

ICS 13.030.40

CCS J 88



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

GB/T 28743-2025

Replacing GB/T 28743-2012

**Sewage treatment vessel equipment - General technical
requirements**

污水处理容器设备 通用技术条件

Issued on: December 2, 2025

Implemented on: July 1, 2026

**Issued by: State Administration for Market Regulation;
Standardization Administration of the PRC**

Table of Contents

1.Scope	1
2 Normative References	1
3.Terms and Definitions	2
4.Technical Requirements	2
4.1 Design Requirements	2
4.2 Material Requirements	2
4.3 Manufacturing Requirements	2
4.4 Corrosion Protection Requirements	3
4.5 Sealing and strength requirements	3
4.6 Safety Requirements	3
5.Test Methods	3
5.1 Materials	3
5.2 Manufacturing	3
5.3 Corrosion Protection	4
5.4 Sealing and Strength	4
5.5 Safety	4
7 Inspection Rules	5
7.1 Inspection Classification	5
7.2 Factory Inspection	5
7.3 Type Testing	5
7.4 Inspection Items	5
7.5 Judgment Rule	5
8.1 Identification	6
8.2 Packaging	6
8.3 Transportation	6
8.4 Storage	6

Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part

1.Structure and Drafting Rules of Standardization Documents". Drafting. This document

supersedes GB/T 28743-2012 "General Technical Conditions for Wastewater Treatment Container Equipment" and is consistent with GB/T 28743-2012. Compared to previous versions, aside from structural adjustments and editorial changes, the main technical changes are as follows:

- a) The scope has been changed (see Chapter 1, Chapter 1 of the.2012 edition);
- b) A "Terms and Definitions" section has been added (see Chapter 3);
- c) The "Equipment Classification" section has been removed (see Chapter 3 of the.2012 edition);
- d) The "Basic Requirements" section has been removed (see section 4.1 in the.2012 edition);
- e) The "Design Requirements" have been changed (see 4.1, 4.2 in the.2012 edition);
- f) The following requirements have been removed. "Environmental Requirements," "Reliability Requirements," "Interchangeability Requirements," and "Equipment Electrical and Safety Requirements" (see section 4.3 of the.2012 edition). 4.5, 4.6, 4.7);
- g) Added "Material Requirements" (see 4.2);
- h) The "Manufacturing Requirements" have been changed (see 4.3, 4.4 in the.2012 edition);

1 Scope

GB/T 28743-2025 is the Chinese national standard covering the tanks and reactors of a treatment works - their materials and corrosion protection against a liquid that attacks steel and concrete alike, their structural design, their coatings and the inspection that keeps them in service. Issued on 2 December 2025, it has been in force since 1 July 2026, replacing GB/T 28743-2012.

This document specifies the technical requirements, test methods, use and maintenance, inspection rules, labeling, packaging, transportation and storage of wastewater treatment container equipment. Storage and other general technical conditions. This document applies to the design, manufacture, and acceptance of non-pressure vessel equipment such as tanks, troughs, and vessels for wastewater treatment. This document does not apply to piping systems within the scope of complete wastewater treatment projects, or to wastewater treatment systems constructed using brick or concrete. facility.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included. For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies. This document.

GB/T 191 Pictorial Symbols for Packaging and Storage

GB/T 1040.2 Determination of tensile properties of plastics - Part

5 Protective coating systems

GB/T 50726 Technical Standard for Corrosion Protection Engineering of Industrial Equipment and Pipelines JC/T 587 Corrosion-resistant Vertical Storage Tanks with Glass Fiber Wound Reinforced Thermosetting Resin JC/T 718 Glass fiber wound reinforced thermosetting resin corrosion-resistant horizontal storage tank NB/T 47003.1 Atmospheric Pressure Vessels - Part

1. Welded Steel Atmospheric Pressure Vessels SJ20893 Stainless Steel Pickling and Passivation Specification