

SILICONE RUBBER HEATERS

Rugged, Thin, Lightweight and Flexible...Limited Only By Your Imagination

Rugged, yet thin, lightweight, and flexible ... the use of Watlow silicone rubber heaters is limited only by your imagination. With these heaters, you can put the heat where it's needed and, in the process, improve heat transfer, speed warm-ups and decrease wattage requirements.

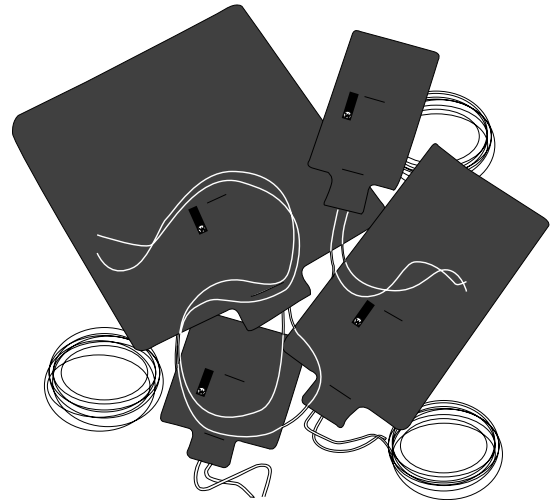
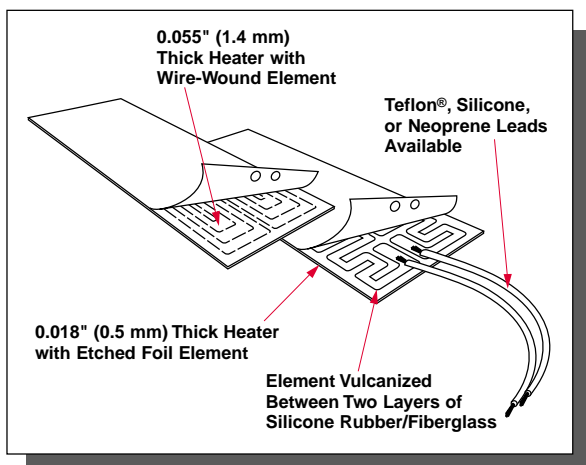
Fiberglass-reinforced silicone rubber gives your heater dimensional stability without sacrificing flexibility. Because very little material separates the element from the part, heat transfer is rapid and efficient.

Performance Capabilities

- Operating temperatures to 500°F (260°C)
- Watt densities to 80 W/in² (12.5 W/cm²) dependent upon application
- 0.055 inch (1.4 mm) thick with a wire-wound element; only 0.018 inch (0.5 mm) with an etched foil element

Applications

- Freeze protection and condensation prevention for many types of instrumentation and equipment
- Medical equipment such as blood analyzers, test tube heaters, etc.
- Computer peripherals such as laser printers
- Curing of plastic laminates
- Photo processing equipment



Features and Benefits

Designed in the exact shape and size you need

- Conforms to your equipment

More than 80 designs available immediately from stock

- Reduces down time

UR®, cUR®, and VDE recognitions

- Available on many designs

Moisture and chemical-resistant silicone rubber material

- Provides longer heater life

Vulcanizing adhesives or fasteners available

- Heaters bond easily to your part



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S I L I C O N E R U B B E R H E A T E R S

Standard Silicone Rubber Specifications

Maximum width x maximum length:

- Wire-wound: 36 x 120 inches (915 mm x 3050 mm)
- Etched foil: 20 x 30 inches (510 mm x 760 mm)

Thickness (standard):

- Wire-wound: 0.055 inch (1.4 mm)
- Etched foil: 0.018 inch (0.5 mm)

Weight (standard):

- Wire-wound: 8 oz./ft² (0.24 g/cm²)
- Etched foil: 3 oz./ft² (0.09 g/cm²)

Maximum operating temperature:

- 500°F (260°C)

Maximum temperature for UL® Recognition:

- 428°F (220°C)

Minimum ambient temperature:

- -80°F (-62°C)

Maximum voltage:

- 600V~(ac)

Maximum wattage:

- Consult watt density graph on page 170 of the Watlow Heater's catalog.

Lead size:

- Sized to load

Lead length:

- 12 + 1½ - ½ inches (305 mm + 40 mm - 15 mm)

Wattage tolerance:

- Wire: ± 5 percent
- Foil: + 5 percent -10 percent

Dimensional tolerances:

- 0 to 6 inches (0 to 150 mm): ±¹/₁₆ inch (1.6 mm)
- 6 to 18 inches (150 to 455 mm): ±¹/₈ inch (3.2 mm)
- 18 to 36 inches (455 mm to 915 mm): ±³/₁₆ (4.8 mm)
- Over 36 inches (915 mm): ± 1 percent

How to Order

To order stock silicone rubber heaters, specify the Watlow code number (from the Watlow Heater's catalog) and the quantity. To order a heater with options, specify the code number, quantity and options desired (see page 165 in the Watlow Heater's catalog). Consult Watlow before combining options.

Made-to-Order: Consult factory

For made-to-order units, Watlow will need the following application information from you:

- Size (dimensions)
- Voltage
- Wattage/watt density
- Operating temperature
- Options (leads, thermostats, attachment techniques, etc.)
- Will heater be subject to flexing?
- Element type, if you have a preference
- Agency approvals
- Quantity

Availability

- Stock: Same day shipment of orders received by 11:00 a.m. CST.
- Stock with Options: Shipment in five working days or less. Not all options are available with stock heaters.