

SLOVENSKI STANDARD

SIST-TS CEN ISO/TS 22391-7:2012

01-januar-2012

Cevni sistemi iz polimernih materialov za napeljave z vročo in hladno vodo - Polietilen s povišano temperaturno odpornostjo (PE-RT) - 7. del: Navodilo za ugotavljanje skladnosti (ISO/PRF TS 22391-7:2011)

Plastics piping systems for hot and cold water installations - Polyethylene of raised temperature resistance (PE-RT) - Part 7: Guidance for the assessment of conformity (ISO/PRF TS 22391-7:2011)

Kunststoff-Rohrleitungssysteme für die Warm- und Kaltwasserinstallation - Polyethylen erhöhter Temperaturbeständigkeit (PE-RT) - Teil 7: Empfehlungen für die Beurteilung der Konformität (ISO/PRF TS 22391-7:2011)

<https://standards.iteh.ai/catalog/standards/sist/83ee8416-2204-4d52-a6d3-2012-01-01/sist-ts-cen-iso-ts-22391-7-2012>

Systèmes de canalisations en plastique pour les installations d'eau chaude et froide - Polyéthylène de meilleure résistance à la température (PE-RT) - Partie 7: Guide pour l'évaluation de la conformité (ISO/PRF TS 22391-7:2011)

Ta slovenski standard je istoveten z: CEN ISO/TS 22391-7:2011

ICS:

23.040.01	Deli cevovodov in cevovodi na splošno	Pipeline components and pipelines in general
91.140.60	Sistemi za oskrbo z vodo	Water supply systems
93.025	Zunanji sistemi za prevajanje vode	External water conveyance systems

SIST-TS CEN ISO/TS 22391-7:2012 en

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST-TS CEN ISO/TS 22391-7:2012](https://standards.iteh.ai/catalog/standards/sist/83ee8416-2204-4d52-a6d3-ee477ee3054a/sist-ts-cen-iso-ts-22391-7-2012)

<https://standards.iteh.ai/catalog/standards/sist/83ee8416-2204-4d52-a6d3-ee477ee3054a/sist-ts-cen-iso-ts-22391-7-2012>

TECHNICAL SPECIFICATION
SPÉCIFICATION TECHNIQUE
TECHNISCHE SPEZIFIKATION

CEN ISO/TS 22391-7

November 2011

ICS 93.025; 91.140.60; 23.040.01

English Version

Plastics piping systems for hot and cold water installations -
Polyethylene of raised temperature resistance (PE-RT) - Part 7:
Guidance for the assessment of conformity (ISO/TS 22391-
7:2011)

Systèmes de canalisations en plastique pour les
installations d'eau chaude et froide - Polyéthylène de
meilleure résistance à la température (PE-RT) - Partie 7:
Guide pour l'évaluation de la conformité (ISO/TS 22391-
7:2011)

Kunststoff-Rohrleitungssysteme für die Warm- und
Kaltwasserinstallation - Polyethylen erhöhter
Temperaturbeständigkeit (PE-RT) - Teil 7: Empfehlungen
für die Beurteilung der Konformität (ISO/TS 22391-7:2011)

This Technical Specification (CEN/TS) was approved by CEN on 14 November 2011 for provisional application.

The period of validity of this CEN/TS is limited initially to three years. After two years the members of CEN will be requested to submit their comments, particularly on the question whether the CEN/TS can be converted into a European Standard.

CEN members are required to announce the existence of this CEN/TS in the same way as for an EN and to make the CEN/TS available promptly at national level in an appropriate form. It is permissible to keep conflicting national standards in force (in parallel to the CEN/TS) until the final decision about the possible conversion of the CEN/TS into an EN is reached.

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, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.



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

Management Centre: Avenue Marnix 17, B-1000 Brussels

Contents	Page
Foreword.....	3

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST-TS CEN ISO/TS 22391-7:2012](https://standards.iteh.ai/catalog/standards/sist/83ee8416-2204-4d52-a6d3-ee477ee3054a/sist-ts-cen-iso-ts-22391-7-2012)
<https://standards.iteh.ai/catalog/standards/sist/83ee8416-2204-4d52-a6d3-ee477ee3054a/sist-ts-cen-iso-ts-22391-7-2012>

Foreword

This document (CEN ISO/TS 22391-7:2011) has been prepared by Technical Committee CEN/TC 155 "Plastics piping systems and ducting systems", the secretariat of which is held by NEN, in collaboration with Technical Committee ISO/TC 138 "Plastics pipes, fittings and valves for the transport of fluids".

