International Standard 6599/1

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Packaging — Sacks — Conditioning for testing — Part 1 : Paper sacks

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Foreword

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Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 6599/1 was developed by Technical Committee ISO/TC 122, *Packaging*, and was circulated to the member bodies in February 1982.

It has been approved by the member bodies of the following countries :

Australia	India	South Africa, Rep. of
Austria	Ireland	Spain
Brazil	Israel	Sweden
Canada	Italy	Switzerland
Denmark	Japan	Turkey
Egypt, Arab Rep. of	Malaysia	United Kingdom
Finland	Netherlands	USA
France	Poland	USSR
Germany, F. R.	Romania	Yugoslavia

No member body expressed disapproval of the document.

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Packaging — Sacks — Conditioning for testing — Part 1 : Paper sacks

0 Introduction

The physical properties of paper are affected materially by its moisture content, which is dependent on the humidity and temperature of the surrounding atmosphere. In order that tests may be made on a paper sack in a defined physical state, it is brought into equilibrium with an atmosphere of standardized temperature and relative humidity, and tested in that atmosphere.

1 Scope

This part of ISO 6599 specifies the conditioning atmospheres and the method for conditioning samples of intact, empty paper sacks before and during testing.

If only conventional paper tests are to be carried out on the material of a sack, samples of this material shall be cut out and conditioned as specified in ISO 187.

2 Field of application

This part of ISO 6599 applies to all types of empty paper sacks as specified in ISO 6590/1.

3 References

ISO 187, *Paper and board — Conditioning of samples.*

ISO 554, *Standard atmospheres for conditioning and/or testing — Specifications.*

ISO 6590/1, *Packaging — Sacks — Vocabulary and types — Part 1 : Paper sacks.*[1)]

4 Principle

Exposure of empty sacks to a conditioning atmosphere so that a state of temperature and moisture content equilibrium is reached between the sacks and this atmosphere.

5 Definitions

For the purposes of this International Standard, the following definitions apply.

5.1 relative humidity (R.H.) : The ratio of the absolute humidity of the air to the humidity of air saturated with water vapour at the same temperature and pressure.

NOTE — This ratio is usually expressed as a percentage. At ordinary atmospheric temperatures, this ratio is almost exactly equal to the ratio of the actual vapour pressure to the saturation vapour pressure at the same (dry bulb) temperature.

5.2 conditioning : The establishment of a temperature and moisture content equilibrium between empty sacks and an atmosphere of specified temperature and relative humidity.

6 Conditioning atmospheres

The table indicates suitable conditioning atmospheres.

Unless otherwise stated in the relevant specifications or test methods, or agreed between the interested parties, atmosphere 23/50 shall be used.

NOTE — The temperature and relative humidity conditions are those specified in ISO 187 and ISO 554. The tolerances quoted are the reduced or close tolerances specified in ISO 554.

Table

Designation	Temperature °C	Relative humidity %	Remarks
23/50	23 ± 1	50 ± 2	Preferred atmosphere
27/65	27 ± 1	65 ± 2	Where made necessary by climatic conditions at the test location
20/65	20 ± 1	65 ± 2	—

1) At present at the stage of draft.