



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

GB/T 18998.5-2022

**Chlorinated poly (vinyl chloride) (PVC-C) piping systems for
industrial applications - Part 5: Fitness for purpose of the
system**

Issued on: April 15, 2022

Implemented on: November 1, 2022

**Issued by: State Administration for Market Regulation, China National
Standardization Administration**

Table of Contents

foreword
Introduction
1 Scope
2 Normative references
3 Terms and Definitions, Symbols, Abbreviations

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 of Standardization Documents" drafted.

This document is part 5 of GB/T 18998 "Industrial Chlorinated Polyvinyl Chloride (PVC-C) Piping System". GB/T 18998 has

The following sections were published.

- Part 1. General;
- Part 2. Pipes;
- Part 3. Pipe fittings;
- Part 5. System suitability.

This document refers to ISO 15493.2003 "Industrial plastic piping systems Acrylonitrile-butadiene-styrene plastics (ABS), rigid polychlorinated

Ethylene (PVC-U) and Chlorinated Polyvinyl Chloride (PVC-C) Components and Systems, Metric Series, ISO 15493.2003/Amd.2016 onwards

Grass, the degree of consistency is non-equivalent. In addition, this document also refers to ISO 15877-5.2009 "Chlorinated Polyethylene

Vinyl Chloride (PVC-C) Part 5. System Suitability and ISO 15877-5.2009/Amd.2020.

Please note that some content of this document may be patented. The issuing agency of this document assumes no responsibility for identifying patents.

Introduction

GB/T 18998 according to the national conditions of my country's industrial pipeline industry,

combined with many years of industrial chlorinated polyvinyl chloride (PVC-C) pipeline engineering

Design experience developed. This document contains four parts. general rules, pipes, fittings, and system applicability.

--- Part 1.General. The purpose is to establish terms and definitions applicable to industrial chlorinated polyvinyl chloride (PVC-C) piping systems,

Symbols, Abbreviations and Materials.

--- Part 2.Tubing. The purpose is to standardize the product requirements, test methods and inspection of industrial chlorinated polyvinyl chloride (PVC-C) pipes.

Inspection rules and other related requirements.

--- Part 3.Fittings. The purpose is to standardize the product requirements, test methods and inspection of industrial chlorinated polyvinyl chloride (PVC-C) pipe fittings.

Inspection rules and other related requirements.

--- Part 5.System suitability. The purpose is to standardize the system suitability of industrial chlorinated polyvinyl chloride (PVC-C) piping systems

Test items, test methods and other related requirements.

Industrial Chlorinated Polyvinyl Chloride (PVC-C) Piping Systems

Part 5.System Suitability

1 Scope

This document specifies terms and definitions, symbols, abbreviations, system suitability tests for industrial chlorinated polyvinyl chloride (PVC-C) piping systems

test, test method.

This document, together with other parts of GB/T 18998, applies to industrial chlorinated polyvinyl chloride piping systems, including pressurized water supply and drainage

It is widely used in water treatment, petroleum, chemical industry, electric power, electronics, metallurgy, mining, shipbuilding, electroplating, papermaking, food, medicine and other fields of fluid transportation pipelines.

system.

Note 1.It is the responsibility of the purchaser to properly select this product according to the application needs of conveying flammable media and in combination with relevant regulations, standards or specifications for fire and explosion protection.

product.

Note 2.It is the responsibility of the purchaser to select the appropriate selection according to the application needs of transporting drinking water, food, and medicine, and in combination with the requirements of relevant laws, standards or specifications such as hygienic performance.

use this product.

Note 3.It is the responsibility of the purchaser to select the appropriate chemical resistance grade according to the application needs of transporting chemical media, see Appendix B of GB/T 18998.1-2022

This product.

2 Normative references

The contents of the following documents constitute essential provisions of this document through normative references in the text. Among them, dated citations

documents, only the version corresponding to that date applies to this document; for undated references, the latest edition (including all amendments) applies to this document.

GB/T 2918 Standard Environment for Conditioning and Testing of Plastic Specimens

GB/T 6111-2018 Determination of internal pressure resistance of thermoplastic piping systems for fluid transportation

GB/T 15820 Pull-out resistance test of polyethylene pressure pipe and pipe fittings

GB/T 18993.5 Chlorinated polyvinyl chloride (PVC-C) piping systems for hot and cold water - Part 5.System suitability

GB/T 18998.1-2022 Industrial chlorinated polyvinyl chloride (PVC-C) piping systems - Part 1.General

GB/T 19278-2018 General terms and definitions for thermoplastic pipes, fittings and valves

GB/T 19993 Thermocycling test method for combined system of pipes and fittings for thermoplastic piping systems for hot and cold water

ISO 19892 Test method for pressure cycling of thermoplastic pipes and fittings for hot and cold water in plastic piping systems (Plastics)

3 Terms and Definitions, Symbols, Abbreviations

Terms and definitions, symbols and abbreviations defined in GB/T 18998.1-2022 and GB/T 19278-2018 are applicable to this document.