

⊕ MINCO FLEXIBLE THERMOFOIL™ HEATERS ⊕

**PUT AN EXACT AMOUNT OF HEAT  
EXACTLY WHERE YOU NEED IT.**



⊕ GET A HEATER ⊕

**FREE!**

⊕ HERE'S YOUR ⊕

**"DAMMIT-SCOTTY-I-NEED-MORE-  
UNIFORM-HEAT-AND-I-NEED-IT-NOW"**

⊕ HEATER ⊕



**FREE!**

## MINCO FLEXIBLE HEATERS

# FLEXIBLE DESIGN DELIVERS RELIABLE, UNIFORM HEAT EXACTLY WHERE YOU NEED IT.



### Polyimide Thermofoil™ Heaters

Thin, flexible heating from -200 to 200°C

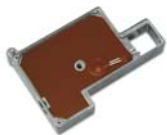
Ideal for space/weight limitations, and exposure to vacuum, oil or chemicals. Design and integration options (SMT, flex leads, connectors, controllers) reduce assembly time and costs.

Minco flexible heaters provide critical control in unlimited applications from medical to military. Consisting of an etched-foil resistive element laminated between layers of flexible insulation, these reliable, low-mass heaters are essential for tight temperature control in tight spaces.

- Flat foil element reliably puts heat where you need it so you can heat up and cool down faster.
- Design flexibility permits complex shapes and profiled heat patterns that reduce assembly time and increase productivity.
- Space and weight savings for portable instruments and precision devices help reduce operating costs.
- Endless custom heater and subassembly possibilities to optimize quality and improve yields.

**Which Minco flexible heater is right for your application?**

**Find out on our online heater configurator at [www.minco.com/heater\\_config](http://www.minco.com/heater_config)**



### Silicone Rubber Thermofoil Heaters

Rugged and flexible up to 235°C

Economical for large heaters in industrial, military, medical applications and more. Factory vulcanization to metal parts without adhesive for superior heat transfer and longer life.



### Thermal-Clear™ Transparent Heaters

Reliable heat to -55°C, without blocking light

Transmits over 80% of visible light spectrum. Faster warm-up time for improved LCD response.



### Mica Thermofoil Heaters

Fast warm-up. Superior uniformity up to 600°C

Extremely high temp capability and fast warm-up for faster processing and cycle time. Greater design flexibility. Can be factory formed for a perfect fit. Clamps directly to heat sinks for exceptional heat transfer.

# MINCO

A critical component of your success™

## GET A FREE MINCO FLEXIBLE HEATER...



Choose your free heater from a variety of options. Begin with an off-the-shelf solution for experimentation and proof-of-concept testing. Then, consider a custom solution. Surprisingly, Minco's custom heaters can oftentimes be more cost-effective than standard models. You'll also receive instructions on how to get started.

## PLUS TWO FREE WHITE PAPERS...



- "Estimating Power Requirements for Etched-Foil Heaters"
- "Prototyping Techniques for Etched-Foil Heaters"

Go to [www.minco.com/freeheater](http://www.minco.com/freeheater) and enter promo code **H1016FH** or call 763.571.3121 to get your free heater and white papers.

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**HEATER**  
**ACT NOW!**