# PRODUCT RANGE 2024 HEATING BLANKETS 230V



**INDUSTRIAL HEATING BLANKETS FOR CURING OF MATERIALS LIKE COMPOSITE, REPAIRING OF WIND ROTOR BLADES, AND PRODUCTION IN BOTH THE MARINE INDUSTRY AND THE AEROSPACE INDUSTRY.**

# HEATING BLANKETS

Heating blankets are the optimal surface heating product when it comes to safely and effectively, having to heat elements to a specific temperature.

Industrial heating blankets makes it easy to heat up material including composite, carbon, epoxy prepreg and ensure a safe and uniform temperature distribution on the surface of the material. The blanket therefore acts as a perfect heatspreader on the desired material.

Industrial heating blankets are used in many industries including production and repairs of wind turbine blades, repairs and production in both the marine industry and the aerospace industry.

## Ideal for:

- Curing processes in aerospace industry.
- Curing processes in marine industry.
- Wind turbine rotor blade repair.
- Wind turbine rotor blade production.

## Heating blanket with fixed temperature

- 7 mm insulation for minimal heat loss.
- Available with bimetal for fixed temperature range between 60-70°C (140 - 158°F) or 70-80°C (158 - 176°F).
- The blankets can be joined together and daisy chained to cover larger surfaces.
- Straps for fixed installation (optional).
- Standard sizes available from stock.
- Special sizes produced upon request.

## Heating blanket 0-90°C Adjustable temperature

- 7 mm insulation for minimal heat loss.
- Available with temperature controller ranging from  0-90°C (32 - 194°F).
- 3 meter power cord (no plug).
- Straps for fixed installation (optional).
- Standard sizes available from stock.
- Special sizes produced upon request.
- Available with attached or external digital controller.

## Heating blanket 0-120°C Adjustable high temperature

- High temperature silicone materials.
- 7 mm glass insulation for minimal heat loss.
- Available with temperature controller ranging from  0-120°C (32 - 248°F).
- 3 meter power cord (no plug).
- Straps for fixed installation (optional).
- Standard sizes available from stock.
- Special sizes produced upon request.
- Available with attached or external digital controller.

# HEATING BLANKETS

### - With digital temperature controller & timer function

Heating blankets are the optimal surface heating product when it comes to safely and effectively, having to heat elements to a specific temperature.

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### Ideal for:

- Curing processes in aerospace industry.
- Curing processes in marine industry.
- Wind turbine rotor blade repair.
- Wind turbine rotor blade production.

## Heating blanket with DigiTherm Controller

The DigiTherm temperature controller is a durable, compact and very easy to use temperature controller for precise temperature adjustment on industrial heating blankets.

### Heating Blanket features:

- 7 mm insulation for minimal heat loss.
- Straps for fixed installation (optional).
- Standard sizes available from stock.
- Special sizes and shapes produced upon request.

### Controller features:

- Digital display that shows current or selected temperature in degrees Celcius or Fahrenheit.
- Easy to use buttons that can be operated with gloves.
- Build in timer function can be set for automatic shut off.
- Rampup function with limited temperature rise per minute.
- Adjustable temperature limit, 0-90°C (32-194ºF).
- Remembers last used temperature when powered on.
- 3 meter power cord and different plug options*.

* (Delivered without power plug as standard).

The DigiTherm controller is available both fastened to heating blankets and as external controller for connecting to heating blankets.

