

SLOVENSKI STANDARD SIST EN 20139:1999

01-marec-1999

Tekstilije - Standardna atmosfera za kondicioniranje in preskušanje

Textiles - Standard atmospheres for conditioning and testing (ISO 139:1973)

Textilien - Normalklimate für die Probenvorbereitung und Prüfung (ISO 139:1973)

Textiles - Atmospheres normales de conditionnement et d'essai (ISO 139:1973)

Ta slovenski standard je istoveten z: EN 20139:1992

SIST EN 20139:1999

https://standards.iteh.ai/catalog/standards/sist/499343c6-0dc0-4b63-b81b-bdcdc868309e/sist-en-20139-1999

ICS:

59.080.01 Tekstilije na splošno Textiles in general

SIST EN 20139:1999 en

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EUROPEAN STANDARD

EN 20139:1992

NORME EUROPÉENNE

EUROPÄISCHE NORM

August 1992

UDC 677.074/077:677.01:620.193.21

Descriptors:

Textiles, textile conditioning, standard atmosphere, specimen, preparation, testing conditions

English version

Textiles - Standard atmospheres for conditioning and testing (ISO 139:1973)

Textiles - Atmosphères normales de DARD PRE Textilien - Normalklimate für die conditionnement et d'essai (ISO 139:1973) ADARD PRE Probenvorbereitung und Prüfung (ISO 139:1973) (Standards.iteh.ai)

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This European Standard was approved by CEN on 1992-08-10. CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

 $\label{thm:concerning} \begin{picture}(200,0) \put(0,0){\line(1,0){100}} \put(0,0){\line(1,0){100}$

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CEN

European Committee for Standardization Comité Européen de Normalisation Europäisches Komitee für Normung

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

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Page 2 EN 20139:1992

Foreword

This European Standard has been taken over by CEN/TC 248 "Textiles and textile products" from the work of ISO/TC 38 "Textiles" of the International Organization for Standardization (ISO).

The document was submitted to the CEN members to the Unique Acceptance Procedure and was approved without any modification.

In the countries bound to implement this European Standard a national standard identical to this European Standard shall be published at the latest by 1993-02 and conflicting national standards shall be withdrawn at the latest by 1993-02.

Following the CEN/CENELEC Common Rules, the following countries are bound to implement this European Standard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, United Kingdom.

Endorsement notice

iTeh STANDARD PREVIEW

The content of this European Standard is identical with that of the International Standard ISO 139 "Textiles - Standard atmospheres for conditioning and testing" published in 1973. Although this standard includes two standard atmospheres, for use in CEN countries, only the standard atmosphere of 65% relative humidity, 20°C, is applicable. bdcdc868309e/sist-en-20139-1999



INTERNATIONAL STANDARD



139

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION •МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ •ORGANISATION INTERNATIONALE DE NORMALISATION

Textiles — Standard atmospheres for conditioning and testing

First edition – 1973-09-15Teh STANDARD PREVIEW (standards.iteh.ai)

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139-1973 (

FOREWORD

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO Member Bodies). The work of developing International Standards is carried out through ISO Technical Committees. Every Member Body interested in a subject for which a Technical Committee has been set up 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.

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.

Prior to 1972, the results of the work of the Technical Committees were published as ISO Recommendations; these documents are now in the process of being transformed into International Standards. As part of this process, International Standard ISO 139 replaces ISO Recommendation R 139-1967 drawn up by Technical Committee ISO/TC 38, Textiles.

SIST EN 20139:1999

The Member Bodies of the following countries approved the followin

Australia New Zealand Germany Austria Greece Norway Belgium Hungary Pakistan Poland Bulgaria India Burma Ireland Romania Chile Spain Israel Czechoslovakia Sweden Italy Denmark Japan Switzerland Finland Mexico United Kingdom France Netherlands U.S.S.R.

No Member Body expressed disapproval of the Recommendation.

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Textiles — Standard atmospheres for conditioning and testing

1 SCOPE AND FIELD OF APPLICATION

This International Standard defines the characteristics and use of standard atmospheres for conditioning and for determining the physical and mechanical properties of textiles.

2 BASIC DEFINITIONS

- 2.1 relative humidity: The ratio of the actual pressure of the water vapour in the atmosphere to the saturation vapour pressure at the same temperature. The ratio is usually expressed as a percentage.
- 2.2 standard temperate atmosphere: An atmosphere S which has a relative humidity of 65 % and a temperature of 20 °C.
- 2.2.1 standard temperate atmosphere for testing: An atmosphere which has a relative humidity of 65 ± 2 % and a temperature of 20 ± 2 °C.
- 2.3 standard tropical atmosphere : An atmosphere which has a relative humidity of 65 % and a temperature of 27 $^{\circ}$ C.
- 2.3.1 standard tropical atmosphere for testing: An atmosphere which has a relative humidity of $65 \pm 2 \%$ and a temperature of $27 \pm 2 \degree C$.

NOTE — The adjectives "temperate" and "tropical" as used in this International Standard have been chosen for the limited use of the textile industry.

3 PRE-CONDITIONING

Before conditioning a textile, pre-conditioning may be required. If so, the textile shall be brought approximately

to equilibrium in an atmosphere having a relative humidity of between 10 and 25 % and a temperature not exceeding 50 $^{\circ}$ C.

These conditions may be obtained by heating air at 65 % relative humidity and 20 $^{\circ}$ C (the standard temperate atmosphere) to a temperature of 50 $^{\circ}$ C, or by heating air at 65 % relative humidity and 27 $^{\circ}$ C (the standard tropical atmosphere) to a temperature up to 50 $^{\circ}$ C.

4 CONDITIONING

Before a textile is tested to determine a physical or mechanical property, it shall be conditioned by placing it in the standard temperate atmosphere for testing, in such a way that the air flows freely through the textile, and keeping it there for the time required to bring it into equilibrium with the atmosphere.

Unless otherwise specified in the method of test, the textile should be considered to be in equilibrium when successive weighings, at intervals of 2 h, of the textile materials freely exposed to the moving air show no progressive change in mass greater than 0.25 %.

In tropical or sub-tropical countries, the standard tropical atmosphere for testing may be used.

5 TESTING

Except for special cases (for example wet tests), physical and mechanical tests of textiles are carried out in the conditioned state in the standard temperate atmosphere for testing. In tropical and sub-tropical countries, however, the standard tropical atmosphere for testing may be used.