

CHNICA





### **TECHNICAL BOOKLET VERSION 10**

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#### GINETEX

### GROUPEMENT INTERNATIONAL D'ETIQUETAGE POUR L'ENTRETIEN DES TEXTILES

# FOREWORD

The International Association for Textile Care Labelling, GINETEX (Groupement International d'Etiquetage pour l'Entretien des Textiles), which represents the textile producing and retailing industries and other interested organisations concerned in textile care in different countries has devised an internationally applicable care labelling system for textiles based on symbols or pictograms. The essential technical elements for its implementation are contained in these technical regulations.

 $\square \Box \Box \Box \Box$ 

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This document in English, Version 10, March 2024, is the reference for all existing translations.

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The care labelling system is intended to supply consumers and textile companies with correct information of the care treatment of textile products, so that the processes indicated on the label will avoid any irreversible damage of the product.

The purpose of the technical regulations is to facilitate the selection of the correct care labels by the textile and garments industries, or by retailers. The regulations also will help garment manufacturers in choosing the combination of components of a made-up article.

The following care treatments are covered by the GINETEX system: washing, bleaching, drying, ironing and professional textile care.

The application of care labels is voluntary unless compulsory by national law or regulation. If however care labels are applied, GINETEX decisions and technical regulations should be strictly observed. To minimise misunderstandings, care labelling should be applied uniformly throughout GINETEX member countries and beyond to other countries. By this is meant the number of symbols, the shape, the sequence and the places where labels are attached to made-up textiles. Furthermore the interpretation of the technical rules, the care treatment levels and the way these are indicated in the care symbols must also be regarded. All indications given refer to maximum severity of treatments the consumer can use without damaging the article. Underlabelling should be avoided.

The GINETEX five main symbols should be mentioned on the care label in the following order:

washing
bleaching
drying
ironing
professional text

Care instructions should be permanently and visibly indicated on textile articles, except in the case of very small articles, where the use of a label would be detrimental to the product, yarns, fabrics, etc. or for homemade goods.

ile care

#### 01.1 IMPLEMENTATION AND TRANSITION PERIODS

Each new version of the Technical Booklet is implemented by the GINETEX Governing Body. For adaptations and principal changes a transition period of two years applies starting from the date of the implementation by the GINETEX Governing Body given in the footer of each page. Exporters are asked to check the special requirements in the respective countries and label accordingly.



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Within the scope of these technical regulations the following definitions apply:

#### **TEXTILE ARTICLES**

Yarn, piece goods and made-up articles containing at least 80% by mass, textile materials, including any non-textile material present such as buttons, trims, fasteners, fixed leather and small fur parts.

#### SYMBOL

Design symbolising care treatments

#### TREATMENTS

#### WASHING

A process designed to clean textile articles in an aqueous bath. Washing includes some or all of the following operations in relevant combinations: soaking, pre-washing and main washing (carried out usually with heating, mechanical action and in the presence of detergents), rinsing and water extraction by spinning or wringing performed during and / or after the end of the previous processes. These operations may be totally or partially carried out by machine or by hand.

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#### **BLEACHING**

A process carried out in an aqueous medium before, during or after the washing process, requiring the use of an oxidising agent including either chlorine or oxygen / non chlorine products for the purpose of improving soil and stain removal and / or improving whiteness.

-----

#### **CHLORINE BLEACH**

An agent that releases hypochlorite ions in solution, e.g. sodium hypochlorite.

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#### **OXYGEN / NON-CHLORINE BLEACH**

An agent that releases a peroxygen species in solution. Oxygen bleach products encompass a wide range of different activated and non-activated bleaching species which vary in their activity. A bleach activator is an agent that initiates bleaching to occur in lower water temperatures.

#### DRYING

A process carried out on textiles articles after washing to remove residual water (or moisture).

#### **TUMBLE DRYING AFTER WASHING**

A process carried out on textile articles after washing and hydro-extracting, with the intention of removing residual water by treatment with hot air in rotating drum.

#### NATURAL DRYING AFTER WASHING

A process carried out on textile articles after washing, with the intention of removing residual water by line drying or drip drying or flat drying and if appropriate combined with drying in the shade.

#### **IRONING AND PRESSING**

A process carried out on the article to restore its shape and appearance by means of an appropriate appliance using heat, pressure and possibly steam.

#### **PROFESSIONAL TEXTILE CARE**

Professional dry cleaning and professional wet cleaning, excluding commercial laundering.

#### **PROFESSIONAL DRY CLEANING**

A process for cleaning textile articles by means of treatment in any solvents (excluding a treatment in water) normally used for dry cleaning by professionals. This process consists of cleaning, rinsing, spinning. It is followed by appropriate drying and restorative finishing procedures.

#### **PROFESSIONAL WET CLEANING**

A process for cleaning textile articles in water by professionals using special technology (cleaning, rinsing and spinning), detergents and additives to minimise adverse effects. It is followed by appropriate drying and restorative finishing procedures.



## DESCRIPTION OF THE SYMBOLS

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#### 03.1 MAIN SYMBOLS

The care labelling system is based on five main symbols with additional distinguishing descriptions, e.g. bars, dots, letters, ciphers, steam or the St. Andrew's cross to express recommendations for correct care treatments without the use of language.

#### SYMBOL

#### DESCRIPTION

This symbol gives information about the possibility and the kind of a domestic washing process by machine or by hand. The ciphers in the washing tub specify the maximum temperature in °C which must not be exceeded. A hand in the tub means that only a mild wash treatment by hand is possible. Note: be aware that the test method is a simulated hand wash program.



The triangle is an indication for a bleaching process.

This symbol specifies information on the possibility of domestic drying. The circle inside the square specifies the drying in a domestic tumble dryer. It is not meant for drying in commercial laundries or dry cleaning units. The dots within the circle in the square specify the temperature setting during drying. The line(s) inside the square symbolize natural drying after a washing process.



This symbol specifies ironing or pressing. The dots within it give the maximum ironing or pressing temperatures.

The circle gives information on the possibility of professional dry or wet cleaning. The letters within the circle specify the solvents that can be used.

The relative dimensions of the main pictograms are given in Figure 3.

#### **03.2** ADDITIONAL DESCRIPTIVES

In combination with these five main basic symbols, additional descriptives are used for a further description of the care treatment.

\_\_\_\_\_

Relative dimensions of symbols and the additional descriptives are laid down in Figure 3. Relative distances between the symbols are given in Figure 4. Combination of pictograms for symbols and labels are presented in Figure 5.

#### DESCRIPTIVES

#### DESCRIPTION



The bar underneath the wash tub characterises a milder treatment which may be achieved by a reduction of mechanical action, of washing time, by higher water levels, smaller loads, a cool down or combinations thereof and reduced spinning. The bar underneath the professional textile care symbol (professional dry and wet cleaning) indicates a milder care treatment with reduced mechanical action, lower moisture content of the solvent bath or a reduced cleaning and / or drying temperature or combinations thereof and spinning.



The double bar describes a very mild washing or cleaning cycle.



The number of dots indicates the severity as regards to temperature of the ironing and tumble drying treatment. They also give information about the possibility of steaming during ironing and pressing.



The diagonal cross (St. Andrew's cross) superimposed on any of the main symbols means that the treatment represented by it shall not be used.



The diagonal cross (St. Andrew's cross) superimposed on the steam, below the ironing main symbol, means that steam should not be used when ironing.

