

**CAPABILITIES**

# COMPOSITE HEAT BLANKETS



Our silicone rubber heat blankets are specifically designed for the repair of composite structures using vacuum bagging techniques.

The unique construction of our heat blankets allows you to apply uniform heat exactly where you want it. Our design employs a grid of wound resistance wire, vulcanized between two layers of either fiberglass reinforced or unsupported silicone rubber. This design features strength, flexibility, durability and even heat distribution.

***THE SOLUTION TO  
UNEVEN HEAT  
DISTRIBUTION  
IS QUALITY!***



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Contact Information

**HC** **HEATCON**  
**COMPOSITE SYSTEMS®**

The HCS2047-02 is an "easy-to-use" Heat Blanket Tester that will identify possible hidden damage to the blanket with a simple "Pass/Fail" feature.

This will help to ensure uniform heating of the application by elimination of cold spots associated with blanket failure.



**Teflon® Insulated Leads:**  
for easier removal from the tacky tape

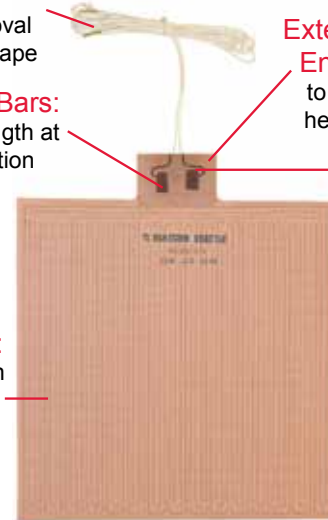
**Double Buss Bars:**  
to increase strength at circuit connection

**Circuit Spacing:**  
close and precision controlled circuit spacing for more even heat distribution

**External Lead Entry Tabs:**  
to maximize heating area

**Strain Relief:**  
to minimize wire breakage

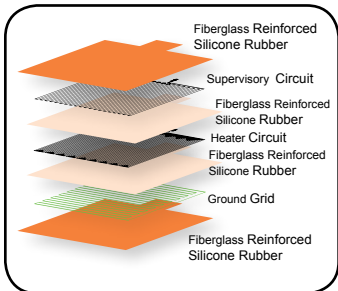
**Textured or Smooth Silicone Rubber**



## Standard or Custom Heat Blankets for all your Composite Repair Needs



The need for custom shaped, flexible heat blankets in composite repair has increased dramatically in recent years with all of the emerging applications being performed. HEATCON Composite Systems has both the engineering expertise and dedication to meet all of your custom heat blanket requirements from tooling, to design, to manufacturing.



### Our Design Capabilities Include:

- **Stretchable:** Our stretchable silicone rubber heat blankets are specifically designed for the repair of complex 3-dimensional composite shapes or contoured surfaces.

- **Flat Geometrics/Die-Cuts**

- **Supervisory Heat Blankets:** Used with HEATCON Flightline Hot Bonders while performing a composite repair in a hazardous or flightline environment. These blankets have a very unique construction that includes an additional supervisory temperature sensing circuit to effectively reduce hazardous situations in a vapor volatile environment.

- **Radomes:** Capabilities include: configurations for Boeing, AirBus, M-D, Other configurations available, Single Zone, Multiple Zones, Storage Fixture Available

- **Contours:** Some application examples for contoured heat blankets include: leading edge, trailing edge, propeller, rotor, flap, fan-track and fan-cowl repairs.

- **Other Customization:** Simply supply us with the following details, and we'll begin design the blankets to suit your specific needs:

- Width, Length, Lead Length, Input Voltage, Watt Density, Dimensional Drawings.



Competitor "A" Heat Blanket



HEATCON Composite Systems' Heat Blanket