AlphaTec®
ADVANCED CHEMICAL PROTECTION

Flame retardant, multi-layer, re-usable chemical barrier technology, Type 1 / Level A protection

Previously known as: TRELLCHEM® FLASH Type CV/VP1

Durable flame-retardant protective suit, guarding against chemicals and various hazards.



- **Specialized protection:** The AlphaTec® EVO Type CV/VP1 protective suit's chloroprene rubber over aramid base fabric ensures flame, chemical and abrasion resistance
- **Assured defenses:** Satisfying NFPA 1991(1990) standards, this chemical protective suit is proven to guard against chemical flash fires and liquefied gas, among others
- **Improved convenience:** Its encapsulating design fits on top of most major SCBA brands and bottle sizes, for truly practical, heavy-duty personal protection
- **Proven capabilities:** The AlphaTec® EVO Type CV/VP1 also adheres to PyroMan™ thermal protection norms, delivering tried and tested protection against thermal hazards

Industries

- Food Processing
- Life Sciences
- Chemical
- Industrial
- Law Enforcement
- Fire and Rescue
- Defense
- Military
- Oil and gas

Applications

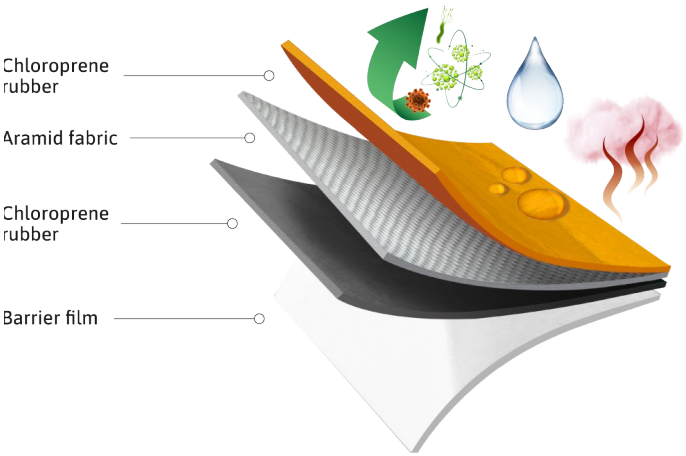
- Maintenance of plant and machines
- Plant Emergencies
- Accidental release of toxic gases
- Biohazard response
- Unexpected leakages spills or other releases
- Tank Cleaning
- CBRN Emergencies
- Chemical leaks
- Emergency Response
- Hazmat response

KEY FEATURES & BENEFITS

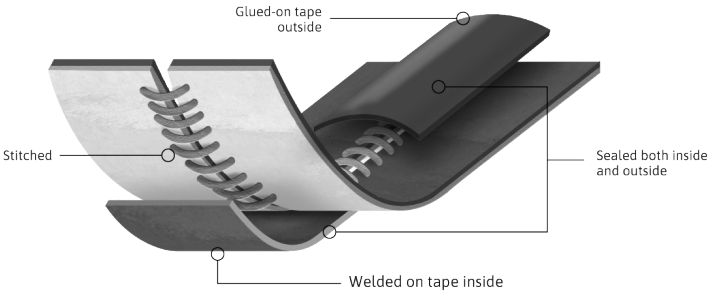
- **Chloroprene and aramid fabric:** Strong flame* and abrasion resistance
- **NFPA 1991(1990) standard:** Chemical flash fire and liquefied gas protection
- **Encapsulating design:** Compatible with major SCBA brands and bottle sizes

