



Chemical Protective Suits Instructions for Use **AlphaTec® TRAINER**





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1. Safety considerations

- These instructions for use (IFU) are valid only for AlphaTec® TRAINER*.
- The suit may only be used by trained personnel who are familiar with the contents of this IFU.
- Use the suit only for the purposes specified herein.
- Do not use a damaged or incomplete suit, and do not modify the suit.
- For repair and maintenance, only use genuine AlphaTec[®] (TRELLCHEM[®]) spare parts, or the function may be impaired.

1.1 Definitions of signal icons used in the instructions

The following icons are used in this IFU to highlight the user on situations or actions that need special attention not to risk the safety of user, suit or environment.



WARNING

Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.



CAUTION

Indicates a potentially hazardous situation which, if not avoided, could result in physical injury, or damage to product or environment.



NOTICE

Indicates additional information on how to use the suit.

* Formerly known as TRELLTRAIN.

1.2 Definitions of pictograms used on the suit label



2. Description of suit

AlphaTec® TRAINER is

- A training suit
- Intended for use with a self-contained breathing apparatus (SCBA) and a full-face mask*
- Re-usable

AlphaTec® TRAINER is available in the following designs:

- Type CV: Encapsulating suit/type 1a, designed for use with an SCBA worn inside the suit.
- **Type VP1**: Encapsulating suit/type 1a with extra large visor, designed for use with an SCBA worn inside the suit.
- Type T: Non-encapsulating suit/type 1b, designed for use with an SCBA worn outside the suit.

The suit is fitted with:

- Sewn-in socks or attached safety boots
- Replaceable gloves
- Suit ventilation

The following accessories are delivered with every suit:

- Cotton comfort inner gloves
- Silicone coated oversocks, if fitted with sewn-in socks
- Mini Hood, if non-encapsulating/type T suit
- Maintenance kit for zipper and Bayonet ring system
- Extra safety locking pins for the Bayonet ring system
- Suit hanger
- Black plastic bag
- Instructions for use

* The suit will accommodate the major brands of SCBAs, such as Interspiro, Scott, Dräger and MSA. For European users the SCBA must be certified to EN 137.

The suit has to be worn with safety boots, if sock version, and a safety helmet.

For more information about materials, components & accessories, see chapter 11.

3. Approvals



AlphaTec[®] TRAINER is a training suit, intended for training only. It is not tested or certified as personal protective equipment (PPE).

4. Proper use

4.1 Intended use

AlphaTec® TRAINER is intended for training only.

4.2 Limitations of use



This suit is intended for training only and does not offer any chemical protection.

4.3 Temperature of use

- 40°C to +65°C

5. Pre-use

Before use, make sure:

- The suit and gloves have the correct size (see chapter 11.1)
- Type T suit: The elastic band is properly adjusted and installed (see chapter 5.2.1)
- Anti-fog visor or anti-fog gel is applied to the inside of the suit visor (see chapter 11.6)
- Anti-fog gel is applied to the outside of the mask visor
- To wear undergarments suited for the situation, e.g. station wear or fire turn-out gear. If cold weather, wear insulating underwear.



Never use this suit in a situation with real chemicals.

5.1 Donning – Encapsulating (type CV/VP1) suit



Always have an assistant to help you while donning and try to find a clean area to stand on.

1) (Sit on a chair) Place both legs into the suit and into the sewn-in socks or boots.

2) If sewn-in socks, then put on the silicone oversocks and then put on the safety boots.

3) (Stand up) Put on the breathing apparatus (SCBA) and the mask and open the air flow.

4) Put on the helmet.

5) Put on the comfort gloves. Insert the right arm into the right sleeve and glove.

6) Pull the hood over your head and the hump over the cylinder.

7) Insert the left arm into the left sleeve and glove.

8) Connect the ventilation hose to the inlet of the valve.



9) Close the zipper and fold the splash guard over it. Pull the zipper straight, using two hands. Never force it! If it jams, gently pull it back and try again. Make sure the zipper is fully closed.



Handle the zipper with care.



5.2 Donning – Non-encapsulating (type T) suit

5.2.1 Hood adjustment

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The elastic band shall be attached before the suit is donned.

