

## Metal Sheath Elements

Metal sheath elements are a versatile heating solution for solids, liquids, and gases. With a range of sizes, materials, and terminals in stock, Argus Heating can design an element to suit almost any application.

### Applications

Typically used for:

- Heating platens for applications such as printing.
- Constant heat for radiant and process heating.
- High temperature heating for ovens and seal bars.
- Immersion heating for liquids, gases, and chemicals.
- Preventing ice formation in cooling and freezer units.

### Features and benefits

- Custom design and bend formations available to suit your application, to replicate an existing design, or repair a faulty element.
- Heat wire spiral and cold length designed to match application.
- Sheath can be protected from atmospheric corrosion and mechanical abuse.
- Silicone resin or epoxy resin seal options available for moisture proofing the elements.
- Various termination options available including stud, plain pin, quick connect, lead-wire, bulkhead fitting, locator washer etc.
- Available with or without a custom mounting bracket.



Also known as tubular heaters, metal sheath elements are available in a range of sizes, materials and terminals. We can design an element to suit any application.

### Construction

- Sheath can be manufactured in copper, stainless steel, Incoloy®, or titanium.
- The sheath surrounds a helical coil of nickel-chrome resistance wire, centered and tightly compacted by an electrical insulator and heat transfer medium of magnesium oxide.
- Argus Heating typically use Incoloy® for 6.7 mm diameter, titanium for 8 mm diameter, and Incoloy® 800 or Incoloy® 840 for 11 mm diameter.

### Specifications

Product	Water	Oil: Light	Oil: Heavy	Glycol	Caustic Solution
Watts/cm <sup>2</sup>	Up to 12	4	2	5.5	4

Contact Argus Heating for expert advice on the best heating solution for your application.