



EPSH Series Silicone Heaters

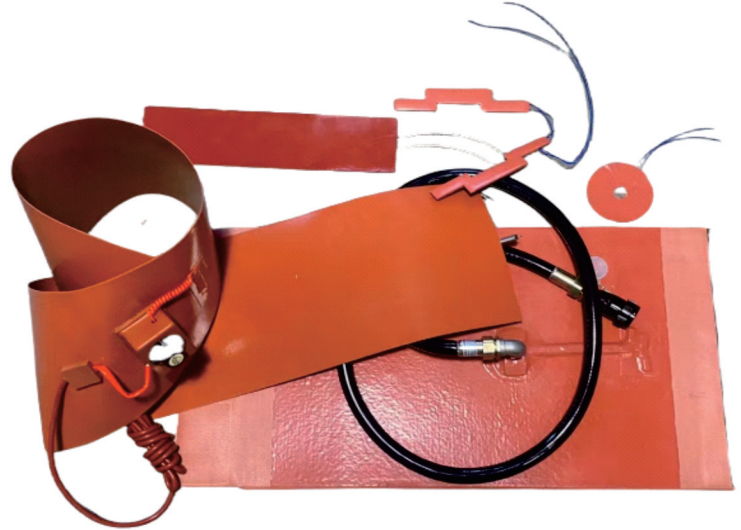
Product Application:

EPSH silicone heaters can effectively ensure the safe transport of conveyed media and the status of stored media.

The structure and power can be customized based on the type of the heated device and media.

EPSH silicone heaters can provide output power of up to 9000 W and withstand a maximum long-term temperature of 250°C.

The product can be designed with an explosion-proof structure and can be applied in explosive gas environments based on explosion-proof certification guidelines.



1. Chemical Industry

- ◆ Pipeline Insulation Heating: Used for heating and insulating liquid or gas transport pipelines in chemical production to prevent media from solidifying or temperature reduction.
- ◆ Tank Heating: Suitable for heating various chemical storage tanks, ensuring that the substances inside remain stable in flowability or chemical activity.

2. Mechanical Equipment

- ◆ Unit Modules: They should be locally heated in unit modules to achieve the required normal operating state.
- ◆ Equipment Temperature Maintenance: Widely used for local heating and temperature maintenance of equipment such as hydraulic cylinders and resin molding machines.

3. Electronics Industry

- ◆ Semiconductor Equipment: Used for heating steel cylinders, gas tanks, pipelines, and valves in semiconductor manufacturing equipment to ensure stable temperatures of gases or liquids during production.

4. Energy and Environment

- ◆ Oil Field Equipment: Preventing media in pipelines from waxing or clogging due to low temperatures during the transport of crude oil or natural gas in oil fields.
- ◆ Energy Storage: Many viscous media are often stored in barrels or containers, such as greases, paraffin, and honey. These media are relatively thick at room temperature, making it difficult to flow during dispensing, dripping, extraction, spraying, or stirring operations.

5. Food and Pharmaceutical Industry

- ◆ Food Processing: Used for maintaining or heating liquid raw materials and sauces in food production equipment.
- ◆ Pharmaceutical Equipment: Heating the delivery pipelines and containers of medicinal liquids to ensure that drug production meets process requirements.

6. Laboratories and Research Institutions

- ◆ Experimental Devices: Providing constant temperature heating for specific devices or instruments during experiments, such as test tubes and reaction vessels.
- ◆ Temperature Control Systems: Used for precise heating of sensitive equipment or materials during R&D testing.

