition cancels and replaces the first edition (ISO 8308:1987), of which it constitutes a technical revision.

© ISO 1993

All rights reserved. No part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from the publisher.

International Organization for Standardization
Case Postale 56 • CH-1211 Genève 20 • Switzerland

Printed in Switzerland

Rubber and plastics hoses and tubing — Determination of transmission of liquids through hose and tubing walls

1 Scope

This International Standard specifies two methods for the determination of transmission of liquids through hose and tubing walls. Both methods are applicable to rubber and plastics hose and tubing, and comprise:

Method A — for all hose sizes and constructions: a practical comparative test, simulating working conditions.

Method B — for hose and tubing up to 16 mm internal diameter.

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 471:1983, *Rubber — Standard temperatures, humidities and times for the conditioning and testing of test pieces*.

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

ISO 4788:1980, *Laboratory glassware — Graduated measuring cylinders*.

3 Principle

3.1 Method A

This method is carried out on an assembly mounted in a test apparatus fitted with equipment to fill and measure a charged volume of a volatile liquid. The system is put under pressure, and the change in volume measured at 24-h intervals until the change has become constant with time, i.e. an equilibrium state has been reached. The test result is this steady-state evaporation rate, expressed as the volume of liquid lost per hour per unit inside surface area of the hose or tubing.

3.2 Method B

This method uses a pressureless reservoir. A length of hose or tubing is attached to the reservoir, the other end of the hose or tubing being plugged. The reservoir is partially filled with test liquid and sealed. The assembly is weighed at the start of the test, and once every 24 h for eight days. The test result is the maximum mass of liquid lost in any one 24-h period per unit inside surface area of the hose or tubing.

NOTE 1 The method accounts for loss by permeation and evaporation and helps to minimize selective permeation of components in a fuel mixture since the liquid is agitated daily.

4 Test liquid

The test liquid shall be that specified in the appropriate product standard.

5 Method A

WARNING — Because of the presence of potentially hazardous vapours, ensure that this test is carried out in a well ventilated area.