The suit is delivered with a separate elastic band intended to be used inside the hood to get a tight fit of the face seal around the face. It is optional to use but it is recommended if the wearer has a small or narrow face. When fitted in the hood the elastic band makes it possible to adjust the fit of the face seal.

1) The elastic band is shaped as a cross. Place the cross "upside down" inside the hood (sewn arrow pointing down).



2. Attach the band in the loops inside the hood, using the Velcro closing.





There are three loop positions to be able to adjust the band in height to obtain an optimal fit, which is individual for each user.

5.2.2 Donning the suit



Always have an assistant to help you while donning and try to find a clean area to stand on.

- 1) (Sit on the chair) Place both legs into the suit and into the sewn-in socks or boots.
- 2) If sewn-in socks, then put on the silicone oversocks and then put on the safety boots.
- 3) Put on the comfort gloves. (Stand up) Insert the right arm into the right sleeve and glove.
- 4) Insert the left arm into the left sleeve and glove.
- 5) Pull the hood over your head and adjust the face seal.
- 6) Close the zipper and fold the splash guard over it. Pull the zipper straight, using two hands. Never force it! If it jams, gently pull it back and try again. Make sure the zipper is fully closed.



Handle the zipper with care.

- 7) Put on the breathing apparatus, except the mask.
- 8) Connect the ventilation hose to the inlet of the Regulating valve.



- 9) Put on the face mask. Position it on top of the grey face seal. Start at the chin and make sure the face mask tightens against the face seal (not to the suit material). Pull the harness over the head and tighten the straps.
- 10) Have someone check the mask position and make sure there are no folds on the face seal, which can cause leakage.
- 11) If expected liquid splash, also put on the Mini Hood.
- 12) Put on the helmet. Ready.

6. In use

6.1 Procedure for checking manometer/pressure gauge



Applicable to encapsulating (type CV/VP1) suits.

To check the manometer/pressure gauge, the hand has to be retracted from the glove:

- 1) Grab the right glove with your left hand
- 2) Pull the right hand into the suit
- 3) Check the manometer/radio/other
- 4) Put the right hand back into the glove again
- 5) To pull the left hand into the suit, instead grab the left glove with your right hand

6.2 Regulating the suit ventilation



Suit ventilation is optional to use.

- 2 litres/minute: The recommended ventilation rate, which gives an overpressure in the suit and thereby protects against chemicals coming into the suit in case of a puncture.
- 30 litres/minute: When the air inside the suit gets moist and warm, the user can choose to temporarily adjust the ventilation rate to 30 litres/minute while at the same time compressing the suit. This exercise empties the suit of moist and warm air, which will provide a slightly more comfortable inside environment in the suit.
- 100 litres/minute: Increases the comfort for the user, but shall be used only if the suit is fitted with an airline passthrough (applicable to CV/VP1 suits) with external air-supply.



Never use 100 litres/minute ventilation rate if only the SCBA cylinder is used, as this will empty the air quickly, leaving the user without breathing air and risk of suffocation.

7. After use

After use/training, clean and take care of the suit in accordance with chapter 9.

8. Storage



When stored the suit should be unfolded and inspected once a year (see chapter 9).

8.1 Storage conditions

- Dry, humidity 50 ± 30%
- Room temperature, 5 30 °C
- Away from direct sunlight
- Away from ozone-generating sources, for example electrical engines, fluorescent lamps
 and air-conditioners

8.2 Storage methods

The suit should be stored:

- Folded as upon delivery or hanging
- In the plastic bag delivered with it or in another tight bag or box
- If stored in a soft bag, never store suits on top of each other, as too much weight or high pressure may damage the visor
- If stored in a box, make sure the box is large enough to easily accommodate the suit without pushing, pressing or squeezing it
- If stored hanging, suits with boots should have the boots on the floor to avoid excess strain on the shoulders
- If stored folded, the face seal should be as flat as possible, avoiding sharp folds
- The zipper should be almost closed with approximately 10 cm open

8.3 Shelf life

Shelf life refers to suits in storage, without being used. The storage/shelf life applies under optimal storage conditions (see above) and does not form a guarantee. The recommended Shelf life is 7 years from date of manufacture but this may be exceeded or be less, however maximum 15 years. Therefore the condition of the suit needs to be checked regularly to evaluate whether it is in good condition or not (see chapter 9).

