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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 41666.4-2024

**Plastics piping systems for renovation of underground
non-pressure drainage and sewerage networks - Part 4: Lining
with cured-in-place pipes**

(English Translation)

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting.

This document is Part 4 of GB/T 41666 "Plastic Piping Systems for Trenchless Repair of Underground Non-pressure Drainage Networks".

The following parts have been published.

--- Part 3: Tight fitting lining method;

--- Part 4: In-situ cured lining method.

This document is modified to adopt ISO 11296-4:2018 "Plastic piping systems for trenchless repair of underground non-pressure drainage networks Part 4: Original in-place curing lining method.

Compared with ISO 11296-4:2018, this document has many structural adjustments. Here is a comparison of the structural number changes between the two documents.

See Appendix A for the table.

This document has many technical differences compared to ISO 11296-4:2018.

A list of these technical differences and their reasons is given in Appendix B.

Introduction

In order to standardize the application of plastic pipe systems in trenchless repair work in different application fields, SAC/TC48 prepared GB/T 37862 Based on the General Principles of Plastic Pipes for Trenchless Repair, it is planned to gradually establish a standard system for plastic pipe systems for pipeline repair.

see picture 1.

Figure 1 Framework of the trenchless repair standard system

GB/T 41666 "Plastic Pipe Systems for Trenchless Repair of Underground Non-pressure Drainage Networks" is intended to define the requirements for trenchless repair of underground non-pressure drainage pipelines.

The working criteria and technical requirements for applicable materials of various repair technologies during the production, construction and acceptance stages are intended to be composed of the following parts.

--- Part 1: General. The purpose is to establish the requirements for plastic pipe systems used for trenchless repair of underground non-pressure drainage networks.

General requirements, overarching principles and relevant rules to be followed.

--- Part 2: Continuous interlaced lining method. The purpose is to clarify the applicable materials of the continuous interlaced lining method in production, manufacturing and construction inspection.

Technical requirements for the collection phase.

--- Part 3: Tight fit lining method. The purpose is to clarify the applicable materials of the tight fit lining method in production, manufacturing and construction inspection.

Technical requirements for the collection phase.

--- Part 4: In-situ curing lining method. The purpose is to clarify the applicable materials of the in-situ curing lining method in production, manufacturing and construction Technical requirements for the collection phase.

--- Part 5: Short pipe interspersed lining method. The purpose is to clarify the applicable materials of the short pipe interspersed lining method in production, manufacturing and construction inspection.

Technical requirements for the collection phase.

--- Part 7: Spiral winding lining method. The purpose is to clarify the applicable materials of the spiral winding lining method in production, manufacturing and construction inspection.

Technical requirements for the collection phase.

--- Part 8: Segmental lining method. The purpose is to clarify the applicable materials for the segmental lining method in production, manufacturing and construction inspection.

Technical requirements for the collection phase.

--- Part 9: Rigid anchor plastic lining method. The purpose is to clarify the applicable materials of the rigid anchor plastic lining method in the production and manufacturing and technical requirements for the construction acceptance phase.

--- Part 10: Polymer spray lining method. The purpose is to clarify the applicable materials of polymer spray lining method in production and application Technical requirements for the construction acceptance stage.

Plastic pipes for trenchless repair of underground non-pressure drainage networks Systems
Part 4: Cured-in-place lining method

1 Scope

This document specifies the following procedures for trenchless repair of underground non-pressure drainage networks with working temperatures not exceeding 50°C using the in-situ cured lining method.

The requirements for plastic piping systems used in the production phase ("M" phase) of lined hoses and the construction phase ("I" phase) after curing of the lined pipes are described.

The corresponding test methods specify the contents of construction and acceptance.

This document applies to all thermosetting resin systems, carrier materials, reinforcement materials, process-related plastics and other materials used in the cured-in-place lining process.

Material film and installed cured liner pipe system.

2 Normative references

The contents of the following documents constitute the essential clauses of this document through normative references in this document.

For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies to this document.