





















ChemMax® 1

















- Very lightweight, soft and flexible fabric.
- Low noise level improved comfort and safety.
- Very cost effective Type 3 & 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
- Cushioned double-layer knee pads for increased comfort and safety.
- 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.

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

ChemMax® 1 Styles

428 Double front zip fastening,

L428 Double front zip fastening, cushioned kneepads. Thumb loops. Size: SM - 3X

430



430G using Push-Lock® connection Elasticated cuffs,waist & ankles. Double front zip fastening, cushioned kneepads. Size: SM - 3X









Encapsulated suit with flat back. To be worn with a breathing mask fed by compressed air hose. This can be fed through the air inlet hose to the mask worn inside the suit.

025

Available in: Yellow

Encapsulated suit with expanded back. To be worn with self-contained breathing apparatus for breathing purposes. Size: MD - 2X

Sieeves Size: One size





Size: MD - XL



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

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	lmm
Carbon Disulphide	75-15-0	NT	NT	lmm
Dichloromethane	75-09-2	NT	NT	lmm
Diethylamine	209-89-7	3	NT	lmm
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
Tetrahydrafurane	109-99-9	NT	NT	Imm
Toluene	95-47-6	NT	NT	lmm

 $^{{\}rm *NB = normalised\ breakthrough. This\ is\ the\ time\ taken\ for\ the\ PERMEATION\ RATE\ to\ reach\ 1.0\mu g/minute/NB}$ 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**

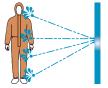
- 'Breakthrough time' provided by (EN 6529 or ASTM F739) permeation tests can be used for comparison of fabrics but provides no information about how long you are safe.
- Consider the hazard presented by the chemical: How toxic is it? Is it harmful in very small quantities?
- Is it carcinogenic or causes 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?



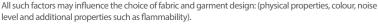






Regulatory issues?





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.