# KLEENGUARD\* A70 Chemical Spray Protection Coveralls & Accessories

#### **Product Information** Zipper Front, Elastic Wrists,

Zipper Front, Elastic Wrists, Ankles & Hood	Code	Size	Qty
0	09812	М	12
A.	09813	L	12
	09814	XL	12
	09815	2XL	12
$( \land )$	09816	3XL	12
00	09817	4XL	12
	09818	5XL	12

# Zipper Front, Elastic Wrists,

Ankles, Hood & Boots	Code	Size	Qty
	00682	М	12
T	00683	L	12
	00684	XL	12
	00685	2XL	12
	00686	3XL	12
	00687	4XL	12
	00688	5XL	12

### **A70 Accessories**

Smo	ck	Code	Size	Qty
		09829	44"	25
0		09830	52"	25
4	<ul> <li>Bound seams</li> <li>Elastic wrist</li> <li>Bound neck</li> <li>Back neck snaps</li> </ul>			

- Elastic shoulder for proper fit
- Yellow

Sleeve	Protector	Code	Vending Machine Ready	Size	Qty
•		97780	41233	21" Length	200
[]	Bound seams     Elastic top & wri     21" length ergor     Yellow		gned to fit to arm		
			Vending		
Apron		Code	Machine Ready	Size	Otre
					Qty
$\sim$		97790	41234	44"	100

# **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	<u>≤</u> 4 x 10¹º Ohms

Test Method	Target
AATCC 127-1998	300.8 cm
ASTM F1670	Pass
ASTM F1671‡	Pass
	AATCC 127-1998 ASTM F1670

\$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

Chemicals	Liquid Penetratio	n Vapor Pe	rmeation
	ASTM F903	ASTM F739	
Test I	Ouration 60 mins	Normalized	Rate
Satu	ration Exposure	Breakthrough (min)	(µg/cm²/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 part

Liquid Chemicals Resistan	nce Test – Contin	ued from previo	us page	
Chemicals	Liquid Penetration	Vapor Permeation		
	ASTM F903	ASTM F		
	Test Duration 60 mins aturation Exposure	Normalized Breakthrough (min)	Rate (µg/cm²/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 A	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		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%)		NT	NT	
Tetrachloroethylene ▲ (99%)		Immediate	High	
Tetrahydrofuran (99%)	Pass	Immediate	High	
Toluene ▲ (99%)	Pass	Immediate	High	
1,2,4-Trichlorobenzene (99%		NT	NT	
		NT	NT	
2.2.2-Trichloroethanol (99%)	) Pass			
2,2,2-Trichloroethanol (99%) 2,2,2-Trifluoroethanol (99%)	) Pass Pass	NT	NT	

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 KCPInfo@kcc.com

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Page 2 of 2

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