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SECURITY UNIFORMS · TECHNICAL SPEC TEMPLATE

Security Uniform Technical Spec Template

Fabric, badge, hardware and compliance spec — sealed per lot, with batch test reports that ship alongside every production order.

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DISCLAIMER

This document is practical procurement and design guidance written from a China-side workwear factory's perspective. It is not legal, safety or compliance advice. Fabric values are engineering targets; confirm exact standards, certification scope and fit against an accredited lab report and your own approved sample before you commit funds.

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.

SPEC	ENGINEERING TARGET	METHOD	WHERE IT MATTERS
Base Fabric	50/50 NyCo ripstop · 6.0–7.0 oz/yd² (200–240 g/m²)	Mill spec / ASTM D3776	Base shell for duty garments

SPEC	ENGINEERING TARGET	METHOD	WHERE IT MATTERS
Tensile Strength	Warp 200 lbs · Filling 90 lbs	ASTM D5034 (grab)	Seams that take chase-and-tackle loads
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 environments
Colorfastness	Grade 4+ — perspiration & UV	ISO 105 / AATCC 16.3	Sun-exposed, high-launder posts
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 the approved sample
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 work

5. Compliance & Documentation

DOCUMENT	WITH EVERY SHIPMENT
Batch-level test reports	For the specs listed in this sheet — sealed at lot level

DOCUMENT	WITH EVERY SHIPMENT
Care & fiber labels	Destination-country labels on each garment
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.

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Seal the spec before the first bulk run.

Send the post list and duty profile — a sealed spec, a fabric engineering target sheet and a 7-day wearable sample are returned before bulk.

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