

# TECHNICAL DATA SHEET

## ChemMax 1 EB

Certificate 523187-1

**Product description** - Lightweight disposable chemical suit for protection against splashes and sprays of hazardous chemicals in type 3 and type 4 applications.

**Fabric** - HD/PE barrier film laminate – 87gsm.

**Seam type** - Stitched and PE taped.

**Style** - CT1SL428 - coverall with hood, zipper, inset sleeves, elastic waist and thumb loops



### CE Certification

BS EN ISO 13688:2013  
 BS EN 14605:2005+A1:2009  
 BS EN ISO 13982-1:2004/A1:2010  
 BS EN ISO 13034:2005+A1:2009  
 BS EN 14126:2003  
 BS EN 1073-2:2002  
 BS EN 1149-5:2008

Protective clothing general requirements  
 Protective clothing against liquid chemicals Type 3\*\* and Type 4  
 Protective clothing for use against solid particulates Type 5  
 Protective clothing against liquid chemicals Type 6  
 Protective clothing against infective agents  
 Protective clothing against radioactive contamination  
 Protective clothing electrostatic properties

### Mechanical Properties

EN 530  
 EN ISO 7854 method B  
 EN ISO 9073-4  
 EN ISO 13934-1  
 EN 863  
 EN ISO 13935-2

### Test

Abrasion resistance  
 Flex cracking resistance  
 Tear resistance  
 Tensile strength  
 Puncture resistance  
 Seam strength

### Result

>100 - <500 Cycles  
 >1,000 - <2,500 Cycles  
 MD = 81N / CD = 43N  
 MD = 120N / CD = 73N  
 13N  
 170N

### Class

Class 2  
 Class 1  
 Class 4/3  
 Class 3/2  
 Class 2  
 Class 4

### Chemical Permeation ISO6529/ASTMF739 Breakthrough Time

Sodium Hydroxide 50% (1310-73-2)  
 Sulfuric Acid 98% (7664-93-9)  
 Phenol 80% (108-95-2)  
 Acetone (67-64-1)  
 Acetonitrile (75-05-8)  
 Carbon Disulphide (75-15-0)  
 n-Butanol (71-36-1)

>480mins  
 >480mins  
 >480mins  
 >480mins  
 >480mins  
 >480mins  
 >480mins

### Breakthrough Class\*

Class 6  
 Class 6  
 Class 6  
 Class 6  
 Class 6  
 Class 6  
 Class 6

\*For further information on chemical performance or to search for a specific chemical visit: [www.lakeland.com/europe](http://www.lakeland.com/europe)

### Protection against Liquid Chemicals EN ISO 6530

Butan – 1 - Ol (71-36-3)  
 O – Xylene (95-47-6)  
 Sodium Hydroxide 10% (1310-73-2)  
 Sulphuric Acid 30% (7664-93-9)

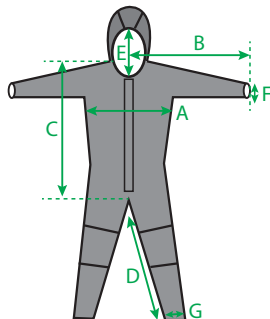
### Repellency

Class 3 - 97.3%  
 Class 3 - 95.6%  
 Class 3 - 95.4%  
 Class 3 - 95.5%

### Penetration

Class 3 - 0%  
 Class 3 - 0%  
 Class 3 - 0%  
 Class 3 - 0%

\*\*Taping of the zip flap using high adhesive tape is required for Type 3 protection



### Garment Dimensions

Item	SML	MED	LRG	XL	XXL	XXXL
<b>A. Chest</b>	59.75	63	66	70	76	81
<b>B. Sleeve</b>	85	86	89	92	95	102
<b>C. Back Length</b>	92	93	97	102	106	113
<b>D. Inseam</b>	76	76	76	80	81	82
<b>E. Hood opening</b>	18-20	18-20	18-20	18-20	20-22	20-22
<b>F. Cuffs</b>	8-9	8-9	8-9	8-9	8-9	8-9
<b>G. Ankles</b>	14-15	14-15	14-15	14-15	14-15	14-15
<b>Barcode 5060522</b>	170006	170013	170020	170037	170044	170051

### Packaging and Other Information

- Individually packed in vacuum sealed bags
- 10 units per carton
- Store in normal conditions – cool and away from strong light
- Shelf life: 10 years



Download  
 Declaration of Conformity

Version: 5.2.19

## ChemMax® 1 Styles



Style code L428 Size: S - 3XL

Coverall with elasticated hood, cuffs, waist and ankles.  
Single front zip fastening, thumbloops.

Available in: Yellow 



### Lakeland 'Super-B' Style

Lakeland CE garments use a specific ergonomically styled pattern that features a unique combination of three key factors, along with other helpful design elements.

#### 1 Three-piece hood with shaped centre-piece

Some cheaper garments feature a simple 2-piece hood. Such hoods do not fit the head properly, restrict head movement and generally have a poor fit to respirator masks.

Lakeland garments not only feature a 3-piece hood which creates a more 3-D fit and resolves these problems, in addition the centre piece is a 'pointed oval' shape resulting in an even better fitting hood.

#### 2 Two-piece crotch gusset

The crotch is invariably the point where garments split first, partly because this is where most stress is apparent, and partly because on cheaper garments it is the point where four seams – two body and two leg - meet at one point.

Lakeland garments feature an inserted crotch gusset of two dart-shaped fabric pieces. This creates a more shaped body which spreads the stress and allows greater freedom of movement.

#### 3 Inset Sleeves

Most garments use the traditional 'bat-wing' style sleeve, in which the body forms a diagonal between the elbow and the waist. This is cheaper to produce as it uses less fabric, but it also restricts movement when a user reaches up. It also explains why some garments need thumb loops – because it results in pulling back of the sleeve and cuff.

Lakeland garments use the more expensive inset sleeve in which the body and arm follows the shape of the body. This allows greater freedom when reaching up and results in much less pulling back of the sleeve – so no thumb loops are required.

*\* Many Lakeland garments are available in versions with thumb-loops where they are required for other reasons.*



#### 4 Cushioned Knee-Pads

ChemMax® garments and some Cool Suits® feature double-layer cushioned knee-pads which add comfort and durability in applications where crawling or kneeling is required.

#### 5 Double zip and storm flap

ChemMax® garments feature a double zip with handy ring-pulls and double storm flap front fastening for superior protection.

#### 6 Higher neck line

For improved neck protection and better respirator mask fit.

#### 7 CE Chest Label

Lakeland CE coveralls feature a chest label containing all the legally required marking for CE certification, so users and supervisors can easily identify the correct garment is being worn.

#### 8 Push-Lock® glove connection system

All Lakeland chemical suits feature cuffs designed to work with the Push-Lock® glove connection system (see page 9) which provides a fully sealed, Type 3 tested connection with most chemical gloves.



a member of



Notified Body: SATRA 2777 D15YN2P Product certification: BTTG 0338 M17 1EG.  
For further information see [www.lakeland.com/europe](http://www.lakeland.com/europe) or contact [sales-europe@lakeland.com](mailto:sales-europe@lakeland.com)  
No information provided is intended to guarantee product suitability for any specific application:  
It is always the user's final responsibility to ensure garment suitability.  
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Company Registration No: 4500660: For financial information see [www.lakeland.com/financial](http://www.lakeland.com/financial)

