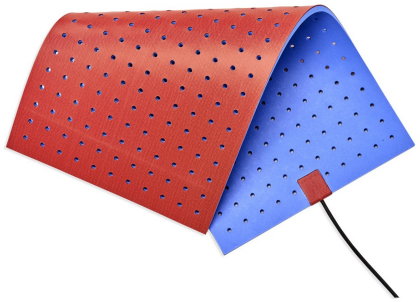
TECHNICAL DATASHEET

Custom silicone heating mat – flexible silicone heater up to 250 °C, self-adhesive option

Item no. DD-KHLM-SILIKON

The custom silicone heating mat delivers even, controllable surface heat to almost any component. Evenly spaced resistance wires are vulcanised between layers of silicone rubber – thin, flexible and tough. Because the mat conforms to pipes, vessels, plates and special shapes, heat goes straight into the object. Outline, cut-outs, fixing, wattage and sensors are designed for your application – from a single piece to series production.



Features

• Wire-wound silicone heating element, 1.1–3.0 mm thin, max. 940 × 3000 mm; etched-foil version for series
• Temperature range −60 °C to 250 °C, self-adhesive version −30 °C to 180 °C
• IP64 or IP65, resistant to moisture, weather, oils, greases, acids, alcohol and acetone
• Fixing self-adhesive, with straps and buckles, eyelets or as a pre-formed pipe sleeve
• Optional PT100/NTC sensor, bimetal thermostat, over-temperature protection or digital controller; Schuko, CEE plug or open cable end
• Options: high-temperature, low-smoke/low-toxicity material, UL/VDE approval

Typical applications

• Battery and energy storage temperature control
• Frost protection for pipes, valves, fittings and instruments
• Heating tanks, hoppers, silos and vessels
• Mould and tool heating, GRP pipe curing
• Anti-condensation in control cabinets, telecom and laboratory equipment
• Industrial catering and process/surface heating

Technical data

Property	Value
Construction	Wire-wound silicone rubber
Temperature range	−60 to 250 °C
Self-adhesive version	−30 to 180 °C
Thickness	1.1–3.0 mm
Max. size	940 x 3000 mm
Protection	IP64 / IP65
Thermal conductivity	0.22 W/m·K
Output / voltage	to application (e.g. 12–400 V)
Steam resistance	up to 130 °C / 2.5 bar

Price on request. All information without guarantee; subject to technical changes and errors. Special sizes, outputs and voltages on request. For commercial/industrial use only.