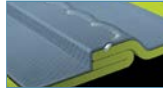


MicroMax® TS



Stitched
& Taped
Seams



Microporous film laminate fabric with stitched and taped seams for enhanced Type 4 protection

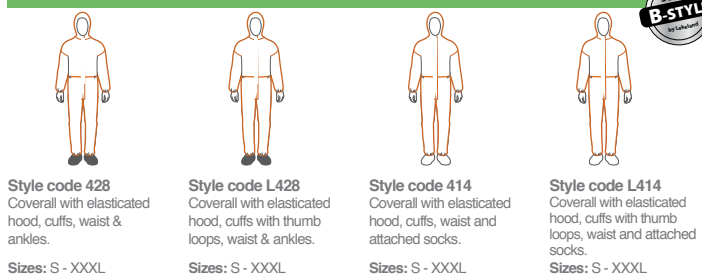
- Addition of orange taped seams to MicroMax® NS coverall – lightweight and flexible coverall for heavier Type 4 sprays of liquids. (Product Code EMNT428OE)
- Fabric passes all tests in the EN 14126 infectious agent standard. Added taped seams makes MicroMax® TS suitable for many medical, pharmaceutical and biological applications.
- Soft and flexible high quality microporous film laminate offers excellent combination of protection and comfort.
- High moisture vapour transmission rate allows escape of vapour to maintain comfort.
- TGA approved- ARTG No. 341280
- Lakeland "Super-B" ergonomic styling – unique combination of three design elements to optimise fit, durability and freedom of movement.
- Three piece hood for rounder head shape and greater comfort.
- Inset sleeves – torso shaped to body to maximise freedom of movement and negate the need for thumbloops.
- Two piece crotch gusset – enhances freedom of movement and reduced crotch splitting.

Physical Properties

		MicroMax® NS/TS	MicroMax®	SafeGard® GP	SafeGard® 76	Flashspun PE
Property	EN Std	CE Class	CE Class	CE Class	CE Class	CE Class
Abrasion Resistance	EN 530	2	3	2	2	2
Flex Cracking	ISO 7854	4	6	5	5	6
Trapezoidal Tear	ISO 9073	2	2	3	3	1
Tensile Strength	EN 13934	1	1	2	2	1
Puncture Resistance	EN 863	1	1	1	1	2
Anti-static (Surface Resistance)	EN 1149-1	Pass* ($<2.5 \times 10^9 \Omega$)	Pass* ($<2.5 \times 10^9 \Omega$)	Pass* ($<2.5 \times 10^9 \Omega$)	Pass* ($<2.5 \times 10^9 \Omega$)	Pass* ($<2.5 \times 10^9 \Omega$)
Seam Strength	EN 13935-2	3	3	3	3	3

* According to EN 1149-5

MicroMax® TS Styles



Style code 428
Coverall with elasticated
hood, cuffs, waist &
ankles.

Sizes: S - XXXL

Style code L428
Coverall with elasticated
hood, cuffs with thumb
loops, waist & ankles.

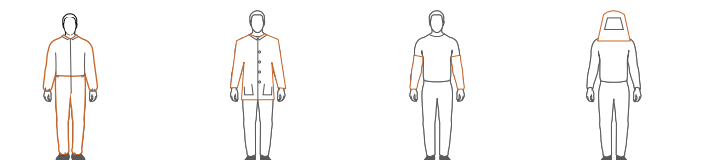
Sizes: S - XXXL

Style code 414
Coverall with elasticated
hood, cuffs, waist and
attached socks.

Sizes: S - XXXL

Style code L414
Coverall with elasticated
hood, cuffs with thumb
loops, waist and attached
socks.

Sizes: S - XXXL



Style code 412
Coverall with collar,
elasticated cuffs, thumb
loops, waist & ankles.

Size: M - XL

Style code 101
Lab coat with two hip
pockets. 4 stud fastening.

Size: M - XL

Style code 024
50cm sleeves with
elasticated ends.

Size: One size

Style code 020
Cape hood with elasticated
face opening.

Size: One size

Style code 022 - Standard overshoes with elasticated top
Style code 022NS - Overshoes with elasticated top, anti-slip sole
Style code 022ANS - Overshoes with elasticated top, anti-static sole
Style code 023NS - Overboots with elasticated top, 2 ankle ties and anti-slip sole

Size: One size
Size: One size
Size: One size

Available in: White (with orange seams)

Not all styles are available from stock in this fabric. Please contact our sales office for information on stock items.

