

Security Uniform Technical Specification Template

Fabric, badge, hardware & compliance spec sheet for security uniform programs

Standard: AQL 2.5 | ISO 9001 | Document ID: SPEC-SEC-001

1. Program Overview

Complete once per program. This sheet becomes the spec every order, sample, and audit is measured against. Values marked "engineering target" are the standards we build to and certify per lot — batch test reports ship with each production batch.

FIELD	DETAIL	FIELD	DETAIL
Organization		Sites / Posts	
Roles Covered		Annual Volume	
Contract Term (1-3 yrs)		MOQ (100/style, 50 pilot)	
7-Day Wearable Sample		48h 3D Preview	
Staged Dispatch / Air-Sea Split		21-Day Package	

2. Garment Types

List every garment in the program. Fill fabric, weight, closures, and badge type per garment.

GARMENT TYPE	FABRIC (FILL)	WEIGHT (FILL)	CLOSURES / HARDWARE (FILL)	BADGE TYPE (FILL)
Authority Set — duty shirt				
Authority Set — tactical trousers				
Authority Set — duty jacket				
Patrol Workwear — softshell / hardshell				
Patrol Workwear — reflective duty vest (ANSI/ISEA 107)				
Utility Coveralls — one-piece / two-piece				
Additional garments				

3. Fabric Engineering Targets (per lot)

Reference values we build to and verify per lot — not blanket marketing claims.

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SPEC	ENGINEERING TARGET	METHOD	WHERE IT MATTERS
Base Fabric	50/50 NyCo ripstop · 6.0–7.0 oz/yd ² (200–240 g/m ²)	ASTM D3776	Base shell for duty garments
Tensile Strength	Warp 200 lbs · Filling 90 lbs	ASTM D5034 (grab)	Seams that take chase-and-tack
Tear Strength	Warp 7.0 · Weft 5.0 lbs	ASTM D1424 (Elmendorf)	Snag- and catch-prone posts
Water Repellency	DWR finish — initial rating 80+	AATCC 22	Rain and splash exposure
Dimensional Stability	Shrinkage ≤ 3–5% after laundering	AATCC 135	Fit consistency across the team
Melt / Drip	NyCo chars — no melt-drip	Vertical flame screening	Hot-work and close-contact env
Colorfastness	Grade 4+ — perspiration & UV	ISO 105 / AATCC 16.3	Sun-exposed, high-laundry pos
Bar-tacks	5–7 per major stress point	QC protocol	Pockets, epaulets, belt loops
Seam Construction	Flat-felled / French on load-bearing seams	QC protocol	Crotch, shoulders, side seams
Hardware	YKK #5 / #8 zippers	YKK gauge spec	Duty jackets, coveralls
Stitch Density	SPI specified for critical seams	QC protocol	Consistent seam strength

4. Badge & Identification Spec

ITEM	SPEC
Badge method	Embroidery / woven label / heat-transfer / silicone — matched to duty
Placement tolerance	Badge positioned to a specified distance from the shoulder seam (mm) — sealed on t
Detachable badge & rank system	One garment body, several role identities — fewer SKUs to stock
Name-tape	48-hour reorder lane from the archived file
Lab-dip approval	Pantone / dye-lot signoff written into the contract before bulk
Night visibility	ANSI/ISEA 107 reflective options for night posts; low-profile trim for corporate-facing

5. Compliance & Documentation

DOCUMENT	WITH EVERY SHIPMENT
Batch-level test reports	For the specs listed in this sheet — sealed at lot level
Care & fiber labels	Destination-country labels on each garment

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DOCUMENT	WITH EVERY SHIPMENT
Origin documentation	Factory-direct file chain with one accountable party
Inspection record	AQL 2.5 pre-shipment inspection on 100% of batches

6. Delivery & Logistics

MILESTONE	TIMELINE
3D preview with badge placement	48 hours from artwork
Wearable sample (incl. one sewn badge)	7 days
Seal sample approved	Locked before bulk — becomes the batch standard
Production & triple QC	Cut / sewn / finished + badge-position spot checks
Staged dispatch	Per site or team; air/sea split for the critical first wave
Go-live	Inside the contract window — 21-day standard package

7. Vendor Evaluation Scoring Matrix

CRITERION	WEIGHT	SUPPLIER A	SUPPLIER B	SUPPLIER C
Color & fit consistency (spec archive)	25%			
Fabric spec transparency (test methods)	20%			
Badge & identification precision	15%			
Delivery & replenishment	15%			
Documentation & compliance	15%			
Account management	10%			

Update quantities, specs, and pricing to match your program. All fabric values are engineering targets built to and certified per lot.