

HELD TO A HIGHER STANDARD

Flame Resistant Apparel Guide



PROTECTION FOR ELECTRICAL SAFETY HAZARDS.

ELECTRIC & GAS UTILITIES



TELECOM



POWER GENERATION



PIPELINE & CONSTRUCTION WORK



PETROCHEMICAL



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TINGLEY

est. 1896

KNOW THE STANDARDS & TEST METHODS



ASTM D6413

Baseline test method for the flame resistance of textiles.



ASTM F1959

Panel test to determine Arc Rating of a material.



ASTM F1930

Manikin test for flash fire, measures total body burn.



ASTM F1506

Minimum Performance Standard for Arc and Flame-Resistant Clothing



ASTM F1891

Minimum Performance Standard for Arc and Flame-Resistant Rainwear



ASTM F2733

Flash Fire Standard for Rainwear
Total Body Burn <40% to pass

Requires that material receives an Arc Rating per ASTM F1959

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NFPA 70E

The National Fire Protection Association Standard

Wear arc rated clothing when exposed to any thermal hazard significant enough to cause second degree burns.

PPE must meet the below standards + provide adequate protection for the hazard risk:

*To be compliant, rainwear must meet ASTM F1891

| HAZARD RISK CATEGORY (CAT) | MINIMUM ARC RATING |
|----------------------------|------------------------|
| CAT 1 | 4 CAL/CM ² |
| CAT 2 | 8 CAL/CM ² |
| CAT 3 | 25 CAL/CM ² |
| CAT 4 | 40 CAL/CM ² |



KNOW THE MATERIAL



Modacrylic / Cotton

- ✔ Won't melt or drip when exposed to flame
- ✔ Provides high-visibility performance



PVC on Nomex®

- ✔ Extreme heat thickens fibers to increase protective barrier
- ✔ Excellent heat resistant properties



FR PVC / Polyester

- ✔ Lightweight, durable with limited flame resistance
- ✔ Self-extinguishing when flame is removed

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KNOW THE HAZARD RISK

CAT 1: Minimum Arc Rating 4 cal/cm²

High Visibility & Flame Resistance

✔ Electric Utilities

✔ Telecommunications

Modacrylic / Cotton Blend

JOB SIGHT FR
CLASS 2 VISIBILITY



Mesh Vest
5.1 cal/cm² Arc Rating



Standard Vest
6.8 cal/cm² Arc Rating



Breakaway Vest
6.8 cal/cm² Arc Rating



Surveyor Vest
6.8 cal/cm² Arc Rating

CAT 2: Minimum Arc Rating 8 cal/cm²

High Visibility & Flame Resistance

✔ Electric Utilities

✔ Telecommunications

Modacrylic / Cotton Blend

JOB SIGHT FR
CLASS 3 VISIBILITY



Long Sleeve
9.1 cal/cm² Arc Rating



Zip-Up Hoodie
15 cal/cm² Arc Rating

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KNOW THE HAZARD RISK

CAT 2: Minimum Arc Rating 8 cal/cm²

Wide-Ranging FR Rain Wear

- ✓ Electric & Gas Utilities
- ✓ Pipeline & Construction
- ✓ Power Generation
- ✓ Energy Exploration



High-Visibility - Liquid Proof - Arc Resistant - Flash Fire Compliant (Excludes Coats)

PVC on Non-Woven Nomex®

ECLIPSE
QUAD-HAZARD PROTECTION



Yellow-Green Jacket
8.7 cal/cm² Arc Rating



Yellow-Green Overalls
8.7 cal/cm² Arc Rating



Yellow-Green Coat
8.7 cal/cm² Arc Rating



Orange-Red Jacket
11 cal/cm² Arc Rating



Orange-Red Overalls
11 cal/cm² Arc Rating



Orange-Red Coat
11 cal/cm² Arc Rating

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KNOW THE HAZARD RISK

CAT 2: Minimum Arc Rating 8 cal/cm²

Flash Fire & Chemical Protection

- ✓ Petrochemical
- ✓ Off-Shore Drilling
- ✓ Chemical



Liquid Proof – Arc Resistant – Flash Fire Compliant

PVC on Non-Woven Nomex®

ECLIPSE
TRI-HAZARD PROTECTION



Blue Jacket
14 cal/cm² Arc Rating



Blue Overalls
14 cal/cm² Arc Rating



Detachable Hood
14 cal/cm² Arc Rating

Flame Resistant / Self-Extinguishing ASTM D6413

Safety, Comfort & Affordability

- ✓ Construction
- ✓ General Industry

Heat-Sealed PVC on Polyester

COMFORT-BRITE
LIGHTWEIGHT AND DURABLE



Jacket, Overalls, Coat
Multipurpose FR



Jacket, Overalls
Multipurpose FR

*Self extinguishing with flameout and afterglow less than or equal to 2 seconds after removal of ignition source and char length less than 6 inches.

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LAYERING FR CLOTHING GIVES

INCREASED BURN PROTECTION

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