

ICS 55.180.99

CCS A 82



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

**GB/T 37425-2019**

---

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

**Issued on: May 10, 2019**

**Implemented on: December 1, 2019**

---

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

## Table of Contents

Foreword

1 Scope

2 Normative references

3 Terms and definitions

### Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard uses the redrafting method to modify the use of ISO 21898.2004 "Packaging Flexible Intermediate Bulk Containers for Non-Dangerous Goods".

The technical differences between this standard and ISO 21898.2004 and their reasons are as follows.

---About the normative reference documents, this standard has made technical adjustments to adapt to China's technical conditions, adjustments

The situation is reflected in Chapter 2, "Regulatory Citations", and the specific adjustments are as follows.

\* Replace ISO 12048 with GB/T 4857.4 equivalent to the international standard (see E.2, E.3);

\* Replace ISO 13934-1 with GB/T 3923.1 modified with international standards (see 6.2.1, B.3);

\* Added references to GB/T 1447 (see 6.2.1), GB/T 16422.3 (see B.2), GB/T 25159 (see Chapter 3);

\* The referenced ISO /IEC 17025 has been removed.

--- The specific adjustments to the terms are as follows.

\* References to the terms and definitions defined by the standard GB 25159;

\* The terms "anti-static" and "insect-resistant" in the international standard have been deleted.

--- Added Chapter 4 "Classification".

--- Added 5.4 "performance" requirements.

--- Removed the certification requirements in the international standard.

--- Revised Appendix C title "Design of FIBCs" as "Structure of Medium Bulk Containers".

This standard also made the following editorial changes.

--- Rewritten the scope according to GB/T 1.1-2009, and adjusted the format accordingly.

This standard is proposed and managed by the National Packaging Standardization Technical Committee (SAC/TC49).

This standard is mainly drafted by. Zhongji Branch (Beijing) Vehicle Inspection Engineering Research Institute Co., Ltd., Tianjin Xuhui Hengyuan Plastic Packaging Co., Ltd.

Co., Ltd., Anhui Times Chuangmei Packaging Co., Ltd., Henan Shuozhijia Environmental Protection Technology Co., Ltd., Henan Pulu Environmental Protection Technology Co., Ltd., machine

Mechanical Science Research Institute Group Co., Ltd., Zhongke Gaobo (Beijing) Science and Technology Service Center.

## 1 Scope

This standard specifies the classification, requirements, tests, signs, etc. of flexible intermediate bulk containers for non-dangerous goods (hereinafter referred to as medium bulk containers).

This standard applies to medium-dispersion containers for non-dangerous goods such as powdery or granular solids or pastes.

## 2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article.

Pieces. For undated references, the latest edition (including all amendments) applies to this document.

Test method for tensile properties of GB/T 1447 fiber reinforced plastics (GB/T 1447-2005, ISO 527-4:1997, NEQ)

Textile fabrics - Tensile properties - 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 Packaging and transport packages - Basic test - Part 4. Compression and stacking test using a pressure test machine

Method (GB/T 4857.4-2008, ISO 12048:1994, IDT)

GB/T 16422.3 Plastics laboratory exposure method - Part 3. Fluorescent UV lamps (GB/T

16422.3-2014,

ISO 4892-3:2006, IDT)

GB/T 25159 Packaging terminology Intermediate bulk containers for non-dangerous goods  
(GB/T 25159-2010, ISO 15867:2003,

IDT)

### 3 Terms and definitions

The following terms and definitions as defined in GB/T 25159 apply to this document.

#### 3.1

Flexible intermediate bulk container flexible intermediate bulk container; FIBC

Made of a flexible material (eg woven fabric, plastic film or paper) that can be brought into contact with the contents directly or through the lining, foldable when vacant

Medium bulk container.

#### 3.2

Repose angle reposeful angle

The static angle between the material stacking slope and the bottom horizontal plane at rest.

#### 3.3

Rated load safeworkingload

The medium bulk container is approved for the determined maximum load.

#### 3.4

Safety factor safetyfactor

The final quotient of the load determined in the periodic lifting test divided by the rated load.