



Product Specification Trelchem[®] ACT

PRODUCT NOMENCLATURE

Product Name:	Trelchem [®] ACT
Style number:	66-800 Series (see also below "Models within Series")
APS Article number:	201520000

MODELS WITHIN SERIES

66-810	Trelchem [®] ACT with Bayonet rings & gloves	XS – XXXL	66-812	Add-on Padding on knees & elbows	One size
66-811	Trelchem [®] ACT with permanently attached gloves	XS – XXXL	66-812	Add-on Reflective tape on sleeve & legs	One size
			66-812	Add-on Pocket (max 3 pcs)	Small & Large

PRODUCT DESCRIPTION

Design:	Non-encapsulating/Level B chemical protective suit with integrated mask seal for sealing to a full-face mask. Attached rubber gloves and sewn-in socks/booties in the garment material. To be worn with SCBA outside the suit.
Garment material:	Coretech [®] material, which combines polyester fabric and a fluoropolymer barrier.
Garment seams:	Stitched with aramide thread and heat sealed with a barrier laminate tape.
Mask seal:	Butyl rubber 28 mil (0.7 mm), 3D shaped.
Gloves:	Comasec Butyl Plus rubber gloves 28 mil (0.7 mm) and knitted Overgloves made from DuPont [™] Kevlar [®] Fiber.
Zipper:	Water repellent zipper with double splash guard, 41.3" (105 cm) long.
Color:	Black with white inside.
Sizes:	XS, S, M, L, XL, XXL, XXXL
Weight:	Approx. 5.5 lbs (2,5 kg)
Certification/Approvals:	Certified to NFPA 1994 – Standard on Protective Ensembles for First Responders to CBRN Terrorism Incidents.

OUTSTANDING CHARACTERISTICS

- ▶ Offers first response protection against chemical and biological warfare agents. Certified to NFPA 1994 class 2.
- ▶ Lightweight and supple, yet tough, the Coretech[®] garment material adds outstanding comfort and allows the wearer focus on the task.
- ▶ Seams are both stitched and heat-sealed in order to achieve the same high protection level as the garment material.
- ▶ Trelchem[®] Bayonet rings with replaceable gloves or permanently attached gloves for enhanced handling of weapons.
- ▶ Hood with 3D shaped mask seal, offering excellent sealing to the full-face mask.
- ▶ Padded shoulder area helps spreading the weight of the SCBA, hence increasing the comfort.
- ▶ Zipper placed diagonally on the front for easy donning and doffing. Closing downwards to give the wearer possibility to check that the zipper is closed.
- ▶ Elastic in the waist and a hood neck strap for optimal fit.
- ▶ Possibility to customize the suit with additional paddings on elbows and knees, reflective tapes on sleeves & legs as well as different size pockets.

APPLICATIONS

First Response to CBRN Terrorism Incidents by First responders, Law enforcement, Hazmat teams.

GARMENT MATERIAL PROPERTIES

Property	Test Method	Requirement	Result
Weight, nominal	-	-	13 oz/yd ² (440 g/m ²)
Burst Strength	ASTM D751	> 156 N	1144 N
Puncture Prop. Tear (Machine direction/Cross Machine direction)	ASTM D2582	> 31 N	M/XM 55/49 N
Cold temperature performance (-25°C)	ASTM D747	> 0.057 N/m	0.014 N/m
Seam strength	ASTM D751	> 15 lbf/2 in	138 lbf/2 in

CHEMICAL PERMEATION DATA (GARMENT MATERIAL)

Chemical	Requirement	Result	Chemical	Requirement	Result
Acrolein	< 6.0 µg/cm ² in 1 hour	< 1.0	Dimethyl sulfate (DMS)	< 6.0 µg/cm ² in 1 hour	< 1.0
Acrylonitrile (VCN)	< 6.0 µg/cm ² in 1 hour	< 1.0	Mustard gas (HD)	< 4.0 µg/cm ² in 1 hour	0.01
Ammonia	< 6.0 µg/cm ² in 1 hour	< 1.0	Soman (GD)	< 1.25 µg/cm ² in 1 hour	ND
Chlorine	< 6.0 µg/cm ² in 1 hour	< 1.0			

Tests performed according to test method described in NFPA 1994. ND = not detected.

