

TRELLCHEM®



Suit with large VP1 visor and Nitrile/Chloroprene rubber gloves



SAFETY AND QUALITY STANDARDS

TRELLCHEM NEO

Trelchem® NEO is a new limited-use suit certified to EN 943-1 and EN 943-2/ET as well as NFPA 1991. The NFPA approval includes the optional liquefied gas protection requirements. Trelchem® NEO offers excellent chemical resistance in combination with very good mechanical strength and low weight.

DESIGN

Encapsulating design with hump, BA worn inside the suit. Option of two visors; CV or the larger VP1.

GARMENT MATERIAL

A new type of limited-use garment material, which offers long permeation times along with very good abrasion resistance and strength. A multilayer construction with a built-in chemical barrier with low weight for enhanced comfort.

COLOUR

Blue.

STANDARDS

Tested and certified to the highest standard in Europe, EN 943-1 and 943-2/ET. In the US it is certified to NFPA 1991 as a single-skin suit, i.e. without the need for an overcover.

TRELLCHEM®



With the Trelchem® Bayonet glove ring system it is quick and easy to exchange both inner barrier gloves and outer rubber gloves.



BOOT ATTACHMENT An ergonomically designed ring attachment simplifying boot exchange and providing a smooth yet tight fit of suit material around the boot shaft.

VISOR

The visor is made from a rigid 2 mm impact and chemical resistant PVC. Option of two visors; CV or the larger VP1.

GLOVES & ATTACHMENTS

The standard glove assembly consists of two layers: Inner 4H Silver Shield barrier glove and outer glove made from flame retardant Chloroprene rubber. Alternatively the suit can be delivered with Trelchem® Viton®/butyl rubber gloves or Nitrile/Chloroprene rubber gloves. The gloves are attached with the Trelchem® Bayonet glove ring system, which offers quick and simple glove exchange.

Note: Suits certified to NFPA 1991 also have an outer Kevlar® glove.

FOOTWEAR & ATTACHMENTS

Black nitrile rubber safety boots with European approval as Firemen's boots. The boots are fixed with an ergonomically designed ring attachment, which simplifies boot exchange and provides a smooth yet tight fit of suit material around the boot shaft. Alternatively the suit is equipped with a sewn-on sock/bootie in the suit material.

Note: For suits certified to NFPA 1991 only sock version is allowed.

ZIPPER

Strong and durable gastight PVC zipper. Closing downwards for added safety. The zipper is protected by a splash guard (flap).

Note: EN 943-2/ET certified suits are equipped with the Trelchem® HCR zipper.

VENTILATION

The suit is non-ventilated as standard but can be fitted with the Trelchem® regulating valve or airline passthrough on request. Two outlet valves in the back of the hood ventilates the air out of the suit.

ACCESSORIES

The visor can be equipped with an anti-fog lens and/or a tear-off lens. A wide range of other accessories is available for maintenance, storage etc.

PERMEATION DATA

CHEMICAL	BT TIME (MIN)	CHEMICAL	BT TIME (MIN)
*Acetone	> 480	*Methanol	180 (260)
*Acetonitrile	> 480	*Methyl chloride	> 480
*Ammonia	> 480	*Nitrobenzene	> 480
*1,3-Butadiene	> 480	*Sodium hydroxide 40%	> 480
*Carbon disulfide	> 480	*Sulphuric acid 98%	> 480
*Chlorine	> 480	*Tetrachloroethylene	> 480
*Dichloromethane	> 280	*Tetrahydrofuran	> 480
*Diethyl amine	> 480	*Toluene	> 480
*Dimethyl formamide	> 480		
*Ethyl acetate	> 480		
*Ethylene oxide	> 480		
*n-Heptane	> 480		
*Hydrogen chloride	> 480		

The test chemicals marked with an asterisk (*) are stipulated (minimum requirement) in the American standard NFPA 1991. The underlined chemicals are stipulated (minimum requirement) in the European standard EN 943-2. The tests are performed in accordance with EN 374-3 and ASTM F 739 with breakthrough criterion 0.1 µg/cm² *min.

BT TIME = Breakthrough time.

MATERIAL PROPERTIES

PROPERTY	METHOD	RESULT	CLASS*
Abrasion resistance	EN 530, method 2	2000 cycles	6
Flex cracking resistance	ISO 7854, method B	40 000 cycles	5
Flex cracking @ -30°	ISO 7854, method B	2000 cycles	5
Tear resistance, warp/weft	ISO 9073-4	200/160 N	6
Tensile strength, warp/weft	ISO 13934-1	560/400 N	4
Puncture resistance	EN 863	30 N	2
Resistance to flame	EN 13274-4, method 3	1 sec.	1
Seam strength	ISO 5082	600 N	6

* Classification according to EN 943-1/EN 14325.



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