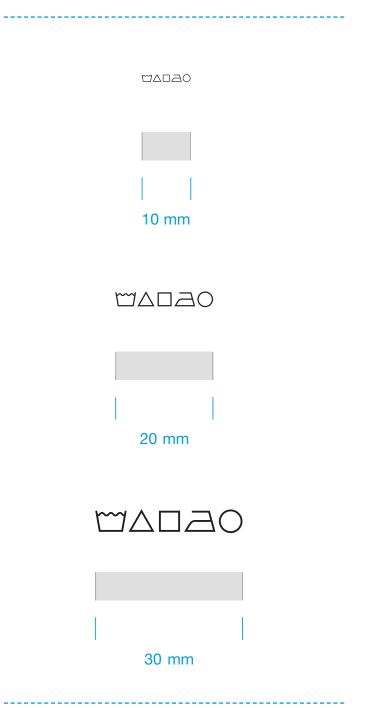


#### 03.3 MINIMAL SIZE OF SYMBOL LINE

The symbol line consists of the five main symbols in the given order of washing, bleaching, drying, ironing and professional textile care without specific contents. To ensure an appropriate recognition and legibility, the symbols should if possible not fall below the minimum width of 10 Millimeters.

Whenever possible, the symbols have to be used in a larger version. (Figure 1)

#### FIGURE 1 THE SYMBOL LINE AND ITS MINIMAL SIZE



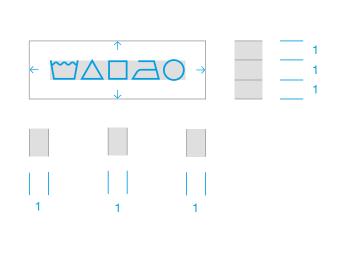
#### **03.4** PROTECTED INTERSPACES

For placements in connection with additional graphical elements, fonts, edges or pictures minimum protected interspaces are to be kept. Special attention is to be given to these interspaces as well as to a meaningful integration of the symbols in view of the respective media.

The height / width of the drying symbol defines the minimum interspaces around the symbol row. The height of the symbol defines the interspace above and under the symbol line, while the width defines the interspaces right and left of the symbol line. (Figure 2)

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#### FIGURE 2 THE SYMBOL AND ITS INTERSPACES





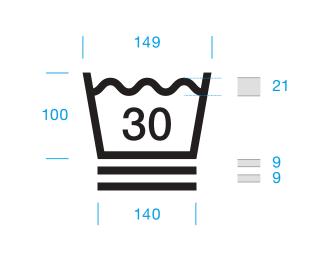
#### FIGURE 3 RELATIVE DIMENSION OF SYMBOLS



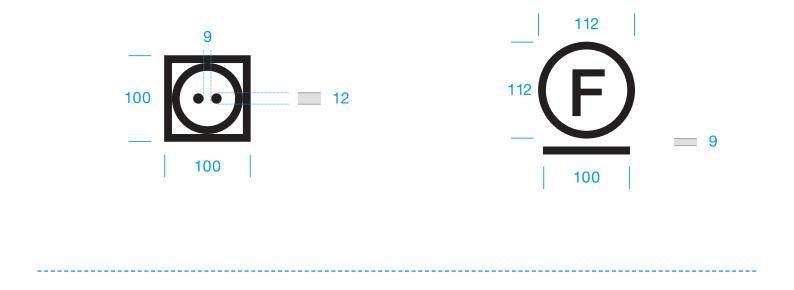
The logical structure of the symbols is based on a systematic and modular system, which simplifies the reconstruction and advancement. The fundamental proportions define themselves through height and width of the equilateral symbol 'drying' and correspond to 100 units. They determine the sizes which can be derived from it. Line strengths and interspaces as well as font sizes and their position are always subject to the same values. The St. Andrew's cross is placed vertical and horizontal centrically over the symbols.

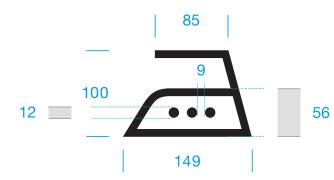
A cloud login for downloading the correct symbols for reproductions can be obtained through the secretariat **ginetex@ginetex.net** or your national member body.

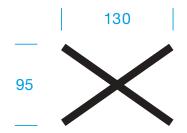
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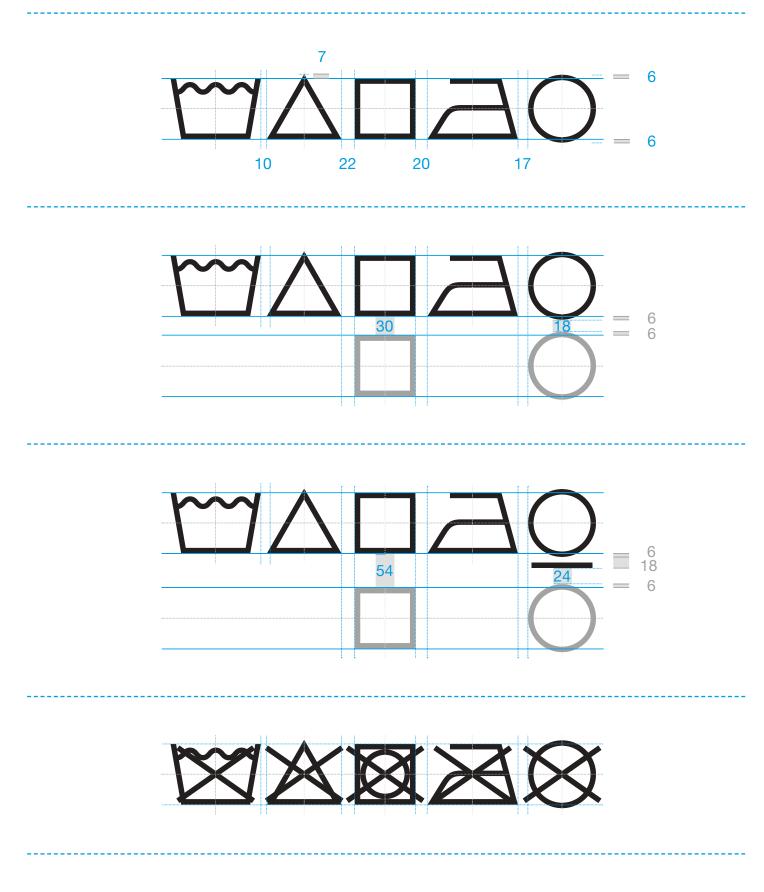


#### 03.6 RELATIVE DISTANCES BETWEEN THE SYMBOLS

The line of the care symbols consists of the five main symbols in the order of Washing, Bleaching, Drying, Ironing and Professional Cleaning having no specific denomination. To show this line as an entity, the vertical and horizontal distance of the single symbol is derived from the form, size and relation to the next symbol. Subsequently individual values result. Within the symbol categories, these values remain unchanged and are fixed sizes.

Within the modular system, different combinations of the five main care symbols with specific content are possible. Their position is given through a predefined concept of the dimensions (Figure 4)

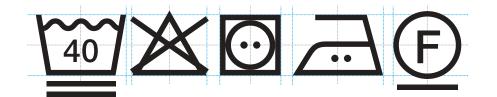
#### FIGURE 4 RELATIVE DISTANCES BETWEEN THE SYMBOLS

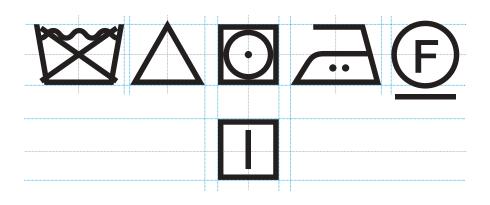


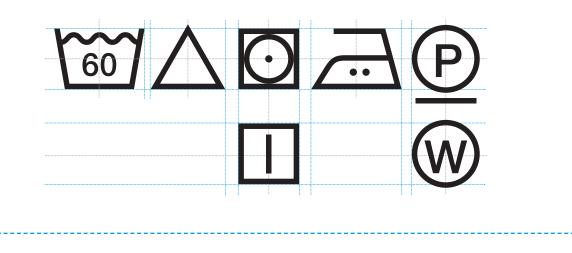
#### 03.7 COMBINATION OF PICTOGRAM FOR SYMBOLS AND LABELS

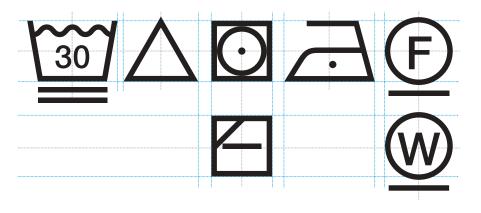
The registered GINETEX care symbols show as a rule 5 symbols in one line. Please make sure it corresponds with the national law of certain countries requiring a single line of six or seven symbols.

