



TYPE APPROVAL CERTIFICATE

Certificate No:
TAF0000K7
Revision No:
2

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, Sweden

is found to comply with
DNV offshore standards
DNV rules for classification – Ships
DNV statutory interpretations DNV-SI-0364 – SOLAS interpretations, Edition July 2021

Application :

Approved as chemical protective clothing for handling of dangerous cargo and for emergency teams.

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV.

Issued at **Høvik** on **2022-12-18**

This Certificate is valid until **2027-12-17**.
DNV local unit: **Sweden Fleet In Service**

Approval Engineer: **Roland Priebe**

for **DNV**

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Jowita Permoda
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.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



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 AlphaTec Mini Hood, alternatively permanently attached Dräger Panorama Nova or Interspro 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, AlphaTec 38-628 or these in combination with AlphaTec 02-100 as inner glove; are attached with the AlphaTec Bayonet ring system.

A suit ventilation system controlled with the AlphaTec 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.

For further details refer to the documentation listed below under "Type Examination documentation".

Application/Limitation

As required by SOLAS 1974 as amended, Ch. II-2 Reg.19.3.6.1, IMO IBC Code Ch. 14.1 and 14.2.2.2 and IMO IGC Code Ch.14.1 and 14.3.2.2.

Approved as chemical protective clothing of type 1b for handling of dangerous cargo and for emergency teams.

The applicant's instructions for use, storage, transport, maintenance and the applicant's recommendations and restrictions for use are to be complied with.

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

Type Approval documentation

EC Type Examination Certificate No. DK-0200-PPE-04542 version 2 dated 2019-08-20 issued by FORCE Certification Brøndby, Denmark.

User manual AlphaTec® SUPER (2210).

Test reports and further documentation:

Report No.	Date	Type of testing	Testing institute
117-21466.04b	2017-10-12	Revision of test standard – whole suit	Force Technology
117-20950.15	2017-10-12	Cold flex cracking of AlphaTec SUPER	Force Technology
108-34157b	2008-07-18	Pass-through/ventilation regulation: flow pressure and mechanical test	Force Technology
117-24963.a	2017-08-29	Flammability Test	Force Technology
118-21047.05e	2018-07-02	Testing for trapezoidal tear resistance	Force Technology
109-21561.02r	2009-04-01	Permeation of N-Heptane through TS Antistat 43 B material seam	Force Technology
109-21561.02q	2009-04-01	Permeation of N-Heptane through TS Antistat 43 B material	Force Technology
118-21047.10	2018-07-12	Jet test with Dräger Panorama Nova and Interspro full face mask	Force Technology
118-21047.10b	2018-07-12	Integrity of attachment of FENZY Panoramasque to a SUPER type T hood	Force Technology
108-20626.01	2008-03-14	Supplementary testing	Force Technology

16-04326.01	2016-08-16	Gloves Chemtek 38-628: Permeation test with dichloromethane	Centexbel
15-04925.01	2015-11-25	Gloves Chemtek 38-628: Permeation test with NaOH 40%	Centexbel
17.04412.05	2017-10-27	Permeation tests for microbial penetration and body fluids	Centexbel
69675/l	2010-01-28	Gloves: Determination of the blade cut resistance and Permeation of liquid chemicals	Centexbel
15.01866.01	2015-10-08	Gloves Chemtek 38-628: Permeation test with NaOH 40%	Centexbel
Annex to EU Type Examination Certificate Nr. 032/2021/0848	2021-08-31	Gloves: AlphaTec® 38-628	Centexbel
EU Type Examination Certificate Nr. 032/2021/0848	2021-08-31	Gloves: AlphaTec® 38-628	Centexbel
Annex to EU Type Examination Certificate Nr. 032/2018/1697.02	2018-09-28	Gloves: AlphaTec® 02-100	Centexbel
EU Type Examination Certificate Nr. 032/2018/1697.02	2018-09-28	Gloves: AlphaTec® 02-100	Centexbel
47368-52643	2017-10-05	SUPER material permeation tests, 15 chemicals	Proquares
47368-52641	2017-10-05	Seam permeation tests for SUPER, 15 chemicals	Proquares
30319-29011 30319-30321	2015-04-07 2015-03-05	Fireman SA boot permeation tests with dichloromethane	Proquares
20190702_52643	2019-07-02	Correction	Proquares
20190702_52641	2019-07-02	Correction	Proquares
82991/84493	2020-08-10	Permeation tests with industrial chemicals on gloves	Proquares
41395/42763	2016-12-23	Permeation tests with Chlorine and Hydrogen chloride on gloves	Proquares
59974/58029	2018-03-29	Permeation tests with div. chemicals	Proquares
EU Type Examination Certificate Nr. 0075/005/161/02/19/0461	2019-02-12	Firefighters' footwear: FIREMAN SABF 36/38	CTC
9260/17	2017-10-12	Revision of test standard – whole suit	Dekra Exam
11EXAM 10558E BVS-BI	2011-06-22	Electrostatic properties	Dekra Exam
60/01817/B	2017-11-24	Induction Decay Test	BTTG
60/01817/A	2017-11-24	Surface Resistivity Test	BTTG
60/01412/B	2018-01-26	Tests on fabric	BTTG
60/01412/A	2017-12-21	Tests on fabric	BTTG
602-01513-3	2018-06-06	Protective clothing against radioactive contamination Part 2	IOM
-	2018-07-23	Technical Data Specification Alpha Tec SUPER type T-ET	Ansell
363039-303	2017-09-04	Gastight suit T model suit measurements	Ansell

Tests carried out

EN 943-1:2015+A1:2019 and EN 943-2:2019

Marking of product

The markings are to be in accordance with EN 943-1:2015 Para 7 and EN 943-2:2019 Para 9.

The product or its packing shall as a minimum be marked with the company's name and address and the same type designations as given in the TA certificate for traceability. The marking shall be permanent and unique.

Periodical assessment

DNV'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 DNV-CP-0338, Section 4.