PROTEK system

protek-system.pl

Protection and safety at work

ProChem® I

Material
CLF® | F | CPM® | C

ProChem® II

Material
CLF® | F

ProChem® III

Material
CLF® | F | CPM® | C

ProChem® IV

Material
CLF®

ProChem® V

Material
CLF®

ProChem® VI

Material
TK

ProChem® Line

PROTEC® Comfort

PROTEC® Classic

PROTEC® Plus

PROTEC® Line

MULTI® Econ

MULTI® Kleen

MULTI® Tec

MULTI® Splash

MULTI® Line

ProChem® I

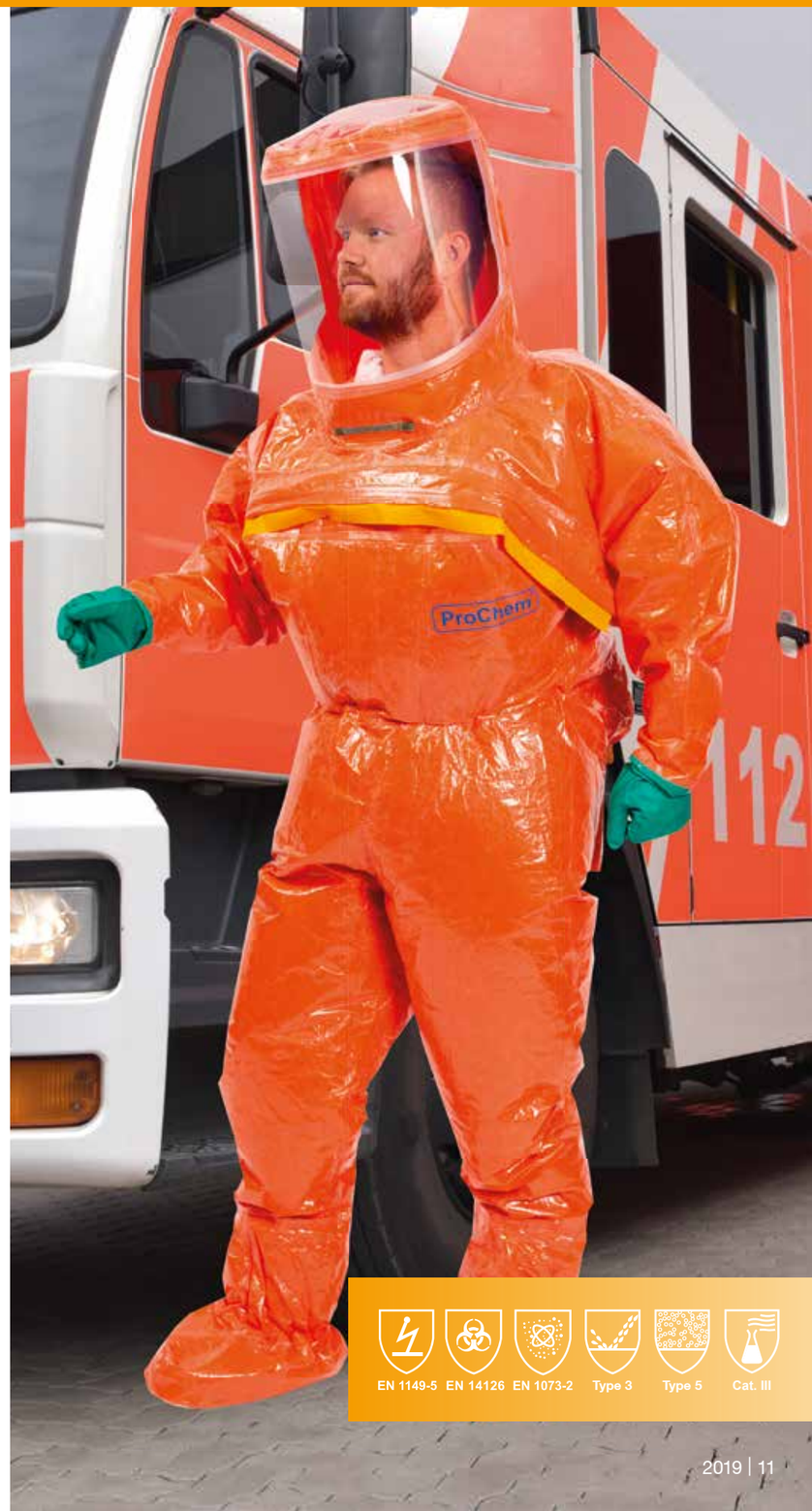
ProChem® II

ProChem® III

ProChem® IV

ProChem® V

ProChem® VI



PROTEK system

ProChem® III CLF®

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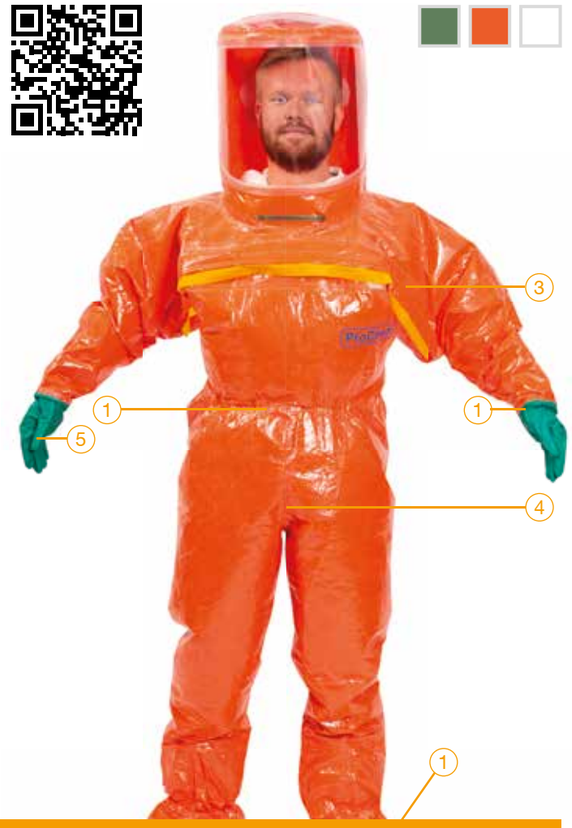
ProChem® III

EN 1149-5 | EN 14126 | EN 1073-2 | Type 3 | Type 4 | Type 5 | Type 6 | Cat. III

Coverall Prochem® III CLF®

Cat. III, type 3B, 5



ProChem® III CLF®

ProChem® III CLF® is a full protection suit, designed for use with a filter unit. The CLF material has antistatic properties, increases the comfort of use - it reduces the noise level (rustling) during operation, and the inner fleece is pleasant to the touch and absorbs moisture. Low weight, excellent field of view and freedom of breathing guarantee comfortable work for the user.

The model provides optimal protection against solid chemicals (including radioactively contaminated substances) and liquid under pressure up to 2 bar (organic, inorganic, biologically contaminated).

The standard coverall has elastic thumb loops to prevent the sleeves from slipping when working overhead. The transverse entrance to the suit, closed with a hydrophobic zipper, is located at the front and is secured with two Velcro tabs.