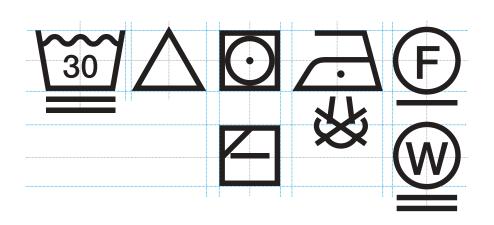
\_ \_ \_ \_















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#### 04.1 WASHING

60

40

40

40

30

30

30

#### **DESCRIPTION OF PROCESS SYMBOLS**

maximum temperature 60 °C

maximum temperature 40 °C

maximum temperature 40 °C

maximum temperature 40 °C

maximum temperature 30 °C

maximum temperature 30 °C

maximum temperature 30 °C

maximum temperature 40 °C

\_\_\_\_\_

mild process

normal process

mild process

very mild process

normal process

mild process

hand wash

very mild process

95	maximum temperature normal process	95	°C
60	maximum temperature normal process	60	°C

#### **ADDITIONAL SYMBOLS IN ISO 3758**

70

maximum temperature 70 °C normal process

50

maximum temperature 50 °C normal process

maximum temperature 50 °C mild process

\_\_\_\_\_

#### 04.2 BLEACHING

SYMBOLS

#### **DESCRIPTION OF TREATMENT**

any bleaching agent allowed



only oxygen non-chlorine bleach allowed



do not bleach



do not wash

\_\_\_\_\_

\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_

hand wash

ambient temperature \_\_\_\_\_

#### 04.3 DRYING

SYMBOLS	DESCRIPTION OF TREATMENT	SYMBOLS	DESCRIPTION OF PROCESS		
	TUMBLE DRYING		NATURAL DRYING IN THE SHADE		
$\overline{\bigcirc}$	tumble drying possible normal temperature exhaust temperature max. 80 °C	۲	line drying in the shade		
$\overline{\bigcirc}$	tumble drying possible low temperature exhaust temperature max. 60 °C	M	drip line drying in the shade		
$\boxtimes$	do not tumble dry	E	flat drying in the shade		
SYMBOLS	DESCRIPTION OF PROCESS	E	drip flat drying in the shade		
	NATURAL DRYING*				
	line drying				
	drip line drying				
	flat drying				
	drip flat drying				
	*With the exception of the sun (colour fastness rates), these treatments cause no irreversible damage. If tumble drying is forbidden, it might be possible to recommend natural drying.				

#### 04.4 IRONING AND PRESSING

### **DESCRIPTION OF PROCESS SYMBOLS** iron at a maximum sole plate temperature of 210 °C iron at a maximum sole plate temperature of 160 °C iron at a maximum sole plate temperature of 120 °C, Steam iron may cause irreversible damage \_\_\_\_\_ iron at a maximum sole plate temperature of 120°C without steam

do not iron

#### **SYMBOLS DESCRIPTION OF TREATMENT**

professional wet cleaning normal process



professional wet cleaning mild process

professional wet cleaning very mild process

do not wet clean

#### 04.5 PROFESSIONAL TEXTILE CARE

**SYMBOLS DESCRIPTION OF TREATMENT PROFESSIONAL DRY CLEANING** professional dry cleaning in tetrachloroethene, dibutoxymethane and all solvents listed for the symbol F, normal process professional dry cleaning in tetrachloroethene, dibutoxymethane and all solvents listed for the symbol F, mild process \_\_\_\_\_ professional dry cleaning in hydrocarbons (distillation temperature between 150 °C and 210 °C, flash point between 38 °C and 70 °C) and decamethylpentacyclosiloxane, normal process \_\_\_\_\_ professional dry cleaning in hydrocarbons (distillation temperature between 150 °C and 210 °C, flash point between 38 °C and 70 °C) and decamethylpentacyclosiloxane, mild process 04.5 PROFESSIONAL TEXTILE CARE do not dry clean \_\_\_\_\_ **ADDITIONAL SYMBOL** \_\_\_\_\_ **NOT COVERED IN ISO 3758** professional dry cleaning in \_\_\_\_\_ tetrachloroethene and all solvents listed for the symbol F, very mild process \_\_\_\_\_ \_\_\_\_\_





#### 05.1 PRINCIPLES

#### THE CARE LABEL

#### -----

Shall be made of suitable material with resistance to the washing and professional cleaning process indicated on the label.

----

Shall be of a material which is soft having no scratching edges.

-----

Shall show symbols large enough to be easy to read.

Shall be permanently affixed to the textile article in such a way not to irritate the skin.

-----

Shall be readable throughout the lifetime of the article.

----

Shall be easily located by the consumer and no part should be hidden (see also 05.3).

Shall not show through the article and spoil its appearance.

Other forms of information may be combined on the same label but clearly separated from each other. Garments consisting of easily separable parts shall be labelled on each of the parts. There shall be one single care label on an article even if the different components have to carry further information (for example fibre content).

#### **05.2** TESTING AND REQUIREMENTS

#### **05.2.1 INTRODUCTION**

The label shall remain legible throughout the normal lifetime of the article. It thus must be able to withstand at least the various washing, bleaching, tumble drying, ironing and dry and / or wet cleaning processes as indicated on the label, and in addition present a sufficient fastness to rubbing, daylight and other agents which may act upon it during normal use of the article on which it is applied.

The following tests and criteria are suggested as a guide for manufacturers to label, being understood that they represent minimum requirements and that resistance to the most severe conditions, regardless of actual symbols appearing on the label, is desirable whenever the material of the label should permit it.

#### 05.2.2 WASHABILITY REQUIREMENTS

The colour fastness test to washing is made according to ISO 105 – C06 and ISO 105 – C08, except that the test is carried out on one label stitched with its back to an undyed cotton backing cloth, size 10 cm x 4 cm. Should the label exceed 10 cm x 4 cm, it will be cut into appropriate size segments to be individually tested.

The method to be used for each symbol is laid down in table 2 of this GINETEX Technical Booklet. Change of colour of labels tested to the above tests should not be lower than grey scale number 4.

#### 05.2.3 BLEACHING TREATMENT

The colour fastness test to bleaching is made according to ISO 105 - N01, the oxygen / non-chlorine bleach according to ISO 105 - C09. Change of colour of labels tested to the above tests should not be lower than grey scale number 4.

#### 05.2.4 IRONING REQUIREMENTS

The colour fastness test to ironing is made according to ISO 105 - X11 at the temperature corresponding to the ironing symbol used on the label.

Change of colour of labels tested to the above tests should not be lower than grey scale number 4 for any of the three test conditions (dry, damp and wet) except in the case of a crossed washing symbol, when the wet procedure may be omitted.

#### 05.2.5 PROFESSIONAL TEXTILE CARE

The colour fastness test to dry cleaning is made according to ISO 105 - D01, using the solvents corresponding to the symbol appearing on the label, except that the test is carried out on one label stitched with its back to an undyed cotton backing cloth, size 10 cm x 4 cm. Should the label exceed 10 cm x 4 cm, it will be cut into appropriate size segments to be individually tested.

Please note the classification and tests of the new solvents: Dibutoxymethane (DBM) seems to correspond to the P-solvent and decamethylpentacyclosiloxane (D5) seems to correspond to the F-solvent. However, there is not yet published an international standard supporting these experimental results.

Change of colour of labels tested to the above tests should not be lower than grey scale number 4. Wet cleaning: Tests are made according to ISO 105 – C06, A1S.

