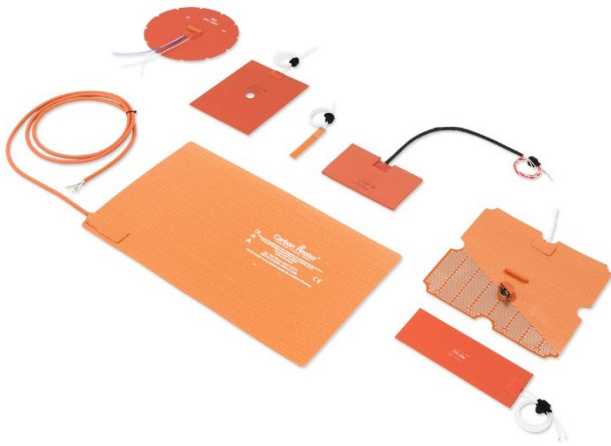


Technical data

Silicone Heating Element

Surface Heating Element

Stand 03.2025



Description

Our silicone heating elements are based on advanced heating technology: An etched foil or wire-wound resistance element is embedded between two layers of silicone and either laminated or vulcanized. This construction provides a robust structure, even heat distribution, and rapid heating.

Due to their high flexibility and resistance to moisture, chemicals, and mechanical influences, they are suitable for demanding applications. Depending on the purpose, two technologies are available: Etched foils allow precise temperature control, while wire windings are ideal for movable or adjustable heating solutions. For heating pipes or cable systems, we also offer spiral versions.

Our heating elements are custom-made to customer specifications and are available in various voltage ranges, power levels, and mounting options.

Rec. Temperature Range:	-60 to 200°C non-self-adhesive -30 to 175°C self-adhesive
max. Temperature Range:	220°C Short-Term
Rec. Surface Load*:	Up to 0.80 W/cm ²
Power Tolerance:	+5 / -10 %
Voltage Range:	Up to 600 Volts
PTC Effect:	Not applicable
Multiple Heating Circuits:	Possible
Shape:	Custom-made
max. Size:	2,500 × 595 mm etched heating foil 3,000 x 940 mm laid heating wire

Geschäftsführung: | Management:

Andrejel Zajac
Miroslav Zajac

Amtsgericht Freiburg | Local Court Freiburg

HRB 602993

Steuernummer: | Tax number:

22060/09227

USt-IdNr: | VAT number:

DE236047387

Zollnummer: | Customs number:

DE6695698

Bankverbindung | Bank connection

Bank: Deutsche Bank
BLZ: | Bank Code: 694 700 24
Konto Nr.: | Account No.: 061 60 60
IBAN: DE02 6947 0024 0061 6060 00
BIC (SWIFT-CODE): DEUTDE33HAN30

Custom Features:

- Integrated temperature sensors for precise regulation
- Safety through temperature limiters
- Insulation layers to minimize heat loss
- Self-adhesive version for easy installation
- Additional features are available based on requirements and application areas

min. Size:	20 × 20 mm etched heating foil 30 x 30 mm laid heating wire
min. Height:	0.8 - 1.5 mm etched heating foil 1.1 - 3.0 mm laid heating wire
Flexibility:	2D
min. Bending Radius:	5.0 mm
IP Protection:	IP65
Shielding / Grounding:	Possible
Integrated Sensor / Fuse:	Possible
Self-Adhesive:	Possible up to 175°C
UL Version:	Available
min. Order Quantity:	From 20 pieces

Contact

Carbon Heater GmbH
Auf Stocken 1
78073 Bad Dürkheim

Telefon: +49 (7726) 37888120

E-Mail: info@carbon-heater.com

Web: www.carbon-heater.com

*Depending on the application, higher surface loads are possible, provided that efficient heat dissipation and fast regulation are ensured.

The information in this table is for guidance only and does not constitute any guarantee claims.

Geschäftsführung: | Management:

Andrejel Zajac
Miroslav Zajac

Amtsgericht Freiburg | Local Court Freiburg

HRB 602993

Steuernummer: | Tax number:

22060/09227

USt-IdNr: | VAT number:

DE236047387

Zollnummer: | Customs number:

DE6695698

Bankverbindung | Bank connection

Bank: Deutsche Bank
BLZ: | Bank Code: 694 700 24
Konto Nr.: | Account No.: 061 60 60
IBAN: DE02 6947 0024 0061 6060 00
BIC (SWIFT-CODE): DEUTDE33HAN30