

## NFPA 70E Requirements

The National Fire Protection Association (NFPA) published the latest edition of the NFPA 70E Standard (Standard for Electrical Safety Requirements for Employee Workplaces) in 2009. The revised version requires employees to wear flame resistant (FR) protective clothing that meets the requirements of ASTM F1506 wherever there is possible exposure to an electric arc flash. It requires employers to perform a flash hazard analysis to determine the flash protection boundary distance. The standard is designed to protect employees working inside these flash protection boundaries by requiring protective clothing for corresponding Hazard/Risk Category that has an arc thermal performance value (ATPV) of at least the value listed in the “Protective Clothing Characteristics” section of the standard (see table above). The vast majority of major companies in the U.S. have some employees who work on or near energized electrical conductors or circuit parts. In addition, the Department of Energy has required that federal and contractor employees comply with NFPA 70E and the 2002 National Electric Code (NEC) references the NFPA 70E standard. Finally, OSHA considers the NFPA 70E standard a “recognized industry practice.”

**When incident energy exceeds 40 cal/cm<sup>2</sup> at the working distance, greater emphasis than normal should be placed on de-energizing before working on or near the exposed electrical conductors or circuit parts.**



From Clothing to Insulated Tools to ARC Suppression Blankets we have everything you need to meet the NFPA 70E Standard and OSHA 29 1910.269 Regulations. The NFPA 70E Standard and OSHA Regulations have been established to protect workers from electrical shock and arc flash hazards. For example, the NFPA 70E Standard specifies areas in which arc flash protection is required for workers. All personnel within the defined boundaries must wear specified protective equipment, even on circuits as low as 50 volts. The NFPA 70E Standard and OSHA Regulations **MUST** be met, and OEL has made it easy and affordable for you to meet and exceed them.

**OEL is Protecting the American Worker**

8 - 55 cal/cm<sup>2</sup>

### OEL's ARC Flash Protection Hoods

All OEL's hoods are made from arc flash resistant Indura Ultra Soft® material sewn with Nomex® thread.

All lenses are replaceable and made from Arc rated 10" x 20" material with **anti-fogging coatings**.

Hoods are designed to accommodate belt-mounted compact air systems.

One size fits all.

Hard hat is included.



Cat. No.	Description
AFW080	8 cal/cm <sup>2</sup> , orange, Indura Ultra Soft VLT = 50%
AFW017	12 cal/cm <sup>2</sup> , orange, Indura Ultra Soft VLT = 50%
AFW018	20 cal/cm <sup>2</sup> , orange, Indura Ultra Soft VLT = 35%
AFW085	25 cal/cm <sup>2</sup> , green, Indura Ultra Soft VLT = 35%
AFW020	31 cal/cm <sup>2</sup> , green, Indura Ultra Soft VLT = 35%
AFW019	40 cal/cm <sup>2</sup> , blue, Indura Ultra Soft VLT = 35%
AFW016	55 cal/cm <sup>2</sup> , blue, Indura Ultra Soft VLT = 26%



**\*IMPORTANT: NFPA 70E does not have a Hazard Risk Category above 40 cal/cm<sup>2</sup>. Working on levels above 40 cal/cm<sup>2</sup> should be avoided because of the blast hazards caused by arc flash.**

All ARC Flash Wear hoods are resistant to fogging.