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Irish Standard
I.S. EN ISO 15496:2004

Textiles - Measurement of water vapour permeability of textiles for the purpose of quality control (ISO 15496:2004)

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NORME EUROPÉENNE

EUROPÄISCHE NORM

EN ISO 15496:2004/AC

April 2006
Avril 2006
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Version Française
Deutsche Fassung

Textiles - Measurement of water vapour permeability of textiles for the purpose of quality control (ISO 15496:2004/Cor.1:2006)

Textiles - Mesurage de la perméabilité à la vapeur d'eau des textiles dans le but du contrôle qualité (ISO 15496:2004/Cor.1:2006)

Textilien - Messung der Wasserdampfdurchlässigkeit von Textilien als Qualitätskontrolle (ISO 15496:2004/Cor.1:2006)

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Ce corrigendum prendra effet le 12 avril 2006 pour incorporation dans les trois versions linguistiques officielles de la EN.

Die Berichtigung tritt am 12.April 2006 zur Einarbeitung in die drei offiziellen Sprachfassungen der EN in Kraft.

EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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Deutsche Fassung

Anerkennungsnotiz

Der Text von ISO 15496:2004/Cor.1:2006 wurde vom CEN als EN ISO 15496:2004/AC:2006 ohne irgendeine Abänderung genehmigt.

Seite 4, Abscnitt 8

Die Berechnung (3) ist durch die folgende zu ersetzen:

$$WVP = \left(\frac{a \times \Delta p \times \Delta t}{\Delta m} - \frac{1}{WVP_{app}} \right)^{-1}$$

Seite 9, Anhang B

Die erste Berechnung ist durch die folgende zu ersetzen:

$$p_{sb} = 133{,}3 \times 10 \exp\{-[2919{,}611/(T_b + 273) - 4{,}79518 \times \lg(T_b + 273) + 23{,}03733]\}$$

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I.S. EN ISO 15496:2004
INTERNATIONAL STANDARD ISO 15496:2004
TECHNICAL CORRIGENDUM 1

Published 2006-02-01

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Textiles — Measurement of water vapour permeability of textiles for the purpose of quality control

TECHNICAL CORRIGENDUM 1

Textiles — Mesurage de la perméabilité à la vapeur d'eau des textiles dans le but du contrôle qualité

RECTIFICATIF TECHNIQUE 1

Technical Corrigendum 1 to ISO 15496:2004 was prepared by Technical Committee ISO/TC 38, *Textiles*, Subcommittee SC 2, *Cleansing, finishing and water resistance tests.*

Page 4, Clause 8

Replace Equation (3) with the following equation:

$$WVP = \left(\frac{a \times \Delta p \times \Delta t}{\Delta m} - \frac{1}{WVP_{\text{app}}} \right)^{-1} \tag{3}$$

Page 9, Annex B

Replace the first equation with the following equation:

$$p_{\text{sb}} = 133{,}3 \times 10 \exp\left\{ -\left[2\,919{,}611/\left(T_{\text{b}} + 273\right) - 4{,}795\,18 \times \lg\left(T_{\text{b}} + 273\right) + 23{,}037\,33 \right] \right\}$$

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN ISO 15496

May 2004

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English version

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Ref. No. EN ISO 15496:2004: E

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Foreword

This document (EN ISO 15496:2004) has been prepared by Technical Committee ISO/TC 38 "Textiles" in collaboration with Technical Committee CEN/TC 248 "Textiles and textile products", the secretariat of which is held by BSI.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by November 2004, and conflicting national standards shall be withdrawn at the latest by November 2004.

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I.S. EN ISO 15496:2004

INTERNATIONAL STANDARD

ISO 15496

First edition
2004-05-01

Textiles — Measurement of water vapour permeability of textiles for the purpose of quality control

Textiles — Mesurage de la perméabilité à la vapeur d'eau des textiles dans le but du contrôle qualité

Reference number
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ISO 15496 was prepared by Technical Committee ISO/TC 38, *Textiles*, Subcommittee SC 2, *Cleansing, finishing and water resistance tests*.

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Textiles — Measurement of water vapour permeability of textiles for the purpose of quality control

1 Scope

This International Standard describes a comparatively simple method for testing the water vapour permeability of textiles that will provide the manufacturer with a clearly recognized method for quality control within the plant.

The simple test method described in this International Standard is not applicable for classifying the water vapour resistance of textiles against values relating to physiological effects specified in product standards, and particularly not those relating to personal protective equipment.

2 Terms and definitions

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

3.1
water vapour permeability
WVP
characteristic of a textile material describing the amount of water vapour diffusing through the textile per square metre, per hour and per unit difference of water vapour pressure across the textile

3 Symbols and units

Symbol	Description	Unit
a	Area of the measuring cup opening	m^2
Δt	Measuring time	h
Δm	Change in mass of the measuring cup during the period Δt	g
Δm_{app}	Change in mass of the measuring cup on the specimen holder with only membrane during the period Δt	g
Δp	Partial water vapour pressure difference across the specimen	Pa
p_{sa}	Saturated water vapour pressure at the test room temperature T_a	Pa
p_{sb}	Saturated water vapour pressure at the water bath temperature T_b	Pa
RH	Relative humidity in equilibrium with saturated potassium acetate solution	%
T_a	Temperature in the test room	°C
T_b	Temperature of the water bath	°C
WVP	Water vapour permeability of the specimen	$g/m^2 \cdot Pa \cdot h$
WVP_{app}	Apparatus water vapour permeability	$g/m^2 \cdot Pa \cdot h$

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