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NSAI Standards

Irish Standard Recommendation
S.R. CEN/TR 15419:2017

Protective clothing - Guidelines for selection, use, care and maintenance of chemical protective clothing

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National Foreword

S.R. CEN/TR 15419:2017 is the adopted Irish version of the European Document CEN/TR 15419:2017, Protective clothing - Guidelines for selection, use, care and maintenance of chemical protective clothing

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TECHNICAL REPORT

RAPPORT TECHNIQUE

TECHNISCHER BERICHT

CEN/TR 15419

November 2017

ICS 13.340.10

Supersedes CEN/TR 15419:2006

English Version

Protective clothing - Guidelines for selection, use, care and maintenance of chemical protective clothing

Habillement de protection - Recommandations pour la sélection, l'utilisation, l'entretien et la maintenance des vêtements de protection chimique

Schutzkleidung - Empfehlungen für die Auswahl, die Verwendung, die Pflegung und die Bereithaltung von Schutzkleidung gegen Chemikalien

This Technical Report was approved by CEN on 29 October 2017. It has been drawn up by the Technical Committee CEN/TC 162.

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European foreword

This document (CEN/TR 15419:2017) 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.

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Introduction

Although the general SUCAM document developed within CEN/TC 162 provides a lot of useful information, it was felt that a specific SUCAM document for chemical protective clothing (CPC) was necessary, in view of the very specific problems linked with the use of CPC (very large variety of risks, disinfection, etc.).

Workplace hazards should be reduced to the lowest level reasonably achievable. This can be done by eliminating the risk, by taking engineering measures such as encapsulation of the risk, by system control and/or by providing safe work place practices, which can include the use of CPC.

This means that the role of CPC in controlling the residual risk should be established in the correct context. The performance requirements for CPC should be characterized in terms of the nature, quantity and physical form of the hazardous chemical and the likelihood of contamination.

PPE should be evaluated as a whole, not only by its performance related to protection. Other factors such as usability and maintenance should also be taken into account to match the equipment and the intended use. Selection and use are more people-related, whereas care and maintenance are more product-related.

The risk related to the use of chemicals varies widely with the nature of the hazard and the conditions and duration of exposure to the chemicals. Therefore, risk and exposure assessment should be done very carefully in order to avoid overprotection and to ensure full acceptance of the protective clothing, which is often used in extremely dangerous work environments.

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1 Scope

This Technical Report is primarily intended for users, specifiers and others with responsibility for the procurement and provision of chemical protective clothing. It is also intended to be used by manufacturers in their dialogue with the users of PPE.

This Technical Report is intended to clarify the inter-relationship of the set of standards, developed by CEN/TC 162 WG 3, and to explain the main ideas behind these standards. This set of standards has been developed in support of the European legislation on PPE and is currently used as a major technical tool for the assessment and certification of CPC before it is put on the European market.

These guidelines are intended to assist users and specifiers in selecting the correct type of CPC for the task to be performed, and to help them ensure it is used according to the manufacturer's instructions to provide adequate protection during its entire lifetime. Lifetime and effectiveness of protective clothing depend largely on care and maintenance. When cleaning, disinfection and end-of-life disposal are considered the environmental impact should also be taken into account.

This Technical Report does not address chemical nuisance factors without potential impact on a person's health and safety, e.g. smell.

2 Normative references

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

CEN ISO/TR 11610, Protective clothing - Vocabulary (ISO/TR 11610)

EN 420, *Protective gloves - General requirements and test methods*

EN 863, *Protective clothing - Mechanical properties - Test method: Puncture resistance*

EN 13034, *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)*

EN 13274-4, *Respiratory protective devices - Methods of test - Part 4: Flame tests*

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

EN 14605:2005+A1:2009, *Protective clothing against liquid chemicals - performance requirements for clothing with liquid-tight (Type 3) or spray-tight (Type 4) connections, including items providing protection to parts of the body only (Types PB [3] and PB [4])*

EN 16523-1, *Determination of material resistance to permeation by chemicals - Part 1: Permeation by liquid chemical under conditions of continuous contact*

EN ISO 6530, *Protective clothing - Protection against liquid chemicals - Test method for resistance of materials to penetration by liquids (ISO 6530:2005)*

EN ISO 7854, *Rubber- or plastics-coated fabrics - Determination of resistance to damage by flexing (ISO 7854)*

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