Chemical Repellency and Penetration EN 6530

	MicroMax® NS/TS		MicroMax®		SafeGard® GP		SafeGard® 76		Flashspun PE	
Chemical	R	P	R	P	R	P	R	P	R	P
Sulphuric Acid 30% CAS No. 67-64-1	3	3	3	3	3	3	3	3	3	3
Sodium Hydroxide CAS No. 1310-73-2	3	3	3	3	3	3	3	3	3	3
O-Xylene CAS No. 75-15-0	3	2	3	2	NT	NT	NT	NT	1	1
Butanol CAS No. 75-09-2	3	2	3	2	NT	NT	NT	NT	2	1

Breathability - measured by air permeability and moisture vapour transmission rate (MVTR)

	MicroMax® NS/TS	MicroMax®	SafeGard® GP	SafeGard® 76	Flashspun PE	Cotton T-shirt
Air permeability cubic feet/minute (cfm)	<0.5	<0.5	40	40	~3.3	180
MVTR	119.3	NT	NT	NT	111.2	NT

Infectious Agent / Biological Hazard Protection





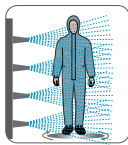
Tested according to EN 14126. This consists of four different tests to assess protection against different forms of classification. Note these tests are on fabric only. We would always recommend a garment with sealed seams such as MicroMax® TS for protection against infectious agent hazards.

Test Description	Test No.	MicroMax® NS/TS	SafeGard® GP/76	Flashspun PE
Protection against blood and body fluids	ISO 16604:2004	6 (max is 6)	Not recommended	<1
Protection against biologically contaminated aerosols	ISO 22611:2003	3 (max is 3)	Not recommended	1
Protection against dry microbial contact	ISO 22612:2005	3 (max is 3)	Not recommended	1
Protection against mechanical contact with substances containing contaminated liquids	EN 14126:2003 Annex A	6 (max is 6)	Not recommended	1


Clothing For Protection against Type 5 and 6 Hazards

Essential Guide to Garment Selection


There are many different brands of Type 5 & 6 coveralls in the market - yet there are only three essential types of fabrics used to make them. So which fabric is the best choice? That depends on the application and the balance to be achieved between protection, comfort and durability.

 Type 5 EN 13982 protection against hazardous dry particles	 EN 1073-2 protection against dust contaminated with radiation	 Type 6 EN 13034 protection against reduced/light liquid sprays and splashes
Type 5- Hazardous Dry Particles <ul style="list-style-type: none"> - Spray cabin filled with dust - Subject performs exercise on treadmill - 3 particle counters <i>inside</i> the suit - Particle "Inward leakage" calculated - Recorded as % of inward leakage (TIL) 	EN 1073-2 testing is a variation of the standard Type 5 test.	Type 6 - Reduced Liquid (aerosol) Spray <ul style="list-style-type: none"> - Four nozzles - aerosol spray of liquid - Subject rotates on turntable - Inside absorbent suit checked for penetration - Pass or Fail according to test criteria 


Three types of fabric are used to make all Type 5 & 6 garments on the market.



Flashspun Polyethylene (FSPE)



**SMMS - Spunbond-Meltblown-Spunbond
Lakeland SafeGard™**



**Microporous Film Laminate (MPFL)
Lakeland MicroMax®**

All Type 5 & 6 garments on the market are one of these or variations of these.



How do these fabrics compare? Three important factors can be considered:

1. Liquid Protection	Type 6 CE testing includes liquid repellency and penetration tests against four chemicals. In two of the four chemicals, Lakeland MicroMax® options achieve superior results than the closest alternative.	CE testing for Infectious Agents to EN 14126 includes tests against four types of contamination. In all four tests MicroMax® options achieve superior results and the highest class compared to the FSPE alternative, which is unclassified in the critical ISO 16604 test.
2. Physical Properties	Testing as part of CE certification allows comparison of strength properties: abrasion - tensile strength - trapezoidal tear etc. In comparisons of the three fabric types Lakeland SafeGard™ or MicroMax® options offer a superior choice compared to the alternative FSPE option in most cases.	
3. Comfort and Breathability	Comfort is primarily a result of air permeability. Independent testing indicates the difference between MicroMax® and FSPE is minimal and close to zero. Both have very low air permeability. The Lakeland SafeGard™ option has an air permeability over 10 times that of the alternatives and is the superior choice for a comfortable garment.	A common sense approach and simple 'home' tests clearly confirm both the low air-permeability of MicroMax® and FSPE and the superior air-permeability of SafeGard™. Where protection and comfort are required, Lakeland Cool Suit® options provide the best of both MicroMax® and SafeGard™ fabrics and may be the best choice available.
Type 5 and 6 garments can be selected on the basis of a combination of three factors: <ol style="list-style-type: none"> 1. Protection 2. Physical Properties 3. Comfort and Breathability 		For all three factors, Lakeland garments provide the best choice ...



Use the QR Code or visit:

<https://www.lakeland.com/au/resources/documents-gallery>
to download the complete 'Guide to selection of Type 5 & 6 Disposable Clothing', other guides and product sheets.



* 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.