

Product sheet - Trellchem® Super type T-ET

Trellchem® Super type T-ET provides protection against hazardous chemicals in liquid, vapour, gaseous and/or solid form and is designed to carry the breathing apparatus outside the suit. Trellchem® Super type T-ET is fully certified in accordance with the the general European standard for gas-tight chemical protection, EN 943-1, as well as the standard for emergency teams (ET), EN 943-2. It is also "wheel-marked" and approved according to the European Directive on Marine Equipment.

Butyl rubber
Polyamide fabric
Butyl rubber
Viton® rubber



Garment material

Strong and flexible polyamide fabric coated on each side with butyl rubber and with an additional outer layer of Viton® rubber.

Seams

Double stitched seam covered on the outside with a Viton® rubber strip. On the inside it is covered with a fabric-reinforced strip.

Footwear

Integrated socks/booties in the garment material. Alternatively, the suit is supplied with fixed nitrile rubber safety boots, certified according to EN 345-2.



Gloves

Separate semi-attached 5-finger gloves made of Viton®/butyl rubber, in combination with elastic wrist cuffs for extra safety. The wrist cuffs are easily replaced by a "snap-on" arrangement.



Face sealing

The rubber face sealing is anatomically designed for optimum safety and comfort.

Zipper

Long Viton® rubber coated gas-tight zipper (with the metal parts on the inside of the suit) placed diagonally on the front of the suit for easy donning and doffing. The zipper is closing downwards to give the wearer the possibility to check the zipper position (closed/open) and to reach the zipper handle himself. Also, the zipper is protected by an external splash protective flap.



Ventilation

The Trellchem® Super suits are as standard equipped with an integrated possibility for ventilation. The flow rate can be adjusted by the wearer from the outside by a handle on the inlet regulating valve. Standard flow rate approx. 2 alt. 30 l/min (optional approx. 30 alt. 100 l/min). The over pressure is automatically controlled by means of a membrane valve, which is protected by a separate splash protection.



| | XS | S | M | L | XL | XXL |
|---------------|------|------|------|-------|---------|--------|
| Sock | 43/9 | 43/9 | 43/9 | 46/11 | 46/11 | 46/11 |
| Nitrile boots | 41/7 | 41/7 | 43/9 | 45/10 | 46½/11½ | 46/11½ |

Standard size range

Option of XS, S, M, L, XL and XXL.

| Size | Wearer's height (cm) |
|------|----------------------|
| XS | 164-176 |
| S | 170-182 |
| M | 176-188 |
| L | 182-194 |
| XL | 188-200 |
| XXL | 200-212 |

Accessories supplied with each suit

Each suit is delivered with 1 pair of separate cotton comfort inner gloves, 1 pair of Viton® / butyl rubber gloves incl 1 pair of elastic bands, 1 coat hanger type "T", 1 grease stick for lubrication of the zipper, 1 black polyethylene protective cover and 1 comprehensive manual with technical data.

Trelchem® Hood

The Trelchem® Hood is one of many accessories that are available. It is required to be worn for the EN 943 approval to be valid.



Standards

The Trelchem® Super type T-ET is fully certified in accordance with the the general European standard for gas-tight chemical protection, EN 943-1, as well as the standard for emergency teams (ET), EN 943-2. It is also approved according to the European Directive 96/98/EC on Marine Equipment and bears the wheel mark.



References

Trelchem® suits are in world-wide use by leading hazmat, rescue and fire fighting teams, armed forces, military defence, civil defence as well as in the industry.

PERMEATION TEST RESULTS (ASTM F 739, 0,1 µg/cm²*min)

| Chemical | BT Time (min) | Chemical | BT Time (min) |
|------------------------------|--------------------|---------------------------|--------------------|
| Acetic anhydride | > 480 | <u>*Hydrogen chloride</u> | > 480 |
| <u>*Acetone</u> | > 480 ¹ | Isoprene | > 480 |
| <u>*Acetonitrile</u> | > 480 ¹ | JP-4 | > 480 |
| Acetyl chloride | > 480 | <u>*Methanol</u> | > 480 ¹ |
| Acrylic acid | > 480 | *Methyl Chloride | > 480 |
| <u>*Anhydrous ammonia</u> | > 480 ¹ | Methyl ethyl ketone | > 173 |
| Aniline | > 480 | Methyl metacrylate | > 480 |
| Bromine | 45 | Monochlorobenzene | > 480 |
| *1,3-Butadiene | > 480 | Nitric acid 70 % | > 480 |
| <u>*Carbon disulfide 95%</u> | > 480 ¹ | *Nitrobenzene | > 480 |
| <u>*Chlorine</u> | > 480 ¹ | Nitromethane | > 480 |
| <u>*Dichloromethane</u> | > 58 ¹ | Oleum | > 480 |
| <u>*Diethyl amine</u> | > 53 ¹ | Phenol | > 480 |
| *Dimethyl formamide | > 480 | Phosphoric acid 85 % | > 480 |
| Dimethyl hydrazine | > 480 | Phosphorous trichloride | > 150 |
| Dimethylsulfoxide | > 480 | Pyridine | 315 |
| Epichlorohydrine | > 480 | <u>*Sodium hydroxide</u> | > 480 ¹ |
| <u>*Ethyl acetate</u> | > 252 ¹ | <u>*Sulphuric acid</u> | > 480 ¹ |
| Ethylene glycol | > 480 | *Tetrachloroethylene | > 143 |
| *Ethylene oxide | > 480 | <u>*Tetrahydrofuran</u> | > 28 ¹ |
| Formaldehyde 37% | > 480 | <u>*Toluene</u> | > 74 ¹ |
| Formic acid 96% | > 480 | Tribromophenol | > 480 |
| Furfural | > 480 | Trichloroacetic acid | > 480 |
| <u>*Hexane</u> | > 480 ¹ | Triethylamine | > 480 |
| Hydrazine | > 480 | Triethylenetetramine | > 480 |
| Hydrochloric acid 37 % | > 480 | Vinyl acetate | > 480 |
| Hydrofluoric acid 49 % | > 480 | Vinyl chloride | > 480 |

* NFPA 1991 chemical test battery

Underlined chemicals=EN 943-2 chemical test battery

BT=Breakthrough

¹ Performed according to EN 374 (breakthrough criterion 1µg/cm²*min)



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