

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Protective Clothing

with type designation(s)
AlphaTec EVO type CV-ET and type VP1-ET

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.

Issued at **Hamburg** on **2021-04-30**

This Certificate is valid until **2026-04-29**.

DNV local station: **Sweden CMC**

for **DNV**

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.



Product description

The AlphaTec® EVO type CV-ET and type VP-1-ET chemical protective clothing is classed as a Type 1a-ET gas-tight, encapsulating, chemical protective suit with visor (VP-1 with large visor, CV with standard visor), where the breathable air supply is worn inside the suit. These suit types may be used by emergency teams.

To be used with a self-contained breathing apparatus approved according to ISO 23269-3:2011 and an approved positive pressure full face mask according to EN 136.

The garment material is a flame-retardant aramid fabric, coated on the outside with antistatic butyl rubber and an additional top layer of Viton® rubber. On the inside a layer of chloroprene rubber and a multilayer barrier laminate. Standard colour is red (olive green as option). Standard sizes range from XXS to XXXL. Double stitched seams covered on the outside with a Viton® rubber tape and on the inside with a welded-on barrier laminate tape.

HCR gastight zipper (1350 mm long).

Sewn-in socks in the suit material or attached Nitrile Firemen's boots in accordance with EN 20345 and EN 15090.

Visor made from 2mm thick PVC and fitted with an antistatic tear-off lens on the outside.

2-part glove system consisting of Barrier® #02-100 inner glove and AlphaTec #38-628 viton/Butyl outer glove, attached with the Alphatec® Bayonet ring system.

A suit ventilation system controlled with the AlphaTec® ventilation regulating valve type CV/VP1, which is connected to the SCBA. Two overpressure valves are placed in the back of the hood.

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. 0200-PPE-04537 version 2.

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

Type Approval documentation

- EC Type Examination Certificate No. 0200-PPE-04537 version 2 dated 2019-08-20 issued by FORCE Certification Brøndby, Denmark.
- User manual AlphaTec® EVO
- Technical Data Specification
- Drawings: 363039-302 Rev.A "Gastight suit CV model suit measurements"
- 363039-301 Rev.A "Gastight suit VP1 model suit measurements"

Test reports:

Report No.	Date	Type of testing	Testing Institute
115-24375.01	2016-04-14	Test of exhaust valves	Force Technology
116-24375.01	2016-04-14	Test of exhaust valves	Force Technology
117-21466.04a	2017-10-12	Alpha Tec Super CV and VP1 whole suit properties	Force Technology
117-20950.03	2017-04-04	Strength of attachment points for lifeline	Force Technology
117-20950.07	2017-06-11	Dynat HCR Zipper permeation test with dichloromethane	Force Technology
117-20950.16	2017-12-07	Leak tightness of valves	Force Technology
117-21466.04c	2017-10-12	Tests for whole suit properties	Force Technology
118-21047.4b	2018-05-18	Permeation of Dichloromethane	Force Technology
118-21047.4d	2018-05-18	Permeation of Ammonia	Force Technology
118-21047.05b	2018-07-02	Flex cracking -30°	Force Technology

118-21047.06a	2018-07-06	EVO type CV whole suit properties	Force Technology
118-21047.10	2018-07-12	Jet test with Dräger Panorama Nova and Interspiro full face masks	Force Technology
K1432-027b	1997-09-19	Visor: resistance against 15 chemicals	Force Institute
108-26756.01	2008-12-18	Passthrough test	Force Technology
E-002313	2018-03-26	EVO red, tests on coated fabric	BTTG
E-003931	2018-05-18	EVO red, tests on coated fabric	BTTG
E-003951	2018-06-26	EVO green, tests on coated fabric	BTTG
48722-54636	2017-12-18	EVO green, permeation tests fabric	ProQuares
48704-54497	2017-12-21	EVO red, permeation tests suit seam	ProQuares
48704-54498_V2	2018-06-19	EVO red, permeation tests fabric	ProQuares
48704-54499_V2	2018-07-02	EVO red, permeation tests visor seam	ProQuares
46689-51813	2017-08-31	Visor: Permeation tests with chemicals	ProQuares
51922-58034	2018-06-14	Zipper HCR: Permeation tests with chemicals	ProQuares
CE Type Examination Cert. 075/005/161/09/07/0356 Ext. 01/09/07	2017-11-30	Fireman SA boot	CTC
EU Certificate 032/2018/0535	2018-03-20	AlphaTec 38-628 gloves	Centexbel
EU Certificate 032/2018/1697	2018-09-28	AlphaTec 02-100 gloves	Centexbel
11EXAM10330	2011-04-08	Electrostatic properties	Dekra Exam

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.

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.