
LANTAOWORK

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COVERALL SELECTION CHECKLIST

Coverall Selection Checklist

Match the suit to the hazard, verify the build, and gate the order before bulk.
A 7-type matrix, a chemical-seam gate, and the approvals that lock the program.

Version 2.0 Last updated: September 7, 2026

DISCLAIMER

This checklist is practical procurement guidance, written from a China-side factory's perspective. It is not legal, tax, compliance, or safety advice. Certification and fit vary by fabric, seam, and pattern block; confirm exact garment standards and fit against an approved sample before you commit funds.

Standard: OSHA PPE / NFPA / EN ISO / ANSI-ISEA | Document ID: SPEC-COVERALL-001

1. Program Overview

Complete once per program. This sheet becomes the spec every order, sample, and audit is measured against. Fill the blank cells; seal the approved garment against the approved sample before bulk.

FIELD	DETAIL	FIELD	DETAIL
Organization		Sites / Crews	
Roles Covered		Annual Volume	
Hazard Environment		Primary Standard (NFPA / EN / ANSI)	
Laundry Method (in-house / industrial rental)		Wash Temp °C	
Target Wash Cycles / Week		Replacement Interval (months)	
MOQ (300/style, 150 reorder, 100 DTF)		Sample Lead Time (7 days)	

2. Hazard Assessment Gate

Work the hazard first, then the standard, then the build, then the lifecycle. A suit bought on habit skips this gate and swaps a shop garment for certified protection.

STEP	WHAT TO CHECK	FINDINGS	PASS/FAIL
Define the threat	Exact workplace hazard: heat, chemical splash, arc energy, low light, cold, or daily grime.		☐ PASS ☐ FAIL
Verify the rules	Match hazard to standards: OSHA PPE, NFPA 2112/70E, EN ISO 11612, ANSI/ISEA 107.		☐ PASS ☐ FAIL
Inspect the build	Seam construction (taped / bound), flatlock seams, overall fit, worker mobility.		☐ PASS ☐ FAIL
Plan the lifecycle	Maintenance protocol and replacement cycle before ordering.		☐ PASS ☐ FAIL

3. 7-Type Quick Selection Matrix

Pick the garment family from your worst-case exposure, then spec the seams, tapes, and closures that make the rating real.

GARMENT TYPE	PRIMARY HAZARD	KEY STANDARD	SPEC THAT MATTERS	BEST FOR
Flame-Resistant	Flash fire, sparks, molten splashes	NFPA 2112, EN ISO 11612	Inherent FR fiber; vertical flame test after laundering	Welding, oil & gas, foundries
Chemical Protective	Splash, spray, airborne particles	EN 14605, EN ISO 13982-1, NFPA 1991/1992/1993	Type 3–6 rating; taped seams	Hazmat, chemical handling
Arc Flash	Incident energy from electrical faults	NFPA 70E, ASTM F1506	Stated cal/cm ² arc rating	Electrical & utility maintenance

GARMENT TYPE	PRIMARY HAZARD	KEY STANDARD	SPEC THAT MATTERS	BEST FOR
High-Visibility Waterproof	Low-light visibility + rain exposure	ANSI/ISEA 107, EN ISO 20471	Fluorescent fabric, retroreflective tape, taped seams	Roadwork, rail, outdoor utility
Disposable	Dust, paint, cleanup, particulate	Type 5/6, ANSI/ISEA 101	SMS vs microporous film; seam construction	One-and-done cleanup, asbestos control
Thermal Insulated	Extreme cold, wind chill	ANSI/ISEA 201	Fill weight, storm flaps, tight cuffs	Freezers, winter sites, night shifts
Breathable Reusable	Grease, abrasion, daily wear	—	65/35 poly-cotton; articulated back, gusseted crotch	Daily mechanic & shop work

4. Chemical Suit Type Tiers

Map the suit to exposure severity. Never trust bound seams with hazardous liquids — demand taped seams for Type 3/4.

TYPE	PROTECTION	REFERENCE
Type 1 (gas-tight)	Sealed suits for gases, vapors, and liquids — highest tier	EN 943
Type 2	Non-gas-tight; limits vapor and particulate ingress	
Type 3	Liquid-tight against strong chemical jets	EN 14605
Type 4	Spray-tight against liquid saturation and splash	
Type 5	Blocks airborne particulate	EN ISO 13982-1
Type 6	Handles light splash	EN 13034

Permeation checkpoints for chemical suits: breakthrough time (minutes to cross the barrier), permeation rate (speed after breakthrough), degradation (melting, hardening, swelling), penetration (leaks through zippers or seams). Match the test chemical, concentration, temperature, and duration to the job site.

5. Disposable vs Reusable Gate

Choose the gear format by total cost of ownership, not price per suit.

DECISION FACTOR	CHECK	DECISION
Contamination risk	Heavy toxic particulate (asbestos, lead dust) → disposables	☐ DISPOSABLE ☐ REUSABLE
Laundering burden	High industrial wash cost → disposables win	☐ DISPOSABLE ☐ REUSABLE
Expected wear cycles	Fabric survives 50+ heavy washes → reusables	☐ DISPOSABLE ☐ REUSABLE
Total cost	Daily cost of cheap suits vs monthly wash cost of reusables	☐ DISPOSABLE ☐ REUSABLE

6. Fit, Seams & Hardware Pass/Fail

Run every gate before bulk. A loose collar, a serged edge on hazardous work, or a tight hood can all fail on the line.

CHECK	WHAT PASSES	PASS/FAIL
Arc rating	Garment cal/cm ² matches panel incident energy	☐ PASS ☐ FAIL
Chemical seams	Taped seams for Type 3/4 or hazardous liquid use	☐ PASS ☐ FAIL
Hi-vis seams	Taped seam sealing on waterproof hi-vis suits	☐ PASS ☐ FAIL
Reflective tape	Retroreflective tape intact and clean	☐ PASS ☐ FAIL
Cold hardware	Storm flaps and tight cuffs to block wind	☐ PASS ☐ FAIL
Mechanic build	Gusseted crotch and articulated back present	☐ PASS ☐ FAIL
Layering fit	Hood and cuff room for bulky undergarments	☐ PASS ☐ FAIL
Size mapping	Dimensions matched to the coverall size chart	☐ PASS ☐ FAIL

7. Approval Sign-off

Lock stakeholder approval before bulk. A skipped sign-off can reject the whole program — arc rating, seam spec, or fit drift that only surfaces on the line.

Safety sign-off:

Date:

Procurement sign-off:

Date:

Approved garment & spec lock:

Values in this sheet are internal engineering benchmarks; cross-check critical specs against independent third-party lab reports before buying. LantaoWork manufactures custom coveralls — request samples and a hazard-matched spec on the contact page.

LANTAOWORK COVERALL GUIDE

Match the Suit to the Hazard on the First PO.

Send your crew's hazard and size run — we return a rating-matched spec, a seam build that makes the rating real, and a 7-day certified sample before you commit.

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