



# TYPE APPROVAL CERTIFICATE

Certificate No:  
**TAF00000GJ**  
Revision No:  
**2**

## This is to certify:

**That the Protective Clothing**

with type designation(s)  
**AlphaTec VPS Type T-ET (previously Trellechm)**

Issued to

**Ansell Protective Solutions AB**  
**Malmö, Sweden**

is found to comply with

**DNV rules for classification – Ships**

**DNV offshore standards**

**DNV statutory interpretations DNV-SI-0364 – SOLAS interpretations, Edition July 2021**

## Application :

**Approved as protective clothing resistant to chemical attack according to SOLAS 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.**

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

Issued at **Hamburg** on **2022-01-04**

for **DNV**

This Certificate is valid until **2027-01-03**.

DNV local station: **Sweden CMC**

Approval Engineer: **Michael Oberländer**

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**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.

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.



Form code: TA 251

Revision: 2021-03

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## Product description

The AlphaTec®VPS type T-ET chemical protective clothing is classed as a Type 1b 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.

Non-encapsulating suit to be used with positive pressure breathing apparatus (complying with EN136 & EN137). Use of AlphaTec Mini Hood or SCBA cover is recommended, alternatively permanently attached Dräger Panorama Nova EPDM or Interspiro Spiromatic or Frenzy Panoramasque full face mask.

Integral socks/booties in the suit material or attached Nitrile rubber Fireman SA boots. Socks version must be used with additional protective boots of approved type.

Gastight HCR zipper in the left side reaching from top of the hood till left thigh.

Bayonet ring system with attached gloves: AlphaTec 38-628 Viton/Butyl rubber gloves in combination with AlphaTec 02-100 inner gloves or other suitable outer gloves.

A suit ventilation system controlled with 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.

The garment material is a nylon fabric, coated on the outside with chloroprene rubber and on the inside with a layer of chloroprene rubber and a polymer barrier laminate. Standard colour is yellow with an option for black/anthracite.

The available sizes are XXS - XXXL.

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

## 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.

Achieved performance levels of the protective clothing material - EN 14325:2018

Abrasion resistance (EN ISO 12947-2 modified acc. EN 14325)	Class 6
Flex cracking resistance (ISO 7854 Method B)	Class 6
Flex cracking resistance at -30°C (ISO 7854 Method B)	Class 5
Tear resistance (EN ISO 9073-4)	Class 3
Tensile strength (EN ISO 13934-1)	Class 6
Puncture resistance (EN 863)	Class 3
Resistance to flame (EN 13274-4:2001 method 3 modified)	Class 3
Seam strength (EN ISO 13935-2)	Class 6
Closure/zipper strength (EN ISO 13935-2)	Class 6

The applicant's instructions for use, storage, transport, maintenance and the applicant's recommendations and restrictions for use are to be complied with. See the Classification Appendix to EC Type Examination Certificate No. DK-0200-PPE-04538 version 2.

## Type Approval documentation

EC Type Examination Certificate No. DK-0200-PPE-04538 version 2 issued 2019-08-20 by FORCE Certification A/S. User manual AlphaTec VPS.

## Tests carried out

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

## Marking of product

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

The product or its packing shall as a minimum be marked with the company's name, trade mark 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.