
Tekstilije - Brisače in frotir - Specifikacije in metode preskušanja

Textiles - Terry towels and terry towel fabrics - Specification and methods of test

Textilien - Frottierhandtücher und Frottiergewebe - Anforderungen und Prüfverfahren

Textiles - Serviettes éponges et tissus éponges - Spécifications et méthodes d'essai

Ta slovenski standard je istoveten z: EN 14697:2005

[SIST EN 14697:2005](https://standards.iteh.ai/catalog/standards/sist/4bd63ed5-d995-4a25-b6ed-ce1c1e8fa2f9/sist-en-14697-2005)

<https://standards.iteh.ai/catalog/standards/sist/4bd63ed5-d995-4a25-b6ed-ce1c1e8fa2f9/sist-en-14697-2005>

ICS:

97.160

Tekstilije za dom. Perilo

Home textiles. Linen

SIST EN 14697:2005

en

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN 14697:2005

<https://standards.iteh.ai/catalog/standards/sist/4bd63ed5-d995-4a25-b6ed-ce1c1e8fa2f9/sist-en-14697-2005>

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 14697

May 2005

ICS 97.160

English version

**Textiles - Terry towels and terry towel fabrics - Specification and
methods of test**

Textiles - Serviettes éponges et tissus éponges -
Spécifications et méthodes d'essai

Textilien - Frottiertücher und Frottiertgewebe -
Anforderungen und Prüfverfahren

This European Standard was approved by CEN on 24 March 2005.

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. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

[SIST EN 14697:2005](https://standards.iteh.ai/catalog/standards/sist/4bd63ed5-d995-4a25-b6ed-ce1c1e8fa2f9/sist-en-14697-2005)

[https://standards.iteh.ai/catalog/standards/sist/4bd63ed5-d995-4a25-b6ed-
ce1c1e8fa2f9/sist-en-14697-2005](https://standards.iteh.ai/catalog/standards/sist/4bd63ed5-d995-4a25-b6ed-ce1c1e8fa2f9/sist-en-14697-2005)



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

Management Centre: rue de Stassart, 36 B-1050 Brussels

Contents	Page
Foreword	3
1 Scope	4
2 Normative references	4
3 Terms and definitions	5
4 Minimum requirements	5
5 Marking	10
Annex A (normative) Determination of the total mass	11
Annex B (normative) Determination of the time of absorption	12
Annex C (informative) Terry ratio or pile to ground ratio	13
Bibliography	14

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN 14697:2005

<https://standards.iteh.ai/catalog/standards/sist/4bd63ed5-d995-4a25-b6ed-ce1c1e8fa2f9/sist-en-14697-2005>

Foreword

This document (EN 14697:2005) has been prepared by 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 2005, and conflicting national standards shall be withdrawn at the latest by November 2005.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN 14697:2005

<https://standards.iteh.ai/catalog/standards/sist/4bd63ed5-d995-4a25-b6ed-ce1c1e8fa2f9/sist-en-14697-2005>

EN 14697:2005 (E)**1 Scope**

This document specifies minimum requirements for properties and test methods for the evaluation of new ready-made terry towels and to new terry fabrics, for contract and domestic use.

This document covers woven terry structures only.

This document does not cover towels used in the health care sector (see ENV 14237) or cabinet roller towels (see EN 13569).

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 1773, *Textiles - Fabrics - Determination of width and length*

EN 12127, *Textiles - Fabrics - Determination of mass per unit area using small samples*

EN 20139, *Textiles - Standard atmospheres for conditioning and testing (ISO 139:2005)*

EN 25077, *Textiles - Determination of dimensional change in washing and drying (ISO 5077:1984)*

EN ISO 105-B02, *Textiles - Tests for colour fastness - Part B02: Colour fastness to artificial light: Xenon arc fading lamp test (ISO105-B02:1994)*

EN ISO 105-C06, *Textiles - Tests for colour fastness - Part C06: Colour fastness to domestic and commercial laundering (ISO105-C06:1994)*

EN ISO 105-C09, *Textiles - Tests for colour fastness - Part C09: Colour fastness to domestic and commercial laundering - Oxidative bleach response using a non-phosphate reference detergent incorporating a low temperature bleach activator (ISO105-C09:2001)*

EN ISO 105-E01, *Textiles - Tests for colour fastness - Part E01: Colour fastness to water (ISO105-E01:1994)*

EN ISO 105-E03, *Textiles - Tests for colour fastness - Part E03: Colour fastness to chlorinated water (swimming-pool water) (ISO105-E03:1994)*

EN ISO 105-N01, *Textiles - Tests for colour fastness - Part N01: Colour fastness to bleaching: Hypochlorite*

EN ISO 105-N02, *Textiles - Tests for colour fastness - Part N02: Colour fastness to bleaching: Peroxide (ISO105-N02:1993)*

EN ISO 105-X12, *Textiles - Tests for colour fastness - Part X12: Colour fastness to rubbing (ISO105-X12:2001)*

EN ISO 3696, *Water for analytical laboratory use - Specification and test methods (ISO 3696:1987)*

EN ISO 6330, *Textiles - Domestic washing and drying procedures for textile testing (ISO 6330:2000)*

EN ISO 13934-1, *Textiles - Tensile properties of fabrics - Part 1: Determination of maximum force and elongation at maximum force using the strip method (ISO 13934-1:1999)*

EN ISO 13936-2, *Textiles - Determination of the slippage resistance of yarns at a seam in woven fabrics - Part 2: Fixed load method (ISO 13936-2:2004)*

