



BACKER
CALESCO

WIRE WOUND SILICONE HEATERS

Description

Silicone rubber is a rugged, flexible and robust material with excellent temperature properties. This moisture and chemical resistant material is easily bonded or adhered to parts. Using evenly laid out resistance wires, laminated between sheets of silicone ensures high physical strength of the heater, capable of withstanding repeated flexing. Wire wound silicone heaters characterizes thin and lightweight construction, low leakage current, rapid heat up characteristics and exceptional heat transfer.

Technical specification

Max element temp.	230 °C (446 °F)
Min. element temp.	-50 °C (-58 °F)
Dielectric strength at 20°C AS per ASTM KV/mm	21- 23
Thermal conductivity at 100 °C W/(m•K)	0.24
Moisture absorption as per ASTM D-570-63. (24h immersion at 23°C)	0.1 %
Waterproof as per IEC 335-1 sect. 15-16	yes
Constant of dielectricity at 25°C, 50Hz	2.9-3.6
Bending radius, min	10 mm
Max. element width	600 mm
Power density	0.5 W/cm ²
Resistance tolerance	As standard, ±10% of nominal. Tolerance down to ±2% available
Rated voltage	Up to 1000 V AC/DC single or 3 phase
Approvals/Standards	ETL (UL, V0, HB)

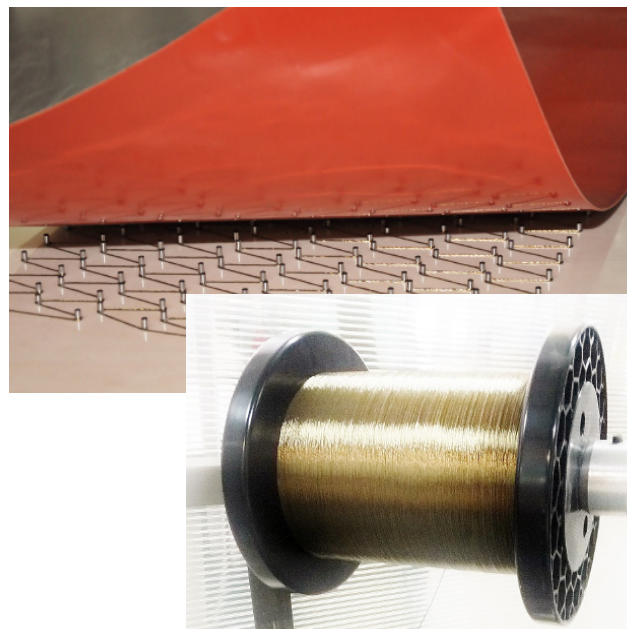
Benefits & Fields of Application

BENEFITS

- Low start-up costs & Small and medium volumes possible
- High flexibility & Suitable to heat flat and irregular surfaces
- Moisture & chemical resistant & Easily bonded or adhered to parts
- Mechanical fixing (tensioners, fasteners) available
- Standard size range up to 610x2000 mm, other sizes on request

FIELDS OF APPLICATION

- Process heat
- Freeze protection
- Condensation prevention
- Composite bonding



Product photo

