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

**GB/T 5338-2002**

Replacing GB/T 5338-2002

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**Series 1 freight containers - Specification and testing - Part 1:  
General cargo containers for general purposes  
(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 the first part of GB/T 5338 "Series 1 Container Technical Requirements and Test Methods": GB/T 5338 has been published the following sections:

- Part 1: General container;
- Part 2: Insulated containers;
- Part 4: Unpressurized dry bulk containers;
- Part 5: Platform and bench-mounted containers:

This document replaces GB/T 5338-2002 "Series 1 Container Technical Requirements and Test Methods Part 1: General Containers", and Compared with GB/T 5338-2002, except for structural adjustment and editorial changes, the main technical changes are as follows:

- a) The container type code has been changed (see Table 1, Table 1 of GB/T 5338-2002 edition);

- b) Changed the container type classification, added 1EEE and 1EE container types and their corresponding requirements (see 4.3, 5.2:1, 5.3, 5.7, 5.8, 6.2, 4.3, 5.2, 5.3, 5.7, 5.8, 6.2 of GB/T 5338-2002 edition);
- c) Changed the width of the load transfer area from 250mm to 375mm [see 5.3:2a), GB/T 5338-2002 edition 5.3:2.1];
- d) Added the requirements and diagrams for the concave space of the middle bottom corner fittings of 45ft containers (see Figure 1);
- e) Delete the description of the optional structural gooseneck (see 5.8:2 and Appendix D of GB/T 5338-2002 edition);
- f) An optional structural cargo bar slot has been added (see 5.8:3 and Appendix D);
- g) The stacking test force values of box types 1A, 1AA, 1AAA, 1AX, 1B, 1BB, 1BBB, 1BX, 1C, 1CC and 1CX have been changed (See Table 3, Table 3 of GB/T 5338-2002 edition);
- h) Changed the strength test force value of the bottom plate from 5460kg to 7260kg (see 6.9:2, GB/T 5338-2002 edition 6.9:2);
- i) Added Test 12 Barrier Groove Test (see 6.13);
- j) Deleted the description of the specific requirements of the load transfer area (see Appendix B of GB/T 5338-2002 edition):

This document is equivalent to ISO 1496-1:2013 "Series 1 Container Technical Requirements and Test Methods Part 1: General Collection Boxing":

The following minimal editorial changes have been made to this document:

--- Incorporates the content of ISO 1496-1:2013/Amd1:2016:

--- Corrected the following errors:

- Changed the width of the load transfer zone from 250mm to 375mm according to Figure B:1 of ISO 668:2020 [see 5.3:2a)];
- Deleted the requirement of "working according to 5.8:2" [see 5.3:2c)];
- A schematic diagram of the safety handle seat of the door lock lever of the container is added (see Figure 2);
- Deleted the last sentence of "the container should be kept for 5 minutes and then put back on the ground" in the test 12 bar groove test (see 6.13:2 of ISO 1496-1:2013);
- Changed the "For the fixed cargo device installed along the length direction on the bottom plane of the box, the force should be applied laterally", ISO 1496-1:2013 Wrongly written "longitudinal force" (see C:3:1):

Please note that some contents of this document may refer to patents: The issuing agency

of this document assumes no responsibility for identifying patents:

## Introduction

Series 1 containers, as international standard containers, are circulated around the world, and the normativeness and standardization of their design, production, and inspection are crucial:

important: In order to standardize and promote the development of series 1 container transportation, ISO has formulated ISO 1496 "Series 1 container technical requirements and test in order to provide technical support for the development of my country's container industry:

GB/T 5338 "Technical Requirements and Test Methods for Series 1 Containers" is intended to guide and standardize the design and production of Series 1 containers:

Production, inspection and transportation, consists of five parts:

--- Part 1: General container: The purpose is to specify the technical requirements and test methods for series 1 general cargo containers:

--- Part 2: Insulated containers: The purpose is to specify the technical requirements and test methods for series 1 insulated containers:

--- Part 3: Liquid, gas and pressurized dry bulk tank containers: The purpose is to specify series 1 liquid, gas and pressurized dry powder Technical requirements and test methods for tank containers:

--- Part 4: Unpressurized dry bulk containers: The purpose is to specify the technical requirements and tests for series 1 non-pressurized dry bulk containers method:

--- Part 5: Platform and bench-mounted containers: The purpose is to specify the technical requirements and test requirements for series 1 platform and platform containers:

test method:

## 1 Series, container technical requirements and test methods

### Part 1: General Purpose Containers

#### 1 Scope

##### 1.1

This document specifies ISO series 1 for all closed general-purpose containers and certain special-purpose containers (closed, ventilated, or Open top) basic technical requirements and test methods: These containers are suitable for international circulation, as well as road, rail and sea transport, including in Intermodal transport between these modes of transport:

## 1.2

The container types applicable to this document are listed in Table 1:

Table 1 Container Type

code box group code

G General purpose container GP without ventilation V Universal container VH with ventilation U open top box UT B Unpressurized dry bulk container, box type BU S container SN named after the cargo this document does not include requirements for venting and ventilation:

## 1.3

ISO 6346 stipulates the requirements for relevant markings:

## 2 Normative references

The contents of the following documents constitute the essential provisions of this document through normative references in the text: Among them, dated references for documents, only the version corresponding to the date is applicable to this document; for undated reference documents, the latest version (including all amendments) is applicable to this document:

**Note:** GB/T 1413-2023 Series 1 Container Classification, Dimensions and Rated Mass (ISO 668:2020, IDT) Note: GB/T 1992-2023 container terms (ISO 830:1999, MOD) mediate fittings-Specifications) Note: GB/T 1835-2006 Series 1 Container corner fittings (ISO 1161:1984, MOD) Note: GB/T 1836-2017 Container Code, Identification and Marking (ISO 6346:1995, IDT)

## 3 Terms and Definitions

The terms and definitions defined in ISO 830 apply to this document: