

ICS 55.080
CCS A 80



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

GB/T 10454-2025

Replacing GB/T 10454-2000, GB/T 37425-2019

**Packaging - Flexible intermediate bulk containers(FIBCs) for
non-dangerous goods**

包装 非危险货物用柔性中型散装容器

(English Translation)

Issued on: August 29, 2025

Implemented on: March 1, 2026

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

Table of Contents

Preface	
1 Scope	
2 Normative references	
3 Terms and Definitions	
4 Classification and composition	
4.1 Classification	
4.2 Composition	
5 Technical Requirements	
5.1 Materials	
5.2 Size	
5.3 Appearance	
5.4 Filling height	
5.5 Performance	
6 Test Method	
6.1 Dimensional Measurement	
6.2 Performance test	
7 Logo	
Appendix A (Informative) Comparison table of structure numbers between this document and ISO 21898:2024	
Appendix B (Informative) List of technical differences between this document and ISO 21898:2024 and their causes	
Appendix C (Informative) Design of Container Bags	
Appendix D (Normative) UV resistance assessment	
Appendix E (Informative) Optional Methods for UV Resistance Test	
Appendix F (Informative) Selection and Use of Container Bags	
Appendix G (Normative) Cyclic Top Hanging Test	
Appendix H (Normative) Pressure or Stacking Test	
Reference	

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 replaces GB/T 10454-2000 "Container Bags" and GB/T 37425-2019 "Flexible Medium Bulk Bags for Packaging Non-Dangerous Goods".

This document is based on GB/T 37425-2019, integrating the contents of GB/T 10454-2000 and GB/T 37425-Compared with 2019, in addition to structural adjustments and editorial changes, the main technical changes are as follows.

- Changed the scope of application (see Chapter 1, Chapter 1 of the 2019 edition);
- Added "composition" (see 4.2);
- Deleted the requirement for the ratio of material tensile strength to original tensile strength (see 5.1.2 and 6.2.1 of the 2019 edition);
- Added the standards that anti-static performance requirements should meet (see 5.1.3);
- Added requirements for material recycling and use of recycled materials (see 5.1.5 and 5.1.6);
- Increased size requirements (see 5.2);
- Changed the description of structural requirements (see 5.3, 5.2 of the 2019 edition);
- Changed the charging height requirements (see 5.4, 5.3 of the 2019 edition);
- Added dimensional measurement method (see 6.1);
- Added "test requirements" (see 6.2.1);
- Changed the requirements for "bulk density" in "pre-test preparation" [see 6.2.2.1.2 a), 6.1.1a) of the 2019 edition];
- Added the requirements for "time" in "pretreatment" (see 6.2.2.2);
- Changed the content of "Identification" (see Chapter 7, Chapter 7 of the 2019 edition);
- Added a sample diagram of the logo (see Figure 1);
- Changed some test parameters of the "UV resistance test" (see D.3, B.3 of the 2019 edition);
- Added the calculation formula for applied load (see H.4).

This document is modified to adopt ISO 21898:2024 "Flexible intermediate bulk containers for packing non-dangerous goods".

Compared with ISO 21898:2024, this document has many structural adjustments.

See Appendix A.

This document has many technical differences compared to ISO 21898:2024.

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

The following editorial changes have been made to this document.

--- Added the note for "flexible intermediate bulk containers/bulk bags";

--- Changed "References".

1 Scope

This document specifies the classification and composition, technical requirements, test methods and marking of flexible intermediate bulk containers for non-dangerous goods.

Guidance on the selection and use of flexible intermediate bulk containers for non-hazardous goods.

This document applies to the production and handling of flexible intermediate bulk containers for non-hazardous solid goods in powdery, granular or pasty form and lifted from above.

test.

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.

GB/T 3923.1 Textiles - Tensile properties of fabrics - Part 1: Determination of breaking strength and elongation at break (Strip method) (GB/T 3923.1-2013, ISO 13934-1:1999, MOD) GB/T 4857.4 Basic tests for packaging and transport packages Part 4: Compression and stacking tests using a pressure testing machine Method (GB/T 4857.4-2008, ISO 12048:1994, IDT) GB/T 16422.3 Plastics laboratory light source exposure test method Part 3: Fluorescent ultraviolet lamp (GB/T 16422.3-2022, ISO 4892-3:2016, IDT) IEC 61340-4-4 Electrostatics Part 4-4. Standard test methods for specific applications of flexible intermediate bulk containers (FIBC)

3 Terms and Definitions

The following terms and definitions apply to this document.

Container bags

Made of flexible material (such as woven cloth, plastic film, etc.), in contact with the contents directly or through the lining, and can be folded when empty Bulk container.

Note: "FIBC" is a commonly used term in the industry. For the convenience of use in this document, "FIBC" is used instead of "flexible intermediate bulk container" in the following expressions.

Rated load safe working load; SWL the maximum loading capacity of the container bag is approved.

Safety factor safety factor; SF the final test load in the cyclic top-lift test is divided by the rated load, and the integer quotient is discarded after the decimal point is discarded.