## 230V Heating Blankets with digital controller 0-90ºC - HS code 84198998

| Item # | Description & Data | | | Picture |
|---|---|---|---|---|
| 17-2385DT | Ultraheat PS-Silicone Heating blanket with adjustable, digital controller (0-90ºC). | | | |
| | Digital 0-90ºC (32-194ºF) | 230V 1140W | Size: 5000x500mm (197x19,7in) | |
| | Weight: N. 7,2kg/ G. 8,2kg | | Color: Dark Blue | |
| 10-9580DT | Ultraheat PS-Silicone Heating blanket with adjustable, digital controller (0-90ºC). | | | |
| | Digital 0-90ºC (32-194ºF) | 230V 700W | Size: 3000x500mm (118,1x19,7in) | |
| | Weight: N. 5,4kg/ G. 6,4kg | | Color: Green | |
| 13-1246DT | Ultraheat PS-Silicone Heating blanket with adjustable, digital controller (0-90ºC). | | | |
| | Digital 0-90ºC (32-194ºF) | 230V 560W | Size: 2000x500mm (78,7x19,7in) | |
| | Weight: N. 3,8kg/ G. 4,8kg | | Color: Dark Blue | |
| 11-9774DT | Ultraheat PS-Silicone Heating blanket with adjustable, digital controller (0-90ºC). | | | |
| | Digital 0-90ºC (32-194ºF) | 230V 270W | Size: 1000x500mm (39,4x19,7in) | |
| | Weight: N. 2,55kg/ G. 3,55kg | | Color: Dark Blue | |
| 08-9323DT | Ultraheat PS-Silicone Heating blanket with adjustable, digital controller (0-90ºC). | | | |
| | Digital 0-90ºC (32-194ºF) | 230V 200W | Size: 600x600mm (23,6x23,6in) | |
| | Weight: N. 2kg/ G. 3kg | | Color: Dark Blue | |
| 08-9099DT | Ultraheat PS-Silicone Heating blanket with adjustable, digital controller (0-90ºC). (Blanket shown without controller) | | | |
| | Digital 0-90ºC (32-194ºF) | 230V 450W | Size: 1000x1000mm (39,4x39,4in) | |
| | Weight: N. 3,9kg/ G. 4,9kg | | Color: Dark Blue | |
| 10-9486DT | Ultraheat PS-Silicone Heating blanket with adjustable, digital controller (0-90ºC). | | | |
| | Digital 0-90ºC (32-194ºF) | 230V 750W | Size: 1300x1300mm (51,2x51,2in) | |
| | Weight: : N. 5,35kg/ G. 6,35kg | | Color: Dark Blue | |
| 08-9030DT | Ultraheat PS-Silicone Heating blanket with adjustable, digital controller (0-90ºC). | | | |
| | Digital 0-90ºC (32-194ºF) | 230V 1200W | Size: 2000x1000mm (78,7x39,4in) | |
| | Weight: N. 6,4kg/ G. 7,4kg | | Color: Dark Blue | |
| 22-4148DT | Ultraheat PS-Silicone Heating blanket with adjustable, digital controller (0-90ºC). | | | |
| | Digital 0-90ºC (32-194ºF) | 230V 1730W | Size: 3000x1000mm (118,2x39,4in) | |
| | Weight: N. 9,4kg/ G. 10,4kg | | Color: Dark Blue | |
| 10-9488DT | Ultraheat PS-Silicone Heating blanket with adjustable, digital controller (0-90ºC). (Blanket shown with analog control box) | | | |
| | Digital 0-90ºC (32-194ºF) | 230V 200W | Size: 700x1000x700mm (27,6x39,4x27,6in) | |
| | Weight: N. 1,7kg/ G. 2,7kg | | Color: Dark Blue | |
| 12-1076DT | Ultraheat PS-Silicone Heating blanket with adjustable, digital controller (0-90ºC). | | | |
| | Digital 0-90ºC (32-194ºF) | 230V 450W | Size: 1200x800mm (47,2x31,5in) | |
| | Weight: N. 3,6kg/ G. 4,6kg | | Color: Dark Blue | |
| 12-1066DT | Ultraheat PS-Silicone Heating blanket with adjustable, digital controller (0-90ºC). | | | |
| | Digital 0-90ºC (32-194ºF) | 230V 200W | Size: 1000x290mm (39,4x11,4in) | |
| | Weight: N. 2,1kg/ G. 3,1kg | | Color: Dark Blue | |
| 10-9614DT | Ultraheat PS-Silicone Heating blanket with adjustable, digital controller (0-90ºC). | | | |
| | Digital 0-90ºC (32-194ºF) | 230V 220W | Size: 1500x290mm (59,1x11,4in) | |
| | Weight: N. 2,25kg/ G. 3,25kg | | Color: Dark Blue | |
| 09-9389DT | Ultraheat PS-Silicone Heating blanket with adjustable, digital controller (0-90ºC). | | | |
| | Digital 0-90ºC (32-194ºF) | 230V 400W | Size: 3800x290mm (149,6x11,4in) | |
| | Weight: N. 4,2kg/ G. 5,2kg | | Color: Dark Blue | |
| 23-4243DT | Ultraheat PS-Silicone Heating blanket with adjustable, digital controller (0-90ºC). | | | |
| | Digital 0-90ºC (32-194ºF) | 230V 650W | Size: 3800x290mm (149,6x11,4in) | |
| | Weight: N. 3,85kg/ G. 4,85kg | | Color: Dark Blue | |

