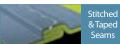


ChemMax® 1EB





















ChemMax® 1 EB Styles





L428IEB

Coverall with elasticated hood, cuffs, waist & ankl Double front zip fastening, cushioned kneepads. Thumb loops Size: SM - 3X

Available in: Yellow



Not all styles are available from European stock in this fabric. Please contact our sales office for information on stock items. Lightweight Type 4 chemical suit ideal for tank cleaning, spray cleaning and infectious agent protection - 87gsm.

- · Very lightweight, soft and flexible fabric.
- · Low noise level improved comfort and safety.
- Cost effective Type 4 chemical protection. (Type 3 with additional tape on flap)
- Infectious Agent Barrier passes at highest classes in all four EN 14126 bio-hazard tests (this version was 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.
- Double zip & storm flap front fastening for safe and secure protection.

↑ ChemMax® 1EB achieves Type 3 only with the zip flap securely taped up.

| Physical Properties | | | | | | |
|---------------------|-------------|------------------------|------------------------|------------------------|--|--|
| | | ChemMax® 1 | 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 | 2 | 3 | 2 | | |
| Puncture Resistance | EN 863 | 2 | 2 | 2 | | |
| Surface Resistance | EN 1149-1 | Pass* (<2.5 x 10°Ω) | Pass* (<2.5 x 10°Ω) | Pass* (<2.5 x 10°Ω) | | |
| Seam Strength | EN 13935-2 | 4 | 4 | 4 | | |

^{*} According to EN 1149-5

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 | 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 | lmm |
| Dichloromethane | 75-09-2 | NT | NT | lmm |
| Diethylamine | 209-89-7 | 3 | NT | Imm |
| Ethyl Acetate | 141-78-6 | NT | NT | Imm |
| n-Hexane | 110-54-3 | Imm | NT | lmm |
| 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 |
| Tetrahydrafurane | 109-99-9 | NT | NT | lmm |
| Toluene | 95-47-6 | NT | NT | lmm |

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®.



Clothing For Protection against Hazardous Chemicals

Selecting the right chemical suit for the job is vital to ensure not only are workers properly protected but that they are not overprotected – which could mean paying more than you need for PPE and that workers suffer more discomfort than necessary.

Chemical protection is defined by three key standards:

Consider three key factors when selecting the most appropriate clothing for an application

Type 4 EN 14605

protection against sprays of hazardous liquide

Type 4 Garments:

MicroMax® TS Cool Suit

ChemMax® Cool Suits

Pyrolon™ CRFR Cool Suit

ChemMax® 1 EB

Type 3 EN 14605

protection against jet sprays of hazardous liquids

Type 3 & 4 Garments: ChemMax® 1 and 2

ChemMax® 3 and 4 Pyrolon™ CRFR and CBFR

Type 1 EN 943-1&2

protection against hazardous vapours and gases

Interceptor® Plus



Note: Type 2 has been removed in the 2015 version of EN 943 so no longer exists.

The **chemical**

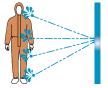
- 'Breakthrough time' provided by (EN 6529 or ASTM F739) permeation tests can be used for comparison of fabrics but provides no information about how long you are safe.
- Consider the hazard presented by the chemical: How toxic is it? Is it harmful in very small quantities?
- Is it carcinogenic or causes long term harm in other ways? Is the application performed in a warm temperature? (permeation rates increase at higher temperatures). What effect does temperature have on the safe use time?
- $Calculate \ a \ maximum \ safe \ use \ time \ using \ permeation \ rates, temperature \ \& \ chemical \ toxicity.$

Use

to calculate safe-use times for Lakeland chemical suits ChemMax® 3. ChemMax® 4 Plus and Interceptor®

spray type?

- Protection against gases and vapours may require a Type 1 gas-tight suit such as Interceptor® Plus
- The type of spray in the application indicates whether a Type 3, 4 or 6 garment is required.
- However, with a highly toxic chemical even if the spray type indicates a Type 6 garment, a higher level of protection might be appropriate.







Approximately 80% or more applications in the market are Type 4 and not Type 3.

Type 3 or Type 4?

Determining that the application is Type 4 rather than Type 3 means selecting more comfortable options such as a ChemMax® Cool Suit.

ńvironment actors

- A variety of factors relating to the task and where it is performed can influence the choice of garment.
- Three groups of factors can be considered.

Factors relating to:

The Task For example: Kneeling / crawling?

Climbing? Confined space? Mobility?

For example: Visibility?, Moving vehicles? Sharp edges?, Heat or flames? Warm conditions?

The Environment

Explosive atmosphere

Others For example: Co-ordination with other PPE? Training required? Donning and doffing?



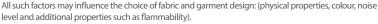






Regulatory issues?





CE Standard physical tests can be used to assess comparative performance in terms of durability using abrasion resistance, tear strength etc.



Use the QR Code or visit:

https://promo.lakeland.com/europe/chemicalsuit-selection-guide

For more information about the factors that contribute to ensuring you select the most appropriate and effective chemical suit for the job, along with details on how to assess safe-wear times, download our Guide to **Chemical Suit Selection**









^{*} Competitor brand results are from competitors' own websites and were correct at the time of publication. Users are recommended to check up to date information with competitors before making any assessment based on specific chemicals. Other chemical test results may be available from competitors.