



Q-Gard Quantumwear C®

Patented Design Bound & Taped Seams Dry Particulate Chemical Resistant

Q-Gard **Quantumwear C**® is the newest addition to the **QPA**™ family of products. Q-Gard Quantumwear® with input from end users and industry experts. Our patented design and enhanced protection features reduces contamination risk while maintaining comfortability. Q-Gard **Quantumwear**® is a trusted protective suit by the Federal Government.

Cool. Comfortable. Safe.

- ASTM F1670 Blood Borne Pathogen
- ASTM F1671 Viral Penetration
- NFPA 99 Antistatic
- ASTM F739 & F903 Challenge Chemical Tests



Larger than ANSI sizes for comfort and fit

Patented adjustable flap for better respirator fit

Patented flap and doffing tab design reduces contamination risk

PSA Storm flap zipper and bound then fully taped seams help prevent most penetration of solids and liquids

Higher stitch count and more material in high stress areas than industry leaders

Larger ankles and fully taped foot bed seams



US Patent # 8,621,669

Coverall

0117_C

Patented design, zipper w/ storm flap, hood and boot, elastic wrist ankles and back, white

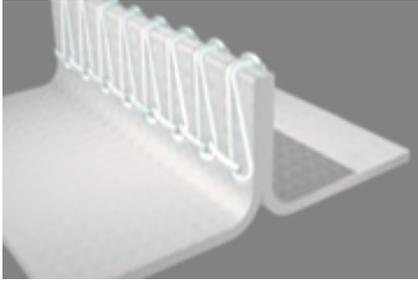
Sizes: LG-6XL

Case Pack: 25

The patented design dramatically reduces the risk of contamination during the donning, doffing, and decontamination processes. Superior design features an adjustable neck closure system. The specially designed doffing tabs and sequenced, peel-away procedure eliminate contamination risk, an industry best practice.

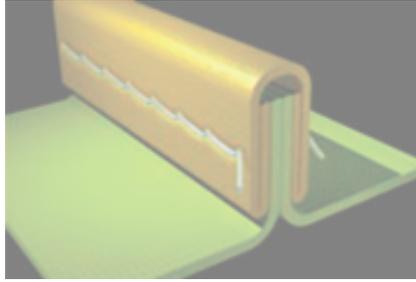
Physical Construction

Serged Seam



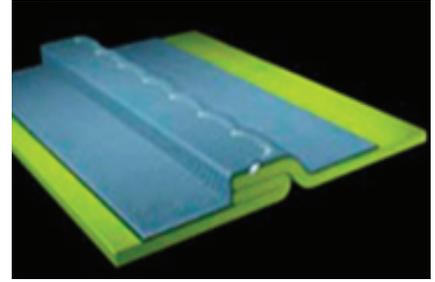
Serged seams join two pieces of material with a thread that interlocks. This is an economical stitching method for general applications, where dry particulates are a concern. Not for the use for chemical protection.

Bound Seam



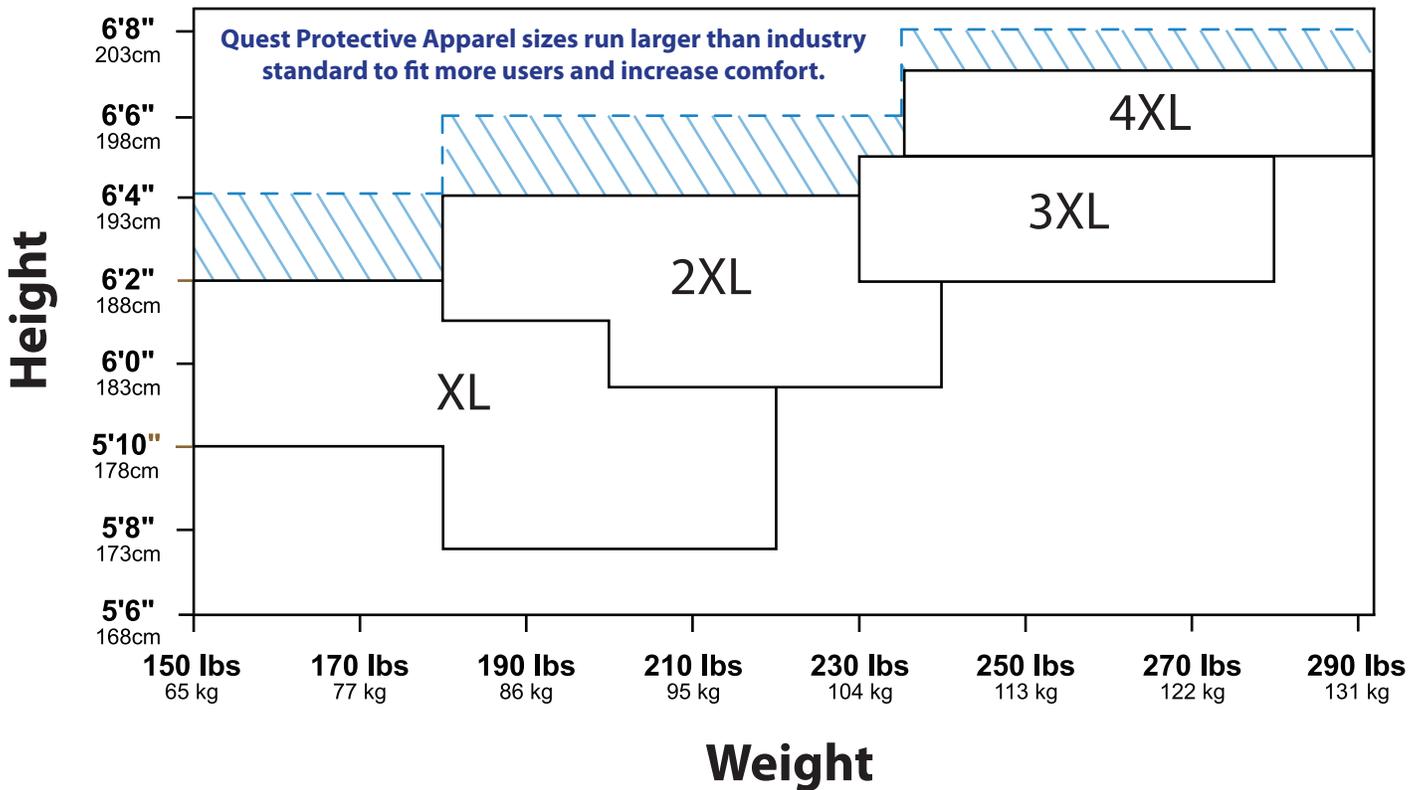
Bound seams join two pieces of material with an overlay of similar material and is chain stitched through all of the layers for a clean finished edge. This provides increased holdouts of both liquid and dry particulates.

