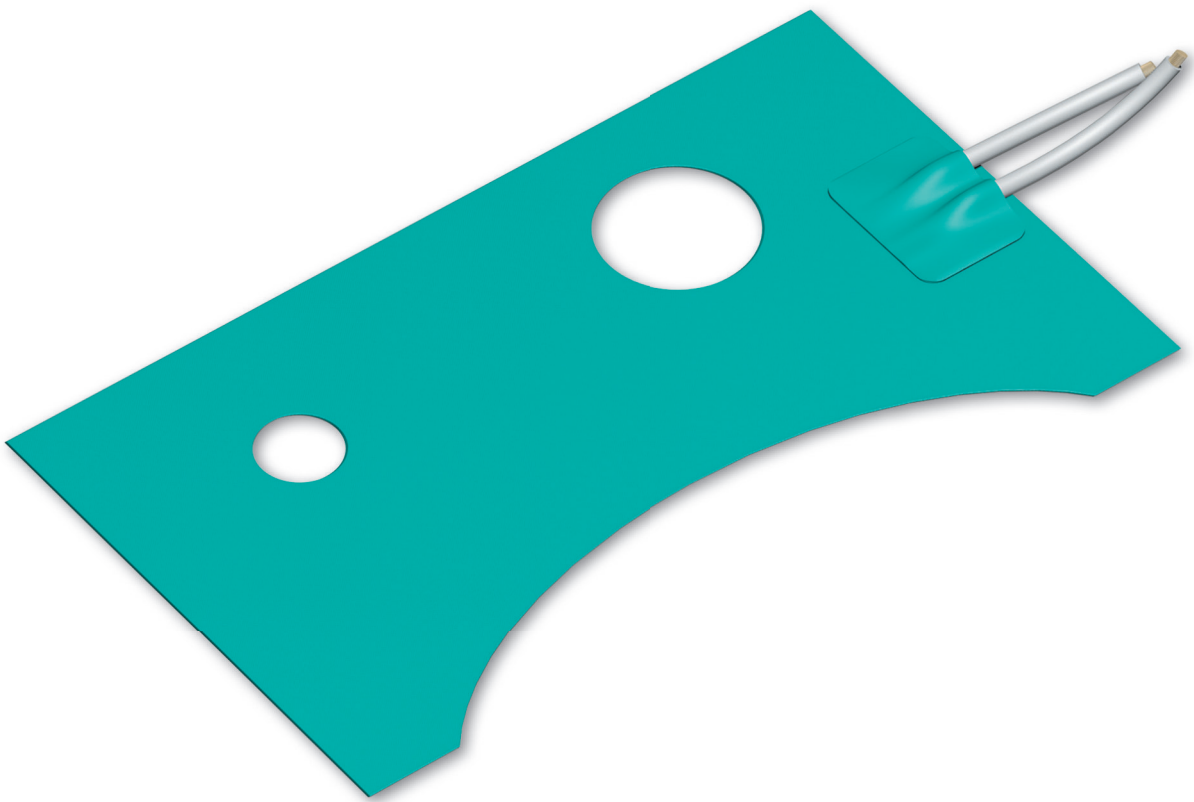


hotform

Silicon Heating Elements



hotform

Silicon Heating Elements

Components and Systems

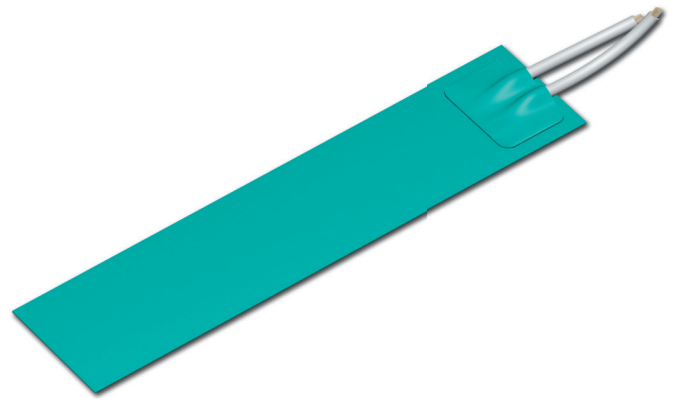
Heating elements, thermal sensors and process control – hotset is your partner for the realization of intelligent product and service solutions in the field of industrial heating systems and heat technology. Based on our international presence and our own production sites, we operate as a component supplier and development service provider for customers in all industries.

