
Textiles — Standard atmospheres for conditioning and testing

Textiles — Atmosphères normales de conditionnement et d'essai



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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 139 was prepared by Technical Committee ISO/TC 38, *Textiles*, Subcommittee SC 24, *Conditioning atmospheres and physical tests for textile fabrics*.

This second edition cancels and replaces the first edition (ISO 139:1973), which has been technically revised, specifically by including the allowances for the uncertainty of the measurement in the overall tolerances for temperature and relative humidity.

Introduction

The tolerances for temperature and relative humidity given in ISO 139:1973 were the tolerances for the temperature and relative humidity measured in the laboratory, and without any consideration for the uncertainty of measurement of the measuring devices being used.

With the increased understanding since 1973 and the existence now of standards covering these issues (e.g. ISO 14253-1), it is now necessary to allow for the uncertainty of measurement when setting appropriate tolerances.

This second edition of ISO 139 includes the allowance for uncertainty of measurement in the overall tolerances for temperature and relative humidity.

This means that although the tolerances for temperature and relative humidity appear more lenient than in ISO 139:1973, in practice, the laboratory must still be controlled (measured temperature and humidity) to essentially the same level as stated in ISO 139:1973.

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Textiles — Standard atmospheres for conditioning and testing

1 Scope

This International Standard defines 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 may be used if agreed between parties.

2 Terms and definitions

For the purposes 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

[ISO 3534-2]

2.4

tolerance zone

variate values of the characteristics between and including the tolerance limits

[ISO 3534-2]

2.5

tolerance limits

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

[ISO 3534-2]

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

NOTE Modified from VIM.

2.7

resolution (of displaying device)

smallest difference between indications of displaying that can be meaningfully distinguished

NOTE Modified from VIM.