




## KLEENGUARD\* A70 Chemical Spray Protection Coveralls & Accessories

### Product Information


Zipper Front, Elastic Wrists, Ankles & Hood	Code	Size	Qty
	09812	M	12
	09813	L	12
	09814	XL	12
	09815	2XL	12
	09816	3XL	12
	09817	4XL	12
	09818	5XL	12

Zipper Front, Elastic Wrists, Ankles, Hood & Boots	Code	Size	Qty
	00682	M	12
	00683	L	12
	00684	XL	12
	00685	2XL	12
	00686	3XL	12
	00687	4XL	12
	00688	5XL	12


### A70 Accessories

Smock	Code	Size	Qty
	09829	44"	25
	09830	52"	25

- Bound seams
- Elastic wrist
- Bound neck
- Back neck snaps
- Elastic shoulder for proper fit
- Yellow

Sleeve Protector	Code	Vending		Qty
		Machine Ready	Size	
	97780	41233	21" Length	200

- Bound seams
- Elastic top & wrist
- 21" length ergonomically designed to fit to arm
- Yellow

Apron	Code	Vending		Qty
		Machine Ready	Size	
	97790	41234	44"	100

- Bound seams
- Bound neck & ties
- Yellow
- One size fits all

### Fabric Properties

Physical Properties	Test Method	Target
Tensile Strength (MD)	ASTM D5034	34.0 lbs.
Tensile Strength (CD)	ASTM D5034	24.0 lbs.
Trapezoidal Tear (MD)	ISO 9073-4	12.8 lbs.
Trapezoidal Tear (CD)	ISO 9073-4	6.2 lbs.
Elongation (MD)	ASTM D5034	60%
Elongation (CD)	ASTM D5034	65%
Flammability	CPSC 1610	Class 1
Mullen Burst	ISO 13938-2 1999	27.9 psi
Static Decay (<0.3 sec.)	NFPA 99	Pass
Abrasion	EN 530 Method 2	100 cycles
Surface Resistivity	EN 1149-1	≤4 x 10 <sup>10</sup> Ohms

Barrier Properties	Test Method	Target
Hydrohead	AATCC 127-1998	300.8 cm
Blood Penetration	ASTM F1670	Pass
Bloodborne Pathogens	ASTM F1671†	Pass

†Standard Test Method for Resistance of Materials Used in Protective Clothing to Penetration by Bloodborne Pathogens Using Phi-X174 Bacteriophage Penetration as a Test System.

### Additional Attributes

- Polyethylene film (1.5 mil) and spunbond polypropylene fabric
- Product not made with silicone
- Not made with natural rubber latex
- Not made with BHT preservative
- Non-latex polyisoprene elastic
- REFLEX\* Design – see catalog for sizing chart
- Taped storm 3" zipper flap
- Bound Seams

### Liquid Chemicals Resistance Test

Chemicals	Liquid Penetration		Vapor Permeation	
	ASTM F903		ASTM F739	
	Test Duration 60 mins Saturation Exposure	Normalized Breakthrough (min)	Rate (µg/cm <sup>2</sup> /min)	
Acetone (99%)	Pass	Immediate	6.90	
Acetic Acid (98%)	Pass	NT	NT	
Acetic Anhydride (99%)	Pass	NT	NT	
Acetonitrile ▲ (99%)	Pass	Immediate	8.97	
Acrylonitrile ▲ (99%)	Pass	Immediate	5.46	
Ammonium Hydroxide (25%)	Pass	NT	NT	
Benzyl Alcohol ▲ (60%)	Pass	NT	NT	
Black Liquor	Pass	>480	ND	
Carbon Disulfide ▲ (99%)	Pass	Immediate	76.3	
Chlorine Gas (99%)	N/A	Immediate	10.4	
Chloroacetic Acid (80%)	Pass	NT	NT	
Chloroacetone (95%)	Pass	NT	NT	
Chromic Acid (60%)	Pass	>480	ND	
m-Cresol ▲ (99%)	Pass	NT	NT	
Dichloromethane ▲ (99%)	Pass	Immediate	85.1	
Diesel Fuel	Pass	NT	NT	
Diethylamine ▲ (99%)	Pass	Immediate	469 (High)	
N,n-Dimethylformamide (99%)	Pass	Immediate	2.54	
Ethyl Acetate ▲ (99%)	Pass	Immediate	40.3	
Ethylene Glycol (99%)	Pass	>480	ND	

