



PRODUCT INFORMATION :

Thermal Systems for the Semiconductor Industry

Birk Manufacturing has supplied Kapton® and silicone heaters to the semiconductor industry for over a decade. These heaters are designed to offer very low out-gassing, provide excellent heat transfer to the heat sink, provide very even heat and incorporate sensors and flex circuits. These heaters are made of Kapton®, which are usually FEP or acrylic bonded to the required heat sinks using a Birk proprietary process.

Our flexible heaters are used for burn-in testing of integrated circuits and also for process heat in the manufacture of wafers for the semiconductor industry.

Birk has developed thermal systems with heaters bonded to heat sinks using built-in sensors with flex circuits. For maximum heating performance Birk uses multi-layered circuitry.

Birk has successfully designed circuits up to 135 watts per square inch. These circuits offer rapid heat up, close control with sensors being placed close to the work surface. Back up sensors are also available in case the primary sensor fails. Each thermal system is custom designed to meet the specific integrated circuit requirement.

