

TYPE APPROVAL CERTIFICATE**This is to certify:****That the Protective Clothing**

with type designation(s)

AlphaTec® Super type T and type T ET chemical protective clothing

Issued to

Ansell Protective Solutions AB
Malmö Skåne Län, Sweden

is found to comply with

DNV GL rules for classification – Ships**DNV GL offshore standards****DNV GL statutory interpretations DNVGL-SI-0364 – SOLAS interpretations****Application :****Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.**This Certificate is valid until **2022-12-17**.Issued at **Høvik** on **2017-12-18**DNV GL local station: **Gothenburg**for **DNV GL**Approval Engineer: **John Alan Walton**

Jörg Kallies
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

Job Id: **262.1-024684-2**
Certificate No: **TAF00000K7**
Revision No: **1**

Product description

The **AlphaTec® Super type T and type T ET** chemical protective clothing is classed as a Type 1 b gas-tight chemical protective suit with a breathable air supply worn outside the chemical protective suit. Type T ET is fitted with a HCR Zipper and may be used by emergency teams.

To be used with positive pressure breathing apparatus complying with EN137 and the use of Trelchem® TC Hood or Trelchem® Mini Hood, alternatively permanently attached Drager Panorama Nova or Intersplro Spiromatic full face mask is recommended.

The garment material is a polyamide fabric, coated on each side with butyl rubber and with an additional outer layer of Viton rubber. Standard colour is yellow with orange inside. Standard sizes range from XXS to XXXL. Double stitched seams covered on the outside with a Viton rubber strip and on the inside with a fabric reinforced strip.

HCR Zipper.

Sewn on socks/booties in the suit material or attached protective Fireman SA/BF boots in accordance with EN 15090.

The Trelchem glove types, Ansell Chem Tek 38-628 or these in combination with Ansell Barrier as inner glove; are attached with the Trelchem® Bayonet ring system.

A suit ventilation system controlled with the Trelchem® ventilation regulation valve Type T is fitted as standard. An extra overpressure valve may be added on the right side of the chest as an option.

Application/Limitation

As required by SOLAS 1974 as amended, Ch. II-2 Reg.19.3.6.1 and IMO IBC Code, Ch.14.1.

The applicant's instructions for use, storage, transport, maintenance, recommendations and restrictions for use are to be complied with. See also the Classification Annex to EC Type Examination Certificate No. DK-0200-PPE-2062 version 3, Page 1 of 2.

Manufactured by Ansell Protective Solutions Lithuania, UAB, Pramonės 5K; LT-72328 Tauragė, Lithuania.

Type Approval documentation

EC Type Examination Certificate No. DK-0200-PPE-2062 version 3 dated 2017-10-25 issued by FORCE Certification Brøndby, Denmark.
User manual AlphaTec® SUPER (1709).

Test reports:

Report No.	Date	Type of testing	Testing Institute
117-21466.04b	2017-10-12	Revision of test standard – whole suit	Force Technology

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117-20950.15	2017-10-12	Cold flex cracking of AlphaTec SUPER	Force Technology
117-20950.07	2017-06-11	HCR Zipper permeation test with dichloromethane	Force Technology
112-23562.02a, b & c	2012-03-16	Barrier glove permeation test with three gaseous chemicals	Force Technology
109-21561.01f	2009-05-28	Flex cracking and resistance to flame for SUPER	Force Technology
109-21561.01e	2009-03-02	Seam strength – TS seam	Force Technology
109-21561.01e	2009-02-23	Tensile strength and puncture resistance of SUPER material	Force Technology
108-26756.01	2008-12-17	Tear resistance - SUPER	Force Technology
108-34157b	2008-07-18	Pass-through/ventilation regulation: flow pressure and mechanical test	Force Technology
A6-17672j - n	2006-03-23	Permeation tests for HCR zipper covered by flap, 5 chemicals	Force Technology
A6-17672g	2006-02-02	Integrity of bayonet ring system to VPS sleeve	Force Technology
A5-17168A-01 to -15	2005-10-25	Permeation tests for HCR zipper, 15 chemicals	Force Technology
16-04326.01	2016-08-16	Glove permeation test with dichloromethane	Centexbel
15-04925.01	2015-11-25	Permeation tests for glove type ChemTek 38-628	Centexbel
CE Type Examination Cert. No.03208454	2008-10-28	Ansell Barrier glove	Centexbel
62503/B	2008-05-16	Permeation tests for Barrier glove	Centexbel
61722	2008-03-18	Permeation tests for Barrier glove	Centexbel
7125/A 1997 & 9080/A 1997		Permeation tests for Barrier glove	Centexbel
12077/B	1999-03-17	Permeation tests for Barrier glove	Centexbel
CE Type Examination Cert. No.03207245	2007-05-31	ChemTek 38-628 glove	Centexbel
47368-52643	2017-10-05	SUPER material permeation tests, 15 chemicals	Proquares
47368-52642	2017-10-05	Visor seam permeation tests for SUPER, 15 chemicals	Proquares
47368-52641	2017-10-05	Seam permeation tests for SUPER, 15 chemicals	Proquares
41395-42763	2016-12-23	Permeation tests for glove type ChemTek 38-628	Proquares
30319-29011 30319-30321	2015-04-07 2015-03-05	Fireman SA boot permeation tests with dichloromethane	Proquares
CE Type Examination Cert. 075/005/161/07/95/0148 Rev.02	2007-07-09	Fireman SA/BF boot	CTC
CE Type Examination Cert. 075/005/161/09/07/0356 Ext. 01/09/07	2007-10-19	Fireman SA boot	CTC
22993.11.97	1997-12-01	Permeation tests for Fireman SA boot, 15 chemicals	CTC
9260/17	2017-10-12	Revision of test standard – whole suit	Dekra Exam

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7592/12	2012-10-10	Permeation tests for Fireman SA boot, 6 chemicals	Dekra Exam
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Tests carried out

EN 943-1:2015 + prA1:2017 and prEN 943-2:2017.

Marking of product

The markings are to be in accordance with EN 943-1 2015 Para 7.

Periodical assessment

DNV GL's surveyor is to be given permission to perform Periodical Assessments at any time during the validity of this certificate and at least every second year. The arrangement is to be in accordance with procedure described in Class Programme DNVGL-CP-0338, Section 4.