



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

GB/T 45318-2025

Polyethylene terephthalate (PET) beer bottles

聚对苯二甲酸乙二醇酯（PET）啤酒瓶

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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 specifies the technical requirements related to quality. For food safety requirements, please refer to relevant laws, regulations, policies and food safety standards. document. Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents. This document is proposed and coordinated by the China National Institute of Standardization. This document was drafted by: Hebei Product Quality Supervision and Inspection Institute, China National Institute of Standardization, Nanjing Customs Dangerous Goods and Packaging Testing Center, China Resources Snow Beer (China) Co., Ltd., Henan Product Quality Inspection Technology Research Institute, Dalian Product Quality Inspection and Testing Research Institute Institute Co., Ltd., Chengdu Product Quality Inspection Institute Co., Ltd., AMETEK Trading (Shanghai) Co., Ltd., Guangzhou Biaoji Packaging Equipment Co., Ltd., Hebei Hongjiefeng Packaging Technology Co., Ltd. The main drafters of this document are. Liu Jinpeng, Duan Min, Li Qiang, Liu Bo, Liu Puzhen, Shao Chenjie, Liu Linlin, Zhang Yufang, Zhang Yanbo, Zhang Xiaofei, Zhu Xiaojian, Shao Dehua, Wang Dongliang, Si Cun, Sui Jie, Ma Jun, He Zhiyong, Wu Xueling, Li Zhi, Yu Tengfei. Polyethylene terephthalate (PET) beer bottle

1 Scope

GB/T 45318-2025 is the Chinese standard for PET beer bottles. Beer is the hardest thing to put in a plastic bottle: it needs a barrier against oxygen coming in and against carbon dioxide going out, it is pasteurised in the container, and it has a shelf life measured in months, none of which an ordinary PET water bottle has to survive. That is why beer in PET has its own standard rather than falling under the general packaging one. The document sets the classification, the requirements on the material and on the barrier construction, the dimensional requirements, the appearance, the physical and mechanical requirements

including burst pressure, drop resistance, thermal stability and stress cracking resistance, the barrier performance and the shelf life related requirements, the hygiene requirements for contact with the beverage, the test methods, the inspection rules and the marking, packaging, transport and storage. For a brewer, a bottle maker or a preform supplier in China, this is the acceptance text.

2 Normative references

The contents of the following documents constitute 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 2410 Determination of light transmittance and haze of transparent plastics

GB/T 2828.1-2012 Sampling procedures for inspection by attributes Part

GB/T 2918 Standard environment for conditioning and testing of plastic specimens

GB/T 10792 Carbonated beverages (soft drinks)

GB/T 16288 Marking of plastic products

GB/T 31354 Test method for oxygen permeability of packages and containers - Coulometric method

3 Terms and definitions

The following terms and definitions apply to this document.

3.1 PET beer bottle PET beer bottle PET bottles for filling beer.

3.2 filpoint The point at a certain distance from the bottle mouth plane to the designed liquid level.

4 Product Categories

The products are divided into colorless bottles and colored bottles according to the bottle color.