










WHAT IS A CHEMICAL PROTECTIVE GLOVE?

The certification of a protective coverall or cloths in a particular type of protection represents its general impermeability against a specific form of exposure (gas, liquid under pressure, spray, dust). Certification does not necessarily mean that the coverall is 100% impervious to this type of exposure, but that the garment meets the **minimum requirements** of the standard.

> Chemical protective clothing (cat. III) : Types of protection

	Type 1: gas-tight protective clothing. Clothing for protection against liquid and gaseous chemicals, including liquid aerosols and solid particles (EN 943-1:2002 and EN 943-2:2002)
	Type 2: protective clothing that is not gas-tight, but protects against liquid and gaseous chemicals, including liquid aerosols and solid particles (EN 943-1:2002)
	Type 3: protective clothing against liquid chemicals, including exposure to pressurised liquid jets (EN 14605:2005/A1:2009)
	Type 4: protective clothing against liquid chemical sprays (non-pressurised) (EN 14605:2005/A1:2009)
	Type 5: protective clothing against airborne solid particles (EN ISO 13982-1:2004-A1:2010)
	Type 6: limited protective clothing against liquid chemicals, in case of exposure to small quantities of mist or fine spray, or accidental splashes (EN 13034:2005/A1:2009)

> Other applicable standards

	Antistatic protective clothing (material performance and construction standards) (EN 1149-5:2008)
	Protection against contamination by radioactive particles: does NOT protect against radiation (EN 1073-2:2002)
	Protection against infectious agents: protection can also be indicated by the letter B (example: Type 3-B) (EN 14126:2003, includes several test methods)

Other standards are applicable, such as protection against heat or flame, degree of visibility.

Performance classes: for a given type of protection, the supplier must indicate the performance classes of the materials and seams used. Chemical protective clothing is classified into six categories based on the standardised permeation rate (EN 14325):

Normalized transit time (minutes) or cumulative permeation time	EN Class
> 10	1
> 30	2
> 60	3
> 120	4
> 240	5
> 480	6

Source : DuPont

3M Protective Coveralls



Coverall 4530 : breathability and comfort

- > PPE Cat. III, type 5-6 (protection against light splashes and hazardous dusts)
- > SMS non-woven (55 g/m²)
- > Elastic hood, waist and ankles, jersey cuffs
- > Double zip fastener with adhesive flap
- > Blue colour, white triangle on the back
- > Antistatic treatment (EN 1149-5)
- > Flame resistant (ISO 14116 index 1, EN 533)



Coverall 4545: light and flexible, reinforced protection

- > PPE Cat. III, type 5-6 (protection against light splashes and hazardous dusts)
- > Made of soft laminate material (49 g/m²)
- > Elastic waist and ankles, jersey cuffs
- > Double zip fastener with adhesive flap
- > White
- > Low particle release, suitable for use in cleanrooms
- > Protection against infectious agents: type 5-B and 6-B (EN 14126:2003)
- > Antistatic treatment (EN 1149-5)
- > Protection against radioactive particles class 1 (EN 1073-2:2002)



Coverall 4565: reinforced protection and lightness

- > PPE Cat. III, type 4-5-6 against dust, light chemical splashes, low pressure liquid sprays
- > Made of non-microporous laminate material (PP/PE 49 g/m²) with low linting, maximum sealing
- > Elastic waist and ankles, jersey cuffs
- > Double zip fastener with adhesive flap
- > White with red covered seams
- > Suitable for use in clean rooms
- > Protection against infectious agents: type 4-B, 5-B and 6-B (EN 14126:2003)
- > Antistatic treatment (EN 1149-5) on both sides
- > Protection against radioactive particles class 2 (EN 1073-2:2002)



Model	Size M	Size L	Size XL	Size XXL	Units/box	€/box
4530	950027	950028	950029	950030	20	NC -
4545	950256	950257	950258	950259	20	NC -
4565	950260	950261	950262	950263	20	NC -