

Specifically Arc-Rated Gloves ASTM F2675

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NFPA 70E / CSA Z462 Two Level Arc-Rated Arc Flash PPE Specification



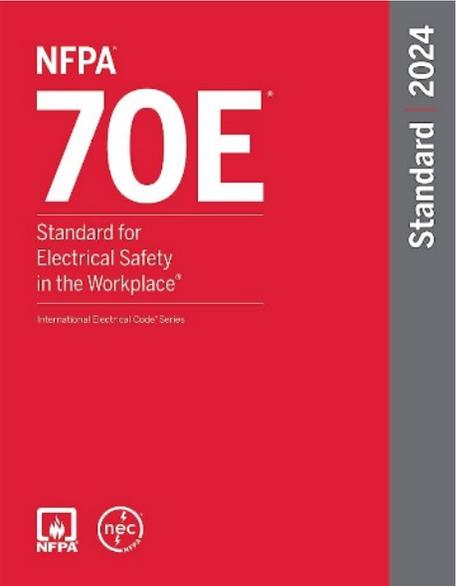
CSA Z462:24
National Standard of Canada



Workplace electrical safety




Arc-Rating Level #	Arc Flash PPE Minimum Requirements
<p>Level 1</p> <p>8.0-12.0 cal/cm²</p> <p>ATPV or E_{BT}</p> 	<p>Body: Everyday/task wear long sleeved shirt/pant or coverall (with storage bag). 100% natural fibre clothing to be worn underneath.</p> <p>Emergency Rescue: "Escape Strap" vest available for use.</p> <p>Head & Face: CSA approved eyewear, clear lens. Arc-rated balaclava and arc-rated face shield (with storage bag) with true colour grey lens, CSA approved Class E hard hat and LED lamp.</p> <p>Hearing: CSA approved minimum ear canal insert ear plugs.</p> <p>Hands: Appropriate Class # of rubber insulating gloves with protectors (with storage bag sized to the Class #).</p> <p>Footwear: CSA approved Ohm rated leather footwear.</p> <p>Note: Rubber insulating gloves with protectors provide arc flash protection for the hands. Where there is no electric shock hazard exposure heavy duty leather work gloves or specifically tested arc-rated gloves provide arc flash protection for the hands.</p>
<p>Level 2</p> <p>Minimum 75, 100 or 140 cal/cm²</p> <p>ATPV</p> 	<p>Body: Arc flash suit: bib overalls, and jacket with "Escape Strap." 100% natural fibre clothing to be worn underneath. Manufacturer's storage bag.</p> <p>Emergency Rescue: "Escape strap" can be used.</p> <p>Head & Face: CSA approved eyewear, clear lens. Arc flash suit hood with true colour grey lens, CSA approved Class E hard hat, arc flash suit hood ventilation system and LED lamp.</p> <p>Hearing: CSA approved minimum ear canal insert ear plugs.</p> <p>Hands: Appropriate Class # of rubber insulating gloves with protectors (with storage bag sized to Class #).</p> <p>Footwear: CSA approved Ohm rated leather footwear.</p> <p>Note: Rubber insulating gloves with protectors provide arc flash protection for the hands. Where there is no electric shock hazard exposure heavy duty leather work gloves or specifically tested arc-rated gloves provide arc flash protection for the hands.</p> <p>Arc flash suits are available with an ATPV of up to 140.0 cal/cm² and can be procured for use.</p>



NFPA
70E
Standard for
Electrical Safety
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International Electrical Code Series

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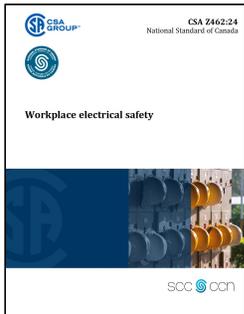
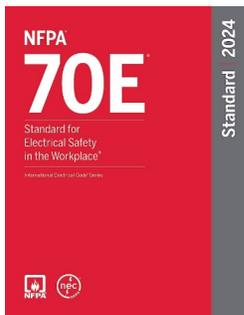
Specification

- **Hands:**
- Rubber insulating gloves with protectors provide arc flash protection for hands.
- Leather work gloves provide arc flash protection for hands.
- Historical arc-rated glove old style “oven” mitt.
- RIGs with LPs informal arc testing (Salisbury), Class 0, 30-40 cal/cm² ATPV. As Class # goes up anticipated ATPV goes up Class 4, approximately 80-90 cal/cm² of protection predicted.
- Now vendors bringing out arc-rated gloves to new ASTM Standard, BUT really no application, most work tasks require rubber insulating gloves with protectors.
- New specifically arc-rated gloves, **ASTM F2675**.
- **Protectors for rubber insulating gloves ASTM F2675 and ASTM F3258.**



Specification - Specifically Arc-Rated Gloves

- Buyer beware specifically arc-rated gloves tested to ASTM F2675.



