



## OPEN COIL HEATERS

Custom Open Coil heating elements and assemblies are manufactured by JenTer. Standard inner diameter ranges from 0.039" – 0.50". Open coil heaters consist of resistance wire coiled around an arbor, then stretched to length. Arbor diameter, length, and wire AWG are sized to the customer's wattage and voltage requirement. (600 V maximum)



Open coil heaters are cost effective solutions for high watt density applications.

JenTer coil heaters are manufactured in the U.S.A. Special components specifically requested by customers may be domestically or internationally sourced.

Some distinct advantages are:

- Economical
- Robust
- Custom sized
- Compact
- Long field life
- Low development cost
- Minimal tooling
- Higher wattage density

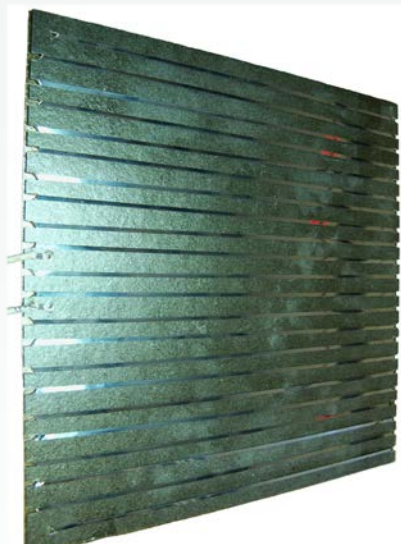
In addition, JenTer Open Coil Heaters are available with custom design modifications or add-on features and sensors.

JenTer typically builds to order, but we regularly meet expedited customer delivery requests.

We also assist customers with demand analysis and determining proper inventory levels to ensure uninterrupted production.

Please contact us to discuss your product specifications & requirements today!

Shown Below - various styles and sizes available from JenTer for open coil heaters built using mica or ceramic insulation.



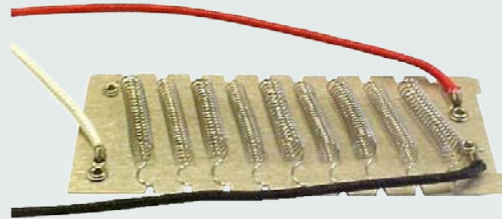
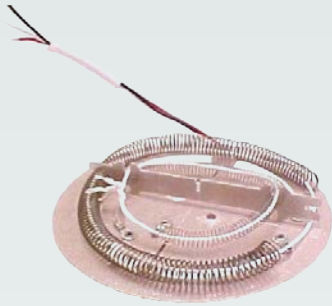
### MICA FORMS:

Type	Safe Operating Temp	Dielectric Strength KV/MM
Muscovite	500-600°C Max	<20
Phlogopite	800-1000°C Max	<20

### CERAMIC FORMS:

Type	Safe Operating Temp	Dielectric Strength V/MIL
Steatite L-3	1000°C Max	230
Steatite L-5	1000°C Max	240
Forsterite	1000°C Max	250
Cordierite	1100°C Max	180
Alumina 96%	1500°C Max	230

Tables Above – Types of Custom Mica Forms and Ceramic Forms available for use with Open Coil Heaters and/or Metal Frames.



THICKNESS

**32 GA (0.008") to 15 GA (0.057")**

**Coil O.D. = (Arbor Size + (2 \* Wire Thickness))**

TYPICAL TEMPERATURE RANGE

**Alloy 650 -1200 °C (2190°F)**

**Alloy 675 - 1125°C (2055°F)**

**Other alloys upon request**

MAX VOLTAGE

**600 Volts**

DIELECTRIX STRENGTH

**Standard: 1210 & 1500 VAC**

**Maximum: 2800 VAC**

WATT DENSITY

**Customer Specific**

WATT TOLERANCE

**± 5 % based off nominal resistance, tighter tolerance available upon request**

LEADWIRE LENGTH

**Custom to requirements**

TYPICAL DIM TOLERANCE

**Less than 12" ± 0.062"**

**Up to 36" ± 0.125"**

**Beyond 36" ± 0.25"**

CUSTOM OPEN COIL HEATERS

**Applications for these products include all the following and many more products:**

- Air Heaters
- Heat Curtains
- Heat Guns
- Toaster Elements
- Heated Dispensing Machines
- Brail Machinery
- Drying Ovens
- ATM/Change Machine Heaters
- Blanket Warming Cabinets
- Heated Surface
- Coil Repairs

PLEASE SPECIFY

- Heater size constraints
- Max operating temperature
- Voltage
- Wattage
- Dielectric requirement
- Direct heater termination
- Lead wire type & gauge (TFE, Silicone, Kapton, etc.)
- Lead strip length
- Lead required connector
- Lead lengths
- Quantity
- Delivery Timing

OPTIONS

- SJO power cords
- Thermostats
- Thermo-cutoffs (TCO)
- External lead termination
- Ceramic or Mica Forms

LENGTH REQUIREMENT

**5/8" – As required**

