

# WORK SAFELY WITH HARMFUL CHEMICALS





## Safety Standards Guide

Workers in chemical manufacturing industries face a variety of on-the-job hazards, including flash fire, sharp edges, punctures and exposure to hazardous chemicals, dust and solvents—to name just a few. Providing workers with the protection they need for the hazards they face is a major responsibility. There are five main chemical manufacturing subsegments—commodities, agrochemical, pharmaceutical, speciality




and consumer. Workers in each of these subsegments manufacture a multitude of different products that are critical to our daily lives. While doing this critical work, these essential workers are exposed to a variety of hazards ranging from flash fire and hazardous chemicals, dust and solvents to sharp edges and punctures. As a result, health, safety and environment (HSE) managers have many tasks to balance.

## Buying Guide

### Chemical Protective Clothing – Category III

Type	Description	Norm
 Type 3	Liquid-tight protective clothing, protection against a strong, directed jet of liquid.	EN 14605
 Type 4	Liquid-tight protective clothing, protection against liquid spray aerosol not under pressure.	EN 14605
 Type 5	Solid Particulates protective clothing, protection against solid airborne particles.	EN ISO 13982-1
 Type 6	Limited protective performance against liquid chemicals. Protection against liquid mist.	EN 13034

### Other types of protection

Description	Norm
 Protective Clothing against radioactive contamination.	EN 1073-2*
 Performance requirements and tests methods for protective clothing against infective agents.	EN 14126
 This standard covers two test methods (EN 1149-1 / EN 1149-3) and the performance requirements (EN 1149-5). It specifies material and design requirements for electrostatic dissipative protective clothing used as part of a total earthed system to avoid incendiary discharge of static electricity.	EN 1149-5: 2018

### EN 13034 – TYPE 6 VS. TYPE PB [6]

The standard covers both chemical protective suits (Type 6) and partial body protection (Type PB [6]).

Chemical protective suits (type 6) cover and protect at least the trunk and the limbs, e.g. one piece coveralls or two piece suits with or without hood, boot-socks or boot covers.

Partial body protection of similar limited performance Type PB [6] covers and protects only specific parts of the body, e.g. coats, aprons, sleeves etc.

PPE Regulations (EU) 2016/425 and PPE Regulations 2016/425, as amended and brought into UK law has identified **six levels of protection (Types)** to facilitate the choice of chemical protective clothing. To carry the CE marking, chemical protective equipment (category III) must pass one or more of the garment “Type” tests, meet or exceed the minimum requirements for the materials’ physical and chemical properties, and be correctly identified and labelled. In addition, the products must be manufactured to a consistent quality, and the manufacturer must either hold a quality certificate such as ISO 9000, or be subject to regular inspections by the notified laboratory.

Along with our NEBOSH trained staff, and our preferred supply partners, we can **provide site surveys to customers** in order to evaluate their requirements and identify the most suitable solutions for their needs, taking into consideration the following:

- Chemicals and Processes in the Workplace
- The Working Environment
- Exposure Conditions
- Comfort and Value

Please **contact your local Service Centre** for further details.