#### 05.2.6 FASTNESS TO RUBBING

The colour fastness test to rubbing is made according to ISO 105 - D02 and ISO 105 - X12, except that the test is carried out on one label stitched to an undyed cotton backing cloth, size 20 cm x 5 cm. The dry and wet rubbing fastness should not be lower than grey scale number 4. These tests are only required when rubbing on the label may be expected.

#### 05.2.7 FASTNESS TO PERSPIRATION

Colour fastness to perspiration is tested according to ISO 105 – E04. Change of colour of labels tested to the above tests should not be lower than grey scale number 4 both in the alkaline and in the acid solution. These tests are only required when the action of perspiration on the label may be expected.

#### 05.3 POSITION OF LABELS ON CLOTHES AND TEXTILE ARTICLES

The objective of labelling is to inform the consumer on matters connected to the care of the article when buying and the commercial textile care industries when cleaning it. The labels shall be easily detectable and carefully and permanently affixed. The positioning of labels laid down in the table below is recommended for use whenever possible. Because of differences in production methods, materials and demands of fashion also an alternative place of positioning is given.

The label and its way of affixing shall be such that it does not weaken the qualities of the article nor cause the consumer any inconvenience when wearing the article.

To achieve a maximum of conformity, recommended positions – according to the EURATEX Directive - are laid down in table 1.

### TABLE 1 RECOMMENDED POSITIONS OF LABELS IN TEXTILE ARTICLES

ARTICLE	POSITIONING	ALTERNATIVE
coats, jackets, ladies' suit jackets	left side, at bust height	left front facing, left side seam,
		left breast pocket (inside)
men's jackets and suit jackets	left side, at bust height	left breast pocket (inside)
waistcoats, vests	front left side	top back middle
dresses, blouses	left side seam, above the hem	top back, middle
jumper-blouses, smocks	top back, middle	left side seam, above the hem
jeans, trousers	right back pocket or top back at waist level	jeans: in the fastening, top back middle
aprons	top back, middle	attachment point for right belt ribbon
overalls, professional wear	top back, middle	left side seam
skirts	top back (belt)	left side seam, above the hem
shirts	top back, middle (collar)	left side seam, above the hem
pullovers, sweaters, jumpers, t-shirts	left side seam, above the hem	top back, middle
baby linen, baby's wear	left side seam	left shoulder seam,
		baby's vest: top, outside the seam
children's wear	left side seam	top back, middle
sportswear and gym wear	top back, middle	left side seam
ski clothes, anoraks	top back, middle	reversible articles: in the left pocket
dressing gowns, bathrobes	top back, middle	left side seam
housecoats and robes		
pyjamas, night-dresses	top back, middle	left side seam, above the hem
		(except for trousers)
swimwear	left side seam, top	left side seam, above the hem

ARTICLE	POSITIONING	ALTERNATIVE
corsets, brassieres, bikini tops	back, left, bottom edge	left side seam
elasticised briefs, panties	top back, middle	left side seam
underwear, undershirts, underpants,	top back, middle	left side seam
briefs, strings, boxer-shorts		
waist slips	left side seam	top back, middle
tights, garters	left side seam	top back, middle
stockings, socks	printed on the package	thermoprint
ties	back	
stoles and scarves	in a corner	
gloves	in the left glove	
hats, caps	inside	
table-cloth, bed linen and linen	in a corner	
towels	hanging loop	
ready sewn curtains	pleating tape, top seam	
crocheting and knitting yarns	hang tag, package	
metric articles	separate label, on the package	

#### For the following articles labels can be printed on the package or tie-on labels can be used:

01	stockings, socks, sheers	09	ribbons	15	ties and bow ties for children
02	floorcloths	10	elastics	16	bibs, wash gloves
03	cleaning cloths	11	cordage and ropes intended		and face flannels
04	edgings and trimmings		for use in mountaineering or water sport	17	sewing, mending, and embroidery yarns
05	passementery	12	table mats		presented for retail sale
06	belts	13	handkerchiefs	10	in small quantities
07	braces	14	bun nets and hair nets	18	tape for curtains, blinds and shutters
<b>08</b>	suspenders and garters				



## USE OF SYMBOLS

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## For any given article the care information expressed by the symbols shall refer to all treatments laid down in the following order washing bleaching

ironing professional textile care

drying

showing the line of symbols.

Whenever possible the symbols should appear in a horizontal line. If more than one drying symbol or more than one professional textile care symbol is needed they shall be set in the order washing, bleaching, tumble drying, natural drying, ironing, professional dry cleaning and professional wet cleaning. The additional drying or professional cleaning symbol may be presented next to the respective main symbol or in a second line under it.

The treatments represented by the symbols apply to the whole of the textile article, unless otherwise specified.

Additional wordings\* may, as an exception, be used to prevent irreversible damage. List of additional wording: see informative Annex C of ISO 3758 or use the examples below.

## \*EXAMPLES OF ADDITIONAL WORDINGS:

wash separately \_\_\_\_\_ wash inside out \_ \_ \_ \_ \_ \_ \_ wash before use wash with like colours \_\_\_\_\_ no optical brighteners \_\_\_\_\_ do not add fabric conditioner \_ \_ \_ \_ \_ \_ \_ remove ... before washing \_\_\_\_\_ do not soak \_\_\_\_\_ do not wring or twist \_\_\_\_\_ iron wrong side only \_ \_ \_ \_ \_ \_ do not use steam \_ \_ \_ \_ \_ \_ \_ steam only \_\_\_\_ dry away from direct heat



#### 07.1 PRELIMINARY NOTE

Correct classifications of care labelling for an article depends on different characteristics which are assigned by the type of the article e.g. dye fastness, dimensional stability, restorability etc.

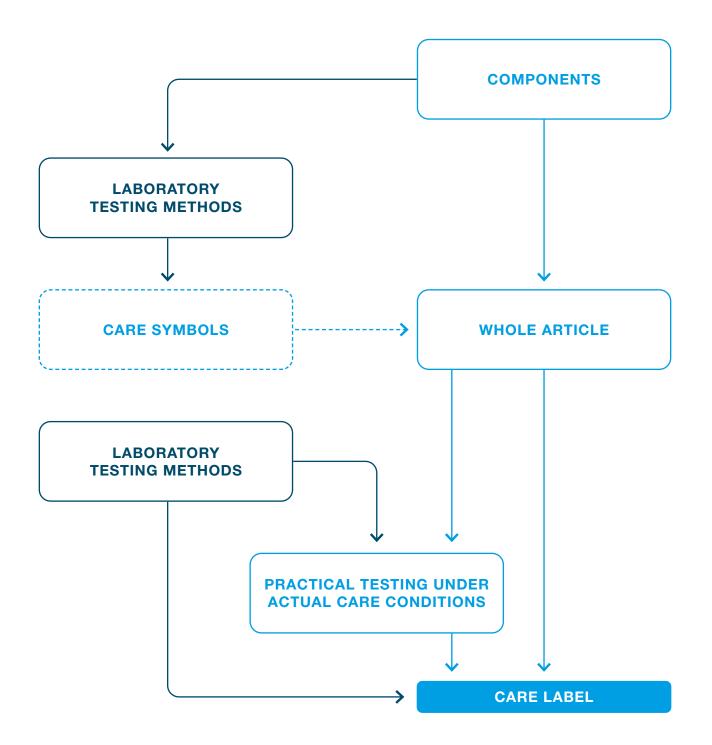
This Technical Booklet gives information on testing methods to facilitate a correct choice of care labels. Figure 6 gives a guideline how testing can be organised if there is any uncertainty concerning the correct label.