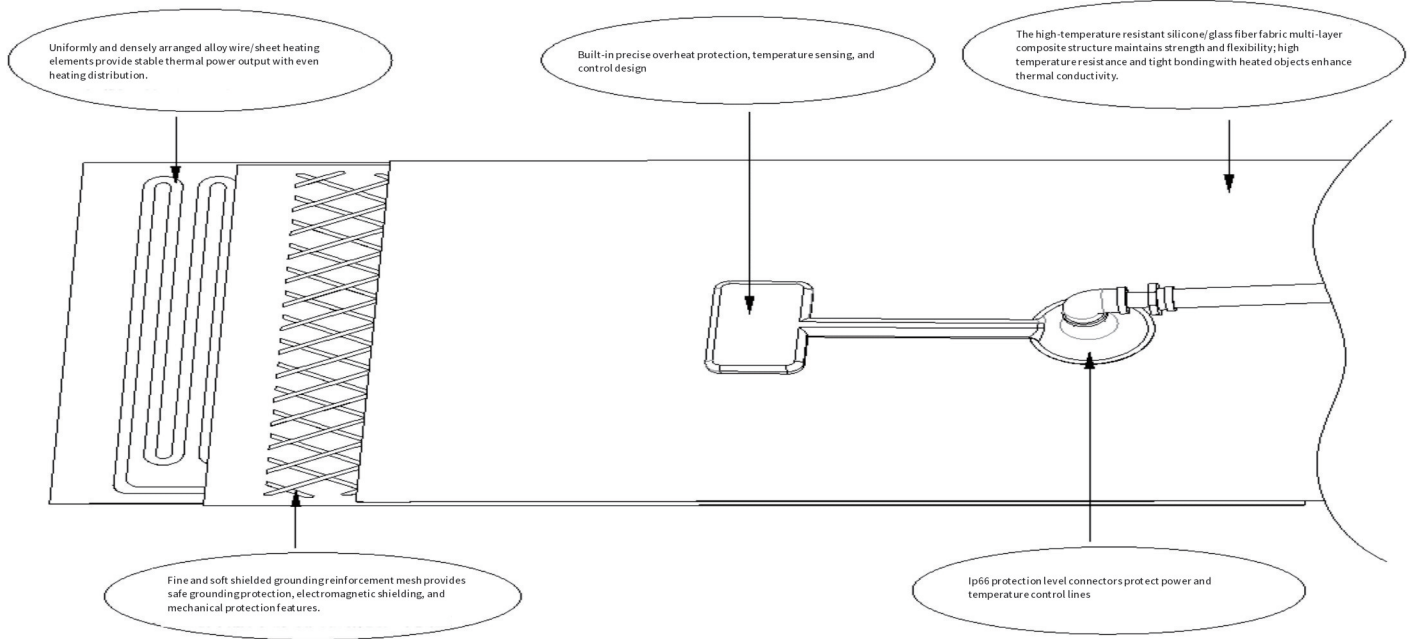


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Typical Product Structure:



Product Categories:



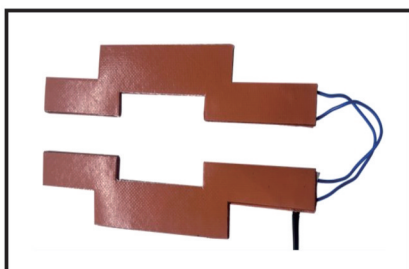
Flat Silicone Heater



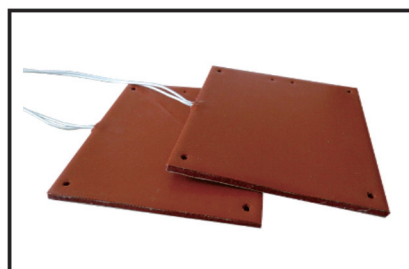
Tank Silicone Heater



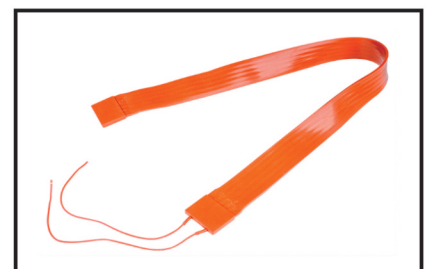
Barrel Silicone Heater



Custom-Shaped Silicone Heater



Heating and Insulation Silicone Heater



Band Silicone Heater



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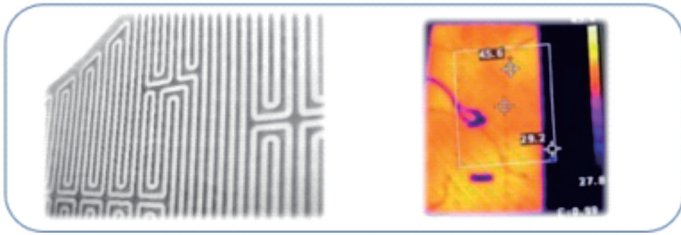




Product Features:

- ◆ The heating elements inside the EPSH silicone heater provide uniform surface temperature maintenance, with a large heating area and even distribution.
- ◆ Insulation materials are made of silicone rubber glass fiber fabric, which has high temperature resistance and waterproof properties, reinforced with a glass fiber woven fabric to meet temperature resistance requirements while providing excellent tensile strength.
- ◆ To enhance the safety and reliability of the product, an optional built-in grounding explosion-proof mesh can be provided for effective circuit grounding protection.
- ◆ The EPSH model can be equipped with overheat protection elements and PT100 temperature detection elements as needed.