EN ISO 13938-1, *Textiles - Bursting properties of fabrics - Part 1: Hydraulic method for determination of bursting strength and bursting distension (ISO 13938-1:1999)*

EN ISO 13938-2, *Textiles - Bursting properties of fabrics - Part 2: Pneumatic method for determination of bursting strength and bursting distension (ISO 13938-2:1999)*

ISO 3758, *Textiles - Care labelling code using symbols*

ISO 5351, *Pulps - Determination of limiting viscosity number in cupri-ethylenediamine (CED) solution*

ISO 7211-3, *Textiles - Woven fabrics - Construction - Methods of analysis - Part 3: Determination of crimp of yarn in fabric*

3 Terms and definitions

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

3.1

domestic use

use of terry towels or other items made from terry fabrics in private homes

3.2

contract use

uses other than domestic, e.g. in hotels, restaurants, schools, etc.

3.3

terry fabric (woven)

warp-pile fabric in which loops are created, without positive assistance, by varying the relative positions of the fell and the reed. A high tension is applied to the ground warp and a very low tension to the pile warp

<https://standards.iteh.ai/catalog/standards/sist/4bd63ed5-d995-4a25-b6ed-ce1c1e8fa2f9/sist-en-14697-2005>

3.4

total mass

mass of one ready-made terry towel (i.e. the average of five towels)

3.5

terry ratio

length of the pile yarn removed divided by the length of the sample (see ISO 7211-3)

4 Minimum requirements

4.1 General

All items shall be tested as received, i.e. new and not used or laundered, unless stated otherwise in this document.

4.2 Minimum requirements for terry towels and terry towel fabrics

When tested in accordance with the corresponding test methods, ready-made terry towels and terry towel fabrics shall meet the requirements specified in this document.

Requirements marked with “x” in the column “towels” apply to terry towels; requirements marked with “x” in the column “fabrics” apply to terry towel fabrics.

Table 1 contains the requirements for contract use, whereas Table 2 contains the requirements for domestic use.

Table 1 – Terry towels and terry towel fabrics for contract use – Minimum requirements and test methods

Property	Test method	Towels	Fabrics	Minimum requirement or maximum tolerance on specifications	Remarks
dimensions (length and width of towel)	EN 1773	X		Tolerances: $\pm 4\%$ on stated length and width (with a minimum of 10 mm)	Dimensions to be determined in the middle of the largest terry part, as the average of two measurements
dimensions (length and width of roll)	EN 1773		X	Tolerances: $\pm 4\%$ on total length and width	
dimensional stability	EN 25077	X	X	maximum allowed shrinkage(for each individual direction): - fabrics: 8 % (5 % if the fabric is used for bathrobes) - towels: 8 %	To be determined after one washing and drying cycle, in accordance with the manufacturer's care instructions
total mass	See Annex A	X		tolerance: $\pm 5\%$ on stated mass	
mass per unit area (of the terry part)	EN 12127		X	tolerance: $\pm 5\%$ of stated mass per unit area	To be determined on the homogeneous terry part
terry ratio (pile to ground ratio)	ISO 7211-3	X	X	Tolerance: $\pm 5\%$ on the stated terry ratio	See Annex C
colour fastness to light	EN ISO 105-B02 (method 2)	X	X	$\geq 3-4$ for white towels and fabrics ≥ 4 for other colours	
colour fastness to wet rubbing	EN ISO 105-X12	X	X	≥ 3 (before washing) ≥ 4 (after one washing and drying procedure)	
colour fastness to dry rubbing	EN ISO 105-X12	X	X	$\geq 3-4$ (before washing) ≥ 4 (after one washing and drying procedure)	

Table 1 (concluded)

colour fastness to water	EN ISO 105-E01	X	X	≥ 4	To be determined after 1 washing/drying cycle (use of multifibre adjacent fabric).
colour fastness to 60° C washing	EN ISO 105-C06 ¹ (method 2S)	X	X	≥ 4 (for colour change) ≥ 3/4 (for staining)	Use of multifibre adjacent fabric or adjacent cotton fabric
colour fastness to laundering – oxidative bleach response	EN ISO 105-C09	x	X	≥ 3-4	
colour fastness to chlorine (optional)	EN ISO 105-E03 (20 mg/l Cl)	X	X	≥ 3-4	Only to be determined if recommended for use in chlorine enriched water, e.g. in swimming pools
colour fastness to bleaching (optional)	EN ISO 105-N01 (chlorine) or EN ISO 105-N02 (peroxide)	X	X	≥ 4-5	Only to be determined if bleaching is recommended. Test method to be selected in function of the recommended bleaching agent
tensile strength	EN ISO 13934-1	X	X	≥ 300 N	
bursting strength (optional)	EN ISO 13938-1 or EN ISO 13938-2	X	X	≥ 600 kPa	Bursting strength may be used as an alternative to tensile strength - test area 10 cm ²
absorption time	See Annex B	X	X	≤ 15 s	
limiting viscosity number (dP) (optional)	ISO 5351	X	X	≥ 1 500	To be used only on ground yarns to evaluate damage caused by laundering
pile loop extraction	(optional)	X	X		See bibliography
seam slippage (optional)	EN ISO 13936-2 (with a load of 60 N)	X	X	< 6 mm	Only for fabrics used in the production of bathrobes

¹ EN ISO 105-C08 is a more recent method to evaluate colour fastness to washing and may be used instead of EN ISO 105-C06