MicroMax® NS

Download Certificate | Download Declaration of Conformity |  Serged (stitched) overlocked seams | TYPE 5 | TYPE 6 | EN 1073-2 | EN 1149-5 | EN 14126

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

- Soft and flexible high quality microporous film laminate offers excellent combination of protection and comfort.
- High moisture vapour transmission rate allows escape of vapor to maintain comfort.
- Fabric passes all tests in EN 14126 infectious agent standard at the highest class. Certified to Type 5-b and Type 6-b.
- 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 mazimise freedom of movement and negate the need for thumb loops.
- Two piece crotch gusset – enhances freedom of movement and reduced crotch splitting

Physical Properties

		MicroMax® NS /TS	Flashspun PE
Property	**EN Std**	**CE Class**	**CE Class**
Abrasion Resistance	EN 530	3	2
Flex Cracking	ISO 7854	6	6
Trapezoidal Tear	ISO 9073	3/2	1
Tensile Strength	EN 13934	2/1	1
Puncture Resistance	EN 863	1	2
Burst Strength	EN 13938	2	2
Seam Strength	EN 13935-2	3	3

Chemical Repellency and Penetration EN 6530

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

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

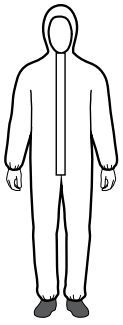
	MicroMax® NS/TS	Flashspun PE	Cotton T-shirt
Air permeability cubic feet/minute (cfm)	<0.5	~3.3	180
MVTR	119.3	111.2	NT

Infectious Agent / Biological Hazard Protection

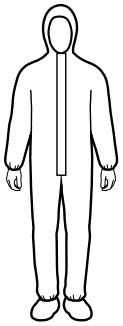
Tested according to EN 14126. This consists of four different tests to assess protection against different forms of classification. Note these tests are on fabric only. We would always recommend a garment with sealed seams such as MicroMax® TS for protection against infectious agent hazards.

Test Description	Test No.	MicroMax® NS/TS	Flashspun PE
Protection against blood and body fluids	ISO 16604:2004	6 (max is 6)	<1
Protection against biologically contaminated aerosols	ISO 22611:2003	3 (max is 3)	1
Protection against dry microbial contact	ISO 22612:2005	3 (max is 3)	1
Protection against mechanical contact with substances containing contaminated liquids	EN 14126:2003 Annex A	6 (max is 6)	1

MicroMax® NS Styles



Style 428
Coverall with elasticated hood, cuffs, waist & ankles.
Sizes: S - XXXL
Color: White

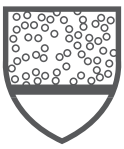


Style 414
Coverall with elasticated hood, cuffs, waist and attached socks.
Sizes: S - XXXL
Color: White

Lakeland®

Clothing For Protection against Type 5 and 6 Hazards

Type 5



EN 13982
protection against hazardous dry particles

- Spray cabin filled with dust
- Subject performs exercise on treadmill
- 3 particle counters inside the suit
- Particle "Inward leakage" calculated
- Recorded as % of inward leakage (TIL)

EN 1073-2
protection against dust contaminated with radiation

EN 1073-2 testing is a variation of the standard Type 5 test

Type 6

EN 13034
Reduced Liquid (aerosol) Spray

- 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 and 6 garments on the market today. Flashspun Polyethylene, SMMS, or Microporous Film Laminate (Lakeland MicroMax®). *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: Protection, Physical Properties and Comfort and Breathability

For all three factors, Lakeland garments provide the best choice ....

Lakeland®

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