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

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to announce this Technical Specification: 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, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

iTeh STANDARD PREVIEW (standards.iteh.ai)

[SIST-TS CEN ISO/TS 22391-7:2012](https://standards.iteh.ai/catalog/standards/sist/83ee8416-2204-4d52-a6d3-ee477ee3054a/sist-ts-cen-iso-ts-22391-7-2012)

<https://standards.iteh.ai/catalog/standards/sist/83ee8416-2204-4d52-a6d3-ee477ee3054a/sist-ts-cen-iso-ts-22391-7-2012>

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST-TS CEN ISO/TS 22391-7:2012](https://standards.iteh.ai/catalog/standards/sist/83ee8416-2204-4d52-a6d3-ee477ee3054a/sist-ts-cen-iso-ts-22391-7-2012)

<https://standards.iteh.ai/catalog/standards/sist/83ee8416-2204-4d52-a6d3-ee477ee3054a/sist-ts-cen-iso-ts-22391-7-2012>

TECHNICAL
SPECIFICATION

ISO/TS
22391-7

First edition
2011-11-15

**Plastics piping systems for hot and cold
water installations — Polyethylene of
raised temperature resistance (PE-RT) —**

**Part 7:
Guidance for the assessment of
conformity**

iTeh STANDARD PREVIEW

(standards.iteh.ai)
 *Systèmes de canalisations en plastique pour les installations d'eau
chaude et froide — Polyéthylène de meilleure résistance à la
température (PE-RT) —*

SIST-TS CEN ISO/TS 22391-7:2012

Partie 7: Guide pour l'évaluation de la conformité

<https://standards.iteh.ai/catalog/standards/sist/83ec8416-2204-4d52-a6d5-ee477ee3054a/sist-ts-cen-iso-ts-22391-7-2012>



Reference number
ISO/TS 22391-7:2011(E)

© ISO 2011

iTeh STANDARD PREVIEW (standards.iteh.ai)

[SIST-TS CEN ISO/TS 22391-7:2012](https://standards.iteh.ai/catalog/standards/sist/83ee8416-2204-4d52-a6d3-ee477ee3054a/sist-ts-cen-iso-ts-22391-7-2012)

<https://standards.iteh.ai/catalog/standards/sist/83ee8416-2204-4d52-a6d3-ee477ee3054a/sist-ts-cen-iso-ts-22391-7-2012>



COPYRIGHT PROTECTED DOCUMENT

© ISO 2011

All rights reserved. Unless otherwise specified, 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 either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

Published in Switzerland

Contents

Page

Foreword	iv
Introduction.....	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	2
4 Abbreviated terms	5
5 General	5
6 Testing and inspection	6
6.1 Grouping	6
6.2 Type testing	7
6.3 Batch release tests	10
6.4 Process verification tests	11
6.5 Audit tests	12
6.6 Indirect tests	13
6.7 Test records	13
Bibliography.....	14

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST-TS CEN ISO/TS 22391-7:2012](https://standards.iteh.ai/catalog/standards/sist/83ee8416-2204-4d52-a6d3-ee477ee3054a/sist-ts-cen-iso-ts-22391-7-2012)

<https://standards.iteh.ai/catalog/standards/sist/83ee8416-2204-4d52-a6d3-ee477ee3054a/sist-ts-cen-iso-ts-22391-7-2012>

ISO/TS 22391-7:2011(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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. 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.

In other circumstances, particularly when there is an urgent market requirement for such documents, a technical committee may decide to publish other types of normative document:

- an ISO Publicly Available Specification (ISO/PAS) represents an agreement between technical experts in an ISO working group and is accepted for publication if it is approved by more than 50 % of the members of the parent committee casting a vote;
- an ISO Technical Specification (ISO/TS) represents an agreement between the members of a technical committee and is accepted for publication if it is approved by 2/3 of the members of the committee casting a vote.

