

Proudly representing

SAFETY AND QUALITY STANDARDS

BY WHICH PERSONAL PROTECTIVE EQUIPMENT IS MEASURED



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Fire & Rescue

City of LA Fire Dept. (California), USA • City of Miami Fire Dept. (Florida), USA • State of New York Hazmat System, USA • Boston Fire Dept. (Massachusetts), USA • Swedish Rescue Service Agency, Sweden • Danish Emergency Management Agency, Denmark • Falck Redningskorps, Denmark • Copenhagen Fire Department (HQ), Denmark • Oslo Fire Department, Norway • BMI - Service Public Fédéral Intérieur, Belgium • Regionale Brandweer Amsterdam, Netherlands • Brandweer Rotterdam, Netherlands • Singapore Civil Defence Force (SCDF) • Hong Kong Fire Service Department • Shenzhen Fire Bureau, P.R. China • Shanghai Fire Bureau, P.R. China • National Fire & Rescue Administration, Japan • Tokyo Metropolitan Fire Department • National Fire & Rescue Administration (BOMBA), Malaysia • Queensland Fire & Rescue Authority (Q.F.R.A.), Brisbane, Australia • New Zealand Fire & Rescue Authority • National Rescue Team (SMART-team), Malaysia • Ahmedabad Fire & Rescue Authority, India • National Fire Administration, Taipei, Taiwan R.O.C. • Seoul Fire Dept., Korea • Madrid Council F.B., Spain • Madrid Community F.B., Spain

Defence

US Army Demilitarization Program • US Air Force • Defence Material Administration (FMV), Sweden • SWEDEC (Swedish EOD and Demining Centre), Sweden • Sjövärnet, Skibsteknologisektion, Denmark • Norwegian Defence Logistics Organisation/Air (NDLO/AIR), Norway • Finnish Defence Forces, Material Department/Protective unit, Keuruu, Finland • Ministerie van Defensie, Netherlands • Defence Science Organisation (DSO), Singapore • Japan Ground Self Defence Force, Chemical Division • Royal Thai Army, Chemical Division, Thailand • S. Korean Army • Spanish Army – NBC Group

Police

NYPD Emergency Services Unit, USA • FBI Chemical Response Team (Washington DC), USA • US Secret Service (Washington DC), USA • Tokyo Police Agency, Japan • Japan Police Agency • Zentraldienst der Polizei, Germany

Industry

Perstorp AB, Sweden • A.P. Møller - Maersk Group, Denmark • JO Tankers AS, Norway • Odfjell ASA, Norway • Statoil, Kolsnes, Norway • Statoil, Heidrun, Norway • Statoil, Mongstad, Norway • BASF, Belgium • Akzo Nobel, Netherlands • BASF, Netherlands • Fokker Aircraft BV, Netherlands • Shell Nederland Raffinaderij, Netherlands • BP Brisbane, Australia • Alert Disaster Control (Asia), Singapore • Sumitomo Chemical, Singapore • Stolt Nielsen, Singapore • Lian Hwa Gas Manufacturing Co., Ltd, Taiwan R.O.C. • Petronas, Malaysia • BASF, Malaysia • DSM Chemicals, Netherlands • Dow Benelux, Netherlands • DuPont de Nemours, Netherlands

Others

NASA (Florida), USA • Urban Search And Rescue Team (USAR), USA • Swedish Coast Guard • Port of Singapore Authority • Civil Aviation Authority of Singapore (CAAS) • Japan Coast Guard (JCG) • Thai Airways International, Bangkok, Thailand • National University of Singapore (NUS) • Guardia Civil – NRBC Group, Spain

As part of global industrial group Trelleborg, Trellchem takes advantage of over 100 years of profound knowledge and competence within the polymer materials field and related areas of application.

LCHE M

This provides Trellchem with unique resources and facilities to research and develop the highest quality personal protective products.

Perfectly adapted to meet a wide range of chemical exposure situations and other hazardous working conditions, each Trellchem product is designed, built and thoroughly tested to meet an increasing demand for uncompromising personal safety equipment.

Approved, certified and trusted by some of the toughest certifying agencies in the world, Trellchem suits are handcrafted and can be tailored to meet size requirements and accessory specifications.







Trellchem[®] TLU

A limited-use protective suit. For users not wearing the suit very often but still in need of a good chemical protection barrier. Materials used in limited-use suits have reduced durability. They provide good initial on-site protection after which they should be replaced.

GENERAL DESIGN AND FEATURES FOR ALL SUIT MODELS

Type T: non-encapsulating design with face seal and without hump, BA worn outside the suit. This classic suit design is the choice for Scandinavian fire and rescue services.

Type TE/VP1: totally encapsulating design with visor and hump, BA worn inside the suit. The VP1 offers an extra large visor and hump.

Trellchem[®] Super

A soft and flexible suit with a high level of protection against most types of chemicals. Designed to be extremely durable and flexible. Trellchem® Super has an excellen prefermence record

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Trellchem[®] VPS

A cost-effective, highly durable protective suit for a wide range of hazardous exposures.

