

► CHEM 1

Chemical workwear type 3



Technical specifications

Workwear CHEM 1: Types 3 & 4.

Materials: HD/PE barrier film laminate.

Seams: stitched and locked on the outside with thermoformed PE tape.

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

Color: Yellow.

Packaging: Box of 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: 10.9 N (class EN 2).
- Tear initiation: 79.0 kN/m² (EN 1 class).
- Resistance to flexural cracking: between 1k and 2.5k cycles (class EN 4).
- Trapezoidal tear strength (cd): 43.0 N (class EN 3).
- Seam strength: 112.5 N (class EN 3).

Product description

Chemical workwear CHEM 1 offers protection against dangerous chemical products splashes and sprays. It is a lightweight combination of HD/PE film laminate to a hot-blown, spun-bonded polyethylene (PE) substrate for Type 3 protection against light and hazardous chemicals.

Sewn seams sealed on the outside with thermoformed tape, double zip protected by a storm flap make this workwear 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 with elastics, padded knee pads, and tightening elastics (hood, waist, wrists, and ankles).

► CHEM 1 workwear assets

- Workwear of type 3 & 4 (protection against powerful and directional jets of liquid chemicals).
- Laminated HD/PE film to a polyethylene (PE) substrate, stitched, and sealed for optimum safety.
- Double zip with storm flap for the security of the front closure.
- Large and padded knee pads.
- Ergonomically sized for optimum fit and freedom of movement.

► Chemical repulsion

| Liquid | Repulsion % | Penetration % |
|----------------------|-------------|---------------|
| Sulphuric acid 30% | | 0 % |
| Sodium hydroxide 10% | | 0 % |
| o-Xylene | 94,90 % | 0 % |
| Butane 1-ol | 94,60 % | 0 % |

► 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