



Protect Your People®



## ChemMax® 1 EB

ChemMax® 1 EB was specifically designed for a greater choice of options that are more flexible, provide greater comfort and are high cost effective.



TYPE 3



TYPE 4



EN 1073-2



EN 1149-5



EN 14126



**CT1SL428IEB**

**Lightweight Type 3 & 4 chemical suit ideal for tank cleaning, Chemical spray and infectious agent protective applications**

### FEATURES

- Soft and flexible ChemMax® 1 fabric for an effective barrier against a broad range of chemicals.
- Type 3 & 4 certified according to EN 14605.
- Single zip with sealable zip flap, thumb loops.
- Low noise level for improved communication.
- Lakeland Super-B style - superior ergonomic styling for improved freedom of movement, comfort and durability.
- Each piece is packed in compressed sealed plastic bags, easy to store and transport. (1 piece/bag, 25 pcs/case)

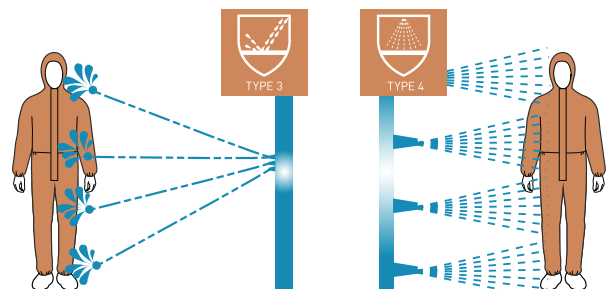


Stitched  
& Taped  
Seams

### KEY APPLICATIONS

- Tank cleaning and liquid chemical storage vessel cleaning.
- Pressure spray applications.
- Agricultural spraying and agricultural chemical applications.
- Chemical spill Handling.
- Acid and Alkali handling.

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.



- Single jet sprays  
- High pressure on garment  
- Directed at weak points in the garment  
- No specified liquid volume - depends on number of points used in the test

- Four nozzles - shower sprays onto garment  
- Low pressure on garment  
- Approximately 4.5 ltrs liquid sprayed onto rotating garment in 1 minute

# ChemMax® 1 EB



Stitched  
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Seams



## Physical Properties

Physical Property	Test Method	Test Result
Abrasion Resistance(No of cycles)	EN530:1994 method 2	100-500
Flex Cracking Resistance	EN ISO7854:1997 method B	1000-2500
Tensile Strength(MD/CD)	EN ISO 13934-1:1999	120N/73N
Tear Resistance(MD/CD)	ISO9073-4:1997	81.5N/43.6N
Puncture Resistance	EN863:1995	13N
Burst Strength	ISO13938-1:1999,50cm²	63.7KPa
Seam Strength	EN ISO 13935-2:1999	170N
Electrostatic properties	EN1149-1:2006/EN1149-5:2008	Pass

## 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](http://www.lakeland.com). Tested at saturation unless stated.

Chemical	CAS No.	Concentration	EN6529/minutes
Sulfuric Acid (Liquid)	7664-93-9	98%	>480
Sodium Hydroxide (Liquid)	1310-73-2	50%	>480
Propionitrile (Liquid)	107-12-0	99%	>480
Phosphoric Acid (Liquid)	7664-38-2	99%	>480
Nitric Acid (Liquid)	7697-37-2	70%	>480
Methyl Chloride (Gas)	74-87-3	99.5%	>480
Isopropanol (Liquid)	67-63-0	99%	>480
Hydrogen Peroxide (Liquid)	7722-84-1	50%	>480
Hydrochloric Acid (Liquid)	7647-01-0	37%	420
Acetonitrile (Liquid)	75-05-8	99%	>480
Dimethyl Formamide (Liquid)	68-12-2	99%	>480
Ethylene Glycol (Liquid)	107-21-1	99%	>480

\* 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.

## Design and Super-B Style



## Lakeland 'Super-B' Style

Lakeland CE garments use a specific ergonomically styled pattern that features a unique combination of the key factors, along with other helpful design elements.

### Three-piece hood

Some garments feature a simple 2-piece hood. Such hoods do not fit the head properly, restrict head movement and generally have a poor fit to respirator masks. Lakeland garments not only feature a 3-piece hood which creates a more 3-D fit and resolves these problems, in addition the centre piece is a 'pointed oval' shape resulting in an even better fitting hood.

### Diamond crotch gusset

The crotch is invariably the point where garments split first, partly because this is where most stress is apparent, and partly because on cheaper garments it is the point where four seams – two body and two leg – meet at one point. Lakeland garments feature an inserted crotch gusset of two dart-shaped fabric pieces. This creates a more shaped body which spreads the stress and allows greater freedom of movement.



### Higher neck line

For improved neck protection and better respirator mask fit.

### Inset Sleeves

Lakeland garments use the more expensive inset sleeve in which the body and arm follows the shape of the body. This allows greater freedom when reaching up and results in much less pulling back of the sleeve.

### Thumb loops

### Single zip and storm flap

ChemMax® garments feature a single zip with handy ring-pulls and single storm flap front fastening for superior protection.