At present, except for fastness rates, no recommended pass / fail limits are quoted. In quite a lot of cases criteria (e.g. appearance) are qualitative and therefore cannot be easily specified numerically. for instance: \_ \_ \_ \_ \_ \_ dimensional stability \_\_\_\_\_ appearance of seams \_ \_ \_ \_ \_ \_ unravelling \_\_\_\_\_ separation of bonded and laminated fabrics \_ \_ \_ \_ \_ \_ pilling \_\_\_\_\_ fuzziness of velvets and synthetic furs \_ \_ \_ \_ \_ \_ retention of permanent creases \_\_\_\_\_ loss of shape \_\_\_\_\_ resistance of trimmings and accessories \_\_\_\_\_ permanence of finishes \_ \_ \_ \_ \_ \_ \_

There are further characteristics that might be important,

In any case restorability in processes following the procedure evaluated and / or normal consumer practice have to be taken into consideration.





07.2 WASHING

#### 07.2.1 COLOUR FASTNESS 07.2.1.1 INTRODUCTION

For testing colour fastness to washing ISO standards are to be used. GINETEX has laid down recommended minimum fastness rates for change of colour and for staining. These ratings should be considered as guidelines: When producing textiles consisting of different parts the interaction of said parts must be taken into account as well as any additional information given, such as 'wash separately'.

Where traditionally general acceptance for lower levels exists for certain articles (jeans, certain workwear, etc.), lower fastness rates may be accepted. In those cases, it should be ensured by an additional wording (see point 06) that the article should be washed separately or washed with like colours only. In other cases, such as for articles bearing contrasting dyes or prints, especially when deep shades are adjacent to whites, fastness rates may have to be higher in order to prevent damage by staining.

In cases of doubt or in order to settle disputes, the article should also be tested for appearance according to 07.2.2. This test can give final and conclusive information as to the fastness ratings of components which have to be specified in order to prevent unacceptable and irreversible changes in the appearance of an article.

#### 07.2.1.2 TEST METHODS AND RECOMMENDED MINIMUM FASTNESS RATES

General information on colour fastness testing is given in the following ISO standards:

ISO 105 – A01	General principle of testing
ISO 105 – A02	Grey scale for assessing the change in colour
ISO 105 – A03	Grey scale for assessing staining
ISO 105 – F01 to F07	Specification for standard single fibre adjacent

The actual ISO test methods for colour fastness and the GINETEX recommended minimum requirements are given in Table 2. Other tests that might be useful to evaluate possible dye transfer or fastness problems are:

ISO 105 – E01	Colour fastness to water especially in the case of acid dyes on wool, polyamides or silk
ISO 105 – X12	Colour fastness to rubbing especially in the case of pigment dyes and prints, and also in the case of insufficient penetration of dyes into the fabrics which might give washing problems.

The test fabrics to be used for testing dye transfer are: Multifiber fabric (US), Type DW for 40 °C, 50 °C and 60 °C using a realistic interpretation of the staining results according to normal practice in households and single fibre fabrics (cotton and polyester) for 95 °C.

### TABLE 2 ISO TEST METHODS AND RECOMMENDED MINIMUM FASTNESS RATES FOR WASHING

			M/FASTNESS RATES
SYMBOLS	DESCRIPTION OF PROCESS	CHANGE OF COLOUR	STAINING
95	ISO 105 – C06, E2S and / or ISO 105 – C08 at 92 °C*	3 – 4	3 – 4 <sup>a</sup>
70	ISO 105 – C06, D2S and / or ISO 105 – C08 at 70 °C	3 – 4	3 – 4ª
60	ISO 105 – C06, C2S and / or ISO 105 – C08 at 60 °C	3 – 4	3 – 4ª
<u>60</u>	ISO 105 – C06, C2S and / or ISO 105 – C08 at 60 °C	3 – 4	3 – 4ª
50	ISO 105 – C06, B2S and / or ISO 105 – C08 at 50 °C	3 – 4	3 – 4ª
50	ISO 105 – C06, B2S and / or ISO 105 – C08 at 50 °C	3 – 4	3 – 4ª
40	ISO 105 – C06, A2S and / or ISO 105 – C08 at 40 °C	3 – 4	3 – 4ª
40	ISO 105 – C06, A2S and / or ISO 105 – C08 at 40 °C	3 – 4	3 – 4ª
40	ISO 105 – C06, A2S and / or ISO 105 – C08 at 40 °C	3 – 4	3 – 4ª
30	ISO 105 – C06, A1S or A2S at 30 °C	3 – 4	3 – 4ª
30	ISO 105 – C06, A1S or A2S (without steel balls)	3 – 4	3 – 4ª
30	ISO 105 – C06, A1S or A2S (without steel balls)	3	3 – 4ª
<u>Len</u> d	ISO 105 – C06, A1S or A2S (without steel balls)	3 – 4	3 – 4 <sup>a</sup>
<u> Ten</u> d	ISO 105 – C06, A1S or A2S (without steel balls)	3 – 4	3 – 4 <sup>a</sup>

\* for safety reasons, the reference method is not referring to 95 °C <sup>a</sup> for garments with contrasting colours: staining rate 4

#### 07.2.2 APPEARANCE 07.2.2.1 INTRODUCTION

Appearance includes all properties that must be taken into account to evaluate damage by washing, such as:

dimensional stability
pilling
appearance of seams
adhesion of fusible interlinings and bonded fabrics
dyestuff migration etc.

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No specific requirements have been laid down by GINETEX, neither for dimensional change nor for other properties. Normal commercial practice should be taken into account and good judgement used in order to determine if an article is fit for normal use after the test or if it has suffered irreparable damage.

#### 07.2.2.2 TEST METHODS

Information about preparation, marking, measuring and test methods for the evaluation of appearance are given in the following ISO standards:

ISO 3759	Textiles – Preparation, marking and measuring of fabric, specimens and garments in tests for determination of dimensional change
ISO 5077	Textiles – Determination of dimensional change in washing and drying
ISO 6330	Textiles – Domestic washing and drying procedures for textile testing
ISO 7768	Textiles – Method for assessing the smoothness appearance of fabrics after cleansing
ISO 7769	Textiles – Method for assessing the appearance of creases in fabrics after cleansing
ISO 7770	Textiles – Method for assessing the appearance of seams in fabrics after cleansing

The domestic washing procedures to be used for each wash symbol are given in table 3.

### TABLE 3 DOMESTIC WASHING PROCEDURES ACCORDING TO ISO 6330

#### **FULL-SCALE METHOD**

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SYMBOLS	REVERENCE	WASHING CONDITIONS	COLOUR FASTNESS
			LABORATORY METHOD
95	ISO 6330	normal agitation at 92 °C*	ISO 105-C06 and/ or ISO 105-C08
707	ISO 6330	normal agitation at 70 °C	ISO 105-C06 and/ or ISO 105-C08
607	ISO 6330	normal agitation at 60 °C	ISO 105-C06 and/ or ISO 105-C08
<u>60</u>	ISO 6330	mild agitation at 60 °C	ISO 105-C06 and/ or ISO 105-C08
50	ISO 6330	normal agitation at 50 °C	ISO 105-C06 and/ or ISO 105-C08
50	ISO 6330	mild agitation at 50 °C	ISO 105-C06 and/ or ISO 105-C08
40	ISO 6330	normal agitation at 40 °C	ISO 105-C06 and/ or ISO 105-C08
40	ISO 6330	mild agitation at 40 °C	ISO 105-C06 and/ or ISO 105-C08
40	ISO 6330	very mild agitation at 40 °C	ISO 105-C06 and/ or ISO 105-C08
30	ISO 6330	normal agitation at 30 °C	ISO 105-C06, A1S or A2S
<u>30</u>	ISO 6330	mild agitation at 30 °C	ISO 105-C06, A1S or A2S (without steel balls)
30	ISO 6330	very mild agitation at 30 °C	ISO 105-C06, A1S or A2S (without steel balls)
<u>Len</u> d	ISO 6330	very mild agitation by hand at 40 °C	ISO 105-C06, A1S or A2S (without steel balls)
<u>ren</u>	ISO 6330	very mild agitation by hand at 30 °C	ISO 105-C06, A1S or A2S (without steel balls)

\_\_\_\_\_

\* for safety reasons, the reference method is not referring to 95 °C

#### 07.3 BLEACHING

Colour fastness against bleaching is tested according to a test method established by ISO 105 - N01. This test is to be carried out after the material to be tested has been washed under the conditions indicated by the label (table 4).

