

# CleanMax® Coverall with Attached Hood

## CTL428CS

### Clean Manufactured Sterile

Clean Manufactured in Silicone Free Environment

**Compatible with ISO Class 4-8 Cleanrooms and  
all Controlled Environments**  
**IENT-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.

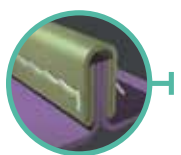
#### All Lakeland CleanMax® Apparel is:

- 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 Sterile Garments and Packaging

CleanMax® Clean Manufactured Sterile garments are sterile to a sterility assurance level of  $10^{-6}$  SAL, and are compatible with ISO Class 4-8 Cleanrooms and all Controlled Environments.



#### 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



**Thomas  
Scientific**

**Lakeland®**

## CleanMax® Physical Properties

| Physical Property               | Test Method | Units                   | Test Results               |
|---------------------------------|-------------|-------------------------|----------------------------|
| Basis Weight                    | ASTM D3776  | oz/y <sup>2</sup>       | 1.55 oz/y <sup>2</sup>     |
| Grab Tensile MD                 | ASTM D5034  | lbs.                    | 22.0 lbs.                  |
| Grab Tensile XD                 | ASTM D5034  | lbs.                    | 14.0 lbs.                  |
| Trapezoidal Tear MD             | ASTM D1117  | lbs.                    | 9.0 lbs.                   |
| Trapezoidal Tear CD             | ASTM D1117  | lbs.                    | 5.8 lbs.                   |
| Ball Burst                      | ASTM D3787  | lbs.                    | 19.0 lbs.                  |
| 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  | %                       | 99.999%                    |
| Particle Filtration Efficiency  | ASTM F2299  | %                       | 99.999%                    |

## CleanMax® Penetration and Resistance Properties

| 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*                           |

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

## CE Testing

### CleanMax® Physical Properties – CE Test Data

| Physical Property        | Test Method       | CE Class |
|--------------------------|-------------------|----------|
| Abrasion Resistance      | EN 530 method 2   | Class 2  |
| Flex Cracking            | ISO 7854 method B | Class 4  |
| Trapezoidal Tear (MD/CD) | ISO 9073-4        | 3 / 2    |
| Tensile Strength (MD/CD) | ISO 13934-1       | 2 / 1    |
| Puncture Resistance      | EN 863            | Class 1  |
| Seam Strength            | ISO 13935-2       | 3        |

### CleanMax® Resistance to Penetration by Infectious Agents – CE Test Data

| 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 |

### PROTECTIVE CLOTHING CATEGORY III

CE 2777



EN 13034  
:2005 +A1:2009



EN ISO 13982-1  
:2004 +A1:2010

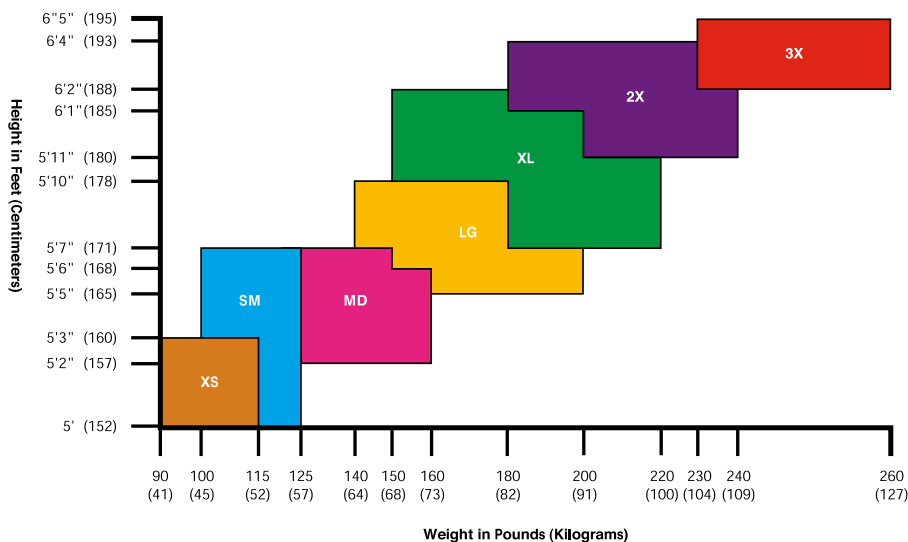


EN 1073-2:2002  
TIL = Class 1



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

## Recommended Sizing Chart for Limited Use and Disposable Coveralls



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.

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