## Fastening variations

| Item # | Description & Data | Picture |
|---|---|---|
| **17-2246** | 4 x Loops for easy fastening.<br><br>Weight: N. 0,3kg/ G. 1,3kg | |
| **17-2246A** | 4 x Buckles for easy fastening.<br><br>Weight: N. 0,5kg/ G. 1,5kg | |

## Plug options

| | Description & Data | |
|---|---|---|
| | Our products can be delivered with the following types of power plug (will be delivered without plug unless otherwise ordered)<br><br>230V DK (**K-9099ADK**)  230V Schuko (**K-9099ADE**)<br><br>230V CEE (**K-9099AEU230**)  230V UK (**K-9099AGB**)<br><br>230V US (**K-9099US230**) | |

| All Heating Blankets can be produced with the following thermostats, sensors, or controllers: |
|---|
| - Digital adjustable controller 0-90°C<br>- External Digital adjustable controller 0-90°C (See picture to the right, ask for item numbers)<br>- Fixed bi-metal thermostat 68°C  (+/- 5°C)<br>- Fixed bi-metal thermostat 78°C (+/- 5°C)<br>- PT100 Sensor and no controller |

# High Temperature
# HEATING BLANKETS
### - With digital temperature controller & timer function

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- Curing processes in aerospace industry.
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## Heating blanket with DigiTherm Controller

The DigiTherm temperature controller is a durable, compact and very easy to use temperature controller for precise temperature adjustment on industrial heating blankets.

### Heating Blanket features:

- High temperature silicone materials.
- 7 mm glass insulation for minimal heat loss.
- Straps for fixed installation (optional).
- Standard sizes available from stock.
- Special sizes produced upon request.

### Controller features:

- Digital display that shows current or selected temperature in degrees Celcius or Fahrenheit.
- Easy to use buttons that can be operated with gloves.
- Build in timer function can be set for automatic shut off.
- Rampup function with limited temperature rise per minute.
- Adjustable temperature limit, 0-120°C (32-248ºF).
- Remembers last used temperature when powered on.
- 3 meter power cord and different plug options*.

* (Delivered without plug as standard).

The DigiTherm controller is available both fastened to heating blankets and as external controller for connecting to heating blankets.

## 230V High Temperature Heating Blankets with digital controller 0-120ºC - HS code 84198998

| Item # | Description & Data | Picture |
|---|---|---|
| **10-9580HTDT** | Ultraheat PS-Silicone Heating blanket with adjustable, digital controller (0-120ºC).<br><br>Digital 0-120ºC (32-248ºF) 230V 1400W  Size: 3000x500mm (118,1x19,7in)<br>Weight: N. 6,15kg/ B. 7,15kg  Color: Silver | |
| **13-1246HTDT** | Ultraheat PS-Silicone Heating blanket with adjustable, digital controller (0-120ºC).<br><br>Digital 0-120ºC (32-248ºF) 230V 900W  Size: 2000x500mm (78,7x19,7in)<br>Weight: N. 4,4kg/ B. 5,4kg  Color: Silver | |
| **11-9774HTDT** | Ultraheat PS-Silicone Heating blanket with adjustable, digital controller (0-120ºC).<br><br>Digital 0-120ºC (32-248ºF) 230V 450W  Size: 1000x500mm (39,4x19,7in)<br>Weight: N. 2,75kg/ B. 3,75kg  Color: Silver | |
| **08-9323HTDT** | Ultraheat PS-Silicone Heating blanket with adjustable, digital controller (0-120ºC).<br><br>Digital 0-120ºC (32-248ºF) 230V 430W  Size: 600x600mm (23,6x23,6in)<br>Weight: N. 2,2kg/ B. 3,2kg  Color: Silver | |
| **08-9099HTDT** | Ultraheat PS-Silicone Heating blanket with adjustable, digital controller (0-120ºC).<br><br>Digital 0-120ºC (32-248ºF) 230V 900W  Size: 1000x1000mm (39,4x39,4in)<br>Weight: N. 4,35kg/ B. 5,35kg  Color: Silver | |
| **10-9486HTDT** | Ultraheat PS-Silicone Heating blanket with adjustable, digital controller (0-120ºC).<br><br>Digital 0-120ºC (32-248ºF) 230V 1420W  Size: 1300x1300mm (51,2x51,2in)<br>Weight: N. 6kg/ B. 7kg  Color: Silver | |
| **08-9030HTDT** | Ultraheat PS-Silicone Heating blanket with adjustable, digital controller (0-120ºC).<br><br>Digital 0-120ºC (32-248ºF) 230V 1800W  Size: 2000x1000mm (78,7x39,4in)<br>Weight: N. 8kg/ B. 9kg  Color: Silver | |
| **12-1076HTDT** | Ultraheat PS-Silicone Heating blanket with adjustable, digital controller (0-120ºC).<br><br>Digital 0-120ºC (32-248ºF) 230V 930W  Size: 1200x800mm (47,2x31,5in)<br>Weight: N. 4,25kg/ B. 5,25kg  Color: Silver | |

