

CHEMMAX[®] 1

Your First Level of Chemical Protection



ChemMax[®] 1 Applications

- Waste Water Treatment
- High and Low PH Chemicals
- Hazardous Liquid Spray



Serged Seam



Bound Seam



Heat Sealed Seam

ChemMax[®] 1 is constructed with a unique polyethylene barrier film and a continuous filament polypropylene non-woven fabric. ChemMax[®] 1 garments bar many harmful contaminants from penetrating to inner clothing. Available with serged, bound and sealed seams for scalability.

ChemMax[®] 1 provides economical, lightweight protection against most industrial acid and base chemicals. Bloodborne pathogen and viral protection make it a cost-effective option for waste water treatment facilities. ChemMax[®] 1 also meets the requirements of EN-1149 for Electrostatic Properties.

ChemMax[®] 1 Physical Properties

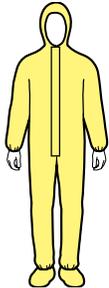
| Property | Test Method | Units | ChemMax [®] 1 |
|---------------------|-------------|------------|------------------------|
| Basis Weight | ASTM D3776 | oz./sq. yd | 2.29 |
| Grab Tensile MD | ASTM D5034 | pounds | 35 |
| Grab Tensile XD | | pounds | 27 |
| Trapezoidal Tear MD | ASTM D5733 | pounds | 13.8 |
| Trapezoidal Tear XD | | pounds | 14.2 |
| Ball Burst | ASTM D751 | pounds | 25.5 |

ChemMax[®] 1 Coveralls



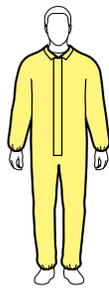
Coverall C1S412Y

- Serged Seam**
- Zipper with storm flap
- Sizes: S – 5XL
- Case Pack: 25



Coverall C1S414Y

- Serged Seam C1B414Y**
- Bound Seam**
- Zipper with storm flap
- Attached hood
- Attached boots
- Elastic wrists
- Sizes: S – 5XL
- Case Pack: 25



Coverall C1S417Y

- Serged Seam C1B417Y**
- Bound Seam**
- Zipper with storm flap
- Elastic wrists
- Elastic ankles
- Sizes: S – 5XL
- Case Pack: 25



Coverall C1S428Y

- Serged Seam C1B428Y**
- Bound Seam**
- Zipper with storm flap
- Attached hood
- Elastic wrists
- Elastic ankles
- Sizes: S – 5XL
- Case Pack: 25



Coverall C1T110Y

- Sealed Seam**
- Collar
- Storm flap over zipper.
- Elastic wrists
- Elastic ankles
- Sizes: S – 5XL
- Case Pack: 6



Coverall C1T130Y

- Sealed Seam**
- Zipper with storm flap
- Elastic face
- Elastic wrists
- Elastic ankles
- Sizes: S – 5XL
- Case Pack: 6



Coverall C1T150Y

- Sealed Seam**
- Zipper with storm flap
- Attached hood
- Elastic wrists
- Attached boots
- Sizes: S – 5XL
- Case Pack: 6



Coverall C1T151Y

- Sealed Seam**
- Respirator-fit hood
- Storm flap over zipper
- Elastic face and wrists
- Attached boots
- Sizes: S – 5X
- Case Pack: 6

Permeation Data for ASTM Recommended List of Chemicals for Evaluating Protective Clothing Materials (ASTM F1001)

| Challenge Chemical | CAS Number | Physical State | ChemMax® 1 |
|-----------------------|------------|----------------|-------------|
| Acetone | 67-64-1 | Liquid | imm. |
| Acetonitrile | 75-05-8 | Liquid | imm. |
| Ammonia Gas | 7664-41-7 | Gas | imm. |
| 1,3-Butadiene Gas | 106-99-0 | Gas | imm. |
| Carbon Disulfide | 75-15-0 | Liquid | imm. |
| Chlorine Gas | 7782-50-5 | Gas | imm. |
| Dichloromethane | 75-09-2 | Liquid | imm. |
| Diethylamine | 109-89-7 | Liquid | imm. |
| Dimethyl Formamide | 68-12-2 | Gas | 40 minutes |
| Ethyl Acetate | 141-78-6 | Liquid | imm. |
| Ethylene Oxide Gas | 75-21-8 | Gas | imm. |
| n-Hexane | 110-54-3 | Liquid | imm. |
| Hydrogen Chloride Gas | 7647-01-0 | Gas | imm. |
| Methanol | 67-56-1 | Liquid | imm. |
| Methyl Chloride Gas | 74-87-3 | Gas | imm. |
| Nitrobenzene | 98-95-3 | Liquid | 45 minutes |
| Sodium Hydroxide, 50% | 1310-73-2 | Liquid | 320 minutes |
| Sulfuric Acid, 96% | 7664-93-9 | Liquid | 315 minutes |
| Tetrachloroethylene | 127-18-4 | Liquid | imm. |
| Tetrahydrofuran | 109-99-9 | Liquid | imm. |
| Toluene | 108-88-3 | Liquid | imm. |

