

ChemMax® 1 EB

ChemMax® 1 EB was specifically designed for the UK Government during the 2014-15 Ebola outbreak in West Africa and was used extensively in the Sierra Leone relief effort.

Protection against Ebola in patient care was specifically identified as a Type 4 and not a Type 3 application. This meant a simpler garment than required for Type 3 could be designed, resulting in both an increase in production capacity - important given the high demand - and a reduction in cost.



Lightweight Type 4 chemical suit ideal for tank cleaning, spray cleaning and infectious agent protective applications

Understanding the difference between Type 3 and 4 and deciding which applies to your application can be important in targeting the best protection whilst maximising comfort and minimising cost.

More often than not applications are Type 4 rather than 3. This means users have a greater choice of options that are more flexible, provide greater comfort and are often lower cost. ChemMax® 1 EB is a low cost and lightweight option, ideal for cleaning applications.

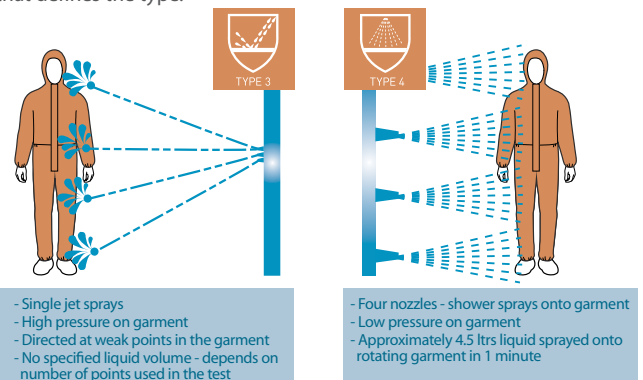
ChemMax® 1 EB

- Soft and flexible ChemMax® 1 fabric for an effective barrier against a broad range of chemicals.
- Type 4 certified according to EN 14605.
- Single zip with sealable zip flap.
- Low noise level for improved communication.
- Ideal for tank and jet cleaning applications.
- Lakeland Super-B style - superior ergonomic styling for improved freedom of movement, comfort and durability.

▶ Note: Some garments claim TYPE 3 certification - yet only when the zip flap is taped up!

The differences between the type tests can help in recognising different applications and determining if they are Type 3 or Type 4.

A test suit is sprayed with a liquid to identify the effectiveness of the suit in minimising penetration. It is the difference in the 'liquid sprays' that defines the type.



Identifying that your application is a Type 4 rather than a Type 3 means greater flexibility to choose a garment that maybe be more comfortable and cost less - such as the ChemMax® 1 EB Type 4 chemical suit.

ChemMax® 1 EB



Lightweight Type 4 chemical suit ideal for tank cleaning, spray cleaning and infectious agent protection.

- Very lightweight, soft and flexible fabric.
- Low noise level - improved comfort and safety.
- Cost effective Type 4 chemical protection.
- Infectious Agent Barrier - passes at highest classes in all four EN 14126 bio-hazard tests (version used extensively by UK Government health workers in 2015 West African Ebola Crisis).
- Thumb loops to secure sleeves.
- Improved Super-B style coverall: superior fit, wearability and durability.
- Three-piece hood, inset sleeves and diamond crotch gusset results in best fitting garment on the market.
- New design three-piece hood with tapered centre piece for superior face and respirator mask fit.
- New higher neck and zip flaps for improved face/neck protection.
- Single zip with storm flap front fastening for safe and secure protection.

Physical Properties

		ChemMax® 1 EB	Brand A	Brand B
Property	EN Standard	CE Class	CE Class	CE Class
Abrasion Resistance	EN 530	2	5	3
Flex Cracking	ISO 7854	1	3	6
Trapezoidal Tear	ISO 9073	3	1	2
Tensile Strength	EN 13934	3	3	2
Puncture Resistance	EN 863	2	2	2
Surface Resistivity	EN 1149	Pass	Pass	Pass
Seam Strength	ISO 5082	170N	>125N	>125N

Permeation Test Data *

Liquid chemicals from EN 6529 Annex A. For a full list of chemicals tested see Permeation Data Tables or Chemical Search at www.lakeland.com/europe. Tested at saturation unless stated.

		ChemMax® 1 EB	Brand A	Brand B
Chemical	CAS No.	CE Class	CE Class	CE Class
Acetone	67-64-1	NT	NT	1
Acetonitrile	70-05-8	NT	NT	Imm
Carbon Disulphide	75-15-0	NT	NT	Imm
Dichloromethane	75-09-2	NT	NT	Imm
Diethylamine	209-89-7	3	NT	Imm
Ethyl Acetate	141-78-6	NT	NT	Imm
n-Hexane	110-54-3	Imm	NT	Imm
Methanol	67-56-1	Imm	NT	6
Sodium Hydroxide (30%)	1310-73-2	6	6	6
Sulphuric Acid (96%)	7664-93-9	6	6	6
Tetrahydrofuran	109-99-9	NT	NT	Imm
Toluene	95-47-6	NT	NT	Imm

* NB = normalised breakthrough. This is the time taken for the PERMEATION RATE to reach 1.0µg/minute/cm² in controlled laboratory conditions at 23°C. It is NOT the point at which breakthrough first occurs. For safe use times see Selection Guide and PermaSURE®.

ChemMax® 1 EB Style



Style code L428IEB
Coverall with hood, cuffs, waist and ankles.
Single zip front zip fastening.
Thumb Loops.

Sizes: S - XXXL

Available in: Yellow Not all styles are available from European stock in this fabric. Please contact our sales office for information on stock items.

Areas shaded green indicate where ChemMax® 1 EB is either equal to or better than the equivalent brand A and B products.