Trellchem[®] VPS suits provide an optimal protection barrier to withstand potentially dangerous working conditions. Each suit is handcrafted to meet and exceed life-protecting safety and functionality requirements.

Using Trellchem proprietary technology to combine unique laminate properties, Trellchem[®] VPS suits are strong and durable providing a reliable component of often risk-filled missions.

VENTILATION

Available for all suits. The ventilation system distributes air into legs, sleeves and over visor (if fitted).

Different types of passthrough systems are available as an option. The Trellchem standard passthrough offers 0/2/30/100 litres/min ventilation.

GLOVES AND ATTACHMENTS

A range of glove options are available to meet various requirements. All are attached with the Trellchem[®] Bayonet glove ring system.

FOOTWEAR AND ATTACHMENTS | 3

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Integral socks in suit material or attached safety boots. Boots are attached with ring and metal clamp.









4 | VISOR

Impact and chemical resistant 2 mm PVC material. *Optional*: inner antifog lens and/or outer tear-off lens.

5 | ZIPPER

Gastight chloroprene rubber coated zipper. For EN 943-2 approved suits, a special zipper with enhanced chemical resistance is available.

Trelichem® HPS

A durable suit with unyielding chemical barrier quality.

Trellchem[®] HPS suits supply the maximum level of protection against a wide range of chemical exposures – including warfare agents – allowing for full focus on the mission at hand.

A Trellchem[®] HPS suit provides an outstanding chemical barrier – from a wide range of chemicals – for over 8 hours of exposure.

This uncompromising protection offers users the invaluable assurance of being safe from dangerous chemical exposure throughout a longlasting mission.

Each suit is largely manufactured by hand. A substantial part of this process, leading to final quality assurance and extension of suit life-span, involves rigorous testing of all aspects of usage.

Designed and produced by expert craftsmen, a Trellchem® HPS suit represents the definitive personal protection solution for a wide range of hazardous working situations. Built to be durable, adaptable and reusable, each suit meets the increasing demand for professional life-protecting equipment.









CHEMICALS INVOLVED?

An accident has occurred. Initial indications suggest chemi-cals are involved. Chemical type and form is unknown. A supervisor in a Trellchem[®] Splash 1000 suit inspects the scene and immediately establishes the presence of gase-ous chemicals and that a gastight suit is needed!





DONNING OF GASTIGHT SUITS

correctly.







chemicals.











SUIT DECONTAMINATION

After successfully completing the mission, the suit must be decontaminated, if appropriate, with considerable amounts of water.





Receiving assistance in suit donning is standard procedure. Partly because several stages are difficult to manage alone and partly to assure all gear is put on





Debriefing. Review – How did we handle the situation? Did our procedure help us complete the mission? What did we do well and what could have been done even better? And what about the suits? In most cases Trellchem reusable suits can be used again after decontamination, pressure test and inspection.

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TRELLCHEM® BAYONET GLOVE RING SYSTEM For a fast, easy and safe exchange of gloves. The system makes it quick and easy to attach a variety of glove combinations.

ZIPPER Strong and durable gas-tight zipper with closing downwards for added safety. Protected by a splash guard (flap).

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

REPAIR KIT



Stitched with aramide thread for superior strength and durability. Taped with a rubber strip on the outside and a barrier laminate strip welded to the inside. This provides a continuous barrier layer, giving the seam the same chemical protection as the suit material itself.

TRELLCHEM[®] HPS/VPS SEAM

och ej i närheten av gnistande elutrustning. g den om möjligt på medrerad galge och i mörkt

increased if it is stored in a cool, dry place which is not in the proximity of electrical equipment which can cause sparks to be formed.

If possible, hang it up on the accompanying hanger and in a dark case.

€€ 0402

année de r. - ar / Production no.. - year / Herstellungsnumm année de fabrication / Número, año de producción

riek / Suit size / Grösse Anzug / mbinaison / Talla del traje ovad / Leaktested / Dichtigkeitsprobe Ix tests d'étanchéité / LLEBORG THE P.O.Box Phone: Int

NIW/2

CARE LABEL Label inside the suit with care instructions, suit identification number and information on size, certificates and more.

SPLASH GUARD Prevents leakage of chemicals into the boots on suits with integral socks/booties.

TRELLCHEM® REGULATION VALVE Made of a chemical resistant material. 3 ventilation rates (2, 30 and 100 l/min) plus zero/off position. Large thumbwheel with grooves for a good grip. The wheel snaps into place for easy selection of required flow rate. Two-hand grip for 100 l/min and zero/off position to prevent accidental loss of ventilation or excessive air consumption. Available also as a complete airline passthrough.



