

EU Type-Examination Certificate

Regulation on Personal Protective Equipment (Module B) Certificate No.: 0200-PPE-04547 version 2

FORCE Certification A/S (EU-notified body number 0200) has in accordance with Regulation (EU) 2016/425 of The European Parliament and of The Council of 9 March 2016, issued EU Type-Examination Certificate to:

Manufacturer:

Ansell Protective Solutions AB
Arenagatan 8B
SE-215 33 Malmö, Sweden

For manufacturing the following personal protective equipment:

Type/Description:

Chemical protective clothing

Model/Designation:

AlphaTec® FLASH type CV-ET and VP1-ET (previously Trelchem)
Totally encapsulating suit with standard visor (CV) or large visor (VP1). Integral socks/booties in the suit material or attached Nitrile rubber Fireman SA boots. Gastight HCR zipper. Bayonet ring system with attached AlphaTec® 38-628 Viton/Butyl rubber gloves in combination with AlphaTec® 02-100 inner gloves.
Options: Different gloves.

Applied standard(s):

**EN 943-1:2015 + A1:2019, EN 943-2:2019,
EN 1073-2:2002, EN 14126:2003**

Performance level:

**Gastight suit type 1a-ET-B, enhanced robustness.
EN 1073-2 TIL class 3**

Category:

III

The examined sample of personal protective equipment is found to fulfill the relevant requirements of the applied standard(s) and to be in compliance with the applicable essential health and safety requirements of Regulation (EU) 2016/425. Documentation for observance of relevant requirements and the basis for the type-examination are described in the appendix to this certificate. The manufacturer shall inform FORCE Certification A/S of any contemplated changes.

This certificate can only be used in conjunction with a valid conformity assessment procedure according to Regulation (EU) 2016/425 module C2 or D.

This certificate replaces the former version 0200-PPE-04547 version 1, due to editorial corrections

Date of issue: **2019-08-20**

Date of expiry: **2023-07-08**



Philippa W. Osted
Certification Manager



Erik Bjarnov
Examiner

FORCE Certification A/S task No.: **119-22282.10** / Certificate ID: **06709**

This certificate will remain valid unless cancelled, revoked or expired, provided the conditions in the attached appendix are complied with, and that the equipment remains state of the art within its applicable field of service. Status of this certificate can be verified on www.forcecertification.com. This EU Type-Examination Certificate is the property of FORCE Certification A/S. Extracts of this certificate may only be reproduced with a written permission from FORCE Certification A/S.

Classification Annex to EU Type-Examination Certificate

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AlphaTec® Flash material properties. Classification according to EN 14325:2018

Property	Class	Class requirements
Abrasion resistance (EN ISO 12947-2 modified acc. EN 14325)	6	> 2000 cycles
Flex cracking resistance (ISO 7854:B)	4*	> 8 000 cycles
Flex cracking resistance at – 30 °C (ISO 7854:B)	6	> 4000 cycles
Tear resistance (EN ISO 9073-4)	3	> 40 N
Tensile strength (EN ISO 13934-1)	6	> 1000 N
Puncture resistance (EN 863)	3	> 50
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
Closure/zipper strength (EN ISO 13935-2)	6	> 500 N

* Class 4 of EN 14325:2004 also passed (> 15 000 cycles).

Additional tests not required in EN 943-1+A1:2019 and EN 14325:200804.

Property	Value or class	Requirements
EN ISO 14116 Limited flame spread index	3	No hole formation
Antistatic properties EN 1149-5, shielding (S)	$t_{50} = 0.82s$	$t_{50} < 4s$
Resistance to blocking ISO 5978	1	No blocking

Resistance to permeation by chemicals.

Chemical	FLASH suit	FLASH suit seam	HCR Zip-per	Visor	Visor suit seam	Glove V/B 38-628	Glove A. 02-100	Boot Fireman SA
Acetone	6	6	6	5	6	6	6	5
Acetonitrile	6	6	6	6	6	6	6	5
Ammonia (gas)	6	6	6	6	6	6	1*	6
Carbon disulfide	6	6	5	6	6	6	6	6
Chlorine (gas)	6	6	6	6	6	6	5	6
Dichloromethane	6	6	3	4	4	3	2*	3
Diethyl amine	6	6	2	6	6	2*	6	6
Ethyl acetate	6	6	6	6	6	4	6	6
n-Heptane	6	6	6	6	-	6	6	≥3
n-Hexane	6	6	6	6	6	6	6	6
Hydrogen chloride (gas)	6	6	6	6	6	6	5*	6
Methanol	6	6	5	6	6	6	6	6
Sodium hydroxide 40%	6	6	6	6	6	6	6	6
Sulphuric acid 96%	6	6	6	6	6	6	6	6
Tetrahydrofuran	6	6	1	5	5	1*	6	4
Toluene	6	6	6	6	6	6	6	6

* The combination of the AlphaTec® 02-100 glove and another glove will at least give protection as the better of the two gloves. If the AlphaTec® 02-100 glove is used alone (not recommended) the configuration is not suitable for exposure to ammonia under continuous exposure. In combination with AlphaTec® 38-628 class 5 was found for dichloromethane. If using the AlphaTec® 38-628 glove alone the configuration is not suitable for tetrahydrofuran and diethyl amine under continuous exposure.

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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 12EXAM 10684c BVS-Schw/BI dated 28th November 2012.

Date: 2019-08-20

Erik Bjarnø
Examiner