

# CleanMax® Coverall with Attached Hood and Boots

## CTL414CM

**Clean Manufactured Non-Sterile**  
Clean Manufactured in Silicone Free Environment

**Compatible with ISO Class 4-8 Cleanrooms and all Controlled Environments**  
IEST-RP-CC003 Category 1 Particle Cleanliness

### Lakeland CleanMax® Cleanroom Apparel

Lakeland CleanMax® garments provide the comfort, quality and protection you expect, all backed by our 30+ years as a manufacturer of disposable protective apparel.

#### All Lakeland CleanMax® Apparel is:

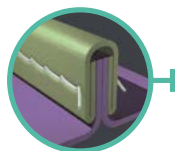
- Fluid Repellent; Tested in accordance with ASTM D6978 for Chemotherapy Permeation
- Open Fold for easier donning
- Resistant to blood and body fluid penetration
- Resistant to viral penetration
- Resistant to Blood Borne Pathogens
- IEST-RP-CC003 Category I Particle Cleanliness
- Latex and Silicone Free
- Compatible with ISO Class 4 -8 Cleanrooms and all Controlled Environments
- Individually packaged and protective outer bag for ante areas



#### Clean Manufactured Garments and Packaging

CleanMax® Clean Manufactured garments are compatible with ISO Class 4-8 Cleanrooms and all Controlled Environments.

Bulk Packing in a single overlay bag is available on CleanMax® Clean Manufactured Non-Sterile Frocks, Coveralls, Boots and Hoods.



#### Bound Seams

CleanMax® garments feature bound seams, which are precisely sewn with an additional outer binding. This increases seam strength and provides a better barrier from particulates than simple serged seams.



Garment Case Pack: 25/case, individually packed

#### PROTECTIVE CLOTHING CATEGORY III

CE 2777

UK CA 0321



EN 13034  
:2005+A1:2009



EN ISO 13982-1  
:2004+A1:2010



EN 1073-2:2002  
TIL = Class 1



EN 14126:2003  
(Type 5B, 6B)



EN 1149-5:2018  
EN 1149-3:2004

# CE Testing



## CleanMax® Physical Properties – according to European CE Methods

## CleanMax® Breathability and Filtration Properties

Physical Property	Test Method	Units	Test Results
Air Permeability	ASTM D737	cfm	<0.562 cfm/ft <sup>2</sup>
Water Vapor Transmission	ASTM 96-80	g/m <sup>2</sup> -24hrs	663.38
Bacterial Filtration Efficiency	ASTM F2101	%	99.9%
Particle Filtration Efficiency	ASTM F2299	%	99.6%

Physical Property	Test Method	CE Class
Fabric Weight: 63gsm		
Abrasion Resistance	EN 530 method 2	Class 2 of 6
Flex Cracking	ISO 7854 method B	Class 4 of 6
Trapezoidal Tear (MD/CD)	ISO 9073-4	Class 3 of 6 / 2 of 6
Tensile Strength (MD/CD)	ISO 13934-1	Class 2 of 6 / 1 of 6
Puncture Resistance	EN 863	Class 1 of 6
Seam Strength	ISO 13935-2	Class 3 of 6
Anti-Static	EN 1149-5	Pass (tested to EN 1149-3 Charge Decay t <sub>50</sub> <4s)

## CleanMax® Resistance to Blood, Body Fluids and Chemotherapy Drugs

Physical Property	Test Method	Units	Test Results
Synthetic Blood Penetration	ASTM F 1670	Time to Penetration (> 60 minutes)	Pass
Viral Penetration Resistance	ASTM F 1671	Time to Penetration (> 60 minutes)	Pass
Resistance to Penetration by Blood and Bodily Fluids using Synthetic Blood	ISO 16603	Pressure in kPa	Pass –no strikethrough at 20kPa
Resistance to Penetration by Blood-borne Pathogens	ISO 16604	Pressure in kPa	Pass –no strikethrough at 20kPa
Resistance to Permeation of Chemotherapy Drugs	ASTM D6978	Minimum Breakthrough Time >240 minutes	Pass*

## CleanMax® Resistance to infectious agents and pathogens according to tests in Standard EN 14126

Physical Property	Test Method	CE Class
Resistance to penetration by blood Borne Pathogens	ISO 16604	Class 6 of 6
Resistance to Biologically Contaminated Aerosols	ISO 22611	Class 3 of 3
Resistance to Dry Microbial Contact	ISO 22612	Class 3 of 3
Resistance to Wet Bacterial Penetration	EN 14126 Annex A / ISO 22610	Class 6 of 6

\*Tested drugs include Cisplatin, Cyclophosphamide, Cyclosporin A, Doxorubicin Hydrochloride, Etoposide (Toposar), Fluorouracil, Methotrexate, Mitomycin C, Paclitaxel

\*\* ISO 16604 and ASTM F 1671 are the correct tests to measure resistance against blood borne pathogens and contaminated liquids.

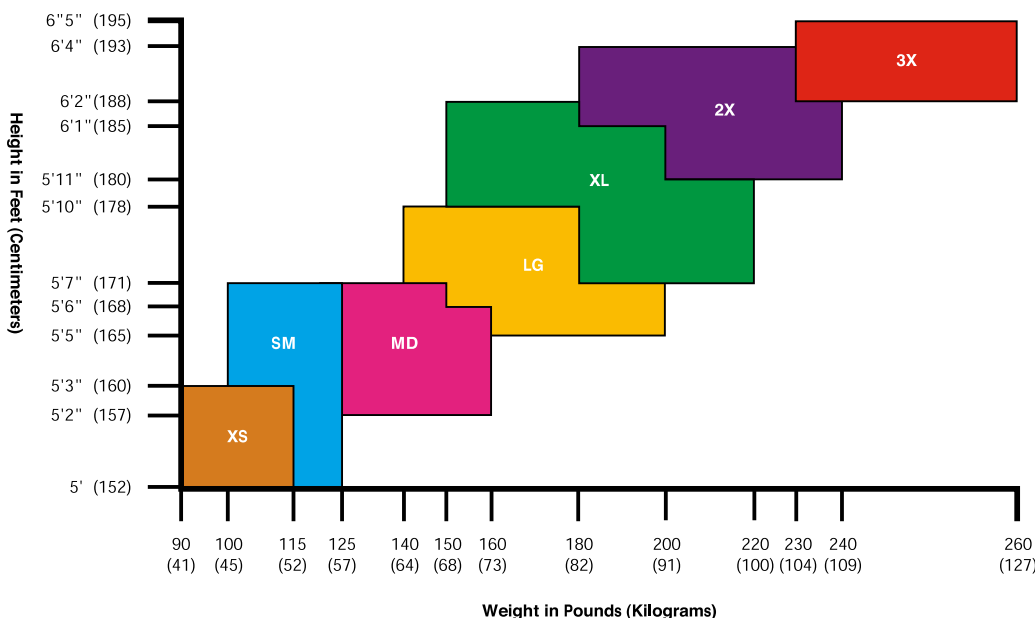
ASTM 1670 and ISO 16603 are screening tests. We include them here purely for comparison purposes.

## PROTECTIVE CLOTHING CATEGORY III

CE 2777 UK CA 0321



## Recommended Sizing Chart for Limited Use and Disposable Coveralls



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Warning: Cleanroom apparel should not be used around heat, flames, sparks or in potentially flammable or explosive environments. Cleanroom fabrics should have slip-resistant materials on the outer sole of boots, shoe covers, or other garment surfaces in conditions where slipping could occur.