

ChemMax® 1

Serged Seams



Dry Particulate



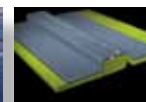
Bound Seams



Light Liquid Protection



Heat Sealed Seams



Liquid Splash/Chemical Barrier

**Entry Level Chemical Protective Garment.**

You've come to expect quality from Lakeland Industries. We've utilized our vast knowledge in the industry to develop a superior product in ChemMax® 1. Offering quality along with durability, this cost-effective entry level product will please distributors, safety engineers and plant purchasing managers. Whether you are in manufacturing, environmental clean up or chemical handling, you can trust the ChemMax® family of products to protect your workers from harm.

ChemMax® is constructed with a unique polyethylene barrier film and a continuous filament polypropylene nonwoven. ChemMax®1 garments bar many harmful contaminants from penetrating to inner clothing. Available with serged, bound and sealed seams for scalability, ChemMax® fits the Lakeland standard at a price you can afford.

ChemMax® 1 Physical Properties

Property	Test Method	Units	ChemMax® 1
Basis Weight	ASTM D3776	oz/sy	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

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	>480
Sulfuric Acid, 98%	7664-93-9	Liquid	>480
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 do 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.

**Serged Seam Bound**

Coverall, zipper.
Bound seams have storm flap over zipper.

**Serged Seam Bound Seam***

Coverall, zipper, attached hood, boots, elastic wrists.
*Bound seams have storm flap over zipper.

**Serged Seam Bound Seam***

Coverall, zipper, elastic wrists and ankles.
*Bound seams have storm flap over zipper.

**Serged Seam Bound Seam***

Coverall, zipper, attached hood, elastic wrists and ankles.
*Bound seams have storm flap over zipper.