

<b>TNI</b>	<b>Osobné ochranné prostriedky Inteligentné odevy Termíny a definície</b>	<b>TNI CEN/TR 17512</b>  83 2786
------------	---	--

Personal protective equipment - Smart garments - Terms and definitions

Táto technická normalizačná informácia obsahuje anglickú verziu CEN/TR 17512:2020.  
This Technical standard information includes the English version of CEN/TR 17512:2020.

Táto technická normalizačná informácia bola oznámená vo Vestníku ÚNMS SR č. 08/20

**TECHNICAL REPORT****CEN/TR 17512****RAPPORT TECHNIQUE****TECHNISCHER BERICHT**

June 2020

ICS 01.040.59; 13.340.10; 01.040.13; 59.080.80

English Version

## Personal protective equipment - Smart garments - Terms and definitions

Équipement de protection individuelle - Vêtements intelligents - Termes et définitions

Persönliche Schutzausrüstungen - Intelligente Kleidungen - Begriffe und Definitionen

This Technical Report was approved by CEN on 24 May 2020. It has been drawn up by the Technical Committee CEN/TC 162.

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



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

**CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels**

**CEN/TR 17512:2020 (E)**

<b>Contents</b>	<b>Page</b>
<b>European foreword</b> .....	<b>3</b>
<b>Introduction</b> .....	<b>4</b>
<b>1 Scope</b> .....	<b>5</b>
<b>2 Normative references</b> .....	<b>5</b>
<b>3 Terms and definitions</b> .....	<b>5</b>
<b>3.1 Terms and definitions related to textile and clothing</b> .....	<b>5</b>
<b>3.2 Terms and definitions related to personal protective equipment (PPE)</b> .....	<b>6</b>
<b>3.3 Terms and definitions related to smart textiles</b> .....	<b>8</b>
<b>3.4 Terms and definitions related to electronics</b> .....	<b>10</b>
<b>3.5 Terms and definitions related to ergonomics</b> .....	<b>12</b>
<b>3.6 Terms and definitions related to smart PPE</b> .....	<b>14</b>
<b>Annex A (informative) Terms in alphabetical order</b> .....	<b>15</b>
<b>Bibliography</b> .....	<b>17</b>

## **European foreword**

This document (CEN/TR 17512:2020) has been prepared by Technical Committee CEN/TC 162 “Protective clothing including hand and arm protection and lifejackets”, the secretariat of which is held by DIN.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document has been drafted conjunctionally according to the mode 4 cooperation between CEN/TC162 and CEN/TC 122 (/WG 14), CEN/TC 248 (/WG 31) and CENELEC/SR 124.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association [1].

**CEN/TR 17512:2020 (E)****Introduction**

The purpose of this document is to support of the implementation of Regulation (EU) No 1007/2011 and of Article 5 and Annex II of Regulation (EU) 2016/425, by listing terms and defining them in relation to the advanced garments and ensembles of garments that provide protection against heat and flame, with integrated smart textiles and non-textile elements for enhanced health, safety and survival capabilities.

This document is structured with subclauses related to the different (technical) facets which make up smart garments providing protection against heat and flame.

Therefore, the listed terms and definitions took into consideration those from:

- The sector of textile and clothing (Clause 3.1);
- The sector of personal protective equipment – PPE – (Clause 3.2);
- The sector smart textiles (Clause 3.3);
- The sector of electronics (Clause 3.4);
- The sector of ergonomics (Clause 3.5);
- The sector of smart personal protective equipment – smart PPE – (Clause 3.6).

The main sources of existing terms and definitions are:

- a) Regulation (EU) No 1007/2011 on *textile fibre names and related labelling and marking of the fibre composition of textile products* (mainly referred to in Clause 3.1);
- b) EN ISO 11610:—<sup>1</sup>, *Protective clothing - Vocabulary* (mainly referred to in Clause 3.2);
- c) ISO/TR 19591:2018, *Personal protective equipment for firefighters - Standard terms and definitions* (mainly referred to in Clause 3.2);
- d) ISO/TS 20141:—<sup>2</sup>, *Guideline on compatibility of PPE* (mainly referred to in Clause 3.2);
- e) CEN/TR 16298:2011<sup>3</sup>, *Textile and textile products - Smart textiles - Definitions, categorization applications and standardization needs* (mainly referred to in Clause 3.3);
- f) IEC 60050-151:2001, *International Electrotechnical Vocabulary (IEV) - Part 151: Electrical and magnetic devices* (mainly referred to in Clause 3.4);
- g) WI 00248652<sup>4</sup>, *Textiles and textile products - Textiles with integrated electronics and ICT - Definitions, categorization, applications and standardization needs* (mainly referred to in Clause 3.4);
- h) ISO 9241-11:2018, *Ergonomics of human-system interaction - Part 11: Usability: Definitions and concepts* (mainly referred to in Clause 3.5).

---

<sup>1</sup> Under development since 2018-08.

<sup>2</sup> Under development since 2019-04.

<sup>3</sup> The technical report CEN/TR 16298:2011 has been proposed as ISO/TR 23383 (title unchanged).

<sup>4</sup> Under development since 2018-04.

## **1 Scope**

This document lists terms and definitions related to core terms in the field of smart garments providing protection against heat and flame (i.e. advanced garments and ensembles of garments as mentioned in the Introduction). It is intended to facilitate communications, for example, between organizations and individuals in industry and those who interact with them.

## **2 Normative references**

There are no normative references in this document.

**koniec náhľadu – text ďalej pokračuje v platenej verzii STN**