

Technical Data Sheet

Summary			
TomTex			
Lightweight chemical suit in green. Co-extruded film results in a light, flexible fabric. Ideal for agricultural spraying and similar applications.			
PP/LDPE Co-Polymer coated material. 63 g/m₂			
ETO428			
Stitched and PE taped.			
Green			

CE Certification			
EN Standard*	Description	Result	
EN ISO 13688	Protective Clothing: General Requirements	Pass	
EN 13034	Type 6: Protection against light spray of liquids	NT	
EN 13982-1	Type 5: Protection against hazardous dry particles	NT	
EN 14605	Type 3 & 4: Protection against splashes and sprays of liquid chemicals	Pass	
EN 1073-2	Protection against dust particles that may be contaminated with radiations	NT	
EN 1149-1	Anti-static garment requirements: (ATEX regulations exclude certification	1.27*10 ⁹	
EN 1149-5	for PPE: However, ATEX and BGR 132 / TBRS2153 reference certification to EN 1149 as a suitable measure for protective clothing for explosive atmospheres.)	Pass	
*All Lakeland garments are certified to the latest version of standards where possible			



Mechanical Properties				
EN Standard	Description	Result	EN Class	
EN 13934	Tensile Strength	NT	NT	
EN 530	Abrasion Resistance	<500 Cycles	2	
EN 863	Puncture Resistance	9.51 N	1	
ISO 2960	Burst Strength	228 kPa	3	
ISO 7854	Flex Cracking	<15000 Cycles	3	
ISO 9073	Trapezoidal tear md/cd	54/34 N	3/2	
ISO 9073	Trapezoidal tear-mean	44 N	3	
ISO 5082	Seam Strength	118.22 N	3	

Chemical Repellency – EN 368 (for Type 6)			
	EN Class		
	Repellency	Penetration	
Sulphuric Acid 30%	-	-	
Sodium Hydroxide 10%	-	-	
O-Xylene	-	-	
Butan-1-ol	-	-	

Chemical Permeation – EN 6529 – For Types 1 to 4

The chemical list below is from EN 6529 Annex A2 and is intended to provide a broad spectrum of chemical types if general chemical suit assessment

Chemical	CAS No	Result / EN Class	
Acetone	67-64-1	-	
Potassium Chromate (62%)	7789-00-6	480 / Class 6	
Phosphoric Acid (85%)	7664-38-2	480 / Class 6	
Ethylene Glycol	107-21-1	480 / Class 6	
Sodium Hypochlorite (10%-15%)	7681-52-9	480 / Class 6	
Hydrochloric Acid (36%)	7647-01-0	Class 5	
EDTA (10%)	60-00-4	-	
Methanol	67-56-01	-	
Sodium Hydroxide (40%)	1310-73-2	480 / Class 6	
Sulphuric Acid (98%)	7664-93-9	480 / Class 6	
Nitric acid (65%)	7697-37-2	Class 6	
Potassium hydroxide (40%)	1310-58-3	480 / Class 6	

Breakthrough times are a reflection controlled lab tests measuring "Normalised Breakthrough" as the time to reach a *permeation rate* of 1.0µg/min/cm².

This does not imply "no breakthrough" and is not intended to indicate any duration of "safe-use" in any specific application. It is always the users' final responsibility to ensure a garment is suitable for the application.

Key features

- Co-extruded barrier film results in lightweight, soft and flexible chemical barrier suit
- Stitched & taped seams for strong and impervious seams
- Lakeland Double-zip and storm flap
- Lakeland Super-B style pattern 3 piece hood / inset sleeves, diamond crotch gusset

Suggested applications

- -Tank Cleaning
- -Overhead/ hazardous insecticide/ pesticide spray and agricultural applications
- -Petrochemical and Refining applications
- -Pharmaceutical applications requiring chemical protection
- -Maintenance Applications
- -Chemical handling & distribution
- -Chemical clean-ups and spill management
- -Contaminated land clearance
- -Oil-spill clean-ups







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Other Information

Lakeland Super-B Style Pattern - ergonomic design for freedom of movement, comfort and durability

All Lakeland coveralls are constructed using Lakeland's "Super-B" style pattern. Using the company's global knowledge and experience of protective clothing this takes European CE and North American ANSI styles to produce a garment design which combines the best elements of both to produce a garment which is generous in size yet better fitting and allows greater freedom of movement.

The S

Three

Many

The Super-B style consists of 3 key elements:-

Three Piece Hood

Many cheaper garments feature a 2 piece hood. Lakeland's 3-piece hood creates a 3D profile which fits the head better and allows greater freedom of movement. It also fits better with face masks when worn.



Inset Sleeves

Most European styles use a "bat-wing" style (red line) in which the under-arm reaches down to the waist. The argument is that it creates more room in the chest. However, THIS CLEARLY RESTRICTS MOVEMENT WHEN THE USERS REACHES ABOVE HIS HEAD, PLACING STRESS ON THE CROTCH AREA.

However, Lakeland use an inset sleeve (blue line) which follows the contours of the body and allows much greater freedom of movement

Two-piece diamond crotch gusset

Commonly garments have four seams – two body and two leg – that meet at one point in the crotch. This is a key weak point and often results in tearing and rip-outs. Lakeland inserts a two-piece diamond shaped crotch that spreads the stress and creates a more 3D fitting shape, improving wearer movement, comfort and enhancing coverall durability

The unique combination of three key elements of the Super-B style coverall makes Lakeland garments the best designed available

Other Design Features

All Lakeland chemical suits (TomteX & ChemMAX) feature a front fastening consisting of a double zip with storm flaps. This ensures both full protection against sprays to the front of the garment and easy donning and doffing.

In addition ChemMAX garments (Except ChemMAX 4) feature wide double layer knee-pads to enhance comfort, durability and safety.



Chest

Sizing

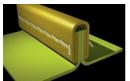
Size	Body Height	Chest
S	164-170cm	84-92cm
M	170-176cm	92-100cm
L	176-182cm	100-108cm
XL	182-188cm	108-116cm
XXL	189-194cm	116-124cm
XXXL	194-200cm	124-132cm

Seams

Lakeland garments use 3 types of seams:-



Serged or Stitched Safegard GP MicroMAX NS



Bound Safegard 76 / Diamant MicroMAX Cool Suit



Storage, Shelf-life and Disposal

Storage

Lakeland garments can be stored in normal storage areas and require no special condition. Keep in cool, dry areas where possible and away from direct heat and sunlight

Shelf-Life

Lakeland coveralls are primarily manufactured from inert polymers (usually polypropylene and/ or polyethylene which should normally degrade over longer periods in excess of 10 years. Garments are supplied in sealed bags and so a shelf life of ten years or more should be reasonable under normal conditions. However, we recommend that after 5 years Type 3 and 4 chemical suits should be disposed of and replaced or used for training only. Some discoloration of especially white fabrics may occur over time though this will not affect performance. In any circumstances it is the users' responsibility to check garments for damage tears or wear before use

Disposa

Polymers used in Lakeland garments are generally inert, non-harmful and non-toxic and can be disposed of by incineration or to landfill according to local regulations. However, any garments contaminated with chemicals must be disposed of according to the requirements of the chemical or cleaned before disposal



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 users final responsibility to ensure garment suitability
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UK Company Registration No: 4500660: For financial information see www.lakeland.com/financial