An ISO/PAS or ISO/TS is reviewed after three years in order to decide whether it will be confirmed for a further three years, revised to become an International Standard, or withdrawn. If the ISO/PAS or ISO/TS is confirmed, it is reviewed again after a further three years, at which time it must either be transformed into an International Standard or be withdrawn.

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.

ISO/TS 22391-7 was prepared by the European Committee for Standardization (CEN) Technical Committee TC 155, *Plastics piping systems and ducting systems*, in collaboration with ISO Technical Committee ISO/TC 138, *Plastics pipes, fittings and valves for the transport of fluids*, Subcommittee SC 2, *Plastics pipes and fittings for water supplies*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

ISO 22391 consists of the following parts, under the general title *Plastics piping systems for hot and cold water installations — Polyethylene of raised temperature resistance (PE-RT)*:

- *Part 1: General*
- *Part 2: Pipes*
- *Part 3: Fittings*
- *Part 5: Fitness for purpose of the system*
- *Part 7: Guidance for the assessment of conformity [Technical Specification]*

Introduction

At the date of publication of this part of ISO 22391, System Standards for piping systems of other plastics materials used for the same application are the following:

ISO 15874 (all parts), *Plastics piping systems for hot and cold water installations — Polypropylene (PP)*

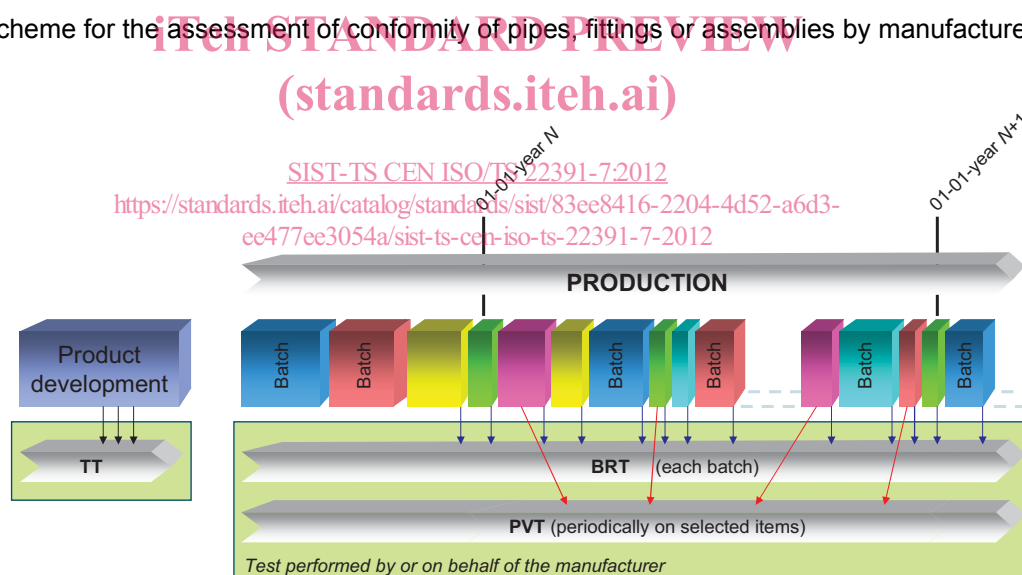
ISO 15875 (all parts), *Plastics piping systems for hot and cold water installations — Crosslinked polyethylene (PE-X)*

ISO 15876 (all parts), *Plastics piping systems for hot and cold water installations — Polybutylene (PB)*

ISO 15877 (all parts), *Plastics piping systems for hot and cold water installations — Chlorinated poly(vinyl chloride) (PVC-C)*

Figures 1 and 2 are intended to provide general information on the concept of testing and organization of those tests used for the purpose of the assessment of conformity. For each kind of test, i.e. type test (TT), batch release test (BRT), process verification test (PVT), and audit test (AT), this part of ISO 22391 details the applicable characteristics to be assessed as well as the frequency and sampling of testing.

A typical scheme for the assessment of conformity of pipes, fittings or assemblies by manufacturers is given in Figure 1.



Key

- BRT batch release test
- PVT process verification test
- TT type testing

Figure 1 — Typical scheme for the assessment of conformity by a manufacturer

A typical scheme for the assessment of conformity of pipes, fittings or assemblies by manufacturers, including certification, is given in Figure 2.