Sufficient stability according to this test method does not guarantee a stability against disinfecting treatments by chlorine-based disinfectants during washing.

AATCC 92 (scorch test) is an additional test for resin-treated fabrics (cellulosics). No appreciable yellowing should occur and the loss in tensile strength should be less than 25%. General methods: see 07.2.1.

#### TABLE 4 ISO TEST METHOD AND RECOMMENDED MINIMUM FASTNESS RATES FOR BLEACHING

		RECOMMENDED MINIMUM/ FASTNESS RATES	
SYMBOLS	ISO TEST METHOD	CHANGE OF COLOUR	STAINING
$\triangle$	ISO 105 – N01	4	_
	ISO 105 – C09	4	_

#### 07.4 TUMBLE DRYING

#### 07.4.1 GENERAL REMARKS

While general drying methods such as line drying or flat drying are common experience of the consumer and can be easily chosen according to visible properties of the made-up textile article, this labelling is not regulated by the GINETEX care labelling system. Information on natural drying can be found in the ISO Standard 3758. However tumble drying might give rise to irreversible damage that cannot be ascertained by common experience of the consumer. Information on preparation, marking, measuring and test methods in connection with tumble drying is given in the following ISO standards:

ISO 3759	Textiles – Preparation, marking and measuring of fabric, specimens and garments in tests for determination of dimensional change
ISO 5077	Textiles – Determination of dimensional change in washing and drying
ISO 6330	Textiles – Domestic washing and drying procedures for textile testing
ISO 7768	Textiles – Method for assessing the smoothness appearance of fabrics after cleansing
ISO 7769	Textiles – Method for assessing the appearance of creases in fabrics after cleansing
ISO 7770	Textiles – Method for assessing the appearance of seams in fabrics after cleansing

Internationally agreed standardised drying procedures and limits concerning property changes do not exist at the moment. GINETEX Technical Committee, therefore, has prepared guidelines (07.4.2) for specific articles for the implementation of the tumble drying symbol to facilitate the selection of the symbol.

#### 07.4.2 GUIDELINES 07.4.2.1 PRINCIPALS, BASIC RULES

The tumble drying symbol is designed to indicate the conditions of household tumble drying. No implications as regards to drying procedures in commercial laundries or dry cleaning operations are intended. GINETEX will advocate the use of an international test method for assessing performance of textiles when tumble dried when it becomes available. The GINETEX tumble drying symbol is not intended to indicate intermediate drying conditions such as 'iron dry'. Such intermediate levels of drying are designed for the convenience of the consumer, not for the prevention of damage, and constitute rather milder than the more severe versions of the cycle indicated by the tumble drying symbol.

#### 07.4.2.2 POTENTIAL CAUSES OF DAMAGE PRODUCED BY TUMBLE DRYING

Damage is defined as an irreversible change of properties of the material treated, which seriously, irreversibly affects:

the visual appearance durability wearing comfort In any case restorability in processes following the procedure evaluated and / or normal consumer practice have to be taken into consideration.

#### A EFFECT OF TEMPERATURE

Heat-sensitive articles, coatings, fusible interlinings, trimmings, finishes, etc. may be damaged if they are exposed to high temperatures. Examples of sensitive materials are:

-----

acrylics

-----

chlorofibres

-----

elastanes

-----

acetate

modacrylics

polypropylene

\_\_\_\_\_

**PVC** coatings

-----

some acrylic coatings

-----

fusible coatings (interlinings)

----

The effect of heat on such material should be checked with the supplier and / or tested according to standardised testing methods when available.

#### **B DIMENSIONAL CHANGE**

Practically all damage claims related to excessive or differential shrinkage are either caused by excessively high temperatures to which heat sensitive fibres are exposed in the tumble drier, or by the considerably higher shrinkage undergone by some knitted cotton articles if they are tumble dried instead of using drying methods not involving mechanical action.

#### C OTHER DAMAGE

Other form of damage to the surface appearance of articles can occur in tumble drying, but such damage at present occurs only rarely.

#### D CONSUMERS ACCEPTANCE LEVELS OF SHRINKAGE EFFECT

As mentioned before, tumble drying may cause substantially higher shrinkage in the case of some cotton knits, particularly those of non-resinated material.

Such shrinkage may cause lower consumer-acceptance and therefore may be considered to lower the value of the article if the dimensional change irreversibly changes the shape of the garment making it uncomfortable to wear or has other deleterious effects. If, however, the change of dimension is easily restored on wearing and if no undesirable after-effects remain, then irreversible damage is out of the question and the acceptance level is unchanged. The shrinkage may then be tolerated even when it is higher with tumble drying.

Examples of the first category of cotton knitted articles (lower acceptance) are fully fashioned articles, i.e. dresses, pants, etc. and those articles in close contact with the body which cause discomfort after drying because too much effort is needed to restore the original dimensions.

The main representatives of the second category (same acceptance) are T-shirts, underwear, etc. Shrinkage is mainly in the circumference\* and not in the length of the article, and comfortable dimensions are easily restored simply by wearing.

In this latter category, dimensional change is not per se critical. What counts is what in the U.S. is called the restorability, i.e. the force necessary to restore the original dimensions (AATCC Standard 96, ASTM D1905 withdrawn).

Shrinkage levels of articles of this category should be determined only after a restorative procedure has been applied to the article.

#### 07.4.2.3 GENERAL RECOMMENDATIONS FOR SYMBOL SELECTION

#### \_\_\_\_\_

Articles sensitive to mechanical action should not be tumble dried

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Articles sensitive to shape changes should preferably not be tumble dried

It is advisable to cross out the tumble drying symbol for those articles made of or containing acryl fibres, silk or wool if these articles do not carry a machine-wash symbol

For articles sensitive to heat, see 07.4.2.2 A



requires usually

\_\_\_\_\_



#### 07.4.3 NATURAL DRYING

Colour fastness test method, evaluation and requirements are listed in table 5.

\* differential shrinkage is caused by components of a garment changing dimensions to different degrees.

# TABLE 5 ISO TEST METHOD AND COLOUR FASTNESS LABORATORY METHOD

SYMBOLS	FULL SCALE METHOD	COLOUR FASTNESS LABORATORY METHOD
	ISO 6330	ISO 105-B02
	ISO 6330	ISO 105-B02
Ξ	ISO 6330	ISO 105-B02
Ξ	ISO 6330	ISO 105-B02
<u> </u>	ISO 6330	ISO 105-B02
	ISO 6330	ISO 105-B02
E	ISO 6330	ISO 105-B02
E	ISO 6330	ISO 105-B02

#### 07.5 IRONING

#### **07.5.1 COLOUR FASTNESS**

Colour fastness test method, evaluation and requirements are listed in table 6.

#### 07.5.2 APPEARANCE

No appreciable loss of strength is allowed. Softening or melting of fabrics or finishing must not occur. Maximum allowable change in dimensions and appearance has yet to be defined. ISO test methods connected with ironing are as follows: .....

ISO 3005

. . . . . . . . . . . .

Textiles – Determination of dimensional change of fabric induced by free steam

No specific requirements have been laid down by GINETEX, neither for dimensional change nor for other properties. Normal commercial practice should be taken into account and good judgement used in order to determine if an article is fit for normal use after the test or if it has suffered irreparable damage. Maximum allowable change in dimensions and appearance depends on the article.

