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

GB/T 45451.2-2025

Packaging - Plastics drums - Part 2: Non-removable head (tight head) drums with a nominal capacity of 208.2 L to 220 L

包装 塑料桶 第2部分：公称容量为208.2L至220L的不可拆盖（闭口）桶
(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 Part 2 of GB/T 45451 "Plastic Drums for Packaging". GB/T 45451 has been published in the following parts.

--- Part 1: Removable cover (opening) drums with a nominal capacity of 113.6L to 220L;

--- Part 2: Non-detachable (closed) drums with a nominal capacity of 208.2 L to 220 L.

This document is modified to adopt ISO 20848-2:2006 "Plastic drums for packaging - Part 2: Plastic drums with a nominal capacity of 208.2L to 220L" Removable lid (closed) bucket".

This document has the following structural adjustments compared to ISO 20848-2:2006.

--- Added the second paragraph of Chapter 1 to define the scope of application of the document;

--- Appendix B corresponds to Appendix C of ISO 20848-2:2006;

--- Appendix C corresponds to Appendix B of ISO 20848-2:2006.

The technical differences between this document and ISO 20848-2:2006 and the reasons

are as follows.

--- Changed the unit of the empty barrel mass m_1 and the filled barrel mass m_2 in Appendix A from "gram" to "kilogram" because the capacity of the plastic barrel the value is in liters, which is changed to facilitate the conversion of measurement results.

The following editorial changes were also made to this document.

--- Changed the description of the first paragraph of Chapter 1, changing "features and dimensions" to "requirements and markings";

--- Deleted the relevant data in USgal in Table 1;

--- Deleted Note 3 in Table 1;

--- Deleted the requirements for the height of the closure in the description of the reference number in Figure 1;

--- Deleted the note of Figure 1;

--- Added marking rules for plastic barrels in Chapter 5;

--- Changed the subscripts of m_1 and m_2 in C.3 and C.4. m_1 and m_2 in C.3 were changed to m_3 and m_4 , and m_1 and m_2 changed to m_5 and m_6 ;

--- Changed the reference list, using the currently valid standard ISO 16495:2022 to replace the obsolete standard ISO 16104.

Introduction

As an excellent packaging medium, plastic barrels are widely used around the world. To standardize the common parameters of plastic barrels, it is conducive to the safe filling, handling and transportation of plastic barrels in countries around the world.

GB/T 45451 "Plastic Drums for Packaging" specifies the characteristic dimensions, markings, etc. of plastic drums and their closure systems.

Partial composition.

--- Part 1: Removable lid (open) drums with a nominal capacity of 113.6L to 220L. The purpose is to standardize the removable lid (open) drums Requirements and markings.

--- Part 2: Non-removable (closed) barrels with a nominal capacity of 208.2L to 220L. The purpose is to standardize non-removable (closed) barrels with a nominal capacity of 208.2L to 220L.

Bucket requirements and marking.

--- Part 3: Plug closure systems for plastic drums with a nominal capacity of 113.6L to 220L. The purpose is to standardize the closure system requirements.

If plastic drums are intended to be used to transport dangerous goods, they must comply with the regulatory requirements of relevant countries for the transportation of these goods. GB/T 45451 "Packaging Plastic Drums" does not involve hazardous packaging requirements.

Plastic packaging drums Part 2: Nominal capacity 208.2L to 220L non-detachable lid (closed) barrels

1 Scope

This document specifies the requirements and mark.

This document applies to non-removable (closed) plastic drums with a nominal capacity of 208.2L to 220L.

2 Normative references

The contents of the following documents constitute the 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.

ISO 20848-3 Packaging Plastic drums Part 3: Plug closure systems for plastic drums with a nominal capacity of 113.6 L to 220 L

3 Terms and definitions

The following terms and definitions apply to this document.

A cylindrical package with flat or convex ends and an injection port and a discharge port on the top with a diameter not exceeding 70 mm.

Nominal capacity; NC the capacity value marked on the container (in litres).

brimfulcapacity;BC

The volume of water contained in the bucket (in liters) when water is poured through the water filling hole until it overflows.

Note: For the measurement method of full capacity, see Appendix A.

Total capacity total capacity; TC the value (in liters) of water contained in the bucket when it is completely filled with water, that is, after all the air in the bucket has been removed.

Note: For the test method of total capacity, see Appendix A.

Total heightoverallheight h0 the height of the finished barrel from the bottom to the highest

point.