



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

GB/T 6529-2008

Replacing GB 6529-1986

Textiles - Standard atmospheres for conditioning and testing

纺织品 调湿和试验用标准大气

(English Translation)

Issued on: June 18, 2008

Implemented on: March 1, 2009

**Issued by: General Administration of Quality Supervision, Inspection and
Quarantine of the People's Republic of China and the Standardization
Administration of China**

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Foreword

This document was issued on 18 June 2008 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China and the Standardization Administration of China, and has applied since 1 March 2009.

It replaces GB 6529-1986.

It is a GB/T standard: recommended rather than compulsory, but it is the text a Chinese reviewer, customer or inspection body applies.

1 Scope

This standard specifies the characteristics and use of a standard atmosphere for conditioning, for determining the physical and mechanical properties of textiles and a standard alternative atmosphere that maybe used if agreed between parties.

2 Terms and Definitions

For the purpose of this document, the following terms and definitions apply.

2.1

Standard atmosphere

Environment of controlled relative humidity and temperature in which textiles are conditioned and tested.

2.2

Relative humidity

Ratio, expressed as a percentage, of the actual pressure of the water vapour in the atmosphere to the saturation vapour pressure at the same temperature and at the same pressure.

2.3

Tolerance

Difference between the upper and lower tolerance limits.

2.4

Tolerance zone

Variate values of the characteristics between and including the tolerance limits.

2.5

Tolerance limits

Specified values of the characteristic giving upper and/or lower bounds of the permissible value.

2.6

Uncertainty of measurement

Parameter, associated with the result of measurement, that characterizes the dispersion of the values that could reasonably be attributed to the measurand.

2.7

Resolution(of displaying device)

Smallest difference between indications of displaying that can be meaningfully distinguished.

2.8

Rapid conditioning

A conditioning method to reach an identical counterbalance effect to textile in standard atmosphere and make the speed faster obviously than that in standard atmosphere.

3.1 Standard atmosphere

Standard atmospheres shall have a temperature of 20.0°C and a relative humidity of 65.0%.

3.2 Standard alternative atmosphere

The alternative atmosphere may be used only if the parties involved agree on its use.

3.2.1 Standard specific atmosphere

Standard specific atmosphere shall have a temperature of 23.0°C and a relative humidity of 50.0%.

3.2.2 Standard tropical atmosphere

For tropical zone, standard atmosphere shall have a temperature of 27.0°C and a relative humidity of 65.0%.

3.3 Tolerance zone for the standard atmosphere and for the standard alternative atmosphere

The tolerance for temperature is $\pm 2.0^{\circ}\text{C}$ and the tolerance for relative humidity is $\pm 4.0\%$.

Note: For control of standard atmospheres, see Annex A.