If the suit and any options are not contaminated and / or mechanically damaged during work, it is possible to reuse it. Using a breathing apparatus eliminates the use of a face mask and extends use time up to 6 hours *. Placing the filter unit underneath the suit (only the filters are on the outside) prevents its contamination. The widescreen, fog-free high-transparency visor provides an excellent field of view The design is characterized by easy and quick putting on and taking off. The suit can be used with various models of filtering devices **.

(*) - For a fully charged battery and new filters. The state of charge of the battery and the type of filter affect the usage time.

(**) - Filtering devices are not included in the price of the suit. For the selection of clothing and camera, please contact Protek-System.

Application:

Pharmaceutical, chemical and plastic industries, hospitals - infectious wards, removal of pollutants, work on decontamination, work with solid and liquid hazardous substances, cleaning of tanks and sewers, inspections of machines and devices, work in clean rooms, industrial coatings, nuclear technologies, agriculture and plant protection.

Standard design (without options):

1 Elastic ribbing on sleeves, legs and waist
2 Double zipper flap closed with double-sided adhesive tape
3 Transverse front entry opening
4 Loose fit for optimal freedom of movement
5 Elastic thumb loops

*) With a fully charged battery and new filters. The general condition of the battery and the type of filter (P3 or combination filter) have an effect on the usage time.

