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FR COVERALLS · SPECIFICATION SHEET

FR Coverall Specification Sheet

Hazard-to-standard mapping, the four builds, the two fabric routes and the trims that keep a rating intact — the sheet we quote from.

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DISCLAIMER

This specification sheet is practical procurement guidance written from a China-side workwear factory's perspective. It is not legal, safety or compliance advice. Certification, fabric performance and fit vary by garment type, seam construction and pattern block; confirm exact standards and fit against an approved sample and the current official texts before you commit funds.

FR coverall specification | Document ID: SPEC-FR-COVERALL-001

Specification Summary

PARAMETER	WHAT WE BUILD
Fabric	FR cotton duck, aramid blend, modacrylic blend
Weight range	6oz – 12oz
Standards we build to	NFPA 2112, NFPA 70E, ASTM F1506, IEC 61482, EN ISO 11612
Certification	Finished-garment certification is issued by a third-party body, not by the factory. A batch test report ships with every lot.
Wash performance	Stated per production lot in the lot report
Lot documentation	Lot test report issued per shipment
Grading	XS–6XL, separate men's and women's blocks
MOQ	100 pieces per style
Fit sample	7–10 days
Quote reply	24 hours

Matching the Hazard to the Standard

HAZARD	STANDARD	BUILD WE QUOTE
Flash fire	NFPA 2112, EN ISO 11612	8–12oz FR duck or aramid blend
Electric arc	NFPA 70E, ASTM F1506, IEC 61482	Arc-rated, CAT 1 to CAT 4
Molten metal and spatter	EN ISO 11612 D/E, EN ISO 11611	10–12oz FR cotton duck

Terminology note: flame resistant, flame retardant and fire resistant describe the same class of garment. "Fireproof" is not a testable category — no woven shell survives unlimited heat. Ask which standard a claim is measured against.

The Four Builds

BUILD	WEIGHT	CLOSURE	TYPICAL USE
FR Work Coverall	8–10oz	Two-way zip + storm flap	Maintenance and field crews
FR Bib Coverall	8–12oz	Suspender + snap front	Layering over a base layer
Vented & Summer FR	6–7oz	Two-way zip	Hot plants, enclosed vessels
Men's & Women's FR	As specified	As specified	Mixed crews, two pattern blocks

Inherent vs Treated FR Fabric

DECISION	INHERENT (ARAMID / MODACRYLIC)	TREATED FR COTTON
Where the protection lives	In the fibre itself	In a chemical finish
Industrial laundering	Rating stays with the fibre	Finish degrades with each wash
Cost profile	Higher cost per garment	Lower upfront cost
Best fit	Multi-year programmes	Fixed replacement cycles

Divide the garment cost by its stated wash limit before comparing two quotes. The cost-per-wear figure is the only number that is comparable across builds.

Trims That Keep the Rating Intact

PART	WHAT WE SPECIFY	WHAT VOIDS THE RATING
Thread	Aramid, continuous filament, at every load-bearing seam	Polyester thread melts before the shell does
Closures and hardware	Non-sparking brass with an insulating layer beneath, or FR-rated plastic	Exposed nickel snaps, standard nylon zip tape
Reflective tape and interlining	FR-rated tape, FR-rated interlining and fusible	Standard tape bonded onto an FR shell

What Ships With Every Lot

- Report reference — lot code tying the report to the rolls actually cut
- Standard and edition year — for example NFPA 2112-2023
- Scope of claim — fabric, seam, or finished garment
- Test laboratory — named, with an accreditation number you can look up
- Wash cycles tested and the result at the end of the cycle
- Traceability — roll code to cut ticket to finished garment

Specification Checklist

- ☐ Hazard identified and matched to a standard
- ☐ Build selected — work, bib, vented, or men’s and women’s
- ☐ Fabric route chosen — inherent or treated
- ☐ Trim specification frozen — thread, hardware, tape
- ☐ Size matrix mapped from the crew roster
- ☐ Wash limit requested in writing
- ☐ Lot report contents confirmed before the PO

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Send the standard.
We will confirm the build.

Tell us the hazard, the standard your audit runs against and the crew size — the build, the weight band and the lot-report contents come back within 24 hours.

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