

SLOVENSKI STANDARD
oSIST prEN ISO 11297-3:2017
01-oktober-2017

Cevni sistemi iz polimernih materialov za obnovo podzemnih omrežij za odvodnjavanje in kanalizacijo pod tlakom - 3. del: Oblaganje s tesno prilagodljivimi cevmi (ISO/DIS 11297-3:2017)

Plastics piping systems for renovation of underground drainage and sewerage networks under pressure - Part 3: Lining with close-fit pipes (ISO/DIS 11297-3:2017)

Kunststoff-Rohrleitungssysteme für die Renovierung von erdverlegten Abwasserdruckleitungen — Teil 3: Close-Fit-Lining (ISO/DIS 11297-3:2017)

Systèmes de canalisations en plastique pour la rénovation des réseaux de branchements et de collecteurs d'assainissement enterrés sous pression -- Partie 3: Tubage par tuyau continu sans espace annulaire (ISO/DIS 11297-3:2017)

Ta slovenski standard je istoveten z: prEN ISO 11297-3

ICS:

23.040.05	Cevovodi za zunanje sisteme za odpadno vodo in njihovi deli	Pipeline and its parts for external sewage systems
91.140.80	Drenažni sistemi	Drainage systems
93.030	Zunanji sistemi za odpadno vodo	External sewage systems

oSIST prEN ISO 11297-3:2017

en

DRAFT INTERNATIONAL STANDARD

ISO/DIS 11297-3

ISO/TC 138/SC 8

Secretariat: JISC

Voting begins on:
2017-07-17Voting terminates on:
2017-10-08

Plastics piping systems for renovation of underground drainage and sewerage networks under pressure —

Part 3: Lining with close-fit pipes

Systèmes de canalisations en plastique pour la rénovation des réseaux de branchements et de collecteurs d'assainissement enterrés sous pression —

Partie 3: Tubage par tuyau continu sans espace annulaire

ICS: 23.040.45; 23.040.20; 91.140.80; 93.030

iTeh Standards
(<https://standards.iteh.ai>)
Document Preview

SIST EN ISO 11297-3:2018

<https://standards.iteh.ai/catalog/standards/sist/463f2262-bc17-48df-abb8-8296d224ca2d/sist-en-iso-11297-3-2018>

THIS DOCUMENT IS A DRAFT CIRCULATED FOR COMMENT AND APPROVAL. IT IS THEREFORE SUBJECT TO CHANGE AND MAY NOT BE REFERRED TO AS AN INTERNATIONAL STANDARD UNTIL PUBLISHED AS SUCH.

IN ADDITION TO THEIR EVALUATION AS BEING ACCEPTABLE FOR INDUSTRIAL, TECHNOLOGICAL, COMMERCIAL AND USER PURPOSES, DRAFT INTERNATIONAL STANDARDS MAY ON OCCASION HAVE TO BE CONSIDERED IN THE LIGHT OF THEIR POTENTIAL TO BECOME STANDARDS TO WHICH REFERENCE MAY BE MADE IN NATIONAL REGULATIONS.

RECIPIENTS OF THIS DRAFT ARE INVITED TO SUBMIT, WITH THEIR COMMENTS, NOTIFICATION OF ANY RELEVANT PATENT RIGHTS OF WHICH THEY ARE AWARE AND TO PROVIDE SUPPORTING DOCUMENTATION.

This document is circulated as received from the committee secretariat.

ISO/CEN PARALLEL PROCESSING



Reference number
ISO/DIS 11297-3:2017(E)

© ISO 2017

iTeh Standards
(<https://standards.iteh.ai>)
Document Preview

SIST EN ISO 11297-3:2018

<https://standards.iteh.ai/catalog/standards/sist/463f2262-bc17-48df-abb8-8296d224ca2d/sist-en-iso-11297-3-2018>



COPYRIGHT PROTECTED DOCUMENT

© ISO 2017, Published in Switzerland

All rights reserved. Unless otherwise specified, 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
Ch. de Blandonnet 8 • CP 401
CH-1214 Vernier, Geneva, Switzerland
Tel. +41 22 749 01 11
Fax +41 22 749 09 47
copyright@iso.org
www.iso.org

