

► CHEM 3

Chemical workwear type 3 with intensive use



Technical specifications

Workwear CHEM 3: Types 3 & 4.

Materials: Multi-layer composite technology including EVOH barrier film and LDPE bonding layers 150 g/m².

Seams: outside stitched and locked seams with thermoformed PE tape.

Sizes: M, L, XL, XXL, XXXL.

Color: Grey.

Packaging: Boxes including 10 combinations (individual packaging).

Homologations:

- EN 340: 2002: Protective clothing: general requirements.
- EN 14065: 2005: Liquid chemical protection: Seamless spray-proof clothing (type 3).
- EN 14065: 2005: Liquid chemical protection: Seamless spray-proof clothing (type 4).
- EN 13982: 2004: Protection against dry and dangerous particles (type 5).
- EN 13034: 2004: Protection against the reduced spray of liquid chemical products (type 6).
- EN 1149-1: 2005: Antistatic requirements (Surface resistance).

Physical specifications

- Abrasion resistance: between 100 and 500 cycles (class EN 2).
- Puncture resistance: 11.4 N (class EN 2).
- Bursting strength: 81.6/94.1 kN/m² (class EN 2).
- Resistance to flexural cracking: > 15k cycles (class EN 4).
- Trapezoidal tear strength (cd): 50.4 N (class EN 3).
- Seam strength: 165.28 N (class EN 4).

Product description

The **CHEM 3** heavy-duty chemical workwear provides Type 3 protection against heavy splashes of hazardous chemicals. It is a lightweight, waterproof suit using a multi-layer composite technology comprising EVOH barrier film and LDPE bonding layers to provide very high protection and resistance to a wide range of chemicals.

Stitched seams sealed on the outside with a thermoformed ribbon, double zip protected by a storm flap make this a safe and comfortable chemical suit particularly suitable for petrochemicals, chemical industries, contaminated land clean-up, or tank cleaning.

It consists of a jumpsuit with a hood, recessed sleeves, 2-piece diamond leggings and elastics, padded knee pads, and tunnel tightening elastics for the hood, cuffs, and ankles.

► CHEM 3 workwear assets

- Type 3 & 4 workwear (protection against directional and powerful jets of liquid chemical products).
- Multi-layer barrier film with a smooth and flexible finish.
- Stitched and taped seams for optimum safety.
- Double zip with storm flap for the security of front closure.
- Large and padded knee pads.
- Large and padded onesies.
- Tunnel elastic at the hood, wrists, and ankles.

► Testing of chemical warfare agents

Liquid	CAS	Penetration
Lewisite L	541-25-3	> 48 h
Mustard HD	505-60-2	> 48 h
Sarin GB	107-44-8	> 48 h
Soman GO	96-64-0	> 48 h
Tabun GA	77-81-6	> 48 h
VX VX	50782-69-9	> 48 h

The test has been done following the FINABEL O.7C method against the 6 main warfare agents. The fabric RSG Chemical Workwear CHEM 3 reached the maximum breakthrough of over 48 hours for the 6 chemical warfare agents

► Chemical permeation

Liquid	Fabric	Seam *
Sulphuric acid 30%	> 480 min	> 480 min
Sodium hydroxide 10%	> 480 min	-

** The last version of EN 14605 norm (types 3 & 4) requires a chemical permeation test between seam and fabric.*