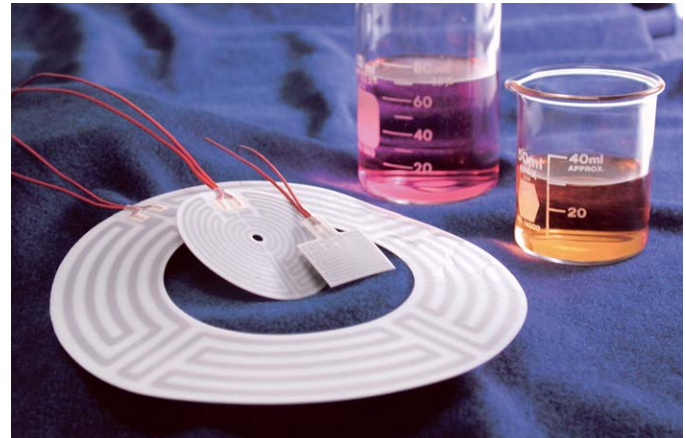


## PTFE Insulated Thermofoil™ Heaters

### Flexible, immersible, chemical resistant

- ◆ Unaffected by acids and bases
- ◆ Sealed construction allows direct immersion in liquids
- ◆ Uniform heating to 260°C (500°F)
- ◆ Thin, flexible etched-foil construction
- ◆ Power ratings to 65 watts per square inch at 50°C (122°F)
- ◆ Available in round, rectangular, and irregular shapes



Featuring etched-foil elements sandwiched between rugged layers of FDA-approved PTFE\*, these heaters stand up to environments that would destroy conventional metal-clad heating elements. Use them in acid baths, medical equipment, commercial appliances—anywhere you need the benefits of clean, non-stick, chemically-inert PTFE.

The flat foil element design provides more area for heat transfer. That means the heaters run cooler for the same amount of wattage, resulting in gentler warming without hot spots and longer heater life. At the same time, warmup is faster because the flexible heater makes intimate contact with the heated materials.

### Application notes

**Chemicals:** Heaters are suitable for most acids, bases, etchants, solvents, and cleaning solutions—almost all industrial chemicals except fluorine and strong fluorinating agents.

**Fluid immersion:** Install vertically so gases cannot collect beneath the heater or Minco can design the pattern to allow holes for air and fluid passage.

**Mounting to surfaces:** Heaters can be clamped in place. Factory bonding is optional.

**Temperature sensors:** Minco can furnish PTFE-clad RTD's or thermocouples in probe-style or flat, flexible configurations. Contact the factory for details.

\* The DuPont tradename for PTFE is Teflon

### Specifications

**Temperature range:** -200 to 260°C (-328 to 500°F).

**Maximum size:** 24"×40" (610 mm × 1016 mm).

**Leadwires:** PTFE insulated per UL 1199/CSA.

**Heater thickness:**

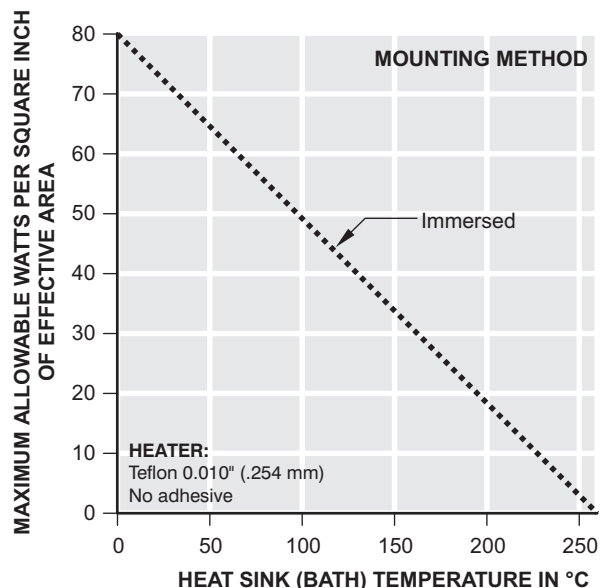
Over element: 0.025" (0.64 mm).

Over leadwire terminations: 0.150" (3.8 mm).

**Dielectric strength:** 1000 VRMS at 60 Hz for 1 minute.

**Weight:** 5 oz. per square foot (0.15 g/cm<sup>2</sup>).

**Maximum watt density:**



**MINCO**  
ISO 9001: 2000

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