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

**GB/T 18998.1-2022**

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**Chlorinated poly(vinyl chloride) (PVC-C) piping systems for  
industrial applications - Part 1: General**

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3.1 Terms and Definitions

### 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 1 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 replaces GB/T 18998.1-2003 "Industrial Chlorinated Polyvinyl Chloride (PVC-C) Piping System Part 1. General", and

Compared with GB/T 18998.1-2003, in addition to structural adjustment and editorial changes, the main technical changes are as follows.

- a) changed the scope (see Chapter 1, Chapter 1 of the.2003 edition);
- b) Changed terms and definitions, symbols, abbreviations (see Chapter 3, Chapter 3 of the.2003 edition);
- c) Changed the requirements for mixing ingredients (see 4.1, 4.1 of the.2003 edition);
- d) Changed the requirements for chlorine content of chlorinated polyvinyl chloride (PVC-C) resins, and CPVC for the production of pipes and fittings  
(PVC-C) requirements for chlorine content of compounds (see 4.4, 4.2 of the.2003 edition);

- e) Added performance requirements for mixtures (see 4.4);
- f) The provisions on material reuse are deleted (see 4.5 of the.2003 edition);
- g) Adjust Appendix A of the.2003 edition to a normative appendix (see Appendix A, Appendix A of the.2003 edition).

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" and ISO 15493.2003/Amd.2016

Drafted, the degree of consistency is non-equivalent.

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 1.General

## 1 Scope

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

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.

## 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 1033.1 Determination of Density of Plastic Non-foamed Plastics Part 1. Impregnation, Pycnometer and Titration

GB/T 1040.2 Determination of Tensile Properties of Plastics Part 2. Test Conditions for Molded and Extruded Plastics

GB/T 1633 Determination of Vicat Softening Temperature (VST) of Thermoplastics

GB/T 7139 Determination of chlorine content in plastic vinyl chloride homopolymers and copolymers

GB/T 18252 Plastic piping systems Determination of long-term hydrostatic strength of

thermoplastic materials in tubular form by extrapolation

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

### **3.1 Terms and Definitions**

Terms and definitions defined in GB/T 19278-2018 apply to this document. For ease of use, GB/T 19278-

Certain terms and definitions in.2018.

#### **3.1.1 Terms and definitions related to geometric dimensions**

##### **3.1.1.1**

dn

The nominal value of the outside diameter of the spigot portion of the pipe or fitting.

[Source. GB/T 19278-2018, 2.3.8]