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

PROTEC® Comfort

PROTEC® Classic

PROTEC® Plus

MULTI® Econ

MULTI® Kleen

MULTI® Tec

MULTI® Splash

ProChem® Line

PROTEC® Line

MULTI® Line

ProChem® I

ProChem® II

ProChem® III

ProChem® IV

ProChem® V

ProChem® VI

PROTEK system

ProChem® I CLF®

PROTEK system

ProChem® I CLF

ProChem® I

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

ProChem® I CLF®

Coverall Prochem® I CLF

Cat. III, type 3B, 4, 5, 6

ProChem® I CLF is a new, versatile suit whose features go well beyond the basic protective properties. Very good physical and protective properties of the CLF material provide the user with effective protection against solid and liquid substances (organic, inorganic, biologically contaminated), chemical warfare agents. it is pleasant to touch and absorbs moisture. It is precisely due to its hygroscopic properties that the ProChem® I CLF suit can be worn for several hours, in accordance with the operating regulations or work instructions.

During the design phase, we paid particular attention to the design of critical areas such as the hood, sleeve ends / transition and crotch area. Thus, excellent user mobility is achieved. Additionally, due to the high flexibility of the solutions used in the construction of the ProChem® I CLF suit, the incorrect use of respiratory protective devices can be corrected after wearing them. This is influenced by Velcro fasteners on the body and chin panels, which allow you to make corrections at any time to ensure tightness and protection of the respiratory tract.

The ProChem® I CLF model has a hydrophobic (sealed) zipper and a masking strip that allows for multiple unfastening, fastening and re-use if the suit has not been contaminated. The standard version of the coverall has elastic thumb loops that prevent the sleeves from slipping when working with the arms raised above the head. The standard version can be extended with a system of additional options. The suit is available in many sizes, features and colors. It has also been tested for resistance to over 100 different chemicals and, in addition, meets antistatic standards.

Application:

Removal of pollution, decontamination work. Contact with solid and liquid hazardous substances. Maintenance work, tank cleaning. Chemical industry, food industry, agriculture. Fire and rescue services, police investigations, nuclear technologies.

Standard design (without options):

1 Elastic ribbing on sleeves, legs and hood
2 Ergonomic hood
3 Double zipper cover, fastened with Velcro, extended to the chin
4 Adjustable chin guard with Velcro closure
5 Loose cut for freedom of movement
6 Elastic thumb loops

Attention! All ProChem® models are certified as a limited-life chemical protective garment. Only the user decides whether the suit can be reused. Protek-System Sp. z o.o. is not responsible for improper use of ProChem® suits.

Material: CLF®

Material properties:

Colour: Olive, orange, white

Weight: 130 g/m2

Fabric physical properties	Metoda badania	Jednostka	Wynik	Klasa EN
Abrasion resistance	EN 530:2010	cycle	>2000	6 / 6
Puncture resistance	EN 863:1997	N	28	2 / 6
Trapezoidal tear resistance L/Q	ISO 9073-4:1999	N	L 114 / Q 118	5 / 6
Tensile strength	EN ISO 13934-1:2013	N	L 243 / Q 236	3 / 6
Surface resistance	Test EN 1149-1 Standard EN 1149-5	Ohm	< 2,5 x 10^9	
Weight	DIN ISO 536	g/m2	130	N/A

Option:

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:

A + B options:
Socks with an additional shoe upper cover

Option C:
Reinforcement on elbows and-knees

Option F:
Processed chemicals F2 gloves (foil laminate *)
* Gloves required for models with foil laminate (Options F2 and F3)

CE:

Type 3B: Protective clothing against exposure pressurized fluid stream	EN 14605
Type 4: Spray-resistant protective clothing	EN 14605
Type 5: Resistant protective clothing against solid particles	EN ISO 13982-1
Type 6: Limited tightness against sprays	EN 13034 + A1
Antistatic	EN 1149-5
Biobarrier:	EN 14126
Counteracting radioactive contamination	EN 1073-2

Permeation data CLF – EN 369

Chemical	Physical state	CAS	EN 369
Aceton	Liquid	67-64-1	> 480 min.
Amoniak 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%)	Liquid	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.