



Metal Sheath Elements

Argus Heating design, manufacture and distribute metal sheath elements to suit your specific requirements.

We hold a range of sizes, materials and terminals in stock, allowing Argus Heating to design an element to suit almost any application with a relatively short lead time.

Applications

Typically used in:

- Radiant heating
- Water heating
- Immersion heating
- Ovens
- Seal bars
- Load resistors
- Convection heating
- Steam generation
- Process heating
- Platens
- Defrost elements
- Heat transfer oil heating

Features

- 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.

Construction

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

Recommended element output (W/cm²)

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

Please contact Argus Heating to discuss your application and heating needs.