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

GB/T 45702-2025

**Packaging - Transport packaging for dangerous goods - Test
methods**

包装 危险货物运输包装 试验方法

(English Translation)

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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 for standardization documents" Drafting.

This document is modified to adopt ISO 16495:2022 "Test methods for transport packages of dangerous goods".

Compared with ISO 16495:2022, this document has many structural adjustments. The structural number comparison between the two documents is shown in the attached Record A.

This document has many technical differences compared to ISO 16495:2022.

These technical differences and their reasons are shown in Appendix B.

The following editorial changes were made to this document.

- Added the note to 4.3.2 to explain the definition of the angle of repose;
- Corrected "The volume of the above sample containing liquid should be determined according to 4.4.3." in 4.4.1 to "The sample containing liquid should be determined according to Determine the capacity according to 4.4.2";
- Added explanation of the formula in 4.4.2.2. "The filling rate of packaging, intermediate bulk containers and inner packaging should be at least full capacity" 98% of the total. ";
- Deleted the original text 4.4.3. "The capacity of packaging, intermediate bulk containers and inner packaging for liquid contents shall be determined according to 4.4.2.1. Sure.";
- Rewrote the content of Chapter 5;
- Deleted Notes 1 and 2 in 6.1;
- Deleted "This document and the United Nations "Recommendations on the Transport of Dangerous Goods Model Regulations" in 6.3 value and minimum value, tolerance is a one-way selection. ";
- Deleted the original 6.5 and the examples in Chapter 7 of this document;
- Rewrote the contents of Appendix C;
- Deleted the web link for recording measurement data files in Appendix D;
- Added the notes in Appendix D to explain the meaning of the numbers in the table;
- Added Notes 1 to 5 to Tables D.1 to D.3 in Appendix D;

- Added the notes in Appendix E to explain the meaning of the numbers in the table;
- Added Notes 1 to 5 of Table E.1 in Appendix E;
- Added the notes in Appendix F to explain the meaning of the numbers in the table;
- Added Notes 1 to 5 of Table F.1 in Appendix F;
- Rewrote the two notes in G.3.3 and added them to the text;
- Deleted the note "Newton as the unit of force" in J.3.2 and J.3.3 in Appendix J;
- Added the notes to UN2814, UN2900 and UN3373 in Appendix K.1, and adjusted the word order of this paragraph;
- Corrected the applicable scope of Appendix L.1 to medium bulk containers and large packaging, and reworded;
- Deleted the note of R.1. "Note. Applicable to the design types of intermediate bulk containers manufactured after January 1, 2011.";
- Deleted "A copy of the test report shall be available for submission to the competent authority" in S.11 of Appendix S. Note 1. The competent authority may specify that the test

Note 2: The competent authority may require reference to relevant regulations.

Some contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents.

1 Scope

This document specifies the selection and preparation of test samples, test methods, test equipment and test reports for dangerous goods transport packaging.

This document applies to dangerous goods transport packaging, including intermediate bulk containers and large packagings.

NOTE 1 This document is used in conjunction with one or more international regulations listed in the references.

Note 2: Dangerous goods transport packages in this document also include packages for infectious substances of Division 6.2 of the United Nations dangerous goods classification.

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 4857.1 Basic tests for packaging and transport packages Part 1: Methods for marking various parts during testing (GB/T 4857.1-2019,ISO 2206:1987,MOD) GB/T 4857.3 Basic tests for packaging and transport packages Part 3: Static load stacking test method (GB/T 4857.3-2008,ISO 2234:2000,IDT) 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 4857.5-1992 Drop test method for packaging and transport packages (ISO 2248:1985, IDT) GB/T 4857.9-2008 Basic tests for packaging and transport packages Part 9: Spray test method (ISO 2875:2000, IDT) GB/T 27025-2019 General requirements for the competence of testing and calibration laboratories (ISO/IEC 17025:2017, IDT) GB/T 37425 Flexible intermediate bulk containers for packaging non-dangerous goods (GB/T 37425-2019, ISO 21898:2004, MOD)

3 Terms and definitions

The following terms and definitions apply to this document.

brimfulcapacity

The maximum volume of water filled when the dangerous goods transport package is in a normal filling state and is filled from the designed filling hole to overflow Value in litres.

[Source. GB/T 19161-2016, 3.2, modified] 3.2 Rated capacity nominalcapacity Packagings with similar full capacities (3.1) are expressed by convention in litres.