Stövelstorlek / Boot size Taille Bottes / No. de bo



Trelleborg



RELLCHEN

HEM



	Trellchem [®] HPS	Trelichem [®] VPS	Trellchem [®] Super	Trellchem [®] Light	Trellchem [®] TLU
					5 1 122
Certificates & Approvals	 NFPA 1991 incl. Chem/Bio warfare testing. A Trellchem[®] HPS suit fulfils all demands as a "single skin" suit and does not require any additional cover to meet flame and abrasion requirements. EN 943-1 EN 943-2 Emergency teams. Various local regulations and specifications. 	 NFPA 1991 incl. Chem/Bio warfare testing. A Trellchem[®] VPS suit fulfils all demands as a "single skin" suit and does not require any additional cover to meet flame and abrasion requirements. EN 943-1 EN 943-2 Emergency teams. Marine approval. 	EN 943-1 EN 943-2 Emergency teams. Marine approval.	EN 943-1	EN 943-1 EN 943-2 Emergency teams.
Suit material	 External: Highly chemical resistant Viton[®] rubber combined with butyl rubber, coated on strong polyamide fabric. Internal: Chloroprene rubber with a polymer laminate providing excellent barrier properties. 	External : Chemical and abrasion resistant chloroprene rubber coated on strong poly- amide fabric. Internal : Chloroprene rubber with a polymer laminate providing excellent barrier proper- ties.	A combination of highly chemical resistant Viton [®] and butyl rubber coated on strong polyamide fabric. Designed to be extremely durable, yet soft and flexible.	Strong polyamide fabric, coated with PVC on both sides. A soft and durable material, with good resistance against a variety of industrial chemicals.	A laminate material with superb barrier properties. Limited however in flame resis- tance, strength and durability.
Areas of use	Hazmat Teams, Fire & Rescue Services, Defence, Law Enforcement, Civil Defence and Chemical Industry.	Hazmat Teams, Fire & Rescue Services, De- fence, Law Enforcement, Civil Defence, Chemi- cal Industry, Shipping and First Responders.	Fire & Rescue Services, Chemical Industry and Shipping.	Chemical Industry.	Hazmat Teams, Fire & Rescue Services and Chemical Industry.
Colour	Red or Olive green.	Bright yellow or Black.	Yellow.	Bright orange.	White.
Gloves	The NFPA certified system consists of: Inner Silver Shield® laminate glove, chloroprene rubber glove and outer knitted Kevlar® glove for cut protection. Optional : Viton®/butyl rubber glove.	The NFPA certified system consists of: Inner Silver Shield® laminate glove, chloroprene rubber glove and outer knitted Kevlar® glove for cut protection. Optional : Viton®/butyl rubber glove.	Viton®/butyl rubber glove.	Chloroprene rubber glove.	Outer chloroprene rubber glove and inner Silver Shield® laminate glove. Optional : Viton®/butyl rubber glove.
Footwear	Black nitrile rubber safety boots with Euro- pean approval as Firemen's boots. Alternati- vely sock/bootie in suit material.	Black nitrile rubber safety boots with Euro- pean approval as Firemen's boots. Alternati- vely sock/bootie in suit material.	Black nitrile rubber safety boots with Euro- pean approval as Firemen's boots. Alternati- vely sock/bootie in suit material.	Yellow PVC safety boots. Alternatively sock/bootie in suit material.	Black nitrile rubber safety boots with Euro- pean approval as Firemen's boots. Alternati- vely sock/bootie in suit material.





TRELLCOVER A two-part cover suit minimising frostbite risk when working with condensed gases (such as liquid Chlorine and Ammonia). Manufactured in a thin, silicone coated polyamide material. Does not provide chemical protection.

TRELLTRAIN A suit for training exercises in chemical accident operations. Same design as gastight suits, however, manufactured in a durable but non chemical resistant material.

MINI HOOD A basic hood with Velcro® fastening under the chin. Provides extra protection against leakage between mask and face seal.

ANTIFOG LENS Attached to the inside of the visor, the antifog lens prevents the visor from becoming foggy.



SUIT AND ACCESSORY BAG Spacious bag for storing a Trellchem® suit and boots, gloves, hood and more. Available in red/yellow or olive green.

MANUAL/CD-ROM/DVD Contents: instructions for donning, repairs, pressure test and general advice on managing Trellchem® Protective Suits. The CD-ROM and manual also include test result data.

Splash 600

466 standard. Complete with ho use with outer helmet. Protects



Splash 1000S

Splash 1000 and 1000S

Splash 1000 fulfils the EN 466 standard. Splash 1000S fulfils the EN 465 standard.

TC HOOD Hood used on type T suits to protect breathing apparatus from chemical splash and provide extra leakage protection between mask and face seal. Equipped with side zipper for easy donning. Elastic lower part for good tight fit around breathing apparatus. Has a PVC visor or face seal attached around the mask visor.











Splash 900

VENTILATION For safety and comfort, ventilation is available for all Trellchem[®] suits. Adjustable ventilation flow rates.

TEAR-OFF LENS Applied with doublesided tape on the outside of the visor. Prevents scratches and splashes from aggressive types of chemical substances. Just tear off for a clean and unobstructed visor!



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