(**) Before that, it is necessary to clarify with the Protek-System industrial safety. Filter and ventilation devices are not included in the price.

Material: CLF®

Material properties:

olive, orange, green, white

Weight: 130 g/m2

Fabric physical properties	Test method	Unit	Result	EN Class
Abrasion resistance	EN 530:2010	Cycle	>2000	6 / 6
Puncture resistance	EN 863:1997	N	28,2	2 / 6
Trapezoidal tear resistance L/Q	ISO 9073-4:1999	N	L 114 / Q 118,47	5 / 6
Tensile strength	EN ISO 13934-1:2013	N	L 243 / Q 236,3	3 / 6
Surface resistance	Test EN 1149-1 Standard EN 1149-5	Ohm	$< 2,5 \times 10^{-8}$	
Basis weight	DIN ISO 536	g./m^2	130	N/A

Options:

The following additional options for ProChem® suits are at your disposal:

A Socks (EX area, ergonomic)
B Shoe upper cover
C Reinforcement on elbows and knees
D Connection cover with glove
E Double pleat fastened with doppel tape
F Chemical protection gloves
H Shoe covers with anti-slip and anti-static sole

We are happy to provide you with configuration support and individualization.

Option examples:

Optoin F:
Nitrile chemical gloves (F1)

Option L:
Filtering device (L2)

Option H:
Shoe cover (H)

CE:

Type 3B: Protective clothing against exposure pressurized fluid stream	EN 14605
Type 5: Resistant protective clothing against solid particles	EN ISO 13982-1
Antistatic:	EN 1149-5
Biobarrier:	EN 14126
Counteracting radioactive contamination:	EN 1073-2
Helmet or hooded fan filters:	EN 12941

Permeation data CLF – ISO 6529

Chemical	Physical state	CAS	EN 369
Aceton	Liquid	67-64-1	> 480 min.
Ammoniak Lsg. (25%)	Liquid	1336-21-6	> 480 min.
Barium hydroxide (10%)	Liquid	17194-00-2	> 480 min.
Benzol	Liquid	71-43-2	> 480 min.
Calcium hydroxide (10%)	Liquid	1305-62-0	> 480 min.
Dichloromethane	Gas	75-09-2	> 480 min.
Acetic Acid (100%)	Liquid	64-19-7	> 480 min.
Formaldehyde (37%)	Liquid	50-00-0	> 480 min.
Heptan n-	Liquid	142-82-5	> 480 min.
Potassium hydroxide (40%)	Liquid	1310-58-3	> 480 min.
Sodium chloride saturated	Liquid	7647-14-5	> 480 min.
Sodium cyanide saturated	Liquid	143-33-9	> 480 min.
Sodium fluoride saturated	Liquid	7681-49-4	> 480 min.
Caustic soda (40%)	Liquid	1310-73-2	> 480 min.
Phosphoric acid (85%)	Liquid	7664-38-2	> 480 min.
Pyridine	Liquid	110-86-1	> 480 min.
Nitric acid (70%)	Gas	7697-37-2	> 480 min.
Hydrochloric acid (37%)	Liquid	7647-01-0	> 480 min.
Sulphuric acid (96%)	Liquid	7664-93-9	> 480 min.
Toluene	Liquid	108-88-3	> 480 min.
Hydrogen peroxide (32%)	Liquid	7722-84-1	> 480 min.
Warfare agents	Tested to MIL Standard		
Yperite (Mustard gas, Lost)	Gas	505-60-2	4320 min.
Lewisite	Liquid	541-25-3	2400 min.
Soman	Liquid	96-64-0	7200 min.
Vx	Liquid	50782-69-9	9300 min.
Chlorins	Gas	7782-50-5	440 min.
Ammonia	Gas	7664-41-7	90 min.
Hydrogen chloride	Gas	7647-01-0	1320 min.
hydrogen fluoride	Gas	7664-39-3	3840 min.
Sulphur dioxide	Gas	7446-09-5	54 min.

Important note: All ProChem® models are certified as chemical protection garments with a limited lifetime. The decision as to whether a suit is reusable is, as a rule, made only by the user.
Protek-System is not liable in any way for improper use of the suits.