



ARC-Rating Risk Category Chart

Complimentary colors and ATPV ratings associated with each category display for each item in this catalog

The use of "HRC" has been replaced by "Category (CAT) OR (PPE)"

Hazard Risk Category (PPE Levels)	Minimum ARC Rating (cal/cm ²)
Category 1	ARC Rating 4
Category 2	ARC Rating 8
Category 3	ARC Rating 25
Category 4	ARC Rating 40

*Adapted from National Fire Protection Association (NFPA) standard for 70E Electrical Compliance, 2015

All Flame-Resistant (FR) clothing purchased from Amaril Uniform is ARC-Rated (AR). Please know there is a difference between **ARC-Rated Flame-Resistant** clothing, and **Fire-Retardant** clothing that you may find online. Look for ratings, such as "Category 2" or "ATPV 8.9" to identify and match your rating to your job requirement. Amaril Uniform Company only sells high-quality, ARC-rated product. Know what you're buying!
Be smart. Be safe.



2017 Standard Regulation Outline

OSHA

Governing Body	Standard	Applies To	Regulation Summary
United States Government Occupational Safety and Health Administration (OSHA)	29CRF 1910.269	Electric Power Generation Electric Power Transmission Electric Power Distribution	Original guidelines processed in 1972 Modified in 2014 Addresses: <ul style="list-style-type: none"> • 2014 Modification: Use of ARC-rated clothing in correlation to ARC hazard assessment performed internally by electrical utility or outside resource • Flame-resistant clothing and all PPE must comply to findings of ARC hazard assessment • Employers responsible for purchase of all PPE related to job safety • ARC rated clothing, if layered, must be pre-tested as a pair, with formal ARC rating. One must not add 1+1 in terms of ATPV level on layered garments. This practice is not within OSHA compliance. • Minimum approach distances in relation to voltage • Operating mechanical equipment on or near power lines • Proper workplace training and practice • Safety and care of PPE, including garments • Foot protection as PPE

For more information, please visit: www.osha.gov

NFPA

Governing Body	Standard	Applies To	Regulation Summary
National Fire Protection Association	2112	Oil Gas Petrochemical	Modified 2012 <ul style="list-style-type: none"> • Reduce harmful injury due to flash-fire • 3 second flash-fire test • Less than 50% body burn
	2113	Proper Care and Maintenance of Flame-Resistant Clothing and PPE	Modified 2013 <ul style="list-style-type: none"> • Reduce harmful injury due to flash-fire • Proper use of flame-resistant garments • Proper maintenance of flame-resistant garments before, during and after exposure to flash-fire or short flame • Use of hazard assessment to determine quantifiable energized level as it relates to ATPV level of flame-resistant garment • Fire Hazards: oxygen, jet fuel, flammable liquid, vapor, dust, structural/building See Amaril Uniform Laundry Tips at www.amaril.com
	70E	Electric Industry	Modified 2012 <ul style="list-style-type: none"> • Safe work practices in relation to electrical ARC flash • Proper use of flame-resistant clothing to reduce potential burn and risk from ARC flash • Use of flash-hazard assessment to determine risk • Clothing must meet or exceed calculated incident energy

For more information, please visit: www.nfpa.org

ASTM

Governing Body	Standard	Applies To	Regulation Summary
American Society for Testing and Materials	F1506	In relation to NFPA 70E	<p style="text-align: center;">Last Published 2010</p> <ul style="list-style-type: none"> • Specifications of flame-resistance of “textile material” in relation to electrical ARC flash • Understanding fire hazard in relation to job or physical area • Wearing product that meets minimum ARC hazard assessment • Use of flame-resistant thread in construction of flame-resistant garments • Use of fasteners that are covered, or non-conductive
	F1891	In relation to NFPA 70E Electrical ARC hazard and Rain-Wear	<p style="text-align: center;">Last Published 2012</p> <ul style="list-style-type: none"> • In relation to electrical ARC flash and rain wear • Rain wear that meets a minimum requirement when exposed to electrical ARC flash • Use of flame-resistant material that minimizes injury and harm to worker • Level of incident energy in relation to hazard
	F2302	Labeling protective clothing as flame-resistant	<p style="text-align: center;">Last Published 2008</p> <ul style="list-style-type: none"> • Addresses minimum labeling requirements, such as manufacturer name and laundry and care instruction • Addresses hook-and-loop, button, additional accessories in relation to testing
	F2733	In relation to NFPA 2112 Flash-Fire and Rain-Wear	<p style="text-align: center;">Last Published 2009</p> <ul style="list-style-type: none"> • Establishes minimum requirement for rain wear related to petrochemical fire hazard • Minimum required level when exposed to fire • Trapezoidal tear resistance • Seam construction to meet “leak resistance” requirement • Coverage for conductive material, such as clasps, zippers and buttons • Care label and instructions addressed

For more information, please visit: www.astm.org

ANSI

Governing Body	Standard	Applies To	Regulation Summary
American National Standards Institute	ANSI/ISEA 107-2015	<p>In relation to Hi-Visibility garments</p> <p><i>*Current ANSI/ISEA 107-2010 and ANSI/ISEA 107-2011 garments are still acceptable and compliant</i></p>	<p style="text-align: center;">Last Published 2010</p> <ul style="list-style-type: none"> • New HVSA groups include O, R, P O-Off-Road/Not near roadway R-Roadway P-Public Safety • New HVSA Classes include O, R, P, E O-Class 10 R-Class 2R and Class 3P P- Class 2P and Class 3P E- Supplemental group • Modifications to square inch requirements, to include size small options more easily • Garment labeling for non-flame-resistant product

For more information, please visit: www.ansi.org

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