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

GB/T 17382-2023

Replacing GB/T 17382-2008

Series 1 freight containers - Handling and securing

系列1集装箱 装卸和栓固

(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 replaces GB/T 17382-2008 "Series 1 Container Handling and Fastening": Compared with GB/T 17382-2008, except for the in addition to structural adjustments and editorial changes, the main technical changes are as follows:

- a) Changed the scope of application (see Chapter 1, Chapter 1 of the:2008 edition);
- b) Change the term "eccentricity of the center of gravity" to "excursion of the center of gravity" and "moving center of gravity" to "dynamic center of gravity" (see 3.1:3, 3:1:4, 3:3 and 3:4 of the:2008 edition), changed the definition of the term "fastening device" (see

3.1:5, 3:5 of the:2008 edition), and added the following Related terms and definitions of locks, stacking connectors, and tie rods (see 3.2~3:4);

c) Changed the operating instructions for cargo stacking and fastening (see 4.3,:2008 version of 4:3);

d) Delete the schematic diagram of cargo load distribution in the box (see Figure 1 of the:2008 version);

e) Added EEE and EE box-type spreader top lifting operations, sling top lifting operations, bottom lifting sling operations, side lifting operations, and end lifting operations the scope of application for operations and fork lifting operations (see Table 3~Table 5, Table 7~Table 12);

f) Changed the instructions for deck grid guide posts, container transport ships, various types of bolting, lashing and handling devices, as well as bolting and lashing Figures (see Figures 18 to 21, Figures 19 to 22 of the:2008 version);

g) The functions, dimensions, strength requirements and test methods of fastening devices such as fully automatic twist locks, automatic container locks and intermediate locks are added (see A:2:3~A:2:5, A:3:4, A:5, A:6, A:9, A:10:4, A:10:5);

h) The terms and definitions of "double-head twist lock" and "bolting hook" are deleted (see A:2:8 and D:2:3 of the:2008 edition);

i) Delete the function, size, strength requirements and test methods of latches (see Appendix B of the:2008 version);

j) The strength requirements and test methods of container bolting and stacking devices have been changed (see B:5, B:6, C:6 and C:7 of the:2008 edition);

k) The strength requirements and test methods of container bolting tie rod systems have been changed (see C:4~C:6, D:5~D:7 of the:2008 edition);

l) Added container fastening device (see Appendix D);

m) Added strength requirements for container fastening devices (see Appendix E):

This document is equivalent to ISO 3874:2017 "Series 1 Container Handling and Bolting":

This document has made the following minimal editorial changes:

---Deleted notes in some terms;

---Added footnotes for unit conversion;

---Added footnotes to the ISO 668 version description;

---The errata for the dimensions of 1CC/1C/1CX type containers in Table F:5 has been changed from "9058" to "6058":

Please note that some content in this document may be subject to patents: The publisher of this document assumes no responsibility for identifying patents:

1 Series, container handling and bolting

1 Scope

This document specifies the basic requirements for loading, unloading and bolting of Series 1 containers, loading and unloading, specified lifting (lifting) methods, landing and support, and site Requirements for fastening during stacking and transportation:

This document applies to Series 1 containers, heavy and empty, produced and inspected in accordance with ISO 1496 (all parts):

2 Normative reference documents

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

mensions and ratings)

Note: GB/T 1413-2023 Series 1 Container Classification, Dimensions and Rated Mass (ISO 668:2020, IDT) Note: GB/T 1992-2023 Container Terminology (ISO 830:1999, MOD) Note: GB/T 1835-2023 Series 1 technical requirements for container corner fittings (ISO 1161:2016, MOD) cation and testing) Note: GB/T 5338.1-2023 Series 1 Container Technical Requirements and Test Methods Part 1: General Containers (ISO 1496-1:2013, IDT);

GB/T 5338.2-2023 Series 1 Container Technical Requirements and Test Methods Part 2: Insulated Containers (ISO 1496-2:2018, IDT);

GB/T 5338.4-2023 Series 1 Technical requirements and test methods for containers Part 4: Unpressurized dry bulk containers (ISO 1496-4:1991, MOD);

GB/T 5338.5-2023 Series 1 Container Technical Requirements and Test Methods Part 5: Platform and Rack Containers (ISO 1496-5:

2018, IDT);

GB/T 16563-2017 Series 1 Technical requirements and test methods for containers Part 3: Tank containers (ISO 1496-3:1995, IDT):

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3 Terms and definitions

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

3.1

General

3.1.1

emptycontainer

A container that contains only its own status: