

PRODUCT FACTS Surface treatment with Thermo Shield

Thermo Shield is an effective coating blocking heat in warm climates

A comparison between traditional insulation methods and the Thermo Shield coating has been made.

Below the summary of an evaluation carried out on three different containers

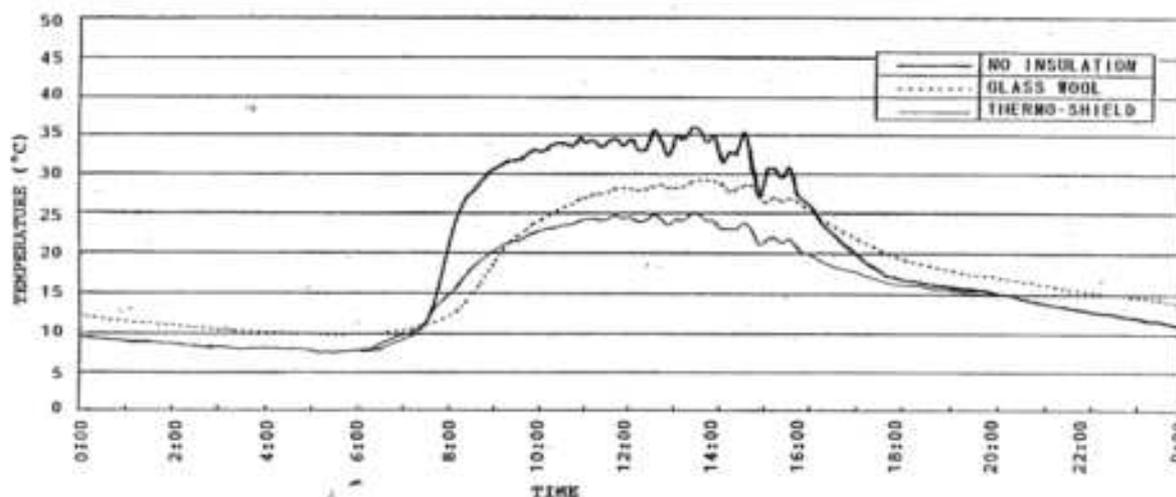


Diagram 01: Temperature curves from the test evaluation showing the temperature changes. Results: no insulation max. ~35°C
 glass wool insulation max. <30°C
 Thermo Shield coating max. <25°C

Diagram 01 shows the temperature inside three metal containers (1,5 m x 1,5 m x 1,5 m = 3.375 m³) painted in the same colour.

Each container has a mechanical ventilation capacity of 25 m³/h → the air is completely exchanged 7.4 times per hour in a container.

Each container has a different insulation:

Container 1 insulation is missing.

Container 2 glass wool insulation (100 mm in the roof and 75 mm in the walls)

Container 3 coated with Thermo Shield on both roof and walls

Test date: 28 September, 1998

Test area: Middle East

Clean Analytical System AB

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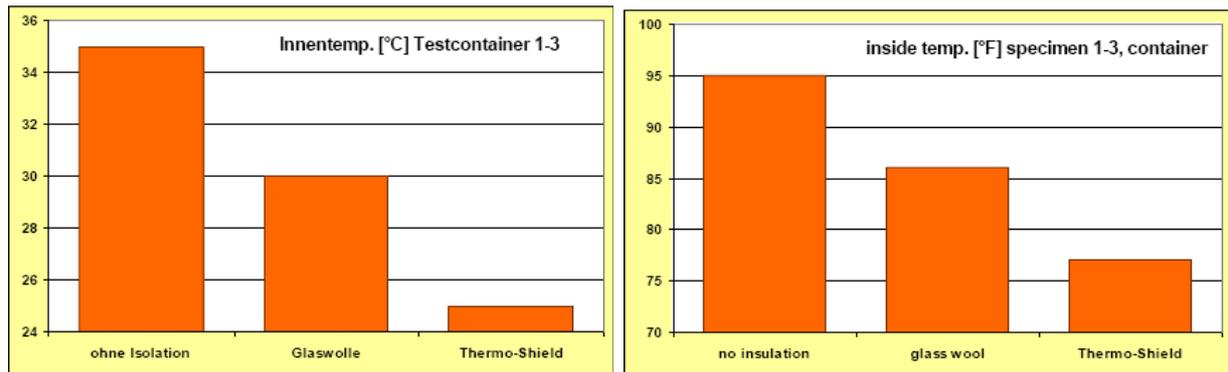


Diagram 02: The container coated with Thermo Shield has a considerably lower inside temperature compared to the glass wool insulated and the container without insulation. Values are given in [°C] and [°F].

General information

A Thermo Shield coated object is cooler than an uncoated object in the summer and it saves energy in winter. Thermo Shield is an energy saving coating, complying with the Energy Star specifications.

Thermo Shield Coating (TSC) advantages

TSC

- Is a proven radiated heat protection
- Is superior to traditional insulation methods
- Works well in hot climates such as Africa, Asia, South America and Middle East
- Can be used on several different object such as vehicles, containers, pipe lines, ships, houses and storage facilities
- Is an ideal coating for Industrial applications
- Can be applied at a later date on an objects
- Can also be applied in areas used for storing oil, food, water and chemicals
- Has an excellent price performance ration compared to many other insulation products

For more information, please contact Clean Analytical System AB