We supply you with components for your series production, we implement complex system solutions for you or we take over entire value chains: your requirements, your goals and your wishes always form the centre of our actions. You benefit from flexible production and logistics structures, an interdisciplinary engineering and over four decades of technology experience.

hotset – components. systems. projects.

Facts

- Extremely flexible thanks to latest technology
- Thinner than comparable silicon heating elements
- High watt density and heat transfer
- Homogeneous heat distribution
- Fully customisable
- Flat, cylindrical and concave shapes possible
- Suitable for tight installation situations
- UV-resistant
- Aging-resistant and weather-proof
- Low energy demand through targeted power distribution
- Easy installation
- Complies with numerous standards



Technical Features

| | |
|---------------------------------------|--|
| Size | Max. 1840 x 580 mm, special sizes available on request |
| Tolerance | ± 1 mm |
| Thickness of Material | Min. 0.4 mm, 1 mm Standard |
| Thickness of Material - Tolerances | ± 0.1 mm |
| Bending Radius | 10 mm |
| Voltage | 12 up to 400 V |
| Power density | Up to 5 W/cm ² |
| Wattage Tolerance | ± 10% |
| Temperature Resistance | -60...+200 °C / -76...+392 °F (up to 270 °C / 518 °F on request) |
| Thermal conductivity at +100°C | 1 W/m K |
| High voltage test | 1500V AC |
| Standards | UL (on request) EN 45545 (Maximum classification for fire and smoke) EN 50264 and EN 50306 (for rail vehicles) FDA IP67 |

Options

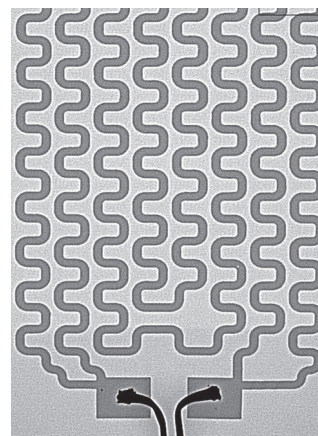
- Direct current
- Power cord
- Temperature sensor
- Security limiter
- Thermostat
- Color selection for bulk orders
- Silicone foam

Connection Leads

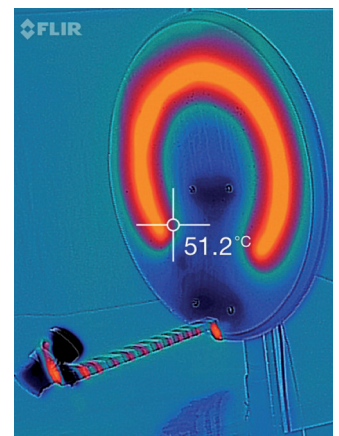
- Silicone leads
-> max. Temp: 180 °C / 356 °F
- FEP leads
-> max. Temp: 200 °C / 392 °F
- PFA leads
-> max. Temp: 260 °C / 500 °F

Fixation method

- Mechanical (springs, velcro)
- Standard adhesive (up to 160 °C / 320 °F)
- Special adhesive (up to 220 °C / 428 °F)
- Adhesive, reusable



Heating conductor in hotform



Thermography –
Homogenic heat distribution

Application fields

- Railways:
Fresh and waste water tanks, access ramps, driver cabin and wagon floor, couplers, switches
- Telecommunications:
Microwave and WiMax antennas
- Laboratories:
Fermenters, bioreactors
- Chemical industries:
Pipelines, drums
- Industry:
Packaging, petfood and pellet production, airconditioning, fridges, steam chambers
- Aeronautic and Military:
Mounting/dismounting engines, anti-icing, anti-condensation, airport's finger floor heating
- Food industry:
Commercial kitchens, catering, chocolate industry
- Automotive:
Component heating, ice protection, special vehicle construction



hotset

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