8.4 Folding the suit

1) Close the zipper with approx. 10 cm open.



- 2) Turn suit upside down.
- a) Type CV/VP1: Fold the hump flat.



3) Fold the sleeves to the middle.



- 4) Fold the legs as follows:
- a) Boot model: Fold the boot to the waist.



b) Sock model: Fold the sock into the leg and then fold the leg to the waist.



5) Fold the suit on the middle.



a) If type T suit: Make sure to place the face seal as flat as possible.



6) Place the suit in the storage bag or storage box.

9.1 Maintenance schedule

The specified intervals below are Ansell recommendations. For auxiliary equipment (SCBA, full-face mask, helmet etc.), refer to the relevant Instructions for Use.

The maintenance described below can be done by personnel without formal training, provided the instructions in this IFU are followed. For a list of spare parts & accessories, see chapter 11.6.

Area (chapter)	Upon Delivery	After Use	After Repair	Annu- ally	Every 5 years	lf Broken
Visual inspection (9.2)	х	Х	Х	Х		
Cleaning (9.4)		Х				
Lubricate zipper (9.5)		Х		Х		
Lubricate Bayonet O-Rings (9.6)		Х		Х		
Repair & Replacements						
Patching suit material (9.11)						х
Barrier inner gloves (9.7)						Х
Rubber gloves (9.7)						х
Rubber cuff (9.8)					х	х
Face seal					х	х
Bayonet O-rings (9.6)					х	х
Bayonet locking pins (9.6)					х	х
Diaphragm in Exhaust valve (9.9)					х	х
Service of Regulating valve ક્ષ Passthrough (9.10)					х	х



For repair or replacement of face seal, visor, boots and zipper, contact an Ansell Service Center, or take a Training course provided by Ansell.

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9.2 Visual inspection of suit

The inspection shall consist of the following steps:

- Visual inspection of both inside and outside.
- Look for damages on material, seams, visor or face seal, boots (if fitted), inner and outer gloves.
- Check function of zipper and zipper fitting.
- Check function of the Bayonet glove ring system
- Check the function of the exhaust valves and, if fitted, suit ventilation regulating valve/ passthrough. Make certain that they are firmly mounted and not damaged.



If any defect/malfunction is found, the suit must be taken out of service.

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Note any remarks, found during the inspection, in the inspection log.

9.3 Cleaning

For decontamination guidelines, see chapter 7.

9.3.1 Hand wash

Ansell recommends hand washing the suit:

- Hand wash in warm water (40 °C) with added mild detergent.
- Use a piece of soft rag or a smooth brush to clean the suit.



Care should be taken not to scratch or damage the material.

- Let the suit air-dry or use a fan (alternatively a cleaning system such as the TopTrock[®] may be used).
- Stains of oil or other substances may be washed off carefully with white spirit, after which the suit should be rinsed with lukewarm water with a mild detergent followed by water.



Do not use garments that are not thoroughly cleaned and dried.

The suit material will withstand most commercial disinfectants. Your AlphaTec[®] dealer or Ansell Protective Solutions AB may be contacted for advice.

9.3.2 Machine wash

If the customer uses washing machine, the machine should be specially designed for washing chemical protective suits:

- Large diameter of the drum
- Using extra amounts of water
- No rotating drum but only oscillating drum
- Mild washing powder



Machine washing the suit is the customer's choice and responsibility.

AlphaTec® dealer or Ansell Protective Solutions AB may be contacted for advice.

9.4 Zipper

9.4.1 Function

The zipper is an important part of the suit and also a delicate piece of equipment, that has to be handled carefully.



A damaged zipper can cause serious injury.

- Pull the slide using two fingers in the loop attached to the slide.
- Always pull the slide parallel and straight along the zipper. A pull sideways may seriously damage the zipper.
- When closing, make sure that neither suit material nor undergarment material is caught in the zipper.
- If the slide gets jammed or is hard to pull, then pull it back, trace the reason (e.g. dirt or clothing material caught in the chain) and solve the problem. Then slowly try to pull it again.
- Never try to overcome a problem by pulling harder as this will damage the zipper.

