

## EC Type-Examination Certificate

Directive for Personal Protective Equipment

**Certificate No.: DK-0200-PPE-2061 version 3**

Issued by FORCE Certification A/S - EC-notified body number 0200

In accordance with the Directorate of National Labour Inspection's Regulation No. 1273 of December 18<sup>th</sup> 1996, which in Denmark implements the Council Directives No. 89/686, No. 93/68, No. 93/95 and No. 96/58, EC type-examination certificate is issued to:

Manufacturer: **Ansell Protective Solutions AB**  
**Johan Kocksgatan 10**  
**SE-231 81 Trelleborg**  
**SWEDEN**

Identification of Personal Protective Equipment:

Type: **Chemical protective clothing**

Designation: **AlphaTec Super type CV, VP1, CV-ET and VP1-ET (previous Trelchem)**

Classifications: **Gastight suit type 1a-B (totally encapsulating suit). EN1073-2: TIL class 3**

Essential parts/versions **Totally encapsulating suit with visor (CV) or large visor (VP1).  
Integral socks/booties in the suit material or attached Fireman SA boots.  
Gastight HCR zipper. Bayonet ring system with attached Ansell gloves:  
ChemTek 38-628 Viton/Butyl rubber or Ansell Barrier in combination with  
suitable outer gloves. Options: different boots, different gloves.**

Manufactured by: **Ansell Protective Solutions Lithuania UAB, Lithuania**

The examined samples are found to fulfil the relevant requirements stated in the following harmonised standard(s):

**EN 943-1:2015** **Protective clothing against liquid and gaseous chemicals, including liquid aerosols and solid particles.**

**EN 943-2:2002/  
prEN943-2:2017** **Gastight suits for emergency teams. (Only ET versions).**

**EN 1073-2:2002** **Protective clothing against particulate radioactive contamination.**

**EN 14126:2003** **Protective Clothing against infective agents**

Category: The examined type of personal protective equipment is class III equipment and a quality control agreement with a notified body must be available.

Documentation for observance of relevant requirements stated in Appendix II of Regulation No. 1273 of December 18<sup>th</sup> 1996 and the basis for the type examination are described in the appendix to this certificate. The manufacturer must inform FORCE Certification A/S of any contemplated changes.

This new version of EC Type-Examination certificate DK-0200-PPE-2061 version 2 dated 2017-10-13 is issued to correct misprints.


FORCE Certification A/S Task No.: 117-21466.04

FC No. DK-0200-PPE-03109

Date of issue: 2017-10-25

Date of expiry: 2018-10-13

  
Philippa Weirup Osted  
Certification manager

  
Erik Bjarnov  
Examiner

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# Classification annex to EC Type-Examination Certificate

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## AlphaTec/Trelchem Super material properties

### Classification according to EN 14325:2004 (EN 943-1:2015)

Property	Class	Class requirements
Abrasion resistance (EN 530)	6	> 2 000 cycles
Flex cracking resistance (ISO 7854:B)	6	> 100 000 cycles
Flex cracking resistance at - 30 °C (ISO 7854:B)	6	> 4 000
Tear resistance (EN ISO 9073-4)	3	> 40 N
Tensile strength (EN ISO 13934-1)	6	> 1 000 N
Puncture resistance (EN 863)	3	> 50 N
Resistance to flame (EN 13274-4:2001 method 3 modified)	3	5s in flame, leak tight afterwards
Seam strength (EN ISO 13935-2)	6	> 500 N

### Additional tests not required in EN 943-1:2015 and EN 14325:2004.

Property	Value or class	Requirements
EN 1149-5, Shielding (S)	0,98	S > 0,2
EN 1149-5, Decay time ( $t_{50}$ )	$t_{50} < 0.01$	$t_{50} < 4$
EN ISO 14116 Limited flame spread index	1	Flame or hole not reach the upper edge, no debris

### Resistance to permeation by chemicals

Chemical	Super suit	Super suit seam	HCR Zip-per	Visor	Glove 38-628	Glove Barrier	Boot Pompier SA
Acetone	5	3	6	5	6	6	≥3
Acetonitrile	6	6	6	6	6	6	≥3
Ammonia (gas)	6	6	6	6	6	1*	6
Carbon disulfide	6	5	1***	6	6	6	≥3
Chlorine (gas)	6	6	6	6	6	5	6
Dichloromethane	3	3	3	4	4	2*	3
Diethyl amine	2	2	1***	6/4#	2	6	5
Ethyl acetate	3	4	1***	6/5#	5	6	5
n-Heptane	6	6	6	6	6	6	≥3
n-Hexane	6	6	-	6	-	6	≥3
Hydrogen chloride (gas)	6	6	6	6	6	5	6
Methanol	6	6	5	6	6	6	≥3
Sodium hydroxide 40%	6	6	6	6	6	6	6
Sulphuric acid 96%	6	6	5	6	6	6	6
Tetrahydrofuran	1**	2	1***	5/2#	2	6	4
Toluene	6	6	3	6	6	6	5

\* The combination of the Barrier glove and another glove will at least give protection as the better of the two gloves. If the Barrier glove is used alone (not recommended) the configuration is not suitable for exposure to ammonia under continuous exposure. In combination with Ansell ChemTek 38-628 class 5 was found for dichloromethane.

\*\* The configuration is not suitable for tetrahydrofuran under continuous exposure.

\*\*\* When covered by a flap in suit material closed with a continuous strip of Velcro along the full length of the zipper minimum class achieved for these 5 chemicals was 2.

# 6/5 means that visor was class 6 and visor suit seam class 5. Where only one class is shown this is for both.

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Page 2 of 2

## Classification for protection against infective agents according to EN 14126:2003

Property	Class
Resistance to penetration by contaminated liquids under pressure (ISO16603 and ISO 16604)	6
Resistance to penetration by infective agents due to mechanical contact with substances containing contaminated liquids (EN ISO 22610:2006)	6
Resistance to penetration by contaminated liquid aerosols (ISO/DIS 22611)	3
Resistance to penetration by contaminated solid particles (ISO 22612)	3

The suit has been assessed to be safe for use in explosive atmospheres according to ATEX Directive and EN 13463-1. See test and assessment report DEKRA 11EXAM 10558 BVS-BI.

Date: 2017-10-25

A handwritten signature in blue ink, appearing to read "Erik Bjarnov", with a long horizontal stroke extending to the right.

Erik Bjarnov  
Examiner