TECHNICAL DATA SHEET

Lakeland
Protect Your People™

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	Protective clothing general requirements.
BS EN ISO 13982-1:2004	Type 5 equipment for protection against from hazardous dry particles.
BS EN ISO 13034:2005	Type 6 equipment for protection against reduced Spray of liquid chemicals.
BS EN 1073-2:2002	Protective clothing against particulate radioactive contamination.
BS EN 1149-1:2006	Protective clothing. Electrostatic properties. Performance requirements.
BS EN 14126:2003	Protection from biological hazards Type 5B and Type 6B.

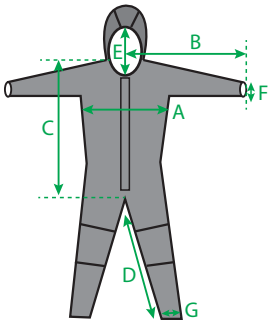
Mechanical Properties	Test	Result	Class
EN 530	Abrasion resistance	>100 <500 Cycles	Class 2
EN ISO 7854 method B	Flex cracking resistance	>15,000 - <40,000 Cycles	Class 4
EN ISO 9073-4	Tear resistance	MD = 58.5N / CD = 31.95	Class 3/2
EN ISO 13934-1	Tensile strength	MD = 79.87N / CD = 34N	Class 2/1
EN 863	Puncture resistance	>9.95N	Class 1
EN ISO 13935-2	Seam strength	88.8N	Class 3

Protection against Liquid Chemicals EN ISO 6530	Repellency	Penetration
Sodium Hydroxide 10% (1310-73-2)	Class 3 - 97.3%	Class 3 - 0%
Sulphuric Acid 30% (7664-93-9)	Class 3 - 97.1%	Class 3 - 0%
Hydrochloric Acid 30% (7647-01-0)	Class 3 - 97.4%	Class 3 - 0%
Butan-1-ol (71-36-3)	Class 3 - 98.2%	Class 3 - 0%
o-Xylene (108-38-3)	Class 3 - 96%	Class 3 - 0%
N-Heptane (142-82-5)	Class 2 - 88.7%	Class 3 - 0.2%
Isopropanol (67-63-0)	Class 3 - 92.6%	Class 3 - 0.1%

*For further information on chemical performance or to search for a specific chemical visit: www.lakeland.com/europe

EN 14126 Barrier to Infective Agents	Result	Class
ISO 16604 Resistance to penetration by blood /fluid under pressure	Pass to 20kPa	6 of 6
EN 22610 Resistance to wet bacterial penetration (mechanical contact)	No penetration (up to 75 mins)	6 of 6
ISO 22611 Resistance to biologically contaminated aerosols	No penetration	3 of 3
ISO 22612 Resistance to dry microbial penetration	No penetration	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
A. Chest	59.75	63	66	70	76	81
B. Sleeve	85	86	89	92	95	102
C. Back Length	92	93	97	102	106	113
D. Inseam	76	76	76	80	81	82
E. Hood opening	18-20	18-20	18-20	18-20	20-22	20-22
F. Cuffs	8-9	8-9	8-9	8-9	8-9	8-9
G. Ankles	14-15	14-15	14-15	14-15	14-15	14-15
Barcode 5060522	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

SATRA TECHNOLOGY BS EN ISO 9001 Registered Company SATRA Certificate No.019124 Standard Issue 2015
UKAS MANAGEMENT SYSTEMS 0056

Notified Body: SATRA 2777 D15YN2P Product certification: BTTG 0338 M17 1EG.
For further information see www.lakeland.com/europe or contact 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 9-10, Jet Park, Jet Park Way, Newport, East Yorkshire, HU15 2JU. UK
Company Registration No: 4500660: For financial information see www.lakeland.com/financial

BSiF Registered Safety Supplier

MicroMax NS® Styles

Style code 428 Size: S - 3XL

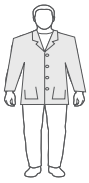
Coverall with elasticated hood,cuffs, waist and ankles.

Style code L428 Size: S - 3XL

Coverall with elasticated hood,cuffs, waist and ankles. Thumb loops.

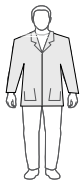
Style code 414 Size: S - 3XL

Coverall with elasticated hood,cuffs, waist and attached socks.



Style code 101 Size: S - 3XL

Lab coat with two hip pockets and four stud fastening.



Style code 101Z Size M-XL

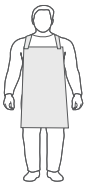
Lab Coat with 2 hip pockets, zip fastening

Style code 024KC One size

Sleeves

Style code 017 Size S-3XL

Jacket, with collar, zip double flaps with adhesive tape on it.

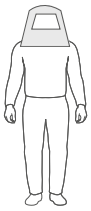


Style code 025 Size S-3XL

Apron with ties.

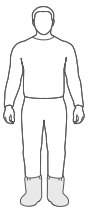
Style code 024 One size

Sleeves



Style code 021 One size

Cape hood.

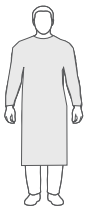


Style code 023NS Size: L - XL

Overboots with anti-slip sole

Style code 020 One size

Cape hood with elasticated face opening

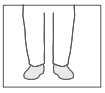


Style code 527 Size M-XL

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

SUPER B-STYLE by Lakeland

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.

SATRA TECHNOLOGY BS EN ISO 9001 Registered Company SATRA Certificate No.819124 Standard Issue 2015

UKAS MANAGEMENT SYSTEMS 0056

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For further informa on see www.lakeland.com/europe or contact 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

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