

## SLOVENSKI STANDARD SIST EN 13758-2:2003

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

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

## iTeh STANDARD PREVIEW

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

### SIST EN 13758-2:2003

Ta slovenski standard je istoveten z. Byc26637af7/sist-en-13758-2-2003

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Textile fabrics Clothes

SIST EN 13758-2:2003

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# EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

## EN 13758-2

July 2003

ICS 59.080.30; 61.020

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 May 2003.

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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 Management Centre has the same status as the official versions.

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SIST EN 13758-2:2003 https://standards.iteh.ai/catalog/standards/sist/6f427dff-ee4b-437b-944cf39c26637af7/sist-en-13758-2-2003



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

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	A (informative) Protection, marketability, comfort and aesthetic appeal	

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## Foreword

This document (EN 13758-2:2003) 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of an identical text or by endorsement, at the latest by January 2004, and conflicting national standards shall be withdrawn at the latest by January 2004.

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, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and the 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 **iTeh STANDARD PREVIEW** solar ultraviolet radiation (UVR) electromagnetic radiation with wavelength between 290 and 400 nm

## 3.2

solar UV-A <u>SIST EN 13758-2:2003</u> 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 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

The UPF of all the materials used for the clothing assembly shall be measured according to EN 13758-1. The lowest UPF value shall be larger than 40. The average UV-A transmission determined according to EN 13578-1 shall be smaller than 5 %.

### 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:

 the pictogram (sun yellow with Pantone Process Yellow CVU) or white, shading, outline and characters shall be black (Pantone Black 6 CVR), isee Eigure Andards/sist/6f427dff-ee4b-437b-944c-

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- 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