

Superior multi-layer barrier films laminated to spunbond PP substrate - 170qsm

- Extruded fabric construction. Results in smoother and more consistent fabric than bonded or glued competitors.
- · Superior softness and flexibility and more consistent chemical barrier (no 'pinching' or thinner bond points as seen in competitor fabrics).
- European manufactured fabric, tested against a full range of chemical warfare agents for anti-terror and civil defense operations.
- · Very low noise level. Safer and improved comfort.
- 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 center 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						
		Brand C	Brand D	ChemMax [®] 4 Plus	Brand E	Brand F
Property	EN Std	CE Class	CE Class	CE Class	CE Class	CE Class
Abrasion Resistance	EN 530	6	6	6	6	6
Flex Cracking	ISO 7854	1	5	1	1	1
Trapezoidal Tear	ISO 9073	2	3	MD 5 / CD 4	5	3
Tensile Strength	EN 13934	3	2	3	4	4
Puncture Resistance	EN 863	2	2	2	2	2
Burst Strength	EN 13938	NA	2	2	NA	NA
Seam Strength	EN 13935-2	4	4	4	5	5

ChemMax[®] 4 Plus Styles



430

Coverall with elasticized hood, cuffs, waist & ankles. Double front zip fastening, cushioned kneepads. Size: S - XXXL



Coverall 'Plus' with hood and attached feet/boot flap Elasticized cuffs and waist. Double front zip fastening, cushioned kneepads. Size: S - XXXL



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. Size: M - XXL





Encapsulated suit with expanded back. To be worn with self-contained breathing apparatus for breathing purposes. Size: M - XXL



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

		Brand C	Brand D	ChemMax®4 Plus	Brand E	Brand F
Chemical	CAS No.	CE Class	CE Class	CE Class	CE Class	CE Class
Acetone	67-64-1	6	6	6	6	6
Acetonitrile	70-05-8	6	6	6	6	6
Carbon Disulphide	75-15-0	6	Imm	6	6	6
Dichloromethane	75-09-2	Imm	lmm	6	6	6
Diethylamine	209-89-7	6	lmm	6	6	6
Ethyl Acetate	141-78-6	6	6	6	6	6
n-Hexane	110-54-3	6	6	6	6	6
Methanol	67-56-1	6	6	6	6	6
Sodium Hydroxide (50%)	1310-73-2	NA	6	6	6	6
Sulphuric Acid (98%)	7664- 93-9	6	6	6	6	6
Tetrahydrafuran	109-99-9	6	6	6	6	6
Toluene	95-47-6	6	6	6	6	6
Chemical- gas						
Ammonia 99%	7664- 41-7	6	6	6	6	6
Chlorine 99.5%	7782- 50-5	6	6	6	6	6
Hydrogen Chloride (99%)	7647- 01-0	6	6	6	6	6

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®.

* NB = normalised breakthrough. This is the time taken for the PERMEATION RATE to reach $1.0 \mu g/minute/cm2$ in controlled laboratory conditions at 23oc. It is NOT the point at which breakthrough first occurs. For safe use times see Selection Guide and PermaSURE®. Areas shaded green indicate where ChemMax® 4 Plus is either equal to or

better than the equivalent brand C , D, E and F products.

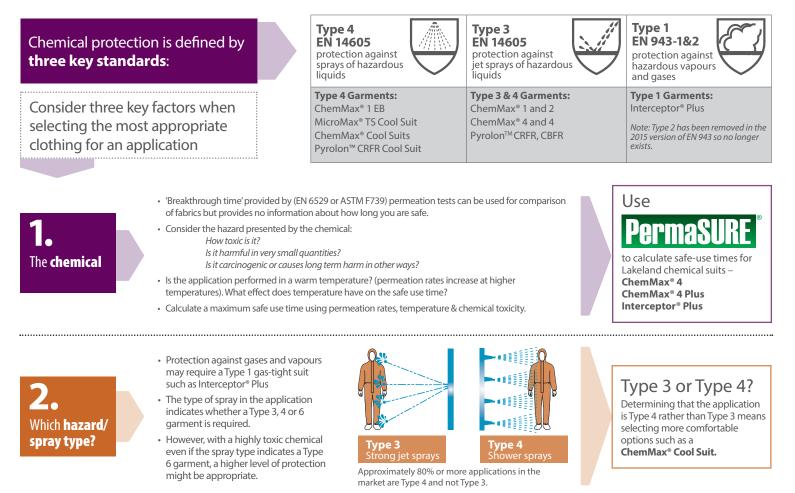


Use PermaSURE® to quickly calculate safe wear times for ChemMax® 4 Plus



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 over-protected – which could mean paying more than you need for PPE and that workers suffer more discomfort than necessary.





- 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	The Environment	Others		
For example: Kneeling / crawling? Climbing? Confined space? Mobility?	For example: Visibility?, Moving vehicles? Sharp edges?, Heat or flames? Warm conditions? Explosive atmosphere?	For example: Co-ordination with other PPE? Training required? Donning and doffing? Regulatory issues?		
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All such factors may influence the choice of fabric and garment design: (physical properties, colour, noise level and additional properties such as flammability).

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://www.lakeland.com/canada/brands/chemmax-1

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**



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www.lakeland.com/ca