

**Kaitseriietus kaitsmiseks vedelate  
kemikaalide eest. Vedelate kemikaalide  
eest piiratud kaitset pakkuvatele  
kemikaalide eest kaitsvale riietusele  
esitatavad toimimisinõuded (Tüüp 6 ja  
Tüüp PB [6] vahendid)**

Protective clothing against liquid chemicals -  
Performance requirements for chemical protective  
clothing offering limited protective performance  
against liquid chemicals (Type 6 and Type PB [6]  
equipment)

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 13034:2005 sisaldab Euroopa standardi EN 13034:2005 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 30.05.2005 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 13034:2005 consists of the English text of the European standard EN 13034:2005.</p> <p>This document is endorsed on 30.05.2005 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></p> <p>This document specifies the minimum requirements for limited use and re-useable limited performance chemical protective clothing. Limited performance chemical protective clothing is intended for use in cases of a potential exposure to a light spray, liquid aerosols or low pressure, low volume splashes, against which a complete liquid permeation barrier (at the molecular level) is not required.</p>	<p><b>Scope:</b></p> <p>This document specifies the minimum requirements for limited use and re-useable limited performance chemical protective clothing. Limited performance chemical protective clothing is intended for use in cases of a potential exposure to a light spray, liquid aerosols or low pressure, low volume splashes, against which a complete liquid permeation barrier (at the molecular level) is not required.</p>
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English version

Protective clothing against liquid chemicals - Performance requirements for chemical protective clothing offering limited protective performance against liquid chemicals (Type 6 and Type PB [6] equipment)

Vêtements de protection contre les produits chimiques liquides - Exigences relatives aux vêtements de protection chimique offrant une protection limitée contre les produits chimiques liquides (équipement de type 6 et Type PB (6))

Schutzkleidung gegen flüssige Chemikalien - Leistungsanforderungen an Chemikalienschutzkleidung mit eingeschränkter Schutzleistung gegen flüssige Chemikalien (Ausrüstung Typ 6 und Typ PB [6])

This European Standard was approved by CEN on 14 February 2005.

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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 Central Secretariat has the same status as the official versions.

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## Foreword

This document (EN 13034:2005) 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.

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 September 2005, and conflicting national standards shall be withdrawn at the latest by September 2005.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive 89/686/EEC.

For relationship with EU Directive(s), see informative Annex ZA, which is an integral part of this document.

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

## Introduction

Protection should be proportional to the risk to avoid excessive discomfort due to overprotection. The categorisation into types of chemical protective clothing is an attempt to discriminate between different general levels of risk.

The determination of the actual risk level should follow from a risk assessment, which takes all relevant parameters into account, e.g. the nature of the chemical, temperature, pressure, quantity, parts of the body likely to be exposed, climatic conditions, intensity of work etc. This risk assessment will give important indications about suitable types of materials, clothing design and composition of the most effective solution, e.g. combination with other types of PPE or other items of chemical protective clothing.

Type 6 and PB [6] are intended to be used in cases where risk has been assessed as low and a full liquid permeation barrier is not necessary, i.e. when wearers are able to take timely adequate action when their clothing is contaminated. Type 6 and PB [6] protective clothing form the lowest level of chemical protection and are intended to protect from a potential exposure to small quantities of spray or accidental low volume splashes.

A technical report to give guidance on questions pertaining to selection, use, care and maintenance is currently under development.

## 1 Scope

This document specifies the minimum requirements for limited use and re-useable limited performance chemical protective clothing. Limited performance chemical protective clothing is intended for use in cases of a potential exposure to a light spray, liquid aerosols or low pressure, low volume splashes, against which a complete liquid permeation barrier (at the molecular level) is not required.

This document covers both chemical protective suits (Type 6) and partial body protection (Type PB [6]).

Chemical protective suits (Type 6) cover and protect at least the trunk and the limbs, e.g. one-piece coveralls or two piece suits, with or without hood, boot-socks or boot-covers. This document specifies minimum requirements for the connections between different parts of Type 6 suits by the use of a reduced whole suit spray test using a variant of EN 468, as described in 5.2.

Partial body protection of similar limited performance (Type PB [6]) covers and protects only specific parts of the body, e.g. coats, aprons, sleeves etc. They should not be tested to the whole suit test (5.2).

## 2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 340:2003, *Protective clothing — General requirements*

EN 468, *Protective clothing — Protection against liquid chemicals — Test method: Determination of resistance to penetration by spray (Spray Test)*

EN 14325:2004, *Protective clothing against chemicals — Test methods and performance classification of chemical protective clothing materials, seams, joins and assemblages*

EN 23758, *Textiles - Care labelling code using symbols (ISO 3758:1991)*

EN ISO 13935-2, *Textiles — Seam tensile properties of fabrics and made-up textile articles — Part 2: Determination of maximum force to seam rupture using the grab method (ISO 13935-2:1999)*

## 3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

### 3.1

#### **aerosol**

suspension of solid, liquid or solid and liquid particles in a gaseous medium having negligible falling velocity (generally considered to be less than 0,25 m/s)

### 3.2

#### **chemical protective clothing material**

any material or combination of materials used in an item of protective clothing for the purpose of isolating parts of the body from direct contact with a chemical

### 3.3

#### **join**

non-permanent fastening between two different garments, or between chemical protective clothing and accessories