#### TABLE 6 ISO TEST METHOD AND RECOMMENDED MINIMUM FASTNESS RATES FOR IRONING

	TEST METHOD	RECOMMENDED MI	NIMUM FAS	TNESS I	RATES	
	ISO 105-X11	STAINING/CHANGE	IN COLOUR			
	TEMPERATURE °C					WET
	210	After 4h	4	4	4	4
	160	After 4h	4	4	4	*
Ā	120	After 4h	4	4	_*	*
₩ N	120	After 4h	4	4	_*	_*

\* no test needed

#### **07.6 PROFESSIONAL TEXTILE CARE**

#### 07.6.1 COLOUR FASTNESS 07.6.1.1 INTRODUCTION

For testing colour fastness to professional dry cleaning ISO standards are to be used. GINETEX has laid down recommended minimum fastness rates for the change of colour.

These ratings should be considered as guidelines: when producing made-up textiles the interaction of different parts must be taken into account.

In cases of doubt or in order to settle disputes, the article should also be tested for appearance according to 07.6.2. This test can give final and conclusive information as to the fastness ratings of components which have to be specified in order to prevent unacceptable and irreversible changes in the appearance of an article.

#### 07.6.1.2 TEST METHODS AND RECOMMENDED MINIMUM FASTNESS RATES

General information on colour fastness testing are given in the following ISO standards

ISO 105 – A01	General principle of testing
ISO 105 – A02	Grey scale for assessing the change in colour
ISO 105 – A03	Grey scale for assessing staining
For testing colour fastness	towards dry cleaning.
ISO 105 – D01	Should be used, but with the respective solvent

The GINETEX recommended minimum fastness rate for the change of colour is 4. Staining of the solvent must not be taken into account. If ratings of less than 4 are obtained fastness properties are insufficient, it might be useful to carry out further tests according to ISO 3175.

Another test that might be useful to evaluate possible dye transfer or colour fastness problems is

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ISO 105 - D02Textiles - Fastness to rubbing:<br/>Organic solventsFor testing colour fastness towards wet cleaning.ISO 105 - C06A1S should be used

.....

The GINETEX recommended minimum fastness rate for change of colour is 4.

#### 07.6.2 APPEARANCE 07.6.2.1 INTRODUCTION

Appearance includes all properties that can be taken into account to evaluate damage by dry cleaning, such as:

dimensional stability
pilling
appearance of seams
adhesion of fusible interlinings and bonded fabrics
dyestuff migration etc.

No specific requirements have been laid down by GINETEX, neither for dimensional change nor for other properties. Normal commercial practice should be taken into account and good judgement used in order to determine if an article is fit for normal use after the test or if it has suffered irreversible damage.

#### 07.6.2.2 TEST METHODS

Information on preparation, marking, measuring of fabric specimens and garments in test for determination of dimensional change is given in ISO 3759. The Standard series ISO 3175 describes the assessing and test methods for professional care, dry cleaning and wet cleaning and finishing.

ISO 3175-1	Professional care, dry cleaning and wet cleaning of fabrics and garments. <b>Part 1:</b> Assessment of performance after cleaning and finishing
ISO 3175-2	Professional care, dry cleaning and wet cleaning of fabrics and garments. <b>Part 2:</b> Procedure for testing performance when cleaning and finishing using tetrachloroethene
ISO 3175-3	Professional care, dry cleaning and wet cleaning of fabrics and garments. <b>Part 3:</b> Procedure for testing performance when cleaning and finishing using hydrocarbon solvents

ISO 3175-4	Professional care, dry cleaning and wet cleaning of fabrics and garments. <b>Part 4:</b> Procedure for testing performance when cleaning and finishing using simulated wet cleaning
ISO 3175-5	Professional care, dry cleaning and wet cleaning of fabrics and garments. <b>Part 5</b> : Procedure for testing performance when cleaning and finishing using dibutoxymethane
ISO 3175-6	Professional care, dry cleaning and wet cleaning of fabrics and garments. <b>Part 6:</b> Procedure for testing performance when cleaning and finishing using decamethylpentacyclosiloxane

Colour fastness test method, evaluation and requirements are listed in table 7.1 and 7.2.

#### 07.6.2.3 PROCESS CONDITIONS

For the information of professional cleaners the International Technical Committee for Textile Care (ICTC), the former Dry Cleaning Research Committee (IDRC), has issued a summary of process conditions in use in most countries and how to treat articles bearing dry cleaning symbols (Table 8). These guidelines have been endorsed by the International Committee of Textile Care (CINET) and are laid down in ISO 3175-2 and ISO 3175-3.

#### TABLE 7.1 TEST METHODS FOR PROFESSIONAL CARE: DRY CLEANING PROCESS

SYMBOLS	FULL SCALE METHOD	COLOUR FASTNESS LABORATORY METHOD*
P	Process for normal materials paragraph 9.2 of ISO 3175-2 and ISO 3175-5	ISO 105-D01 and additionally another test using dibutoxymethane as the solvent
<u>P</u>	Process for sensitive materials paragraph 9.3 of ISO 3175-2 and ISO 3175-5	ISO 105-D01 and additionally another test using dibutoxymethane as the solvent
	Process for very sensitive materials paragraph 9.3 of ISO 3175-2	ISO 105-D01 and additionally another test using dibutoxymethane as the solvent
F	Process for normal materials paragraph 9.2 of ISO 3175-3 and ISO 3175-6	ISO 105-D01 Method to be modified to use both solvents in two separate tests
Ē	Process for sensitive materials paragraph 9.3 of ISO 3175-3 and ISO 3175-6	ISO 105-D01 Method to be modified to use both solvents in two separate tests

#### TABLE 7.2 TEST METHODS FOR PROFESSIONAL CARE: WET CLEANING PROCESS

#### SYMBOLS FULL SCALE METHOD

#### **COLOUR FASTNESS LABORATORY METHOD**\*

 Process for normal materials paragraph 9.1 of ISO 3175-4	ISO 105-C06, A1S
Process for sensitive materials paragraph 9.2 of ISO 3175-4	ISO 105-C06, A1S
Process for very sensitive materials paragraph 9.3 of ISO 3175-4	ISO 105-C06, A1S

Other tests that might be useful to evaluate possible dye transfer or fastness problems are ISO 105-D02 (fastness to rubbing – organic solvents) for dry cleaning and ISO 106-X12 (fastness to rubbing – wet) for wet cleaning

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# **TABLE 8** PROCESS CONDITIONS OF DRY CLEANING PROCESSES ACCORDING TO GINETEX CARE LABELLING SYMBOLS

SYMBOL	PROCESS	SOLVENT	MAXIMUM SOLVENT TEMPERATURE	LOAD	ADDITION OF DETERGENT CHARGE
			°C	KG / M³	G / L
P	normal	Tetrachloroethene (Per), dibutoxymethane (DBM) and all solvents listed under F	30 ± 3	normal 50 ± 2	1(+2)1
P	mild	Tetrachloroethene (Per), dibutoxymethane (DBM) and all solvents listed under F	30 ± 3	2 / 3 load 33 ± 2	1
	very mild	Tetrachloroethene (Per), dibutoxymethane (DBM) and all solvents listed under F	30 ± 3	2 / 3 load 33 ± 2	1
F	normal	Hydrocarbons (HC, distilla- tion temperature 150 °C to 210 °C, flash point 38 °C to 70 °C) and decamethylpen- tacyclosiloxane (D10)	30 ± 3	normal 50 ± 2	1(+2)1
Ē	mild	Hydrocarbons (HC, distilla- tion temperature 150 °C to 210 °C, flash point 38 °C to 70 °C) and decamethylpen- tacyclosiloxane (D10)	30 ± 3	2 / 3 load 33 ± 2	1