ND = None Detected

> = greater than

L = liquid

G = gas

Numbers reported are averages of samples tested by the ASTM F739 test method.

Sample results vary and therefore averages for these results are reported.

Warnings:

1. ChemMax® 1 is not flame resistant and should not be used around heat, flame sparks, or in potentially flammable or explosive environments.

2. Garments made of ChemMax® 1 should have slip resistant or anti-slip materials on the outer surface of boots, shoe covers or other garment surfaces in conditions where slipping could occur.

Note: Chemical Resistance Data is in accordance with ASTM F-739 test method. Testing is performed on fabric samples only, not finished garments. Sources for all test data are independent laboratory conditions and not actual use conditions.

Fentanyl - Testing per ASTM D6978

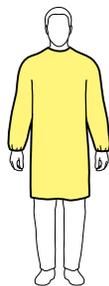
| Lakeland® Brand | Test Drug and Concentration | Minimum Breakthrough Detection Time (Specimen 1/2/3) (Minutes) | Steady State Permeation Rate (Specimen 1/2/3) (µg/cm ² /minute) | Other Observations |
|-----------------|---|--|--|---------------------------------|
| ChemMax® 1* | Fentanyl Citrate Injection, 100 mcg/2mL | >240 | NA | Slight swelling; no degradation |

*ChemMax® 1 has >240 min hold out for liquid Fentanyl; Taped/Sealed Seam Garments are recommended for Fentanyl in liquid form

Users should also ensure the gloves they are using for chemotherapy have been tested against the most recent standards. The current standard for exam gloves used in chemotherapy is ASTM D6978-05 "Standard Practice for Assessment of Resistance of Medical Gloves to Permeation by Chemotherapy Drugs."

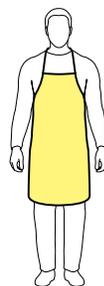
Prior to ASTM D6978-05 many exam gloves were tested against ASTM F739 "Resistance of Protective Clothing Materials to Permeation by Liquids or Gases Under Conditions of Continuous Contact". ASTM D6978-05 uses ASTM F739 as a test method, but has a chemical permeation requirement that is 10 times more stringent than what is required by ASTM F739. Users of gloves tested under ASTM D6978-05 have a higher level of confidence that the gloves they are using are tested to the current, more stringent ASTM standard."

ChemMax® 1 Configurations



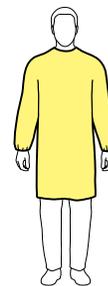
**Gown
C1S27Y**

- Open back
 - Long sleeve
 - Elastic wrists
 - Sewn ties
- Sizes: 30" x 40"
Case Pack: 6



**Apron
C1S650Y**

- Sewn ties
- Sizes: 28" x 36"
Case Pack: 100



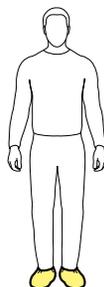
**Apron
C1B657Y**

- Long sleeves
 - Waist ties
- Sizes: 28" x 53"
Case Pack: 50



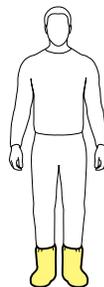
**Sleeve
C1S850YP-18**

- Elastic ends
- Sizes: 18" length
Case Pack: 100 pair



**Shoe Cover
C1S901YP**

- Elastic ankles
- Sizes: S/M, L/XL, 2X
Case Pack: 200 pair



**Boot Covers
C1S903YP**

- Serged Seam
 - Elastic top
 - 17" high
- Sizes: S/M, LG/XL, 2X
Case Pack: 200 pair

