ChemMax[®] 4 Plus Powered by PermaSURE[®]







Superior multi-layer barrier films laminated to spunbond PP substrate - 210gsm.

- 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 defence operations.
- Works with PermaSURE® app to calculate safe-use times against over 4000 chemicals.
- Very soft and flexible materials for enhanced 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 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										
		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	4	5	3				
Tensile Strength	EN 13934	3	2	3	4	4				
Puncture Resistance	EN 863	2	2	2	2	2				
Anti-static (Surface Resistance	EN 1149-1	Pass* (<2.5 x 10°Ω)	Pass* (<2.5 x 10°Ω)	Pass* (<2.5 x 10 ⁹ Ω)	Pass* (<2.5 x 10°Ω)	Pass* (<2.5 x 10°Ω)				
Seam Strength	EN 13935-2	4	4	4	5	5				

* 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.

		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	Imm	6	6	6			
Diethylamine	209-89-7	6	Imm	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			
* NB = normalised breakthrough. This is the time taken for the PERMEATION RATE to reach 1.0µg/minute/cm ² 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®.									



[®] <u>Use PermaSURE® to quickly calculate</u> 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 overprotected – which could mean paying more than you need for PPE and that workers suffer more discomfort than necessary.



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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* 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.



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