WARNING: Please keep the following safety considerations. Do not use 1) for conditions of deluge or continuous chemical exposure 2) for any untested liquid chemicals.

OPTIONAL FEATURES

► Padded kneews & elbows

Padding made from closed cell PVC foam.

► Reflective tape on sleeves & legs

3M™ Scotchlite™ tape, SOLAS grade

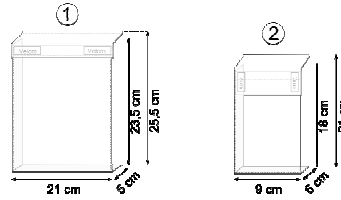
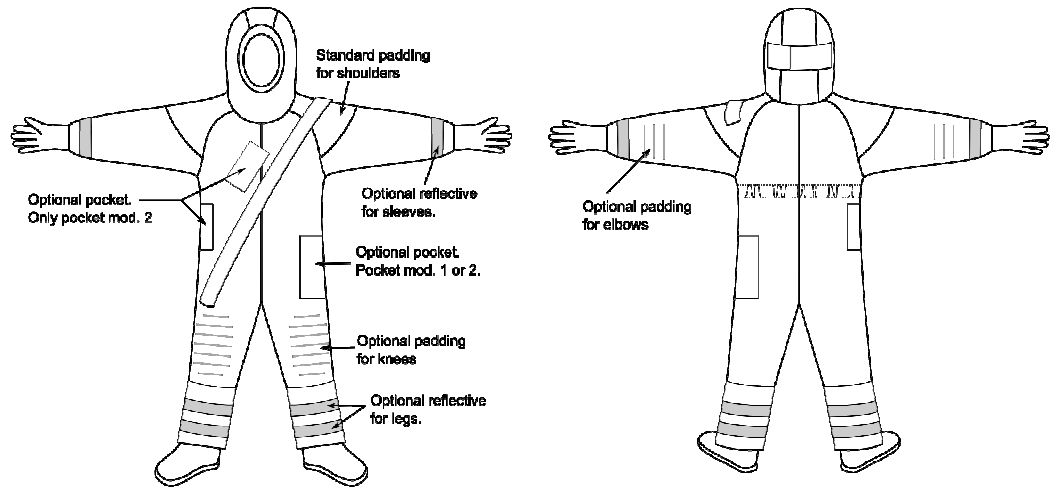
► Pockets

Max 3 pcs

2 sizes:

Pocket no 1 (large) : 8.3"x 2.0"x 9.1"
(21 x 5 x 23.5 cm)

Pocket no 2 (small) : 3.5"x 2.4"x 7.1"
(9 x 6 x 18 cm)



ACCESSORIES

Trelchem® ACT is made with integrated socks/booties and must be worn with approved separate outer safety boots:

- Oguard Hazmax® boots #87012 and #87015 (not included with the suit)

Trelchem® ACT is delivered with the following accessories:

- 1 pce User Manual
- 1 pair inner comfort gloves
- 1 pce lubrication for the O rings and 2 pcs extra locking pins (only if fitted with the Trelchem® Bayonet rings)
- Storage bag, black with handles

APPROVED RESPIRATORS

Trelchem® ACT is certified to be worn with the following SCBA's:

- MSA Ultra Elite® Face Piece with a FireHawk® M7 Air Mask SCBA or a FireHawk® M7 Responder Air Mask SCBA
- Scott AV3000® Face Piece with a Scott Air-Pak CBRN SCBA or a Scott Air-Pak NxG7 CBRN SCA or a Scott Air-Pak 75 CBRN SCBA
- Scott AV3000® SureSeal Face Piece with a Scott Air-Pak CBRN SCBA or a Scott Air-Pak NxG7 CBRN SCA or a Scott Air-Pak 75 CBRN SCBA

GENERAL INFORMATION

Reusability:	Trelchem® ACT is a limited-use suit i.e. to be disposed of if chemically contaminated.
Repair & Replacements:	Not repairable. Gloves can be replaced if the suit is fitted with the Trelchem® Bayonet ring system.
Inspection:	The suit should be visually inspected upon delivery, after each use or, if not used, at least annually.
Shelf life:	10 years shelf life in dry, cool, dark/covered conditions. Extended exposure to direct sunlight, ozon sources or excessive heat or cold may reduce shelf life.

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