



### Applications:

Holroyd supply silicone etched foil heaters for a multitude of applications including medical, industrial catering, battery warming, telecommunications, laboratory equipment, snow melting and anti condensation. The uses for etched foil heaters are extensive as they can suit many applications requiring surface heating up to 230°C. Manufactured to customer specifications they can be made in a wide range of shapes and sizes. Using expertly designed chemically etched foil tracks, these heaters are perfect for applications which require excellent heat distribution and higher power densities.

- **Etched Foil Technology**
- **Precise Even Heating & Heat Distribution**
- **Flexible & Lightweight**
- **Moisture & Chemical Resistance**
- **IP64 or IP65 Protection**
- **Wide Temperature Range –60°C to 230°C**
- **UL & VDE Approval Available**
- **Low Smoke & Low Toxicity Options Available**
- **Full Design & Manufacturing Service**



ISO9001:2015  
FM55895

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# Technical Data



## Construction:

Computer designed chemically etched foil tracks are laminated between sheets of silicone to give precise even heating. Suitable for both low and high volume production, etched foil heaters have low mass allowing for rapid heat up with precise temperature control.

## Characteristics:

Etched foil heaters have good resistance to the following; weather & ageing, fungus & bacteria, acetone, alcohol, formic acid, brake fluid, acetic acid, greases, hydrochloric acid 10%, sulphuric acid 10%, waxes and plasticisers. In addition to this the heaters have adequate gas permeability and good steam resistance up 130°C or 2.5 Bar respectively.

## Health & Safety:

Etched foil heaters are intended for use in industrial electric apparatus. They correspond to BS EN 60335-1:2012. The heater has to be operated in accordance with these standard and regulations and should be installed on an electrical system protected by a residual current circuit breaker.

Technical Data	
Max Dimensions	Width - 595mm Length - 2500mm
Thicknesses	0.8mm - 1.5mm
Temperature Ranges	-60°C - 230°C (Non Adhesive) -30°C - 180°C (Self Adhesive)
Power Rating	Variable (Dependant on application)
Thermal Conductivity	0.22 (Watt/Metre/K)

	Kapton	Silicone Wire Wound	Silicone Etch Foil
Temperature Range	-269°C to 200°C	-60°C to 250°C	-60°C to 230°C
Thickness Range	0.2mm to 0.3mm	1.1mm to 3mm	0.8mm to 1.5mm
Maximum Possible Size	285mm x 550mm	940mm x 3000mm	595mm x 2500mm
UL & VDE Approval Available		✓	✓
Suitable for High Quantity Runs	✓		✓
Low Smoke Low Toxicity Available		✓	✓