*PyroMan™ tested for thermal protection

Material Diagram



Seam Diagram



Performance Standards



Product Information

Product Information	
Available Sizes	2XS, XS, S, M, L, XL, 2XL, 3XL
Color	Orange, Olive Green
Country Of Origin	Lithuania
Packaging Overview	Individually Packed
Product Material	Outer aramid fabric coated with chloroprene rubber. Inner chloroprene rubber and a multilayer barrier laminate.
Standards Overview	• NFPA 1990 (NFPA 1991), incl. the optional Chemical Flash Fire & Liquefied Gas protection requirements* • EN 943-1:2015 + A1:2019 • EN 943-2:2019 • EN 1073-2:2002 (radioactive particle protection) • EN 14126:2003 (infective agent protection) • EN 1149-5:2008 (antistatic suit material) • Approved for use in ATEX zones 2/21, 22 and chemical group IIA * Only encapsulating suits with sewn-in socks/booties.
Seam Type	Stitched and covered with chloroprene rubber tape on the outside and a barrier laminate tape on the inside
Shelf Life	7 years

Suit components & accessories

Suit Components and Accessories	
Design Features	**Type CV**: Encapsulating design with hump and visor, breathing apparatus worn inside the suit. **Type VP1**: Encapsulating design with hump and larger visor, breathing apparatus worn inside the suit.
Visor And Face Seal	• Visor made from a rigid 2 mm impact and chemical resistant PVC • Comes in two optional sizes; CV or the larger VP1 • Covered by a replaceable, antistatic Tear-off/ATEX lens;
Gloves And Attachments	2-part system with AlphaTec® 02-100 barrier inner glove and AlphaTec® 38-628 Viton®/Butyl rubber glove. The gloves are attached with the AlphaTec® Bayonet glove ring system, which offers quick and simple glove exchange. NFPA 1991(1990) certified suits have a 3-part glove system with the above plus the AlphaTec® 58-800 Overglove for additional cut protection.
Footwear And Attachments	Sewn-in socks/booties made of the suit material. Alternatively attached black nitrile rubber safety boots with European approval as Firemen's boots. The boots are fixed with an ergonomically designed ring attachment, for simplified boot exchange. NFPA 1991(1990) certified suits have sewn-in socks.
Zipper	AlphaTec® HCR zipper, which includes a barrier film for increased chemical resistance. The zipper is closing downwards, for added safety, and is protected by a flap/splash guard.
Ventilation	A ventilation system is included as standard. For the safety of the wearer, it provides a constant level of overpressure inside the suit. The AlphaTec® Regulating valve has 3 ventilation rates (2, 30 and 100 l/min) plus zero/off position. CEJN 221 male coupling for connection to the SCBA (requires separate connection hose). Two AlphaTec® Exhaust valves in the back of the hood.
Optional Features And Accessories	• AlphaTec® Combined Regulating valve & Airline passthrough • Anti-fog lens • AlphaTec® Hands-free Visor Light system • Internal waist belt & leg shortener for size adjustment • Manometer holder and inside pockets & loops for radio, PTT etc. • D-ring for holding small measuring instruments & tools • Customized marking, e.g. digits, letters, logos • AlphaTec® 58-800 Overglove for improved cut & puncture resistance • Other accessories are available upon request
Included With Each Delivery	• 1 pce inside hump protective foam • 1 pair of comfort inner gloves • 2 pcs extra locking pins for the Bayonet glove ring system • 1 pce Molycote lubrication for the O-rings in the Bayonet glove ring system • 1 pce grease stick for lubrication of the zipper • 1 pair of comfort silicone oversocks (only for suits with sewn-in socks) • 1 pce coat hanger • 1 pce AlphaTec® Storage bag

For additional in formation visit us at www.ansell.com, or call us at

Europe, Middle East & Africa Region
Ansell Healthcare Europe NV
T: +32 (0) 2 528 74 00

North America Region
Ansell Healthcare Products LLC
T: +1 800 800 0444

Australia
Ansell Limited
T: +61 1800 337 041

Asia Pacific Region
Ansell Global Trading Center
T: +603 8310 6688

Latin America & Caribbean Region
Ansell Commercial Mexico S.A. de C.V.
T: +52 442 248 1544 / 248 3133

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