9.4.2 Maintenance

Procedure:

- 1) Make sure the metal elements are clean.
- 2) Open the zipper.
- Check along each side of the chain for damage by carefully bending the chain:
 a) A healthy zipper has a rounded bend.



b) A broken zipper has a V-shaped bend.



- 4) Close the zipper.
- 5) Lubricate the metal elements, inside and outside, with the wax stick.



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9.5 Bayonet ring

9.5.1 Function

The AlphaTec® (TRELLCHEM®) Bayonet ring system consists of the following parts:

Sleeve ring – glued to the suit sleeve
Glove ring – where the glove is mounted
Inner ring*– goes inside the shaft of the rubber glove
Viton® rubber O-rings – one in the sleeve ring and one in the glove ring. Together with the rubber glove they provide a triple sealing of the system.
Safety locking pin – prevents the system from unintentional opening



Closed position

Green marks opposite white marks. To open the system and detach the glove assembly, remove the red locking pin, push the two rings together and twist counter-clockwise until the white marks meet.



Open (detach/attach) position

White marks opposite white marks. To attach the glove ring, match the white marks, push the two rings together and twist clockwise until the white marks meet the green marks. Insert the red locking pin.

* If the suit is fitted with a 2 or 3-part glove assembly that includes the inner Barrier glove, then the inner ring is welded to the Barrier glove shaft.

9.5.2 Maintenance

Procedure:

- 1) Open the Bayonet ring and take out the two O-rings.
- 2) Apply Molycote all around the groove.
- 3) If replacing the O-rings: Put the two new O-rings into place.
- 4) Use a small paintbrush to spread the grease evenly.





The two O-rings are different size: The one with larger diameter goes into the glove ring and the smaller diameter into the sleeve ring. When functioning properly, the safety locking pin "snaps" into place when pushing it with a finger. The pin may after repeated use become too easy to push into place, i.e. it gets worn out, and must then be replaced.



9.6 Replacing gloves

The suit can be fitted with either a single rubber glove or a 2-part glove system consisting of inner Barrier glove and outer rubber glove.

Procedure:

- 1) Take out the Safety locking pin.
- 2) Push the rings towards each other, then turn clockwise, to open the ring system.



 Pull the gloves out of the ring. If double glove system, pull the inner barrier out of the rubber glove.



If only rubber glove, continue with step 8.

 Only Barrier[®] inner gloves that are welded to an inner ring can be used.



5) Remove the white protective film on each finger of the inner glove. This will uncover a sticky area that holds the inner glove in place and keeps it inside the outer glove when the hand is retracted.



6) Push the inner glove into the outer rubber glove. Make sure all fingers of the inner glove come into position all the way inside the fingers of the outer glove.



 Press the fingers of the outer and inner gloves together so that they stick together.



- 8a) If only rubber gloves, place the black inner ring approximately 5 cm/2 inches into the rubber glove.
- 8b) If double glove system, push the ring of the inner glove approximately 5 cm/2 inches into the rubber glove.



9) If double glove system, put one hand inside the gloves and curl a fist. At the same time, put a finger of the other hand between the ring and the outer glove to release air that is trapped between the gloves.



- 10) Lubricate the O-rings with Molycote.
- 11) Push the glove through the glove ring and align the thumb of the glove with the green mark on the glove ring. Push it firmly into place using your thumbs.



12) Fold the glove shaft into the glove ring.

- 13) Position the glove ring and the sleeve ring so that the two white marks are opposite each other.
- 14) Now push the two rings towards each other and turn counter-clockwise, so that the white and the green marks meet.



15) Attach the safety locking pin.

9.7 Replacing rubber cuff

The rubber cuff is an optional accessory, which adds safety if the outer glove is punctured.

Procedure:

1) Pull out the old cuff from inside the suit sleeve.



2) Push the new cuff ring assembly into the sleeve ring from inside the suit.



 Make sure the cuff is aligned straight. Push it firmly into place. Make sure no suit material gets caught between the cuff and the sleeve ring.



9.8 Replacing rubber diaphragm in AlphaTec Exhaust valve



Follow these instructions to remove the cover from the AlphaTec[®] exhaust valve.

Lay the suit out on a flat surface and locate the exhaust valve on the chest.