<sup>1</sup> added together with water / solvent emulsion

#### **CLEANING PROCESS**

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\_ \_ \_ \_ \_ \_ \_ \_

ADDITION OF WATER	CLEANING	INTERMEDIATE SPINDRYING	RINSING	FINAL SPINDRYING	MAXIMUM DRYING TEMP. INLET AND OUTLET CONTROLLED	COOLING TIME
%	MIN	MIN	MIN	MIN	°C	MIN
allowed 2	15	2	5	3	Per: Inlet 80 ± 3 Outlet 60 ± 3 DBM: Inlet 80 ± 3 Outlet 70 ± 3	5
not allowed 0	10	2	3	2	Per: Inlet $60 \pm 3$ Outlet $50 \pm 3$ DBM: Inlet $70 \pm 3$ Outlet $60 \pm 3$	5
not allowed 0	5	2	3	2	Per: Inlet $50 \pm 3$ Outlet $40 \pm 3$ DBM: Inlet $60 \pm 3$ Outlet $50 \pm 3$	5
not allowed 2	15	2	5	5	HC, D10: Inlet 80 $\pm$ 3 Outlet 70 $\pm$ 3 (60 $\pm$ 3 for HC with flame point < 55 °C)	5
not allowed 0	10	2	3	5	HC, D10: Inlet 70 $\pm$ 3 Outlet 60 $\pm$ 3 (50 $\pm$ 3 for HC with flame point < 55 °C)	5

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# 08.1 COLOUR FASTNESS

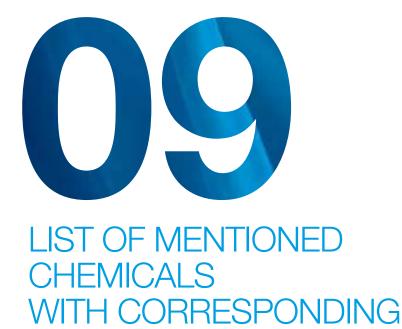
ISO 105 – A01	General principles of testing
ISO 105 – A02	Grey scale for assessing the change in colour
ISO 105 – A03	Grey scale for assessing staining
ISO 105 – B02	Colour fastness to artificial light: Xenon arc lamp test
ISO 105 – C06	Colour fastness to domestic and commercial laundering
ISO 105 – C08	Colour fastness to domestic and commercial laundering using a non-phosphate reference detergent incorporating a low temperature bleach activator
ISO 105 – C09	Colour fastness to domestic and commercial laundering – Oxidative bleach response using a non-phosphate reference detergent incorporating a low temperature bleach activator
ISO 105 – D01	Colour fastness to dry cleaning using perchloroethylene solvent
ISO 105 – D02	Colour fastness to rubbing: Organic solvents
ISO 105 – E01	Colour fastness to water
ISO 105 – E04	Colour fastness to perspiration
ISO 105 – F01	Specification for wool adjacent fabric
ISO 105 – F02	Specification for cotton and vicose adjacent fabric
ISO 105 – F03	Specification for polyamide adjacent fabric
ISO 105 – F04	Specification for polyester adjacent fabric
ISO 105 – F05	Specification for acrylic adjacent fabric
ISO 105 – F06	Specification for silk adjacent fabric
ISO 105 – F07	Specification for secondary acetate adjacent fabric
ISO 105 – N01	Colour fastness to bleaching: Hypochlorite
ISO 105 – X11	Colour fastness to hot pressing
ISO 105 – X12	Colour fastness to rubbing

# 08.2 TESTS FOR OTHER CRITERIA THAN COLOUR FASTNESS

ISO 3005	Textiles - Determination of dimensional change of fabrics induced by free-steam
ISO 3175-1	Textiles - Professional care, dry cleaning and wet cleaning of fabrics and garments
	Part 1 Assessment of performance after cleaning and finishing
ISO 3175-2	Textiles - Professional care, dry cleaning and wet cleaning of fabrics and garments
100 017 0-2	Part 2 Procedure for testing performance when cleaning and finishing using tetrachloroethene
ISO 3175-3	Textiles - Professional care, dry cleaning and wet cleaning of fabrics and garments
130 3173-3	Part 3 Procedure for testing performance when cleaning and finishing using hydrocarbon solvents
ISO 3175-4	Textiles - Professional care, dry cleaning and wet cleaning of fabrics and garments
150 3175-4	Part 4 Procedure for testing performance when cleaning and finishing using simulated wet cleaning
ISO 3175-5	Textiles - Professional care, dry cleaning and wet cleaning of fabrics and garments
	Part 5 Procedure for testing performance when cleaning and finishing using dibutoxymethane
ISO 3175-6	Textiles - Professional care, dry cleaning and wet cleaning of fabrics and garments
	Part 6 Procedure for testing performance when cleaning and finishing using decamethylpentacyclosiloxane

ISO 3758	Textiles – Care labelling code using symbols
ISO 3759	Textiles – Preparation, marking and measuring of fabric specimens and garments in test for determination of dimensional change
ISO 5077	Textiles – Determination of dimensional change in washing and drying
ISO 6330	Textiles – Domestic washing and drying procedures for textile testing
ISO 7768	Textiles – Test Method for assessing the smoothness appearance of fabrics after cleansing
ISO 7769	Textiles – Test Method for assessing the appearance of creases in fabrics after cleansing
ISO 7770	Textiles – Test Method for assessing the smoothness appearance of seams in fabrics after cleansing
AATCC – 92	Chlorine, Retained, Tensile Loss: Single Sample Method (Scorch test)
AATCC – 96	Dimensional Changes in Commercial Laundering of Woven and Knitted Fabrics except Wool
D1905 – 73	Method of Test for Dimensional Changes in Laundering of Woven or Knitted Textiles (Withdrawn 1977)





CAS NUMBERS

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CHEMICAL	CAS NUMBER
TETRACHLOROETHENE (Per)	[ 127-18-4 ]
HYDROCARBONS (HC)	[ VARIOUS ]
DIBUTOXYMETHANE (DBM)	[ 2568-90-3 ]
DECAMETHYLPENTACYCLOSILOXANE (D10)	[ 541-02-6 ]
CHLORINE	[ BASED ON 7681-52-9, 7778-54-3 ]
OXYGEN	[BASED ON 7722-84-1, 15630-89-4, 7632-04-4, 10332-33-9, 10486-00-7]

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# CLEVERCARE.INFO USE OF THE SUSTAINABLE LOGO

Technical Booklet, Version 10, March 2024 © by **GINETEX** THE INTERNATIONAL ASSOCIATION FOR TEXTILE CARE LABELLING GINETEX has developed an internationally applicable logo for sustainable textile care. This logo enables the industry to reach the consumer with the message about good garment and textile care and its benefit. Clevercare.info educates consumers in reducing environmental impact and extends the life of textile products.

The clevercare.info logo is a registered trademark in many countries. The trademark registrations are co-owned by GINETEX and its French national committee (COFREET). We grant our licensees the right to use it in accordance with our licensing agreement.

Together with the use of the 5care labelling symbols, the licensee has the right to use the logo for sustainable textile care "clevercare.info" without additional charge.

This logo should be used always in combination with the care symbol line on labels. For other uses of the logo – websites, communication tools – check with the clevercare.info styleguide.

#### FIGURE 7 MINIMUM DISTANCE TO THE CARE SYMBOL ROW









# ISO ACCREDITED TESTING LABORATORIES SUPPORTING GINETEX

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# THE FOLLOWING TESTING INSTITUTES PROVIDE THE RESPECTIVE TESTS MENTIONED IN THIS TECHNICAL BOOKLET.

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CZ	TZU Textile Testing Institute Vaclavska 6, 658 41 Brno Tel + 42 05 43 42 67 12, Fax + 42 05 43 42 67 42 info@tzu.cz, www.tzu.cz
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ES	AITEX, Instituto Tecnológico Textil (Member of the OEKO-TEX® Association) Plaza Emilio Sala 1, 03801 Alcoy Tel + 34 96 554 22 00, Fax + 34 96 554 34 94 info@aitex.es, www.aitex.es
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PL	SIEĆ BADAWCZA ŁUKASIEWICZ - ŁÓDZKI INSTYTUT TECHNOLOGICZNY (Member of the OEKO-TEX® Association) ul. Gdańska118, 90-520 Łódź Tel + 48 42 2 53 44 00, Fax + 48 42
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