

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

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

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 13758-2:2003+A1:2007 sisaldab Euroopa standardi EN 13758-2:2003+A1:2006 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 29.01.2007 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 13758-2:2003+A1:2007 consists of the English text of the European standard EN 13758-2:2003+A1:2006.</p> <p>This document is endorsed on 29.01.2007 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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<p><b>Käsitlusala:</b> This European Standard specifies the requirements for classification and marking of clothing which are designed to offer the wearer protection against solar ultraviolet radiation exposure</p>	<p><b>Scope:</b> This European Standard specifies the requirements for classification and marking of clothing which are designed to offer the wearer protection against solar ultraviolet radiation exposure</p>
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**ICS** 59.080.30, 61.020

**Võtmesõnad:** classifications, fabrics, letterings, marking, packages, packing, properties, protection, solar radiation, specification (approval), specifications, testing, textiles, ultraviolet radiation, ultraviolet radiation resistances, uv, uv transmission, woven fabrics

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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## 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 **A1** and **A1**.

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.

## 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.

## 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