

▶ **SILICONE RUBBER HEATERS**

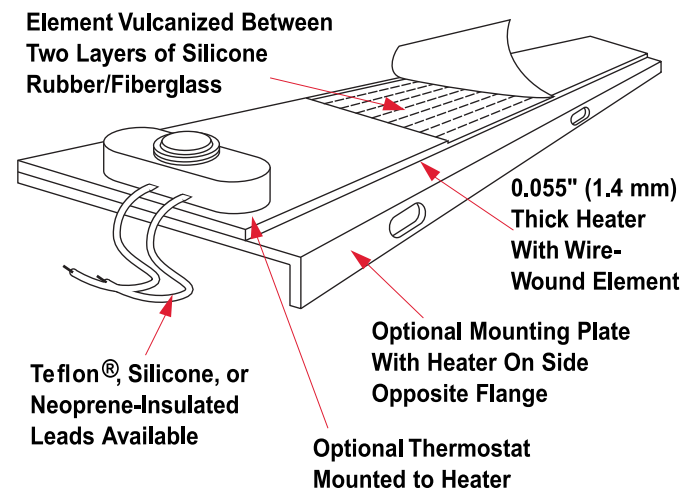
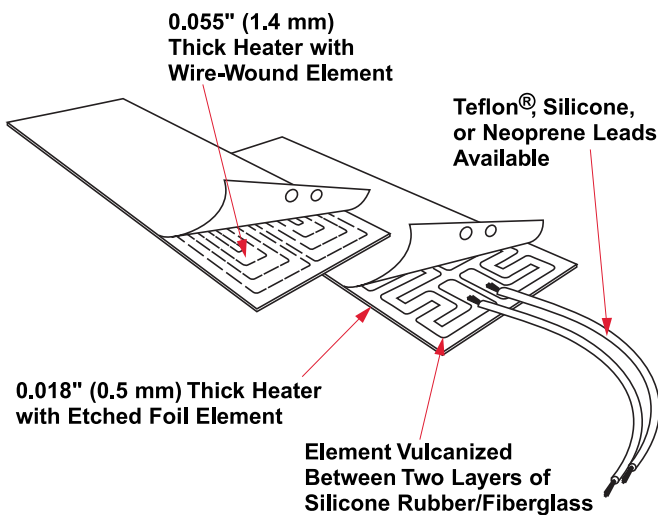
Silicone Rubber heaters have wire-wound or etched foil heating circuits laminated between thin layers of fiberglass-reinforced, high temperature insulation, silicone rubber. The thin profile transfers heat quickly because the actual resistance element is so close to the heated part.

Silicone Rubber heaters are resistant to temperature extremes, moisture, weathering, radiation, fungus and chemical attack. They also have a high dielectric strength, flexibility, provide a cost effective heating solution and are easily bonded or cemented to heat sinks or other parts to be heated.

Silicone Rubber Heaters can be virtually any size, shape and configuration and are the ideal solution for many low and medium temperature applications which do not conform to standard heater shapes, sizes and dimensions. They can also be customized in a wide variety of shapes, contours, three-dimensional patterns and heat concentrations to fit the requirements of any specific application.



▶ **FEATURES AND COMPONENTS**



▶ **TEMPERATURE SENSORS**

Thermocouples – Can be mounted anywhere on the heater

RTD's – Most accurate and stable

Thermistors – Used with in a limited temperature range or a specific temperature

Thermal Fuses/cutoffs – High limit protection

► FLEXIBLE HEATERS - FEATURES & BENEFITS

Resistant to:

- Vibration
- Moisture Deterioration
- Thermal shock
- Most Chemicals

Advantages:

- Dimensional Stability
- Economical
- Excellent Dielectric Properties
- Superior Heat Transfer
- Uniform Heat Output

Can be developed for positioning on complex surfaces

General Capabilities

Operating Temperature Range	-80F to 500F
Standard Thickness	
Wire Wound	0.055 inch (1.4 mm)
Etched Foil	0.018 inch (0.5 mm)
Thickness Range	0.018 inch to 0.070 inch (0.46 mm to 1.78 mm)
Maximum Width and Length	
Wire Wound	36 x 120 inches (915 mm x 3050 mm)
Etched Foil	20 x 30 inches (510 mm x 760 mm)
Maximum Operating Voltage	
Wire Wound	600 VAC
Etched Foil	480 VAC
Watt Densities	Up to 80W/in ²
Standard Maximum Resistance Density	
Wire Wound	55 ohms/in ²
Etched Foil	75 ohms/in ²
Resistance Tolerance	+/- 10%
Materials	Polyimide, Silicone Rubber
Leads	Varies according to heater wattage and voltage
Component Approvals	UL, CSA

► THERMOSTATS

Adjustable Thermostats:

- Encapsulated in a rubber overmold
- Available Ranges
 - 70-190°F
 - 100-190°F
 - 50-425°F
 - 50-160°F
- Rated for 1600W max

Snap Action or Creep Thermostat:

- Preset mi-metal
- Available in 10° F increments up to 300°F
- 125V/15A, 250V, 10A

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