

# TECHNICAL DATA SHEET

## MicroMax NS Certificate 523142-1

**Product description** - High quality microporous film laminate fabric provides superior liquid resistance against liquids, light oils and light sprays of liquid chemicals.

**Fabric** - Microporous film laminate. 63 gsm. (Available in White and Orange)

**Seam type** - 3 thread over lock stitch

**Style** - EMN428 - Coverall with elasticated 3-piece hood, cuffs, ankles and waist. Diamond crotch gusset.  
For other styles see overleaf.



### CE Certification

BS EN ISO 13688:2013  
BS EN ISO 13982-1:2004  
BS EN ISO 13034:2005  
BS EN 1073-2:2002  
BS EN 1149-1:2006  
BS EN 14126:2003

Protective clothing general requirements.  
Type 5 equipment for protection against from hazardous dry particles.  
Type 6 equipment for protection against reduced Spray of liquid chemicals.  
Protective clothing against particulate radioactive contamination.  
Protective clothing. Electrostatic properties. Performance requirements.  
Protection from biological hazards Type 5B and Type 6B.

### 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  
>15,000 <40,000 Cycles  
MD = 58.5N / CD = 31.95  
MD = 79.87N / CD = 34N  
>9.95N  
88.8N

### Class

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

### Protection against Liquid Chemicals EN ISO 6530

Sodium Hydroxide 10% (1310-73-2)  
Sulphuric Acid 30% (7664-93-9)  
Hydrochloric Acid 30% (7647-01-0)  
Butan-1-ol (71-36-3)  
o-Xylene (108-38-3)  
N-Heptane (142-82-5)  
Isopropanol (67-63-0)

### Repellency

Class 3 - 97.3%  
Class 3 - 97.1%  
Class 3 - 97.4%  
Class 3 - 98.2%  
Class 3 - 96%  
Class 2 - 88.7%  
Class 3 - 92.6%

### Penetration

Class 3 - 0%  
Class 3 - 0%  
Class 3 - 0%  
Class 3 - 0%  
Class 3 - 0%  
Class 3 - 0.2%  
Class 3 - 0.1%

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

### EN 14126 Barrier to Infective Agents

ISO 16604 Resistance to penetration by blood /fluid under pressure  
EN 22610 Resistance to wet bacterial penetration (mechanical contact)  
ISO 22611 Resistance to biologically contaminated aerosols  
ISO 22612 Resistance to dry microbial penetration

### Result

Pass to 20kPa  
No penetration (up to 75 mins)  
No penetration  
No penetration

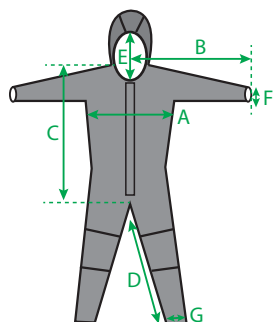
### Class

6 of 6  
6 of 6  
3 of 3  
3 of 3

Note:

We recommend a garment with bound or sealed seams for improved protection against infective agents – for example MicroMax or MicroMax TS

\*ISO 16603 is a screening test used to predict the starting point for the ISO 16604 test. All ChemMax garments achieve Class 6 in this test but ISO 16603 alone is not a reliable indicator of protection against infective agents.



### 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
- 25 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



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)



## MicroMax NS® Styles



Style code 428 Size: S-3XL  
Coverall with elasticated hood, cuffs, waist and ankles.



Style code L428 Size: S-3XL  
Coverall with elasticated hood, cuffs, waist and ankles. Thumb loops.



Style code 414 Size: S-3XL  
Coverall with elasticated hood, cuffs, waist and attached socks.



Style code 101 Size: S-3XL  
Lab coat with two hip pockets and four stud fastenings.



Style code 101Z Size: M-XL  
Lab Coat with 2 hip pockets, zip fastening



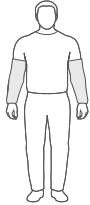
Style code 024KC One size  
Sleeves



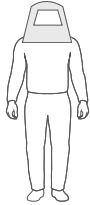
Style code 017 Size: S-3XL  
Jacket, with collar, zip, double flaps with adhesive tape on it.



Style code 025 Size: S-3XL  
Apron with ties.



Style code 024 One size  
Sleeves



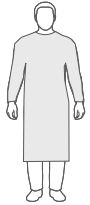
Style code 021 One size  
Cape hood.



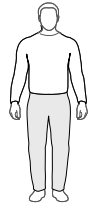
Style code 023NS Size: L-XL  
Overboots with anti-slip sole



Style code 020 One size  
Cape hood with elasticated face opening



Style code 527 Size: M-XL  
Smock / Gown with rear entry ties and elasticated cuffs.



Style code 016 Size: S-3XL  
Trousers with elasticated waist.



Style code 022NS  
Overshoes with elasticated tops, anti-slip soles.  
Size: One size

Style code 022ANS  
Overshoes with elasticated tops, anti-static soles.  
Size: One size

Available in: White  Green  Orange   
Not all styles are available from European stock in this fabric



### 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.



Notified Body: SATRA 2777 D15YN2P Product certification: BTG 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.  
**Lakeland Industries Europe Ltd, Unit 9**  
Company Registration No: 4500660: For financial information see [www.lakeland.com/financial](http://www.lakeland.com/financial)

