
HY_glj`j`Y!`NUy` j`bY`Ugfbcgj`dfYX`gcb` bja`j`i`fUj`j`c`j` bja`j`yUf`j`!`&`"XY.
F Uj`f`y` U`b`Y`j`b`c`nbU` Y`j` U`b`Y`c`V`U` j`

Textiles - Solar UV protective properties - Part 2: Classification and marking of apparel

Textilien - Schutzeigenschaften gegen ultraviolette Sonnenstrahlung - Teil 2:
Klassifizierung und Kennzeichnung von Bekleidung

Textiles - Propriétés de protection contre le rayonnement UV solaire - Partie 2:
Classification et marquage de l'habillement

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Ta slovenski standard je istoveten z: **EN 13758-2:2003+A1:2006**

ICS:

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|-----------|---------|-----------------|
| 59.080.30 | Tkanine | Textile fabrics |
| 61.020 | Uà æ ãæ | Clothes |

SIST EN 13758-2:2003+A1:2007 en;fr;de

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English Version

Textiles - Solar UV protective properties - Part 2: Classification and marking of apparel

Textiles - Propriétés de protection contre le rayonnement
UV solaire - Partie 2: Classification et marquage de
l'habillement

Textilien - Schutzeigenschaften gegen ultraviolette
Sonnenstrahlung - Teil 2: Klassifizierung und
Kennzeichnung von Bekleidung

This European Standard was approved by CEN on 7 Mai 2003 and includes Amendment 1 approved by CEN on 23 November 2006.

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, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

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

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

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Foreword

This document (EN 13758-2:2003+A1:2006) 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 June 2007, and conflicting national standards shall be withdrawn at the latest by June 2007.

This document includes Amendment 1, approved by CEN on 2006-11-23.

The start and finish of text introduced or altered by amendment is indicated in the text by tags $\boxed{A_1}$ and $\boxed{A_1}$.

It is part 2 of a series of two standards on UV protective properties of clothing.

Annex A is informative.

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, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

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Introduction

Recent international research has shown that prolonged exposure of the skin to the sun can produce both short and long-term harmful effects. The major cause, ultraviolet radiation, can be significantly reduced by clothing. However, the level of protection offered by clothes varies considerably and is dependent on many factors. Most significant are the fabric properties and the design of the garments.

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1 Scope

This European Standard specifies the requirements for marking of clothing which are designed to offer the wearer protection against solar ultraviolet radiation exposure.

2 Normative references

This European standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

EN 13758-1 Textiles – Solar UV protective properties – Part 1: Method of test for apparel fabrics

3 Terms and definitions

For the purposes of this European standard, the following terms and definitions apply:

3.1

solar ultraviolet radiation (UVR)

electromagnetic radiation with wavelength between 290 and 400 nm

3.2

solar UV-A

solar ultraviolet radiation with wavelength between 315 and 400 nm

3.3

solar UV-B

solar ultraviolet radiation with wavelength between 280 and 315 nm

3.4

ultraviolet protection factor (UPF)

ultraviolet protection factor (UPF) as determined by EN 13758-1

3.5

average UV-A transmission

average UV-A transmission as defined by EN 13758-1

3.6

upper body

the torso, from the base of the neck down to the hip, and cross the shoulders down to $\frac{3}{4}$ of the upper arm

3.7

lower body

part of the body from the waist down to below the patella

4 Requirements

4.1 General clothing design requirements

Clothing designed to offer protection to the upper body shall at least cover the upper body completely.

Clothing designed to offer protection to the lower body shall at least cover the lower body completely.

Clothing designed to offer protection to both the upper and lower body shall at least cover the upper and lower body completely.

4.2 UVR protection

[A1] The UPF of all materials used for the clothing assembly shall be measured according to EN 13758-1. The lowest UPF value shall be larger than 40. The UVA_{average} transmission in the case of uniform samples or sample UVA transmission in the case of non-uniform samples determined according to EN 13758-1 shall be smaller than 5 %. **[A1]**

5 Marking, labelling

UV protective clothing for which compliance with this standard is claimed shall permanently be marked with:

- the number of this standard, i.e. EN 13758-2.
- UPF 40+

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UV protective clothing for which compliance with this standard is claimed shall be marked with:

[SIST EN 13758-2:2003+A1:2007](#)

- **[A1]** the pictogram (sun yellow with Pantone Process Yellow CVU or white), shading, outline and characters shall be black (Pantone Black 6 CVP) with a minimum 10 point font size, see Figure 1. **[A1]**
- the wording: “Sun exposure causes skin damage”
- the wording: “Only covered areas are protected”
- the wording: “The protection offered by this item may be reduced with use or if stretched or wet.”

UV protective clothing for which compliance with this standard is claimed can be marked with:

- the wording “provides UVA + UVB protection from the sun”

It is recommended that a small leaflet is attached to the garment to explain the danger of UV radiation exposure and the ability of the garment to reduce this exposure.



Figure 1 — Pictogram