



# Scotch<sup>®</sup> 69

## Glass Cloth Electrical Tape

### Data Sheet

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#### 1. Product Description

Scotch 69 Glass Cloth Electrical Tape is a white glass cloth tape with a high-temperature thermosetting silicone adhesive. It has been designed for use in 600-volt dry location applications requiring both high mechanical strength and resistance to high temperatures. The thermosetting adhesive provides an increased bond, once applied in areas of high ambient temperatures. 69 Tape has a class “H” 180°C (356°F) temperature rating.

Meets requirements of:

- Military Specification No. MIL-I-19166C
- UL Recognized Component listing for 200°C (Guide OANZ2, File E17.85)
- CSA Accepted Component 180°C file LR93411

#### 2. Applications

- Insulating electric and induction type furnace power supply leads
- Securing high-temperature, non-PSA insulations (such as asbestos and glass) in high-temperature areas
- Securing Scotch 77 Fire Retardant Electric Arc Proofing Tape
- Replacing 27 Tape in locations where a higher-temperature tape is needed
- Splicing wire that is rated 150C (302°F), 180°C (356°F), SF and SFF
- Reinsulating and repairing coils on mining machines
- Reinforcing insulation in electrical installations where heavy loads cause high heat and breakdown of original insulation (e.g. motor control exciter feeds)
- Splicing silicone-covered glass wire where splices require more abrasion resistance and mechanical strength than can be provided by silicone tapes
- Insulating Class “H” dry-type transformer leads
- Insulating splices made on SA type wire in heat treat areas.

#### 3. Typical Data/Physical Properties

Test Method	Typical Value*
<b>Physical Properties</b>	
Thickness ASTM D-1000	7.5 mils (0,19mm)
Tensile Strength ASTM D-1000	150 lbs/in (26 kN/m)
Elongation ASTM D-1000	5% at break
Adhesion ASTM D-1000	40 oz/in (0.44 kN/m)
<b>Electrical Properties</b>	
Dielectric Breakdown ASTM D-1000	3500V
Insulation Resistance ASTM D-1000	250 megohms @ 96% RH
Electrolytic Corrosion Factor 3M Test Method	1.0

\*These are typical values and should not be used for specification purposes at room temperature.

## 4. Shelf Life

Scotch™ 69 Glass Cloth Electrical Tape has a 3-year shelf life from date of manufacture when stored under the following recommended storage conditions. Store behind present stock in a clean dry place at a temperature of 70°F and 40-50% relative humidity. Good stock rotation is recommended.

## 5. Availability

69 glass cloth electrical tape is available from your local authorized 3M electrical distributor in the following sizes:

1/2 in. x 66 ft. (12,7 mm x 19,8m)

3/4 in. x 66 ft. (19mm x 19.8m) rolls

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