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

GB/T 35549-2017

**Technical specification for the bulk transportation of
non-pressurized dry bulk containers**

无压干散货集装箱散货运输技术规范

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009. This standard by the National Container Standardization Technical Committee (SAC/TC6) and focal point. This standard was drafted. Ministry of Transportation Water Transport Research Institute, Zhengzhou Zhong Liang Food Machinery Co., Ltd., China Railway Iron Container Logistics Co., Ltd. Limited, China International Marine Containers (Group) Co., Ltd., China Classification Society, Henan University of Technology. The main drafters of this standard. Liji Chun, Liu Jianping, Li Ning, Wang Yali, Zhao Jieting, Wang Jing, Shi Likun, Chen Shaopeng, Zhang North, Cao Xianzhou, Sun Kejia, Cao Wensheng. Non-pressurized dry bulk container shipping technical specifications

1 Scope

China's national technical specification for shipping dry bulk in non-pressurized bulk containers. These are the containers that carry granular and powdered cargo - grain, plastic pellets, minerals, sugar - loaded through hatches in the roof and discharged by tipping or by gravity through the door end. They exist because the alternative for such cargo is either bagging it, which adds handling and packaging cost, or shipping it in a bulk carrier, which only works between ports with the right terminals. A container carries bulk into the intermodal system, so a shipment can go from an inland loading point to an inland customer without ever being bagged or transhipped. Non-pressurized means it is discharged by gravity or tipping rather than by fluidising the cargo with compressed air, which is the arrangement used for cement and similar powders. The specification covers what the container must be capable of and how the cargo is loaded, secured and discharged safely, since a tipping container full of grain is a substantial mass moving.

This standard specifies the pressure-free bulk cargo container bulk cargo handling operations, transport operations and health requirements. This standard applies to GB/T 17274 pressureless dry bulk containers of solid dry bulk (except dangerous goods) of the roads, railways, Water transport and multimodal transport.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version applies to this article Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 1413 Series 1 container classification, size and rated quality

GB/T 1836 container code, identification and marking

GB/T 1992 container terminology

GB 11602 container port handling operations safety regulations

GB/T 12418 steel general container repair technical requirements

GB/T 17274 Series 1. Pressureless dry bulk container technical requirements and test methods

GB/T 17382 Series 1 container handling and bolting

3 Terms and definitions

GB/T 1992, GB/T 17274 defined and the following terms and definitions apply to this document.

3.1 Non-pressurized dry bulk containers non-pressurized dry bulk container For the transport of dry solid bulk cargo, and can withstand the unpackaged solid dry bulk cargo due to loading and unloading of goods and transport activities The resulting load, with loading and unloading mouth and related accessories container.

3.2 Bulk transport bulk cargo transportation Box package or without any package, the direct use of transport means of transport of bulk shipping methods.

3.3 Solid dry bulk cargo dry bulk solids In contact with each other, can flow solid particles or powdery cargo.

3.4 Loading port openings for cargo loading An opening provided in the box for loading solid dry bulk.

3.5 Unloading port openings for cargo discharging An opening provided in the cabinet for unloading solid dry bulk goods.