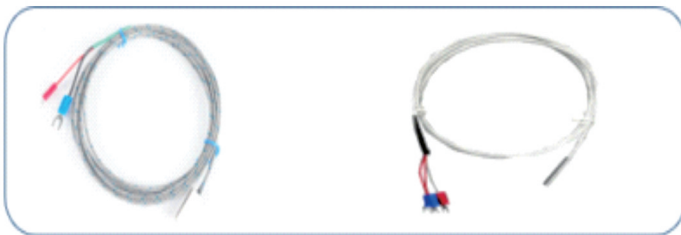
- ◆ EPSH heaters can be customized based on the shape and type of the user's products.
- ◆ The EPSH product features a lightweight, integrated design that offers flexibility not achievable with traditional metal heaters, making installation easy and durable, with a long service life.
- ◆ Compatible with aviation power connectors, waterproof plugs, and optional temperature controllers.
- ◆ The silicone rubber material effectively resists water and moisture, with an insulation resistance greater than 500 MΩ, and withstands AC voltage up to 2500V.
- ◆ The power input cold line can be matched with high-temperature silicone power cables, fluoroplastic power cables, or mica glass fiber power cables.



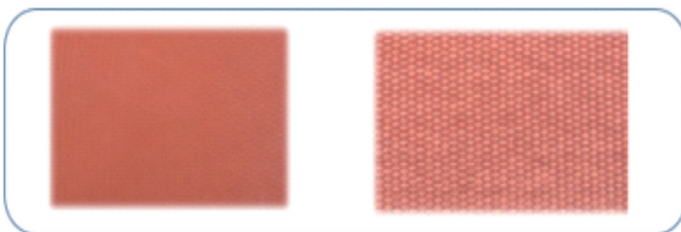
Etched metal heating films serve as heating elements, enhancing the product's reliability, repeatability, and temperature uniformity.



The overheat protection switch features high sensitivity and safe, reliable temperature control, with national certifications such as CCC, VDE, and UL.



Pt100 has precise temperature detection capabilities and can be configured for two-wire or three-wire channels.



The silicone fabric has excellent insulation properties, is waterproof and moisture-resistant, reinforced with glass fiber woven strands to improve tensile strength, and features glass fiber anti-stick patterns on the heating surface for repeatable disassembly and use.



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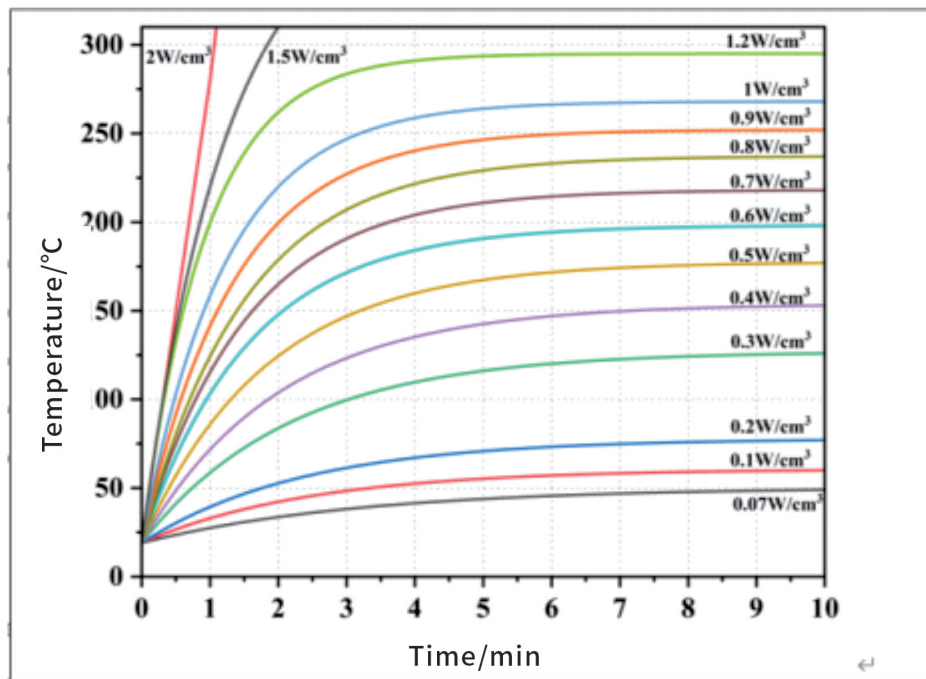


Technical Specifications:

Rated voltage:	110V, 220V, 380V
Maximum exposure temperature:	+250°C
Minimum installation temperature:	-60°C
Protection level:	Ip66
Power Density:	0.06~3 W/CM ²
Dimensions:	Max width: 1150 mm, max: length 2350 mm
Maximum holding temperature:	180°C

Power Density:

In various applications, the most common power density is 0.6 to 0.8 W/cm². Depending on the installation state of the heater and different temperature control methods, there can be significant variations. Please consult customer service before selecting products.



