

NATIONAL PLASTIC HEATER, SENSOR & CONTROL INC.

TOLL FREE: 1-877-674-9744



Heating for Medical Imaging, Medical Diagnostic Instruments and Analyzers, Heating of Aerospace Instrumentation-Satellites and Spacecraft, Environmental Control of Electronics, Optical Equipment and Computers, Antennas

WIRE WOUND HEATER DATA SHEET

DESCRIPTION

NPH silicone wire wound heaters are suited for a multitude applications requiring surface heating up to 250°C. Manufactured to exact customer specification, these can be produced in a wide range of shapes and sizes. Due to the robust materials and uniquely designed elements, wire wound heaters are ideal for application that require high flexibility and durability.

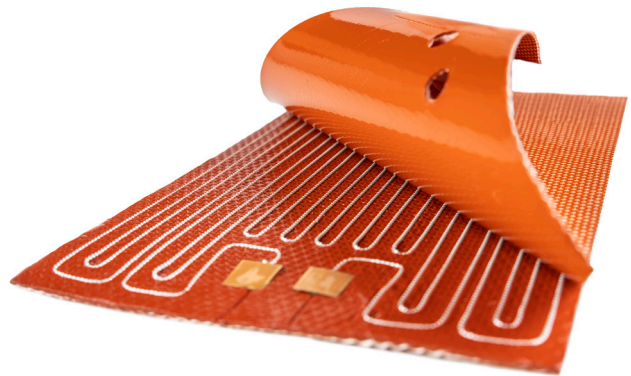
FEATURES & BENEFITS

- Precise even heating
- Flexible & lightweight
- Moisture & chemical resistant
- Wide temperature range
- Adhesive backing optional
- Bespoke design
- Low smoke/low toxicity options available



APPLICATIONS

- Medical imaging
- Medical diagnostic instruments and analyzers
- Aerospace instrumentations i.e. satellites and spacecraft
- Environmental control
- Optical equipment
- Antennas



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WIRE WOUND HEATER DATA SHEET

MAXIMUM DIMENSIONS	Width 940mm Length 3000mm
THICKNESS	1.1mm - 3.0mm
TEMPERATURE RANGES	-60°C - 250°C (Non-adhesive) -30°C - 180°C (Self-adhesive)
THERMAL CONDUCTIVITY	0.22 (Watt/Metre/K)
POWER RATING	Variable (Dependent on application)

CHARACTERISTICS

Wire wound heaters have a good resistance to the following; weather and ageing, fungus and 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 and 2.5 bar respectively.

	KAPTON	SILICONE WIRE WOUND	SILICONE ETCHED FOIL
TEMPERATURE RANGE	-269°C - 200°C	-60°C - 250°C	-60°C - 200°C
THICKNESS RANGE	0.2mm - 0.3mm	1.1mm - 3mm	0.8mm - 1.5mm
MAXIMUM POSSIBLE SIZE	285mm x 550m	940mm x 3000mm	595mm x 2500mm
UL & VDE APPROVAL AVAILABLE		✓	✓
SUITABLE FOR HIGH QUANTITY	✓		✓
LOW SMOKE LOW TOXICITY AVAILABLE		✓	✓

