

SOP – Preconditioning ThermalCoat

ThermalCoat with va-Q-gel

For +2 °C to +8 °C shipments & +15 °C to +25 °C shipments

Envirotainer[®]

Precision with Purpose



Illustration of ThermalCoat.

PRECONDITIONING OF THERMALCOAT

Envirotainer's ThermalCoat solution offers protection for temperature-sensitive goods during transportation, mitigating the risk of short-term temperature fluctuations, for example when they are on the tarmac. Leveraging phase change materials (PCMs) that directly encase your products, this qualified pallet solution is designed for multiple uses, significantly enhancing product safety during both sea and air freight.




The following document describes the correct preconditioning of va-Q-gel for ThermalCoat for +2 °C to +8 °C shipments and +15 °C to +25 °C shipments.

Step 1

- Before use, check the temperature batteries for damages such as cuts.
Do not use damaged temperature batteries!
- Equip the ThermalCoat with va-Q-gel as per the respective SOP.

Step 2

- Store the Thermal Coat incl. its temperature batteries at a temperature as defined in the table below. For +5°C shipments choose between the equivalent preconditioning method “Const.” or “Freeze & Thaw”.

PCM	Application	Color Code	Method	Duration	Average preconditioning temperature	Tolerance
+05G EL	For +5°C shipments		Const.	≥72 hrs	+3 °C	±0.5 °C
+05G EL	For +5°C shipments		① Freeze	≥24 hrs	-20 °C	±5 °C
			② Thaw	1 hr	+5 °C	±3 °C
+22G EL	For +20°C shipments		Const.	≥72 hrs	+15 °C	±0.5 °C

Note

It is necessary to secure proper airflow around the temperature batteries during the preconditioning process. A space of at least 1.5cm (0.6”) between each PCM layer of the ThermalCoat is mandatory. Horizontal storage for preconditioning is necessary.

Step 3

- Use Thermal Coat US as per respective Handling SOP.

For more information please contact support@envirotainer.com