When removing the valve cover, do not hold the inner valve retaining collars, as this may loosen the valve from the suit.

Procedure:

1) To remove outer valve cover, first rotate cover clockwise so the cover lug is 6-8 mm past the valve body stop.



 Carefully insert a thin blade (do not use a knife) between the "cover lug and the body stop.





Do not try to lever the lug and valve body stop apart, as this could damage the exhaust valve.

 Slowly turn valve cover anti-clockwise over the blade, this allows the cover lug to move past the body stop.
 Repeat this action until the valve cover is unscrewed from the valve body



4) Remove the old diaphragm and scrap it.



- 5) Check that the new diaphragm is clean before mounting it.
- 6) To refit the exhaust valve cover, screw the cover clockwise onto the valve body, turning the cover until there has been 3 clicks on the cover lug and valve body stop.

Take care not to cross thread.



The suit must be pressure tested before it is used again.

9.9 Service of Regulating valve & passthrough

Instructions are enclosed with the AlphaTec® (TRELLCHEM®) Service Kit (see chapter 11.6).



The maintenance interval described in the maintenance schedule above applies only if the fitted valve/passthrough is of AlphaTec® (TRELLCHEM®) brand. For passthroughs of other brands, please see the manufacturer's instructions.

9.10 Patching

Minor damage, e.g. tears, punctures, scratches, can be patched using the AlphaTec[®] (TRELLCHEM[®]) Repair Kit, which also contains instructions (see chapter 11.6).

9.11 Marking on the suit

Marking on the suit can be made by a "permanent marker" type of pen.



Make sure the ink has dried before folding/packing the suit for storage.

Special labels for marking of the suit are available as an option.

10. Disposal

Worn out suits should be disposed of according to local regulations for rubber/plastic waste. Incineration is recommended.

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11. Technical Data Package

SUIT SIZE	HEIGHT (cm)	CHEST/BUST GIRTH	
XXS	158-170	80-88	
xs	164-176	84-92	
S	170-182	88-96	
М	176-188	92-100	
L	182-194	96-104	
XL	188-200	100-108	
XXL	194-206	104-112	
XXXL	200-212	108-116	
NOTE: The data refers to a wearer without SCBA or any other equipment.			

11.1 Suit sizes

11.2 Suit weight

Approx. 5.0 kg / 11 lbs for a type CV/VP1 suit size L with sewn-in socks. Approx. 4.5 kg / 10 lbs for a type T suit size L with sewn-in socks. Attached boots or separate safety boots add approx. 2 kg / 4.5 lbs.

11.3 Suit colour

Green on both sides.

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11.4 Materials

Suit part/Component	Description
Suit material:	Polyester fabric coated on both sides with PVC.
Visor material:	2 mm high impact resistant PVC
Face seal material:	Natural rubber/Chloroprene rubber
Glove materials: Rubber glove: Rubber cuff:	AlphaTec® #08-354 made from Neoprene (chloroprene) rubber Chloroprene rubber
Footwear material: Sewn-in sock: Attached boot:	Made of the suit material PVC
Zipper material:	Heavy-duty watertight zipper protected by an outside splash guard, closing with Velcro.
Length:	Type CV/VP1 suits: 1350 mm Type T suits: 1050 mm
Таре:	Polyester fabric coated with chloroprene rubber on the outside and inside and with a built-in barrier film (HCR zipper)
Chain: Slide:	White copper alloy Bronze (copper/tin alloy)
Exhaust valves:	Encapsulating suits: 2 pcs/suit, placed in the back of the hood Non-encapsulating suits: 1 pce/suit, placed on the chest
	Construction:
Valve seat/washer/	Class fibre reinforced polypropylope
Valve/Suit gasket:	Chloroprene rubber
Diaphragm	
(membrane):	Silicone