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**Liquid Chemicals Resistance Test – Continued from previous page**

Chemicals	Liquid Penetration		Vapor Permeation	
	ASTM F903		ASTM F739	
	Test Duration 60 mins Saturation Exposure	Normalized Breakthrough (min)	Normalized Breakthrough (min)	Rate ( $\mu\text{g}/\text{cm}^2/\text{min}$ )
Ethylene Diglycol Monoethyl Ether (99%)	Pass	NT	NT	
Formic Acid (96%)	Pass	NT	NT	
2-Furaldehyde (99%)	Pass	NT	NT	
Gasoline	Pass	NT	NT	
Green Liquor	Pass	>480	ND	
Hydrochloric Acid (37%)	Pass	NT	NT	
Hydrofluoric Acid (48%)	Pass	69	0.19	
Hydrogen Peroxide (50%)	Pass	>480	ND	
n-Hexane ▲	Pass	Immediate	High	
Isopropyl Alcohol (99%)	Pass	NT	NT	
Kerosene	Pass	NT	NT	
Lithium Chloride (20%)	Pass	>480	ND	
Lithium Hydroxide ▲ (20%)	Pass	>480	ND	
Methanol ▲	Pass	Immediate	1.71	
Methyl Ethyl Ketone (MEK) (99%)	Pass	NT	NT	
Mineral Spirits	Pass	NT	NT	
Muriatic Acid (31%)	Pass	NT	NT	
Nitric Acid (70%)	Pass	Immediate	0.27	
Nitrobenzene (99%)	Pass	Immediate	97.4	
O-Nitrochlorobenzene ▲ (99%)	Pass	NT	NT	
O-Nitrotoluene (99%)	Pass	NT	NT	
Oxalic Acid (15%)	Pass	NT	NT	
Phenol (99%)	Pass	NT	NT	
Phosphoric Acid (85%)	Pass	NT	NT	
Phosphoric Trichloride (99%)	Pass	NT	NT	
Potassium Acetate (10%)*	Pass	NT	NT	
Potassium Chromate (10%)	Pass	NT	NT	
Silver Nitrate (0.1 Norm)	Pass	NT	NT	
Sodium Cyanide (10%)	Pass	NT	NT	
Sodium Fluoride (10%)	Pass	NT	NT	
Sodium Hydroxide (50%)	Pass	>480	ND	
Sodium Hypochlorite 17%/13%	Pass (17%)	>480 (13%)	ND	
Styrene ▲ (99%)	Pass	NT	NT	
Sulfuric Acid (98%)	Pass	>480	ND	
Sulfuric Acid Oleum ▲ (30%)	Pass	NT	NT	
Tetrachloroethylene ▲ (99%)	Pass	Immediate	High	
Tetrahydrofuran (99%)	Pass	Immediate	High	
Toluene ▲ (99%)	Pass	Immediate	High	
1,2,4-Trichlorobenzene (99%)	Pass	NT	NT	
2,2,2-Trichloroethanol (99%)	Pass	NT	NT	
2,2,2-Trifluoroethanol (99%)	Pass	NT	NT	
White Liquor (Mixture)	Pass	>480	ND	

▲ Fabric passes penetration testing; however, the chemical is a known or suspected carcinogen or skin absorbed toxin.

**HIGH Permeation Rate:** A permeation rate > 400

**IMMEDIATE Break Through:** Permeation observed at or before the time of first measurement

**>480 Break Through:** No breakthrough for the entire length of the test (480 min)

**Workmanship Requirements**

Apparel shall be made in accordance with reasonable industry practice with respect to holes, tears, wrinkles, cleanliness, and foreign materials or dirt.

For Additional information: Contact your Kimberly-Clark representative, our Customer Service Team (888)-346-GOKC (4652) or [KCPIInfo@kcc.com](mailto:KCPIInfo@kcc.com)