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

GB/T 5338.4-2023

Replacing GB/T 17274-1998

**Series 1 freight containers - Specification and testing - Part 4:
Non-pressurized containers for dry bulk**

系列1集装箱 技术要求和试验方法 第4部分：无压干散货集装箱

(English Translation)

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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 is Part 4 of GB/T 5338 "Technical Requirements and Test Methods for Series 1 Containers": GB/T 5338 has been released the following sections are included:

---Part 1: General containers;

---Part 2: Insulated containers;

---Part 4: Unpressurized dry bulk containers;

---Part 5: Platform and rack containers:

This document replaces GB/T 17274-1998 "Series 1: Technical Requirements and Test Methods for Unpressurized Dry Bulk Containers" and is consistent with Compared with GB/T 17274-1998, in addition to structural adjustments and editorial changes, the main technical changes are as follows:

- a) The container type and code are changed (see Table 1, Table 1 of GB/T 17274-1998);
- b) Changed the minimum internal dimensions (see 4.2, 4:2 of GB/T 17274-1998);
- c) Added content related to 1EEE, 1EE, and 1CCC model containers (see 4.2, 5:2:1, 5:8:3,

5:10:2, 6:2, 6:3, 6:4, 6:5, 6:6, 6:12, 6:18, Table 3 and Table A:1, 4:2, 5:2:1, 5:8:3, 5:10:2, 6:2, 6:3, 6:4, 6:5 of GB/T 17274-1998 6:6, 6:12, 6:18, Table 3 and Table A:1);

d) Added technical contents such as 1EEE and 1EE box bottom structure, intermediate corner pieces, door switch, etc: (see 5:3:5, 5:8:2);

e) Change "funnel" to "scoop" (see 5:7, 6:14 and 6:15, 5:7, 6:14 and 6:15 of GB/T 17274-1998);

f) The classification of "container model" has been changed, and 1EEE, 1EE, and 1CCC models have been added (see Table 2, GB/T 17274-1998

Table 2);

g) Changed the requirements for the setting of fork slots and added empty box fork slots (see 5.10:1:1, 5:10:1:1 of GB/T 17274-1998);

h) The installation and test requirements for wall-grabbing or similar devices are deleted (see 5.10:2 and 6:13 of GB/T 17274-1998);

i) The test content has been changed, and the technical requirements and test methods for 45ft containers have been added (see Chapter 6, GB/T 17274-1998 Chapter 6);

j) The content of the fork lift test has been changed, and the situation when setting the empty box fork slot has been added (see 6.12:2:2, GB/T 17274-1998 6:12:2:2);

k) Changed all strength test diagrams and related test data and added related diagrams of 1EEE and 1EE box container types, at the same time, the schematic diagrams of A11, A12, A13, and A14 regarding fastening have been deleted (see Appendix A, GB/T 17274-1998 Appendix A);

l) Deleted the specific requirements for the load transfer area of the container bottom structure (see Appendix B of GB/T 17274-1998);

m) Changed the empty box fork slot dimensions of the container, adding 1EEE, 1EE, 1AAA, 1AA, 1A, 1AX, 1BBB, 1BB, 1B and 1BX type container empty container fork groove dimensions (see Appendix C, Appendix C of GB/T 17274-1998);

n) Delete the size requirements for the grab groove (when there is a grab groove) (see Appendix D of GB/T 17274-1998);

o) The dimensions of the gooseneck slot (when equipped with a gooseneck slot) are deleted (see Appendix E of GB/T 17274-1998);

This document is modified to adopt ISO 1496-4:1991 "Series 1 Container Technical Requirements and Test Methods Part 4: Unpressurized Dry Bulk Cargoes" container":

The technical differences between this document and ISO 1496-4:1991 and their reasons are as follows:

- The contents of Table 1 have been changed and the corresponding contents have been updated according to GB/T 1836-2017 (see Table 1);
- Replaced ISO 6346 (see Table 1, 5:1:2) with the normatively quoted GB/T 1836 to adapt to my country's technical requirements;
- Replaced ISO 830 (see Chapter 3) with the normatively quoted GB/T 1992 to adapt to my country's technical requirements;
- Replaced ISO 668:2020 (see 4.1, 4:3, 5:3:2, 5:10:2, 6:1:6) with normatively cited GB/T 1413-2023, to Adapt to my country's technical requirements;
- The technical content of the minimum internal dimensions has been changed, because ISO 1496-1:2013 and ISO 668:2020 have added 1EEE, 1EE, 1CCC type container and dimensions (see 4.2);
- Added 1EEE, 1EE, and 1CCC type containers due to ISO 668:2020 adding 1EEE, 1EE, and 1CCC type containers (see 4.2, 5:2:1, 5:8:3, 5:10:2, 6:2, 6:3, 6:4, 6:5, 6:6, 6:12 and 6:18);
- Changed the content of rated quality, in accordance with ISO 668:2020 (see 4.3);
- Replaced ISO 1161 (see 5.1:3, 5:2:1, 6:1:6, 6:2:2) with normatively cited GB/T 1835 to adapt to our country's technology Require;
- Added 1EEE, 1EE, 1CCC container bottom structure, middle corner pieces, door switches and other technical contents, mainly based on the latest requirements of GB/T 1836 and ISO 1496-1 (see 5.3:6, 5:8:2);
- Changed the setting requirements for slots, according to ISO 1496-1:2013 (see 5.10:1:1);
- Deleted the setting and test requirements for wall-grabbing or similar devices, and adjusted the corresponding bar serial number and test according to ISO 1496-1:2013 serial number;
- Added technical requirements and test methods for 45ft containers because ISO 668:2020 has added 45ft containers (see Chapter 6);
- Changed all strength test diagrams and related test data in Appendix A and added related diagrams for 1EEE and 1EE containers Figure, while deleting the schematic diagrams of A11, A12, A13, and A14, according to ISO 1496-1:2013 (see Appendix A);
- Deleted Appendix B, Appendix D, and Appendix E of ISO 1496-4:1991, according to ISO 1496-1:2013;
- Increased the empty box fork slot dimensions of 1EEE, 1EE, 1AAA, 1AA, 1A, 1AX, 1BBB, 1BB, 1B and 1BX containers, According to ISO 1496-1:2013 (see Appendix C, Appendix C of ISO 1496-4:1991);

---Added 1EEE and 1EE container loading port location diagram, according to ISO 1496-1:2013 (see Appendix B, ISO 1496-4:

Appendix F of:1991):

The following editorial changes have been made to this document:

---Incorporated ISO 1496:1991/Amd1:1994 Amendment 1 and ISO 1496:1991/Cor1:2006 Technical Corrigendum 1 Content, the outer margin of the terms involved is marked with a vertical double line (|);

---Deleted some notes of ISO 1496-4:1991;

--- Considering that there should be no requirement clauses in the scope, adjust 1:4 of ISO 1496-4:1991 to 5:1:2:

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Introduction

Series 1 containers are international standard containers that are circulated around the world: The standardization 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 "Technical Requirements and Tests for Series 1 Containers":

"Test Methods" series of standards, my country has carried out corresponding international standard transformation work 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, production and production of Series 1 containers:

Production, inspection and transportation, consisting of five parts:

---Part 1: General containers: 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 liquids, gases and pressurized dry powders Technical requirements and test methods for cargo tank containers:

---Part 4: Unpressurized dry bulk containers: The purpose is to specify the technical