Contents

Page

Foreword	v
Introduction	vi
1 Scope	1
2 Normative references	1
3 Terms and definitions	2
3.1 General	2
3.2 Techniques	2
3.3 Characteristics	2
3.4 Materials	3
3.5 Product stages	3
3.6 Service conditions	3
3.7 Joints	3
4 Symbols and abbreviated terms	4
4.1 Symbols	4
4.2 Abbreviated terms	4
5 Pipes at the “M” stage	4
5.1 Materials	4
5.1.1 Virgin material	4
5.1.2 Reprocessable and recyclable material	5
5.2 General characteristics	5
5.2.1 Appearance	5
5.2.2 Colour	5
5.3 Material characteristics	5
5.4 Geometric characteristics	5
5.5 Mechanical characteristics	5
5.6 Physical characteristics	5
5.7 Jointing	6
5.8 Marking	6
5.9 Regional requirements for pipes	6
6 Fittings at the “M” stage	6
6.1 Requirements	6
6.2 Marking	6
6.3 Regional requirements for fittings	6
7 Ancillary components	6
8 Fitness for purpose of the installed lining system at the “I” stage	7
8.1 Materials	7
8.2 General characteristics	7
8.3 Material characteristics	7
8.4 Geometric characteristics	7
8.5 Mechanical characteristics	9
8.6 Physical characteristics	9
8.7 Additional characteristics	9
8.8 Sampling	10
8.9 Regional requirements for the installed lining system	10
9 Installation practice	10
9.1 Preparatory work	10
9.2 Storage, handling and transport of pipes and fittings	10
9.3 Equipment	10
9.3.1 Butt-fusion and debanding equipment	10
9.3.2 Reduction equipment	11
9.3.3 Pipe skids/rollers	11

ISO/DIS 11297-3:2017(E)

9.3.4	Winching and rod-pulling equipment.....	11
9.3.5	Pipe entry guides.....	11
9.3.6	Reforming equipment.....	11
9.3.7	Electrofusion equipment.....	12
9.3.8	Inspection equipment.....	12
9.3.9	Lifting equipment.....	12
9.4	Installation.....	12
9.5	Process-related inspection and testing.....	13
9.6	Lining termination.....	13
9.7	Reconnection to existing manholes and laterals.....	13
9.8	Documentation.....	13
Annex A (normative) Factory-folded heat-reverted polyethylene (PE) pipe — Determination of memory ability.....		14
Bibliography.....		17

iTeh Standards
(<https://standards.iteh.ai>)
Document Preview

SIST EN ISO 11297-3:2018

<https://standards.iteh.ai/catalog/standards/sist/463f2262-bc17-48df-abb8-8296d224ca2d/sist-en-iso-11297-3-2018>

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 on 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 the following URL: www.iso.org/iso/foreword.html.

The committee responsible for this document is ISO/TC 138, Plastics pipes, fittings and valves for the transport of fluids, Subcommittee SC 8, Rehabilitation of pipeline systems.

This second edition cancels and replaces the first edition (ISO 11297-3:2013), [clauses 1, 3, 5, 8 and 9](#) of which have been technically revised.

A list of all parts in the ISO 11297- series, published under the general title Plastics pipes for renovation of underground non-pressure drainage and sewerage networks, can be found on the ISO website.

<https://standards.iteh.ai/catalog/standards/sist/463f2262-bc17-48df-abb8-8296d224ca2d/sist-en-iso-11297-3-2018>

ISO/DIS 11297-3:2017(E)

Introduction

This International Standard is a part of a system standard for plastics piping systems of various materials used for renovation of existing pipelines in a specified application area. System standards for renovation dealing with the following applications are either available or in preparation:

- *Plastics piping systems for renovation of underground non-pressure drainage and sewerage networks;*
- *Plastics piping systems for renovation of underground drainage and sewerage networks under pressure (this application);*
- *Plastics piping systems for renovation of underground water supply networks;*
- *Plastics piping systems for renovation of underground gas supply networks.*

These system standards are distinguished from system standards for conventionally installed plastics piping systems by the requirement to verify certain characteristics in the “as installed” condition, after site processing. This is in addition to verification of characteristics of plastics piping systems “as manufactured”.

Each of the System Standards comprises a:

- *Part 1: General*

and all applicable renovation technique family-related parts, which for non- drainage and sewerage networks under pressure include or potentially include the following:

- *Part 2: Lining with continuous pipes*
- *Part 3: Lining with close-fit pipes (this document)*
- *Part 4: Lining with cured-in-place pipes*
- *Part 5: Lining with discrete pipes*
- *Part 6: Lining with adhesive-backed hoses*

The requirements for any given renovation technique family are specified in part 1, applied in conjunction with the relevant other part. For example, both ISO 11297-1 and this part of ISO 11297 together specify the requirements relating to lining with close-fit pipes. For complementary information, see ISO 11295. Not all technique families are pertinent to every area of application and this is reflected in the part numbers included in each System Standards.

A consistent structure of clause headings has been adopted for all parts to facilitate direct comparisons across renovation technique families.

Figure 1 shows the common part and clause structure and the relationship between ISO 11297 and system standards for other applications.

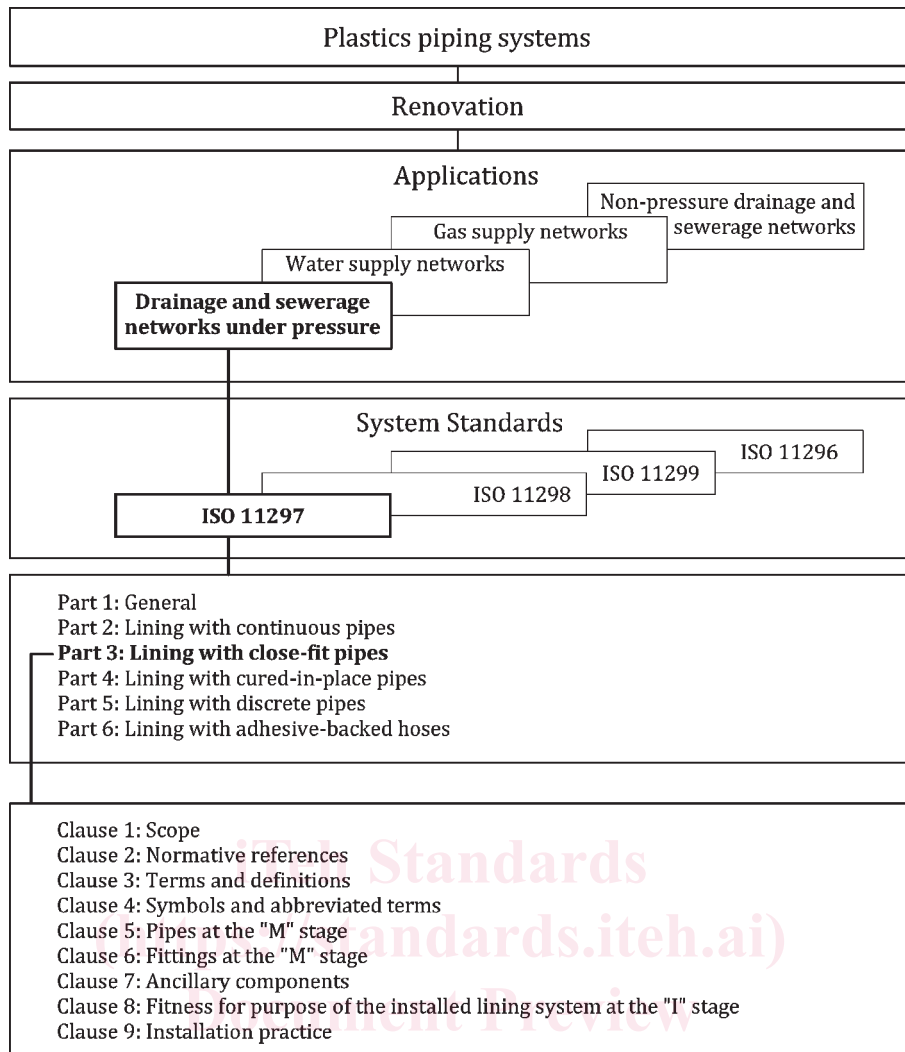


Figure 1 — Format of the renovation system standards

<https://standards.iteh.ai/catalog/standards/sist/463f2262-bc17-48df-ab68-8296d224ca2d/sist-en-iso-11297-3-2018>

