

SLOVENSKI STANDARD **SIST EN ISO 1402:2021**

01-julij-2021

Nadomešča:

SIST EN ISO 1402:2010

Gumene in polimerne cevi ter cevni priključki - Hidrostatično preskušanje (ISO 1402:2021)

Rubber and plastics hoses and hose assemblies - Hydrostatic testing (ISO 1402:2021)

Gummi- und Kunststoffschläuche und Schlauchleitungen - Hydrostatische Prüfung (ISO iTeh STANDARD PREVIEW 1402:2021)

(standards.iteh.ai)

Tuyaux et flexibles en caoutchouc et en plastique - Essais hydrostatiques (ISO 1402:2021) SIST EN ISO 1402:2021

https://standards.iteh.ai/catalog/standards/sist/82e4bb3e-c139-4ed6-bc24-

bff2f00012ed/sist-en-iso-1402-2021 eten z: EN ISO 1402:2021 Ta slovenski standard je istoveten z:

ICS:

23.040.70 Gumene cevi in armature Hoses and hose assemblies

SIST EN ISO 1402:2021 en,fr,de **SIST EN ISO 1402:2021**

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN ISO 1402:2021

https://standards.iteh.ai/catalog/standards/sist/82e4bb3e-c139-4ed6-bc24-bff2f00012ed/sist-en-iso-1402-2021

EUROPEAN STANDARD NORME EUROPÉENNE **EN ISO 1402**

EUROPÄISCHE NORM

May 2021

ICS 23.040.70

Supersedes EN ISO 1402:2009

English Version

Rubber and plastics hoses and hose assemblies - Hydrostatic testing (ISO 1402:2021)

Tuyaux et flexibles en caoutchouc et en plastique -Essais hydrostatiques (ISO 1402:2021) Gummi- und Kunststoffschläuche und Schlauchleitungen - Hydrostatische Prüfung (ISO 1402:2021)

This European Standard was approved by CEN on 20 April 2021.

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 CEN-CENELEC 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 CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.

bff2f00012ed/sist-en-iso-1402-2021



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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

EN ISO 1402:2021 (E)

Contents	Page
Furonean foreword	3

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN ISO 1402:2021 https://standards.iteh.ai/catalog/standards/sist/82e4bb3e-c139-4ed6-bc24-bff2f00012ed/sist-en-iso-1402-2021

European foreword

This document (EN ISO 1402:2021) has been prepared by Technical Committee ISO/TC 45 "Rubber and rubber products" in collaboration with 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 2021, and conflicting national standards shall be withdrawn at the latest by November 2021.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN ISO 1402:2009.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

iTeh STANDARD PREVIEW Endorsement notice (standards.iteh.ai)

The text of ISO 1402:2021 has been approved by CEN as EN ISO 1402:2021 without any modification.

https://standards.iteh.ai/catalog/standards/sist/82e4bb3e-c139-4ed6-bc24-bff2f00012ed/sist-en-iso-1402-2021

SIST EN ISO 1402:2021

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN ISO 1402:2021

https://standards.iteh.ai/catalog/standards/sist/82e4bb3e-c139-4ed6-bc24-bff2f00012ed/sist-en-iso-1402-2021

SIST EN ISO 1402:2021

INTERNATIONAL STANDARD

ISO 1402

Fifth edition 2021-04

Rubber and plastics hoses and hose assemblies — Hydrostatic testing

Tuyaux et flexibles en caoutchouc et en plastique — Essais hydrostatiques

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN ISO 1402:2021 https://standards.iteh.ai/catalog/standards/sist/82e4bb3e-c139-4ed6-bc24-bff2f00012ed/sist-en-iso-1402-2021



Reference number ISO 1402:2021(E)

ISO 1402:2021(E)

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN ISO 1402:2021 https://standards.iteh.ai/catalog/standards/sist/82e4bb3e-c139-4ed6-bc24-bff2f00012ed/sist-en-iso-1402-2021



COPYRIGHT PROTECTED DOCUMENT

© ISO 2021

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office CP 401 • Ch. de Blandonnet 8 CH-1214 Vernier, Geneva Phone: +41 22 749 01 11 Email: copyright@iso.org Website: www.iso.org

Published in Switzerland

ISO 1402:2021(E)

Co	Contents		Page
Foreword			iv
1	Scop	e	1
2	Norn	native references	1
3		ns and definitions	
4		eral	
_			
5		ıratus	
6		pieces	
	6.1	Hose assemblies	
	6.2	Hoses	
	6.3	Number of test pieces	
7	Appl	ication of hydrostatic pressure	2
	7.1	General	
	7.2	Procedure	2
8	Hydı	ostatic pressure tests	2
	8.1	Proof pressure hold test	
	8.2	Measurement of deformation under pressure	3
		8.2.1 General procedure	
		8.2.2 Change in length at the specified test pressure	3
		8.2.3 Change in external diameter at the specified test pressure, measured at	
		the approximate middle of the hose assembly	4
		8.2.4 Twisting at the specified test pressure	5
	0.0	8.2.5 Warping at the specified test pressure	5
	8.3	Burst pressure test SIST EN ISO 1402,2021 Land Library Standards iteh ai/catalog/standards/sist/82e4bh3e_c139_4ed6-bc24-	5
	8.4	8.2.5 Warping at the specified test pressure Burst pressure test SIST EN ISO 1402:2021 Leakage test dards itch ai/catalog/standards/sist/82e4bb3e-c139-4ed6-bc24- 8.4.1 Test pieces bff2f00012ed/sist-en-iso-1402-2021	6
		8.4.2 Procedure	0
		8.4.3 Criteria for failure	
9	Tock		
-		report	
Ripl	iograph	NY	9

ISO 1402:2021(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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html. (Standards.iteh.ai)

This document was prepared by Technical Committee ISO/TC 45, Rubber and rubber products, Subcommittee SC 1, Rubber and plastics hoses and hose assemblies, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 218, Rubber and plastics hoses and hose assemblies, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This fifth edition cancels and replaces the fourth edition (ISO 1402:2009), which has been technically revised. The main changes compared to the previous edition are as follows:

- the tolerances of the pressure in Figure 3, 7.2.2, 8.1 and 8.2 have been revised;
- the description of the failure mode in <u>8.3</u> has been revised.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.