## Fastening variations

| Item # | Description & Data | Picture |
|---|---|---|
| **17-2246** | 4 x Loops for easy fastening.<br><br>Weight: N. 0,3kg/ B. 1,3kg | |
| **17-2246A** | 4 x Buckles for easy fastening.<br><br>Weight: N. 0,5kg/ B. 1,5kg | |

## Silicone Heating Blankets 230V - HS code 85168080

| Item # | Description & Data | Picture |
|---|---|---|
| **08-9294B** | Uninsulated industrial heating blankets for safely and effectively heating elements to a specific temperature up to 120°C. IP54.<br>Analog 0-120ºC (32-248ºF) 230V 1700W  Size: 1000x590mm (39,4x23,2in)<br>Weight: N. 2,8kg/ B. 3,8kg  Color: Orange | |
| **08-9294A** | Uninsulated industrial heating blankets for safely and effectively heating elements to a specific temperature up to 120°C. IP54.<br>Analog 0-120ºC (32-248ºF) 230V 2500W  Size: 2000x430mm (78,7x16,9in)<br>Weight: N. 3,85kg/ B. 4,85kg  Color: Orange | |
| **14-1574** | Uninsulated industrial heating blankets for safely and effectively heating elements to a specific temperature up to 120°C. IP54.<br>Analog 0-120ºC (32-248ºF) 230V 2500W  Size: 2500x430mm (98,4x16,9in)<br>Weight: N. 4,7kg/ B. 5,7kg  Color: Orange | |

**Plug options**

| Description & Data | |
|---|---|
| Our products can be delivered with the following types of power plug (will be delivered without plug unless otherwise ordered) | |
| 230V DK (**K-9099ADK**) | 230V Schuko (**K-9099ADE**) |
| 230V CEE (**K-9099AEU230**) | 230V UK (**K-9099AGB**) |
| 230V US (**K-9099US230**) | |

| All Heating Blankets can be produced with the following thermostats, sensors, or controllers: |
|---|
| - Digital adjustable controller 0-120°C |
| - External Digital adjustable controller 0-120°C (See picture to the right, ask for item numbers) |
| - Fixed bi-metal thermostat 68°C (+/- 5°C) |
| - Fixed bi-metal thermostat 78°C (+/- 5°C) |
| - PT100 Sensor and no controller |

# WIND TURBINE BLADE TIP HEATING BLANKETS



These blankets are specially tailored to cure wind turbine blades. They consist of two seperate heating blankets with seperate controllers, that are held together by velcro.

The heating blankets are controlled by one of three options:

- Fixed thermostats (Different temperature options available).

- DigiTherm digital controllers (as in the picture)
    - 0-90ºC (32-194ºF).
    - Timer function for automatic shut off.
    - Slow warmup function.

- External DigiTherm digital controllers
    - Same controller as DigiTherm, but not fastened to the heating blanket.

When ordering for a specific blade type for the first time we will need a cardboard template to design the heating blankets for the tip.

All heating blankets can be produced for any desired voltage, with any of the controller options, and with different power connector options. Please contact us and let us know what you need.

# DigiTherm Ramp up

## - A function for slow warm up

The DigiTerm Controller is used on Heating Blankets and Drum Heaters. It has a ramp up function that can be used for slow warmup, limited by a maximum temperature rise per minute [$\Delta T_{max}$/min].

The function is easily activated in the build in menu, where the speed of the warm up can be selected.

The advantage of this function is the ability to even out the heating on larger subjects where several blankets are being used and the thickness or material density varies.

The ramp up function can also be used for materials that require slow warming up.

# DigiTherm ramp up example

## DigiTherm at 90ºC. Measured at subject surface at blanket sensor.



Target temperature — Normal operation — Ramp up 1,0 ºC/min — Ramp up 0,5 ºC/min — Ramp up 0,3 ºC/min