11.5 Seam types & attachments

Seam/Attachment	Description
Suit material seam:	HF welded seam
Visor attachment:	The visor is glued to the suit and sealed both inside and outside.
Inner tape: Outer tape:	Textile reinforced rubber coated tape, glued to the seam Viton® rubber tape, glued to the seam
Face seal attachment:	The face seal is glued to the suit and sealed both inside and outside.
Inner tape: Outer tape:	Textile reinforced rubber coated tape, glued to the seam Viton® rubber tape, glued to the seam
Glove attachment:	Gloves are attached with a Bayonet ring system (see chapter 9.6). The ring is glued to the suit.
Boot attachment:	Boots are attached with a metal band/plastic ring system.
Zipper attachment:	The zipper is stitched to the suit and sealed both inside and outside:
Thread: Inner tape: Outer tape:	Polyester Textile reinforced rubber coated tape, glued to the seam PVC tape, glued to the seam
Exhaust valves:	Attached to the suit with a screw and nut
Regulation valve & Passthroughs:	Attached to the suit with a screw and nut

11.6 List of spare parts & accessories

Description & Name	Sizes	Article no
Gloves:		
AlphaTec [®] #08-354 Neoprene rubber glove	9 10	K72 250 160 K72 250 170
AlphaTec [®] #58-800 Overglove	11	K72 252 115
Cotton comfort glove	10	K72 240 200
Footwear:		
PVC Safety boot	41 42 43 44 45 46 47	K72 203 410 K72 203 420 K72 203 430 K72 203 440 K72 203 450 K72 203 460 K72 203 470
Visor/face seal accessories:		
Anti-fog lens	CV VP1	K72 270 400 K72 270 300
Anti-fog gel		K69 000 710
Tear-off (anti-scratch) lens, 10 pcs	CV VP1	487 030 050 487 030 040
Hands-Free Visor Light*	CV VP1	487 030 101 487 030 100
Face seal		K72 502 000
Suit ventilation & Airline Passthrough:		
AlphaTec [®] (TRELLCHEM [®]) Regulating valve*	CV/VP1 T	K72 141 600 K72 141 500
AlphaTec® (TRELLCHEM®) combined Regulating valve & Passthrough*	CV/VP1	Contact your supplier or Ansell
Storage:		
AlphaTec [®] Bag		487 100 600
Hanger	CV/VP1 T	K72 400 200 K72 400 100
Storage box, plastic	CV/VP1 T	K78 700 130 K78 700 120

Description & Name	Sizes	Article no
Maintenance & Repair:		
Zipper wax kit		K70 000 410
Lubrication for Bayonet ring system		K69 095 005
Viton O-rings for Sleeve ring, 10 pcs		K72 000 606
Viton O-rings for Glove ring, 10 pcs		K72 000 611
Safety locking pin for Bayonet ring system		K73 103 585
AlphaTec [®] Exhaust valve, complete		K73 103 000
AlphaTec [®] Exhaust valve diaphragm		K73 102 050
Service kit AlphaTec® (TRELLCHEM®) Regulating valve & Passthrough*		K72 141 100
Repair kit for AlphaTec® TRAINER, green*		487 080 079

*Instructions included

11.7 Material data

SUIT MATERIAL AND SEAM - MECHANICAL DATA					
PROPERTY	TEST METHOD	PERFORMANCE			
Abrasion resistance	EN 530	> 2000 cycles			
Flex cracking resistance	ISO 7854:B	> 100000 cycles			
Flex cracking -30°C	ISO 7854:B	> 4000			
Tear resistance	EN ISO 9073-4	> 60 N			
Tensile strength	EN ISO 13934-1	> 1000 N			
Puncture resistance	EN 863	> 100 N			
Seam strength	ISO 5082, annex A2	> 500 N			

12. Warranty

In case of faults or defects, if any, in the protective suits, including gloves and other accessories, the following is applicable:

If a fault or defect appears in the protective suit as a result or in the course of any use, function or state of the protective suit, the purchaser is requested to contact the company from which the suit was purchased. The terms of sale agreed upon between the purchaser and the said company shall apply in this case. Ansell Protective Solutions AB shall have no liability to purchasers of the protective suits other than when the suit in question was purchased directly from Ansell Protective Solutions AB.

The liability of Ansell Protective Solutions AB for faults or defects of a protective suit shall be subject to the Standard Warranty set forth in its General Conditions of Delivery for Industrial Rubber Products, unless otherwise stated in a separate agreement in writing between Ansell Protective Solutions AB and the purchaser. The General Conditions of Delivery are available on request and for download on http://protective.ansell.com/en/ About/Trade-conditions/

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