



# ARC-Rating Risk Category Chart

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

**\*2015: The use of "HRC" has been replaced by "Category"**

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

\*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.



# 2015 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"> <li>• 2014 Modification: Use of ARC-rated clothing in correlation to ARC hazard assessment performed internally by electrical utility or outside resource</li> <li>• Flame-resistant clothing and all PPE must comply to findings of ARC hazard assessment</li> <li>• Employers responsible for purchase of all PPE related to job safety</li> <li>• 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.</li> <li>• Minimum approach distances in relation to voltage</li> <li>• Operating mechanical equipment on or near power lines</li> <li>• Proper workplace training and practice</li> <li>• Safety and care of PPE, including garments</li> <li>• Foot protection as PPE</li> </ul>

For more information, please visit: [www.osha.gov](http://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"> <li>• Reduce harmful injury due to flash-fire</li> <li>• 3 second flash-fire test</li> <li>• Less than 50% body burn</li> </ul>
	2113	Proper Care and Maintenance of Flame-Resistant Clothing and PPE	Modified 2013 <ul style="list-style-type: none"> <li>• Reduce harmful injury due to flash-fire</li> <li>• Proper use of flame-resistant garments</li> <li>• Proper maintenance of flame-resistant garments before, during and after exposure to flash-fire or short flame</li> <li>• Use of hazard assessment to determine quantifiable energized level as it relates to ATPV level of flame-resistant garment</li> <li>• Fire Hazards: oxygen, jet fuel, flammable liquid, vapor, dust, structural/building</li> </ul> See Amaril Uniform Laundry Tips at <a href="http://www.amaril.com">www.amaril.com</a>
	70E	Electric Industry	Modified 2012 <ul style="list-style-type: none"> <li>• Safe work practices in relation to electrical ARC flash</li> <li>• Proper use of flame-resistant clothing to reduce potential burn and risk from ARC flash</li> <li>• Use of flash-hazard assessment to determine risk</li> <li>• Clothing must meet or exceed calculated incident energy</li> </ul>

For more information, please visit: [www.nfpa.org](http://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"> <li>• Specifications of flame-resistance of “textile material” in relation to electrical ARC flash</li> <li>• Understanding fire hazard in relation to job or physical area</li> <li>• Wearing product that meets minimum ARC hazard assessment</li> <li>• Use of flame-resistant thread in construction of flame-resistant garments</li> <li>• Use of fasteners that are covered, or non-conductive</li> </ul>
	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"> <li>• In relation to electrical ARC flash and rain wear</li> <li>• Rain wear that meets a minimum requirement when exposed to electrical ARC flash</li> <li>• Use of flame-resistant material that minimizes injury and harm to worker</li> <li>• Level of incident energy in relation to hazard</li> </ul>
	F2302	Labeling protective clothing as flame-resistant	<p style="text-align: center;">Last Published 2008</p> <ul style="list-style-type: none"> <li>• Addresses minimum labeling requirements, such as manufacturer name and laundry and care instruction</li> <li>• Addresses hook-and-loop, button, additional accessories in relation to testing</li> </ul>
	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"> <li>• Establishes minimum requirement for rain wear related to petrochemical fire hazard</li> <li>• Minimum required level when exposed to fire</li> <li>• Trapezoidal tear resistance</li> <li>• Seam construction to meet “leak resistance” requirement</li> <li>• Coverage for conductive material, such as clasps, zippers and buttons</li> <li>• Care label and instructions addressed</li> </ul>

For more information, please visit: [www.astm.org](http://www.astm.org)

Disclaimer: Please visit the associated website for detailed information. NFPA and ASTM require payment for viewing and downloading of full standard. The aforementioned information is for outline only, and its intended purpose is not to disclose copyrighted information from OSHA, NFPA or ASTM. The sole intention is to guide end user in determining hazard and guiding to proper governing body for purchase and viewing of materials.