

▶ **TUBULAR HEATING ELEMENTS**

Epec offers a wide range of metal sheath tubular heating elements to heat up liquids, gases and solids in numerous applications. Our custom made tubular elements can be manufactured based on your engineering drawings and specifications, or samples to meet with your specific requirements. We currently manufacture 4.5, 5.2, 6.5, 7.2, 8.0, 8.5, 9.5, 12 mm diameter elements for the moderate to high volume order.

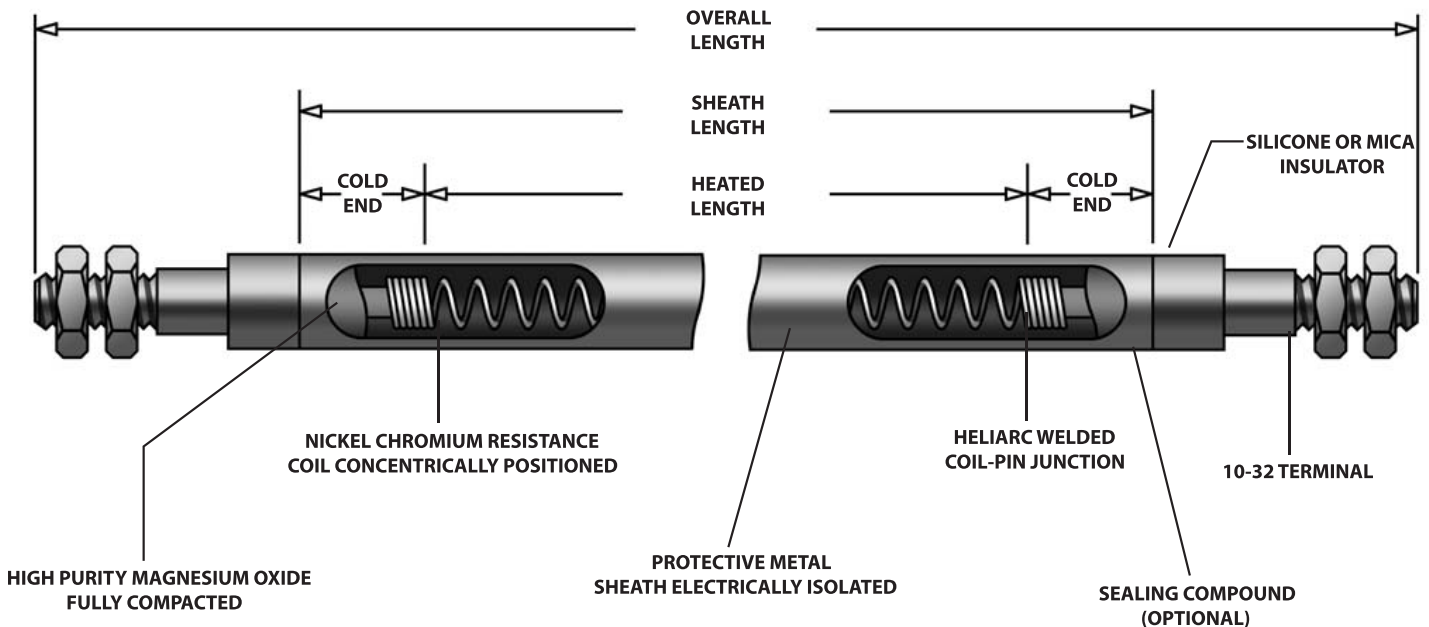
We also offer a comprehensive range of immersion heating elements suitable for storage water heaters, boilers, electric water kettles, or spa heaters, etc.

Our elements combine anti-corrosion sheath materials with advanced manufacturing technology to produce one of the most sought-after water heaters in the industry.

In applications where water or steam are involved, our elements incorporate an advanced structural design that has been proven to improve the element's life expectancy under the harshest conditions such as high temperature and high pressure.



▶ **FEATURES AND COMPONENTS**



► OVERVIEW

Tubular heaters/tubular heating elements can be:

- Up to 170" in length
- 75 - 10,000 Watts
- 120V, 240V and 480V
- Watt density up to 80 W/IN2

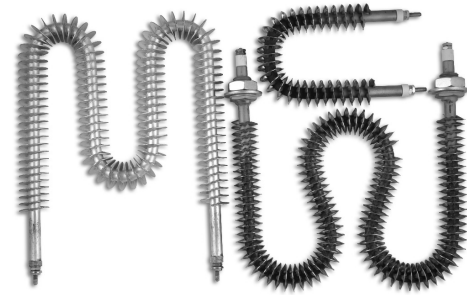


Sheath Material Selection

Material	Max Temp °F	Max. Watt/Sq In	Recommended Applications
Copper	350	60	Water, non-corrosive liquids
Steel	750	20	Oil immersion
Stainless Steel	1200	30	Corrosive liquids, food processing
Incoloy	1600	40	Corrosive liquids, air, clamp on

► KEY FEATURES

- Available in a broad variety of sheaths, diameters, and ratings
- Supplied with electrically insulated sheath
- Provide superior internal electrical insulation and heat conductivity
- Can be Clamped, Immersed, or Cast into metal
- CSA, CSA US and UL approved



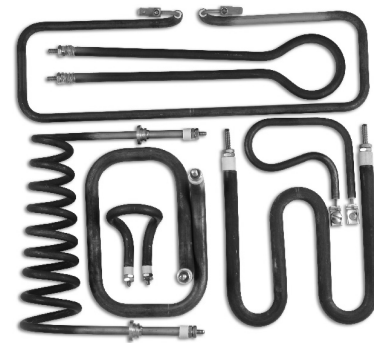
► BENEFITS

- Easy to install
- Configurable to virtually any shape
- Compact size
- Precise and easy control of heat output
- Durable
- Easy to maintain
- Easy to replace thus eliminating long shut-down periods



► FACTORS TO BE CONSIDERED

- Heating element watt density
- Sheath material (corrosive or non corrosive)
 - Temperature of the product
 - Degree of aeration of the application
 - Air velocity within your application
 - Ambient temperature
 - Bend formation
 - Termination requirements



Epec's diverse and growing base of more than 2500 customers represents a wide range of markets including electronics, medical, industrial, communications, access controls, automotive, computing, military, and includes leading OEM's, contract manufacturers, and electronics manufacturing services (EMS) providers.

Contact us today, to experience why Epec has become one of the fastest growing Engineered Electronic Product providers in North America!

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