



KLEENGUARD* A70 Chemical Spray Protection Coveralls & Accessories

Product Information

Zipper Front, Elastic Wrists, Ankles & Hood	Code	Vending Machine Ready	Size	Qty
	09812	No	M	12
	09813	No	L	12
	09814	No	XL	12
	09815	No	2XL	12
	09816	No	3XL	12
	09817	No	4XL	12
	09818	No	5XL	12



Zipper Front, Elastic Wrists, Ankles, Hood & Boots	Code	Vending Machine Ready	Size	Qty
	00682	No	M	12
	00683	No	L	12
	00684	No	XL	12
	00685	No	2XL	12
	00686	No	3XL	12
	00687	No	4XL	12
	00688	No	5XL	12



A70 Accessories

Smock	Code	Vending Machine Ready	Size	Qty
	09829	No	44"	25
	09830	No	52"	25



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

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



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

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



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

Fabric Properties

Physical Properties	Test Method	Results
Tensile Strength (MD)	ASTM D5034	33.8 lbs.
Tensile Strength (CD)	ASTM D5034	24.1 lbs.
Trapezoidal Tear (MD)	INDA IST 100.2	12.3 lbs.
Trapezoidal Tear (CD)	INDA IST 100.2	6.7 lbs.
Elongation (MD)		N/A
Elongation (CD)		N/A
Lint - # of particles		N/A
Flammability	CPSC 1610	Class 1
Static Decay (<0.5 secs.)	NFPA 99	Pass

Barrier Properties	Test Method	Results
Hydrohead	AATCC 127-1998	300.8 cm
Particle Holdout		N/A
Blood Penetration	ASTM F1670	Pass
Bloodborne Pathogens	ASTM F1671†	Pass
Mullen Burst	ISO 13938-2 1999	27.9 psi

†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.

Comfort Properties	Test Method	Results
Air Permeability		N/A
Moisture Vapor Transport Rate		N/A

Additional Attributes
Polyethylene film (1.5 mil) and spunbond polypropylene fabric
Fabric not made with silicone
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 Penetration ASTM F903		Vapor Permeation ASTM F739	
	Test Duration	60 mins Saturation Exposure	Normalized Breakthrough (min)	Rate (µg/cm²/min)
Acetone (99%)		Pass	Immediate	6.90
Acetic Acid (98%)		Pass	Not Tested	Not Tested
Acetic Anhydride (99%)		Pass	Not Tested	Not Tested
Acetonitrile▲ (99%)		Pass	Immediate	8.97
Acrylonitrile▲ (99%)		Pass	Immediate	5.46
Ammonium Hydroxide (25%)		Pass	Not Tested	Not Tested
Benzyl Alcohol▲ (60%)		Pass	Not Tested	Not Tested
Black Liquor		Pass	>480	Not Detected
Carbon Disulfide▲ (99%)		Pass	Immediate	76.3
Chlorine Gas (99%)		N/A	Immediate	10.4
Chloroacetic Acid (80%)		Pass	Not Tested	Not Tested
Chloroacetone (95%)		Pass	Not Tested	Not Tested
Chromic Acid (60%)		Pass	>480	Not Detected
m-Cresol▲ (99%)		Pass	Not Tested	Not Tested
Dichloromethane▲ (99%)		Pass	Immediate	85.1
Diesel Fuel		Pass	Not Tested	Not Tested
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	Not Detected

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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)	Rate ($\mu\text{g}/\text{cm}^2/\text{min}$)
Ethylene Diglycol Monoethyl Ether (99%)	Pass	Not Tested	Not Tested
Formic Acid (96%)	Pass	Not Tested	Not Tested
2-Furaldehyde (99%)	Pass	Not Tested	Not Tested
Gasoline	Pass	Not Tested	Not Tested
Green Liquor	Pass	>480	Not Detected
Hydrochloric Acid (37%)	Pass	Not Tested	Not Tested
Hydrofluoric Acid (48%)	Pass	69	0.19
Hydrogen Peroxide (50%)	Pass	>480	Not Detected
n-Hexane▲	Pass	Immediate	High
Isopropyl Alcohol (99%)	Pass	Not Tested	Not Tested
Kerosene	Pass	Not Tested	Not Tested
Lithium Chloride (20%)	Pass	>480	Not Detected
Lithium Hydroxide▲ (20%)	Pass	>480	Not Detected
Methanol▲	Pass	Immediate	1.71
Methyl Ethyl Ketone (MEK) (99%)	Pass	Not Tested	Not Tested
Mineral Spirits	Pass	Not Tested	Not Tested
Muriatic Acid (31%)	Pass	Not Tested	Not Tested
Nitric Acid (70%)	Pass	Immediate	0.27
Nitrobenzene (99%)	Pass	Immediate	97.4
O-Nitrochlorobenzene▲ (99%)	Pass	Not Tested	Not Tested
O-Nitrotoluene (99%)	Pass	Not Tested	Not Tested
Oxalic Acid (15%)	Pass	Not Tested	Not Tested
Phenol (99%)	Pass	Not Tested	Not Tested
Phosphoric Acid (85%)	Pass	Not Tested	Not Tested
Phosphoric Trichloride (99%)	Pass	Not Tested	Not Tested
Potassium Acetate (10%)*	Pass	Not Tested	Not Tested
Potassium Chromate (10%)	Pass	Not Tested	Not Tested
Silver Nitrate (0.1 Norm)	Pass	Not Tested	Not Tested
Sodium Cyanide (10%)	Pass	Not Tested	Not Tested
Sodium Fluoride (10%)	Pass	Not Tested	Not Tested
Sodium Hydroxide (50%)	Pass	>480	Not Detected
Sodium Hypochlorite (17%/13%)	Pass (17%)	>480 (13%)	Not Detected
Styrene▲ (99%)	Pass	Not Tested	Not Tested
Sulfuric Acid (98%)	Pass	>480	Not Detected
Sulfuric Acid Oleum▲ (30%)	Pass	Not Tested	Not Tested
Tetrachloroethylene▲ (99%)	Pass	Immediate	High
Tetrahydrofuran (99%)	Pass	Immediate	High
Toluene▲ (99%)	Pass	Immediate	High
1,2,4-Trichlorobenzene (99%)	Pass	Not Tested	Not Tested
2,2,2-Trichloroethanol (99%)	Pass	Not Tested	Not Tested
2,2,2-Trifluoroethanol (99%)	Pass	Not Tested	Not Tested
White Liquor (Mixture)	Pass	>480	Not Detected

▲ 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 Breakthrough: Permeation observed at or before the time of first measurement

>480 breakthrough for the entire length of the test (480 min.)

Workmanship Requirements

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

For additional information: 1-888-346-4652 or KCPInfo@kcc.com

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