



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

GB/T 18998.2-2022

**Chlorinated poly(vinyl chloride) (PVC-C) piping systems for
industrial applications - Part 2: Pipes**

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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 of Standardization Documents"

drafted.

This document is part 2 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 18998.2-2003 "Industrial Chlorinated Polyvinyl Chloride (PVC-C) Piping Systems Part 2. Pipes", and

Compared with GB/T 18998.2-2003, 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) Added requirements for recycled materials (see 4.2);
- d) Added requirements for adhesives (see 4.3);
- e) The classification of pipes by pipe series S is deleted (see 5.1 of the 2003 edition);
- f) Changed the requirements for appearance (see 5.2, 6.2 of the 2003 edition);
- g) Delete the wall thickness in brackets with * specification in Table 1 (see Table 1 of

the.2003 edition);

h) The requirements for curvature are added (see 5.3.6);

i) Changed the requirements for opacity (see 5.5, 6.3 of the.2003 edition);

j) requirements for tensile strength are added (see 5.5);

k) changed the requirements for chlorine content (see 5.5);

l) The specific content of the system suitability test is deleted (see 6.7 of the.2003 edition);

m) added inspection classification (see 8.1);

n) Added pipe size grouping (see 8.2);

o) Changed the acceptance quality level 6.5 inspection to acceptance quality limit (AQL) 4.0 (see 8.4.2, 8.3.2 of the.2003 edition);

p) Changed the requirements for type inspection (see 8.5, 8.4 of the.2003 edition);

q) The decision rule has been changed (see 8.6, 8.6 of the.2003 edition).

This document refers to ISO 15493.2003 "Industrial Plastics Piping Systems Acrylonitrile-Butadiene-Styrene Plastics (ABS), Rigid Polyvinyl Chloride

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 2.Tubing

1 Scope

This document specifies chlorinated polyvinyl chloride (PVC-C) resin as the main raw material, extruded industrial chlorinated polyvinyl chloride

(PVC-C) pipe (hereinafter referred to as pipe) terms and definitions, symbols, abbreviations, materials, requirements, system suitability, test methods, inspection regulations

rules and marking, packaging, transportation and storage.

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 select this product appropriately according to the application needs of transporting flammable media and in combination with the relevant regulations, standards or specifications for fire and explosion protection.

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.

This product.

Note 3.The purchaser is responsible for the chemical resistance grades in Appendix B of GB/T 18998.1-2022 according to the application needs of transporting chemical media.

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 2828.1 Counting Sampling Inspection Procedure Part 1. Lot-by-Lot Inspection Sampling Plan Retrieved by Acceptance Quality Limit (AQL)

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 6671 Determination of longitudinal shrinkage of thermoplastic pipes

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

GB/T 8802 Determination of Vicat softening temperature of thermoplastic pipes and fittings

GB/T 8804.2 Determination of Tensile Properties of Thermoplastic Pipes Part 2. Rigid Polyvinyl Chloride (PVC-U), Chlorinated Polyvinyl Chloride

(PVC-C) and high impact polyvinyl chloride (PVC-HI) pipes

GB/T 8806 Measurement of the dimensions of plastic parts of plastic piping systems

GB/T 14152 Test method for external impact resistance of thermoplastic pipes

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

GB/T 18998.3-2022 Industrial Chlorinated Polyvinyl Chloride (PVC-C) Piping Systems Part 3. Pipe Fittings

GB/T 18998.5-2022 Industrial chlorinated polyvinyl chloride (PVC-C) piping systems - Part 5. System suitability

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

GB/T 21300 Determination of Opacity of Plastic Pipes and Fittings

QB/T 2803 Method for measuring the curvature of rigid plastic pipes