Which pairs of gloves is NOT arc-rated with an ATPV?

Specification - Specifically Arc-Rated Gloves

- New Standard with respect to testing gloves to be arc-rated with an ATPV.
- **ASTM F2675** Standard Test Method for Determining Arc Ratings of Hand Protective Products Developed and Used for Electrical Arc Flash Protection.
- Buyer beware not all gloves will be arc-rated.
- For rubber insulating gloves. The rubber insulating gloves are specified based on ASTM D120 Standard Specification for Rubber Insulating Gloves.



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- For “leather” protectors must comply with ASTM F696 Standard Specification for Leather Protectors for Rubber Insulating Gloves or Mittens.
- For arc-rating a protector glove for rubber insulating gloves the protector gloves must be tested to ASTM F2675, but the protector must also comply with ASTM F3258 Standard Specification for Protectors for Rubber Insulating Gloves Meeting Specific Performance Requirements.





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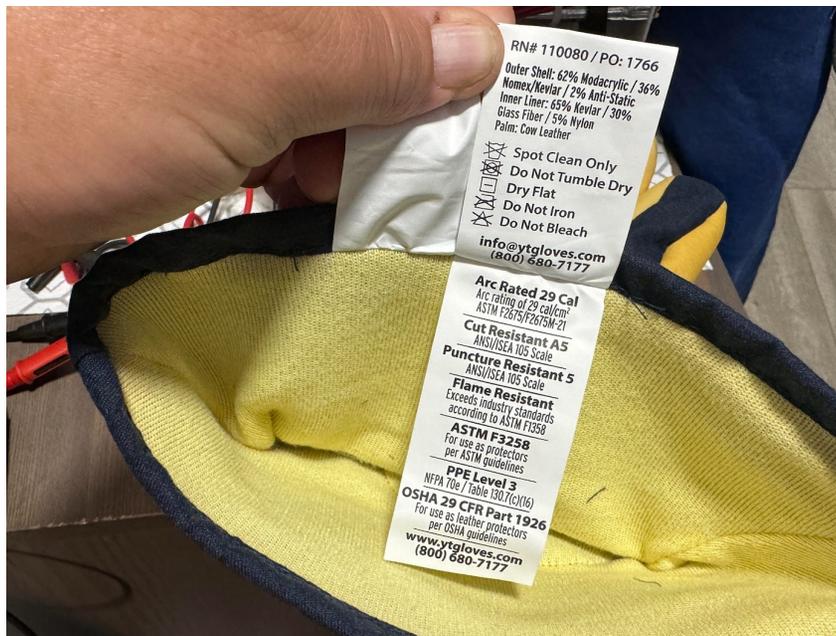
- New Standard with respect to testing gloves to be arc-rated with an ATPV. Arc-rated protectors for rubber insulating gloves.





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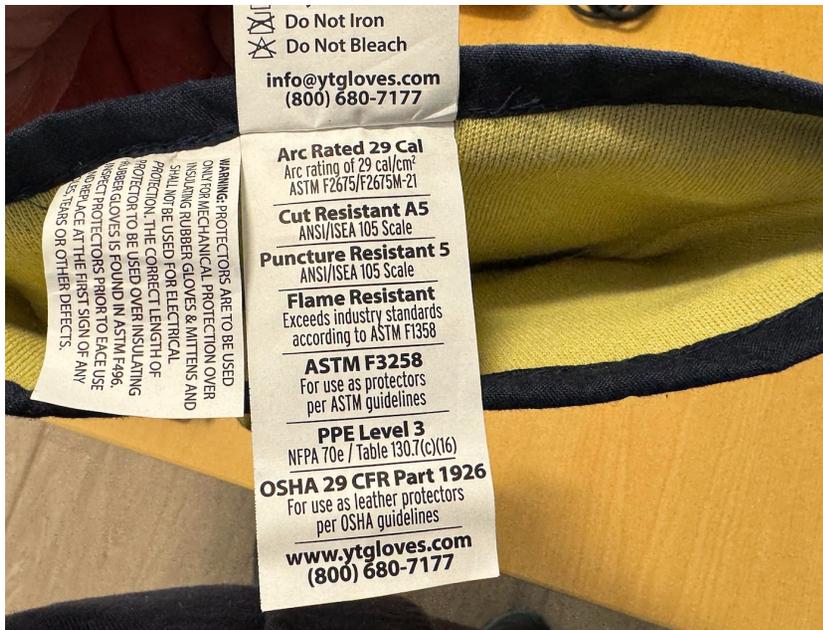
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- New Standard with respect to testing gloves to be arc-rated with an ATPV. Arc-rated protectors for rubber insulating gloves.



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