Taped Seam



Taped seams utilize a bound seam with additional protection of a heat active tape. This provides a liquid proof seam that's useful for chemical protective clothing.

REAL WORLD SIZING CHART



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ASTM F739 Test Method for Testing
The Permeation Resistance of
Protective Clothing Material

Kimberly-Clark Kleenguard
A70®

DuPont Tychem QC®

Quest Quantumwear C®

Kimberly-Clark Kleenguard
A70®

DuPont Tychem QC®

Quest Quantumwear C®

Chemical	CAS #	Avg. Normalized Breakthrough (min)			Avg. Steady State Permeation (µg/cm ² /min)		
		Kimberly-Clark Kleenguard A70®	DuPont Tychem QC®	Quest Quantumwear C®	Kimberly-Clark Kleenguard A70®	DuPont Tychem QC®	Quest Quantumwear C®
Ammonia, anhydrous	7664-41-7	-	1	1	N/A	3.1	0.74
Dichloromethane	75-09-2	1	1	1	85.1	>50	0.23
Dimethylformamide	68-12-2	1	1	ND	2.54	0.72	N/A
50% Sodium Hydroxide	1310-73-2	ND	ND	ND	-	-	-
93% Sulfuric Acid	7664-93-9	ND	ND	ND	-	-	-
Toluene	108-88-3	1	1	1	HIGH	503	0.12
Acetone	67-64-1	1	1	1	7.9	10	0.15
Acetonitrile	75-05-8	1	1	ND	8.97	16	-
Carbon Disulfide	75-15-0	1	1	1	76.3	HIGH	0.55
Diethylamine	109-89-7	1	1	1	HIGH	64	0.51
Ethyl Acetate	141-78-6	1	1	1	40.3	13	0.4
n-Hexane	110-54-3	1	1	1	HIGH	HIGH	0.37
Methanol	67-56-1	1	1	1	1.71	2.2	-
Nitrobenzene	98-95-3	1	1	1	97.4	18	0.61
Tetrachloroethylene	127-18-4	1	1	1	HIGH	HIGH	1.38
Tetrahydrofuran	109-99-9	1	1	1	32.8	18.3	0.44
1,3-Butadiene	106-99-0	-	1	1	-	12	-
Chlorine	7782-50-5	-	1	1	-	>50	0.23
Ethylene Oxide	75-21-8	-	1	1	-	167	-
Hydrogen Chloride	7647-01-0	-	1	1	-	9.3	0.64
Methyl Chloride	74-87-3	-	1	1	-	0.23	-
Nitric Acid	7697-37-2	193	-	-	20	1.77	316
Potassium Hydroxide	1310-68-3	-	-	-	ND	-	-
Hydrofluoric Acid	7664-39-3	-	-	ND	-	-	-

ASTM F903 Test Method for Resistance
of Materials Used in Protective Clothing
to Penetration by Liquids

Kimberly-Clark Kleenguard
A70®

Quest Quantumwear C®

Chemical	CAS #	Result	
		Kimberly-Clark Kleenguard A70®	Quest Quantumwear C®
Dichloromethane	75-09-2	PASS	PASS
Dimethylformamide	68-12-2	PASS	PASS
50% Sodium Hydroxide	1310-73-2	PASS	PASS
93% Sulfuric Acid	7664-93-9	PASS	PASS
Toluene	108-88-3	PASS	PASS
Acetone	67-64-1	PASS	PASS
Acetonitrile	75-05-8	PASS	PASS
Carbon Disulfide	75-15-0	PASS	PASS
Diethylamine	109-89-7	PASS	FAIL
Ethyl Acetate	141-78-6	PASS	PASS
n-Hexane	110-54-3	PASS	PASS
Methanol	67-56-1	PASS	PASS
Nitrobenzene	98-95-3	PASS	PASS
Tetrachloroethylene	127-18-4	PASS	PASS
Tetrahydrofuran	109-99-9	PASS	PASS
Nitric Acid	7697-37-2	PASS	PASS
Potassium Hydroxide	1310-68-3	-	PASS
Hydrofluoric Acid	7664-39-3	-	PASS

I = Immediate ND = Not Detected
In accordance to ASTM Test Methods by 3rd party

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