

# KleenGuard<sup>®</sup>

Chemical Permeation & Jet Liquid Protection Apparel

## A80

### Typical Uses

- Chemical handling/mixing/clean-up
- Hazardous material handling
- Hazardous waste clean-up
- Industrial Hazmat teams
- Petrochemical
- Utilities

When selecting chemical protective clothing, it's important to be sure that the garment offers adequate resistance to the chemicals being handled in your workplace.

Seams taped with  
**SARANEX<sup>®</sup> 23-P Film**

**PATENTED REFLEX<sup>®</sup> DESIGN** IS 7.5 TIMES LESS LIKELY TO RIP OUT THAN ANSI MINIMUMS — PROVIDES 12% MORE CHEST ROOM AND 6% LONGER BODY LENGTH

MADE FROM A DURABLE, FABRIC WITH AN EXTERIOR LAMINATED WITH SARANEX<sup>®</sup> 23-P FILM AND AN INTERIOR THAT HAS A COMFORTABLE, CLOTH-LIKE FEEL AGAINST THE SKIN

SEAMLESS FRONT TO PROVIDE MORE PROTECTION IN THE PRIMARY EXPOSURE AREA

TAPED STORM FLAP



<b>A80</b>
A70
A65
A60
A40
A30
A20
A10

## KLEENGUARD<sup>®</sup> A80 Apparel

formerly HAZARD-GARD<sup>®</sup> II Apparel

### COVERALLS — BOUND SEAMS — WHITE

#### Level B/C Suit

Zipper front, storm flap, elastic wrists, ankles & hood

STYLE	SIZE	CASE COUNT
45633	L	12
45634	X L	12
45635	XX L	12
45636	XXX L	10
45637	XXXX L	10

#### Level B/C Suit

Zipper front, storm flap, elastic wrists, ankles, hood & boots

STYLE	SIZE	CASE COUNT
45653	L	12
45654	X L	12
45655	XX L	12
45656	XXX L	10
45657	XXXX L	10

### COVERALLS — TAPED SEAMS — WHITE

#### Level B/C Suit

Zipper front, storm flap, elastic wrists, ankles, hood

STYLE	SIZE	CASE COUNT
45643	L	12
45644	X L	12
45645	XX L	12
45646	XXX L	10
45647	XXXX L	10

#### Level B/C Suit

Zipper front, storm flap, elastic wrists, ankles, hood & boots

STYLE	SIZE	CASE COUNT
45663	L	12
45664	X L	12
45665	XX L	12
45666	XXX L	10
45667	XXXX L	10

#### Level B/C Respirator Suit

Back zipper with storm flap, hood with Mylar<sup>®</sup> faceshield, booties with boot flaps, elastic wrists with wrist flaps, air inlet

STYLE	SIZE	CASE COUNT
45693	L	3
45694	X L	3
45695	XX L	3
45696	XXX L	3
45697	XXXX L	3

#### Level B/C Encapsulated Suit

Expanded back, back zipper with storm flap, hood with Mylar<sup>®</sup> faceshield, booties with boot flaps, elastic wrists with wrist flaps

STYLE	SIZE	CASE COUNT
45673	L	3
45674	X L	3
45675	XX L	3
45676	XXX L	3
45677	XXXX L	3



#### LIQUID & GAS CHEMICAL RESISTANCE TEST/KLEENGUARD\* A80 APPAREL FABRIC

CHEMICAL ASTM F1001	PENETRATION ASTM F903	PERMEATION ASTM F739	
		Normalized Breakthrough (min.)	Rate (µg/cm <sup>2</sup> min)
Acetone	Pass	22	High
Acetonitrile	Pass △	35	0.8
Ammonia	Not applicable	>480	ND
Carbon Disulfide	Pass △	Immediate	High
Chlorine	Not applicable	>480	ND
Dichloromethane	Pass △	Immediate	High
Diethylamine	Pass △	20	High
n,n-Dimethylformamide	Pass	109	0.45
Ethyl Acetate	Pass	18	0.8
n-Hexane	Pass △	>480	Not detected
Methanol	Pass △	>480	Not detected
Nitrobenzene	Pass	77	3.8
Sodium Hydroxide (50%)	Pass	>480	Not detected
Sulfuric Acid (98%)	Pass	>480	Not detected
Tetrachloroethylene	Pass △	50	8.2
Tetrahydrofuran	Pass	Immediate	High
Toluene	Pass △	6	High

Additional chemical test data is available at [www.kc-safety.com/chemicalbarrierdata](http://www.kc-safety.com/chemicalbarrierdata)

#### KLEENGUARD\* A80 TAPED SEAMS

CHEMICALS ASTM F1001	PENETRATION ASTM F903
Acetone	Pass
Acetonitrile	Pass △
Carbon Disulfide	Pass △
Dichloromethane	Pass △
Diethylamine	Pass △
n,n-Dimethylformamide	Pass
Ethyl Acetate	Pass
n-Hexane	Pass △
Methanol	Pass △
Nitrobenzene	Pass
Sodium Hydroxide (50%)	Pass
Sulfuric Acid (98%)	Pass
Tetrachloroethylene	Pass △
Tetrahydrofuran	Pass
Toluene	Pass △

Seams taped with  
**SARANEX® 23-P Film**

△ **WARNING:** Fabric passes penetration testing; however, the chemical is a known or suspected carcinogen or skin absorbed toxin.

#### PROPERTIES OF KLEENGUARD\* A80 APPAREL FABRIC

PHYSICAL PROPERTIES	TEST METHOD	RESULTS
Tensile Strength (MD)	ASTM D5034	52.8 lbs
	(CD)	40 lbs
Trapezoidal Tear (MD)	INDA IST 100.2	19.6 lbs
	(CD)	9.5 lbs
Mullen Burst	ISO 13938-1	54.3 psi
Flammability	CPSC 1610	Class 1
Hydrohead	AATCC 127-1998	625 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 Blood-Borne Pathogens Using Phi-X174 Bacteriophage Penetration as a Test System.

## KLEENGUARD\* A80 Accessories



#### APRON

STYLE	SIZE	CASE COUNT
45748	29" x 44"	50/cs, bulk pack



#### SLEEVE PROTECTOR - Elastic top, taped seam

STYLE	CASE COUNT
45749	100 ea/cs

