

ICS 55.080



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

GB/T 45850.1-2025

Packaging sacks - Conditioning for testing - Part 1: Paper sacks

包装袋 试验条件 第1部分：纸袋

(English Translation)

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Foreword

This document was drafted in accordance with the provisions of GB/T 1.1-2020

Directives for standardization - Part 1.Rules for the structure and drafting of
standardizing documents.

This document is Part 1 of GB/T 45850 Packaging sacks - Conditioning for testing.

GB/T 45850 has been published in the following parts.

-- Part 1.Paper sacks.

This document is modified in relation to ISO 6599-1.1983 Packaging - Sacks -
Conditioning for testing - Part 1.Paper sacks.

This document has a number of structural adjustments compared to ISO 6599-1.1983.

A table comparing the structural numbers between the two documents is given in
Appendix A.

The technical differences between this document and ISO 6599-1.1983 and their
reasons are as follows.

-- The requirements for "digital thermometers and hygrometers, mechanical
thermometers and hygrometers, electric ventilation psychrometers or
mechanical ventilation psychrometers and other measuring instruments" have

been added (see 6.2) to meet the needs of technological progress and development.

The following editorial changes have been made to this document.

-- To coordinate with the existing standard, the name of the standard is changed to "Packaging sacks - Conditioning for testing - Part 1. Paper sacks";

-- The introductory notes on paper testing have been deleted, and the scope and application fields have been merged (see Chapter 1; see Chapter 1 and Chapter

2 of ISO 6599-1.1983);

-- The explanatory descriptions referring to ISO 187 and ISO 544 have been deleted (see the Note to Chapter 6 and Note 1 to Chapter 8 of ISO 6599-1.1983);

-- The example of "for example with calibrated wet and dry bulb thermometers" has been deleted (see 7.1 of ISO 6599-1.1983);

-- The description of a further period for moisture equilibration for the paper sack has been deleted (see Note 2 to Chapter 8 of ISO 6599-1.1983);

Packaging sacks - Conditioning for testing - Part 1. Paper sacks

1 Scope

This document describes the complete empty paper sack pre-test and in-test conditioning environment and sample conditioning methods.

This document applies to all types of empty paper sacks specified in GB/T 17858.1.

2 Normative references

The contents of the following documents constitute essential provisions of this document through normative references in this text. For any dated reference, only the version corresponding to that date applies to this document. For any undated reference, the latest version (including all amendments) applies to this document.

GB/T 17858.1 Packaging Sacks - Vocabulary and types - Part 1. Paper sacks (GB/T 17858.1-2008, ISO 6590-1.1983, MOD)

3 Terms and definitions

The following terms and definitions apply to this document.

3.1 relative humidity

R.H.

The ratio of absolute humidity to saturation humidity in air at the same temperature and pressure.

NOTE: It is usually expressed as a percentage. At room temperature, it is approximately equal to the

ratio of the actual vapor pressure to the saturated vapor pressure at the same (dry bulb) temperature.

3.2 conditioning

The process of achieving temperature and moisture content equilibrium between empty paper sacks and an environment with specified temperature and relative humidity.

4 Principle

The empty paper sack is exposed to a specified conditioning environment so that the empty paper sack reaches a state of temperature and moisture content equilibrium with the environment.

5 Conditioning environment

Table 1 shows the appropriate conditioning environment. Unless otherwise specified in the relevant specifications or test methods, or otherwise agreed upon between the relevant parties, the 23/50 environmental conditions shall be used.

6.1 Laboratory and measuring instruments

Conditioning laboratories shall be equipped with automated equipment that can regulate the air to standard temperature and relative humidity conditions and circulate the air to ensure consistent environmental conditions at all relevant points within the laboratory. It is recommended that recording temperature and humidity measuring instruments be retained within the test space to check environmental conditions and

calibrated regularly according to standard methods.

6.2 Determination of temperature and relative humidity

The temperature and relative humidity of the conditioning air shall be measured by reliable methods.

When measuring instruments (such as digital thermometers and hygrometers, mechanical thermometers and hygrometers, and electric ventilation psychrometers or mechanical ventilation psychrometers) are used, the accuracy of the instruments shall be able to meet the measurement requirements.

If a wet and dry bulb hygrometer is used, it shall be placed in an airflow with the wind speed required by the parameter table, and the wind speed shall not be less than 2 m/s.

At the same temperature, the difference between the readings of two thermometers in

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