# Technical Data Sheet

**Model:** Category III PPE
**Raychem 4000**: Yellow coverall with elasticated hood, wrists, ankles and waist, elasticated thumb loops, flap over the zip. Heat sealed seams with tape
**Raychem 5000**: Yellow coverall with elasticated hood, wrists, ankles and waist, elasticated thumb loops, flap over double zippers. Heat sealed seams with tapes

**Material**: Laminated Polypropylene

EN 13034/05+A1/09
EN ISO 13982-1/05 +A1/09
EN 14605/05+A1/09
**TYPE 3-4-5-6**
Jet and splash tight clothing
particle tight clothing

EN 1149-5:2008
electrostatic
dissipative protective
clothing

EN 1073-2:2003
particulate
radioactive
contamination

EN 14126:2003
biological risks

**Use:** Clothing to be worn to protect against spray, liquid aerosol, airborne solid particulates, infective agents, antistatic properties

**PERFORMANCE – LEVELS AND CLASSES**

| *Test material* | *Result* | *Class* |
|---|---|---|
| Resistance to penetration | | |
| *$H_2SO_4$ 30%* | 0% | 3 |
| *NaOH 10%* | 0% | 3 |
| *o-xylene* | 0% | 3 |
| *Butan 1 ol* | 0% | 3 |
| Repellency to Liquid | | |
| *$H_2SO_4$ 30%* | 98% | 3 |
| *NaOH 10%* | 98% | 3 |
| *o-xylene* | 96% | 3 |
| *Butan 1 ol* | 96% | 3 |
| Resistance to permeation (EN ISO 6529) | | |
| *$H_2SO_4$ 30%* | >480 min | 6 |
| NaOH 10% | >480 min | 6 |
| Abrasion Resistance (EN 530 method 2) | 2000 cycles | 6 |
| Trapezoidal tear resistance (EN ISO 9073-4) | Long 64 N<br>Trasv 39 N | 2 |
| Tensile strength (EN ISO 13934-1) | Long 150 N<br>Trasv 84 N | 2 |
| Puncture resistance (EN 863) | 20 | 2 |
| Flex cracking resistance (EN ISO 7854 method B) | 100'000 cycles | 6 |
| Blocking resistance (EN 25978) | No adherence | pass |
| Electric surface resistance | < 1,2 x$10^7$ Ω | pass |

| *Test coveralls 4000/5000* | *Result* | *Class* |
|---|---|---|
| Spray test (type 4) EN ISO 17491-4 – met. B | Pass | Pass |
| Jet test (type 3) EN ISO 17491-3 | Pass | Pass |
| Aerosol penetration (type 5) | $L_{Ljmn\ 82/90}$≤30%<br>$L_{Ls,8/10}$≤15% | Pass |
| | 1073-2 | Cl 2 |
| Resistance to permeation (EN ISO 6529) | | |
| *$H_2SO_4$ 30%* | >480 min | 6 |
| NaOH 10% | >480 min | 6 |
| Seams tensile strenght (EN ISO 13935-2) - | 136 | 4 |

| *Test* | *Results* | *Class* |
|---|---|---|
| Resistance to penetration by contaminated liquids under hydrostatic pressure (ISO 16604) | KPa **20** | Class 6 |
| Resistance to penetration by infective agents due to mechanical contact with substances containing contaminated liquids. (ISO 22610) | *T* **>75** | Class 6 |
| Resistance to penetration by contaminated liquid aerosols (ISO 22611) | Log **> 5** | Class 3 |
| Resistance to penetration by contaminated solid particles (ISO 22612) | Log ufc ≤ 1 | Class 3 |

**Limitations**: exposition to certain chemicals or high concentrations may require higher barrier properties, either in terms of the performances of material or in the construction of the suit. Such areas can be protected by garments in type 1 to type 2. The user shall be the sole judge of the suitability for the type of protection required and the corrected combinations of coveralls and additional equipment.

**Warnings:**

- Do not use if any defects is noticed (e.g. seam defects, faulty zip)
- Select the correct garment size
- Dressing correctly with a closed zip protected by the flap
- If necessary use additional devices with same characteristics (such as gloves, breathing apparatus, boots etc.) in order to provide for full body protection,
- Coverall meets Ljmn, 82/90 ≤ 30% - Ls 8/10 ≤ 15%
- Wear for long periods of time can cause heat stress
- Heat stress and discomfort can be reduced or eliminated by using appropriate undergarments or suitable ventilation equipment;
- In case of airborne solid particulates it is advisable to cover the zipper and to surround the extremity of the sleeves and the leggings with adhesive ribbon.
- Coveralls are for single use only and must be disposed after any job;
- If any breaking, punctures etc. occur, leave the working area and wear new coverall.
- The person wearing the electrostatic dissipative protective clothing shall be properly earthed. The resistance between the person and the earth shall be less than $10^8$ Ω e.g. by wearing adequate footwear;
- Electrostatic dissipative protective clothing shall not be open or removed whilst in presence of flammable or explosive atmospheres or while handling flammable or explosive substances;
- Electrostatic dissipative protective clothing shall not be used in oxygen enriched atmospheres without prior approval of the responsible safety engineer

**Sizes and body measurements EN ISO 13688** (cm)

| | S | M | L | XL | XXL | XXXL |
|---|---|---|---|---|---|---|
| height | 158-166 | 166-174 | 174-182 | 182-190 | 190-198 | 198-206 |
| chest | 86-94 | 94-102 | 102-110 | 110-118 | 118-129 | 129-141 |
| waist | 74-82 | 82-90 | 90-98 | 98-106 | 106-117 | 117-129 |

**Maintenance:**

| | | | | | |
|---|---|---|---|---|---|
| Do not wash | Do not blench | Do not iron | Do not dry cleaning | Do not dry | Keep away from fire |

**RAYCHEM™ 4000&5000 Applications:**

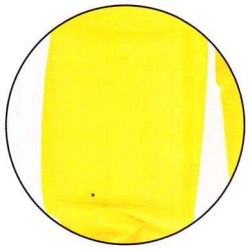
- ☆ Protection aginst liquid tight and infective agents
- ☆ Contaminated liquid aerosols
- ☆ Pharmaceutical
- ☆ Chemical clean up
- ☆ Mining
- ☆ Agriculture
- ☆ Food processing
- ☆ Hazardous waste remediation

Double zip system to have a higher protection

# TYPE3B/4B/5B/6B PROTECTIVE COVERALL



Thumb up to prevent sleeve movement when working



Double kneestrap system to provide higher protection

## RAYCHEM™ 5000

### Description

RAYCHEM 5000 chemical protective coverall with double zip system is designed to help protect against certain light liquid splashes(Type 6), hazardous dusts (Type 5),liquid chemicals (Type 4),infective agents(EN14126) and liquid tight chemicals(type3B).

**RAYCHEM 5000 chemical protective coverall**

Size: S-5XL

Color: White/blue/yellow

Material: SMS/PE 90g

☆ Knitted cuffs are available

☆ Antistatic is available

☆ Double zip is available

☆Thumb up is available

☆ 2 pieces or 3 pieces hood is available

☆ Silicon free