ASTM F2675 / F2675M:2019



X cal/cm²

Standard Test Method for Determining Arc Ratings of Hand Protective Products Developed and Used for Electrical Arc Flash Protection.

DEFINITION AND REQUIREMENTS

This test method is used to determine the arc rating of hand protective products in the form of gloves, glove materials, glove material systems, or other protective products designed to fit on the hand and specifically intended for electric arc flash protection use as protective accessories for workers exposed to electric arcs. The arc rating is determined in the test with an arc that has a heat flux value of 2100 kW/m2 (50 cal/cm²/s).

This test method will determine the arc rating of hand protective products made of materials that meet the following requirements for flame resistance: less than 150 mm (6 in.) char length, less than 2s after flame and no melt and drip when tested in accordance with Test Method D6413, receive a reported 50% probability of ignition of a material or flammable under layer (see definition of ignition 50) by this method, or that have been evaluated and pass the ignition withstand requirements of this test method.

It is the intent of this test method to be used for hand protective products that are flame resistant or that have an adequate flame resistance for the required hazard. Non-flame resistant hand protective products may be used as under layers in multiple-layer systems or tested for ignition probability or ignition withstand.

This test method is designed to provide information for gloves used for electric arc protection only.

PPE Category	Minimum Arc Rating(cal/cm ²)
1	4
2	8
3	25
4	40

NOTE: Arc Flash PPE category according to standard NFPA70E Edition 2018 Table 130.7 (C) (16) - Personal Protective Equipment (PPE)