ChemMax[®] 1 Cool Suit

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The ChemMax[®] 1 Cool Suit uses the unique Type 4 Cool Suit[®] design with Lakeland's lightweight and flexible ChemMax[®] 1 chemical suit fabric to produce a chemical splash suit that features improved comfort over standards chemical suits.



ChemMax[®] 1 Cool Suit Styles



Styles Code: CT1SCF428 Coverall with elasticated hood, cuffs, waist and ankles. Sizes: SM - 3x



Available in: Yellow (with green seams)

- ChemMax[®] 1 coverall with a breathable rear panel covered by a ChemMax[®] 1 flap sealed at top and sides and with an open overlapped flap at the bottom to allow free circulation of air inside and outside the suit.
- Yellow fabric with green seams for easy identification.
- The 'bellows effect' assists in ensuring effective circulation of air.
- · Stitched and taped seams for effective protection.
- Fabric is light and flexible to improve comfort further.
- Suitable for protection against a broad range of hazardous chemicals in applications with Type 4 splashes and sprays*
- Super-B style pattern featuring three piece hood with tapered centre section, two-piece crotch gusset and inset sleeves.

* Note : ChemMax[®] Cool Suits are for Type 4 applications only. The covered breathable rear panel has a much lower chemical barrier than the main body fabric and so the garment should not be used in any application where there is a possibility of a chemical being sprayed or splashed under the rear flap.

| 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 | | | | |
| Anti-Static (Surface Resistance) | EN 1149-1 | Pass* (<2.5 x 10 ⁹ Ω) | Pass* (<2.5 x 10 ⁹) | Pass* (<2.5 x 10°) | | | | |
| Seam Strength | EN 13935 | 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 Table 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 | Imm | | | |
| Dichloromethane | 75-09-2 | NT | NT | Imm | | | |
| Diethylamine | 209-89-7 | 3 | NT | lmm | | | |
| Ethyl Acetate | 141-78-6 | NT | NT | Imm | | | |
| n-Hexane | 110-54-3 | Imm | NT | lmm | | | |
| Methanol | 67-56-1 | lmm | 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 | Imm | | | |

* 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. For safe use times see Selection Guide and PermaSURE®.

The physical and permeation data relates to the ChemMax^{\circ} 1 main body fabric only and not to the concealed rear breathable panel which has different properties and much lower resistance to penetration or permeation of chemicals. For properties of the breathable panel see SafeGardTM GP information.

* 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.

Lakeland Industries Europe Limited



Introduction: The Cool Suit® Principle - Breathable Protection



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