- ◆ Surface temperature when the heater is suspended in still air at 20°C.
- ◆ The heater's temperature will change based on the environment, heating material, shape, etc.

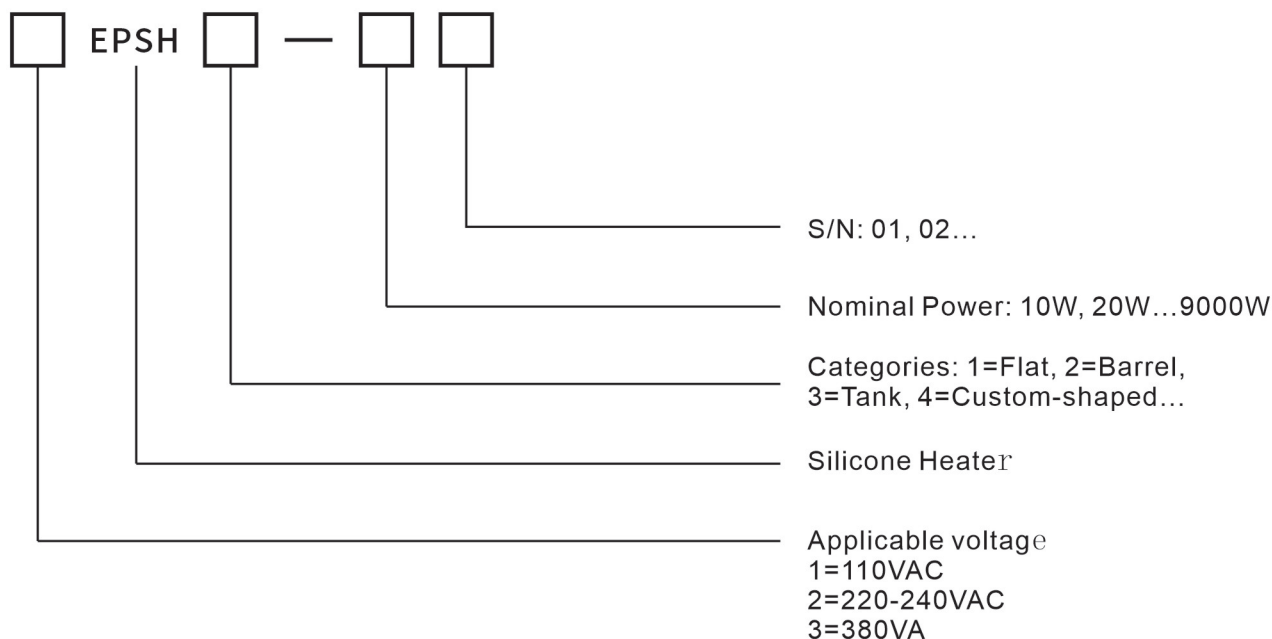


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Model Definition:



Usage Precautions:

- ◆ To prevent fire hazards, do not use this product to heat or insulate flammable or ignitable liquids.
- ◆ To prevent fire hazards, do not use this product in flammable or explosive environments.
- ◆ This product does not have a forced OFF function. When not in use, please unplug the power cord from the power source.
- ◆ When storing this product or disassembling the heater, be sure to cut off the power supply. Wait until the heater's temperature drops to an ideal level before disassembling.
- ◆ Ensure that the liquid level in the stainless steel pot exceeds the installation position of the heater.
- ◆ Be careful not to let liquids inside the container adhere to the heater.
- ◆ Do not pull the wires forcefully. If breaking occurs, it will affect the product's use.
- ◆ To avoid breaking the internal wires of the heater, do not bend or fold this product during installation.
- ◆ To prevent breaking the internal wires of the heater, the surface must be free of scars and should not be struck with hard objects.
- ◆ The surface temperature of the heater will rise during use; to avoid burns, do not touch the heater with bare hands.
- ◆ This product is for indoor use only. Static electricity may be generated when using this product in a dry environment, which is not a performance issue of the product.
- ◆ This product requires a compatible temperature controller for use.



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