



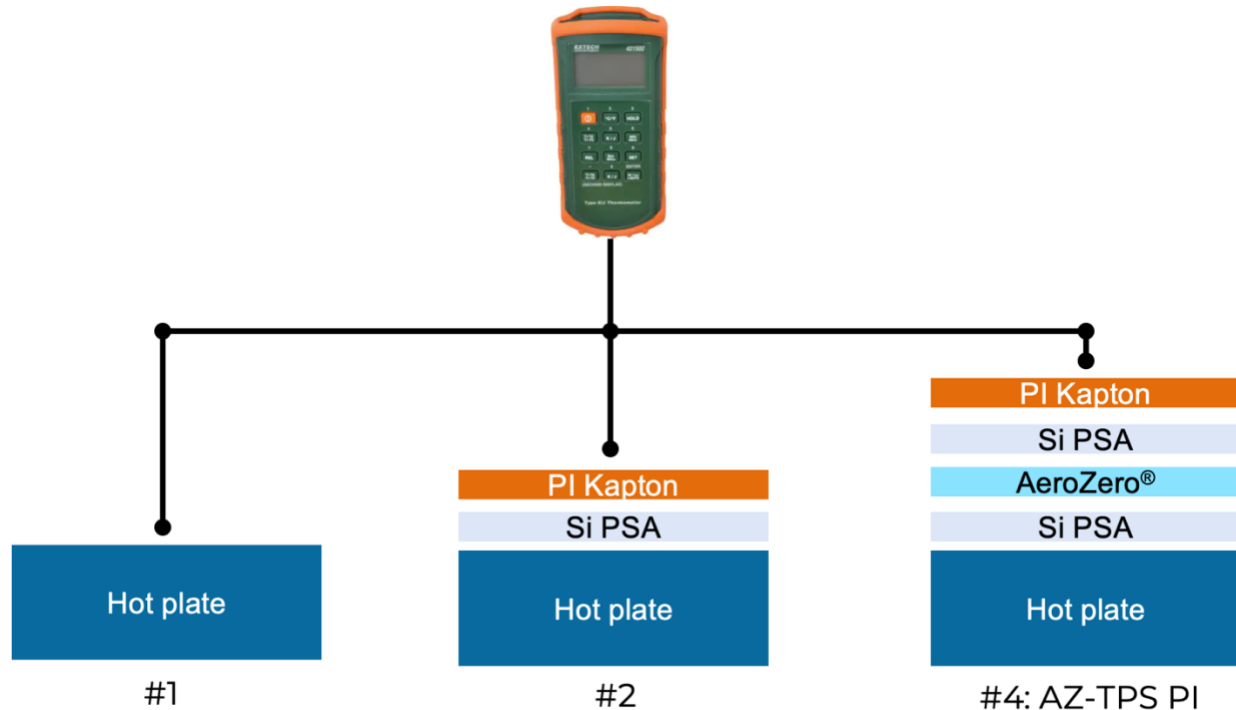
AeroZero Tape Case Study

Purpose:

To compare Polyimide Tape and AeroZero Polyimide Tape (AZ-PI Tape) based on their insulating performance on a hot plate.

Test setup:

- A stainless steel (SS) block, 6" x 6" x 0.2", was placed on a hot plate to control temperature variation.
- 4" x 4" sheets of samples were attached to the stainless steel using Silicone (SI) PSA.
- A thermocouple was placed on the bare stainless steel and the temperature was set and allowed to equilibrate.
- The temperature, 200 °C, was measured for 3 minutes and recorded every 10 seconds.
- Samples were attached to the stainless steel and the temperatures were recorded to equilibrium.
- The equilibrium temperature was reported.

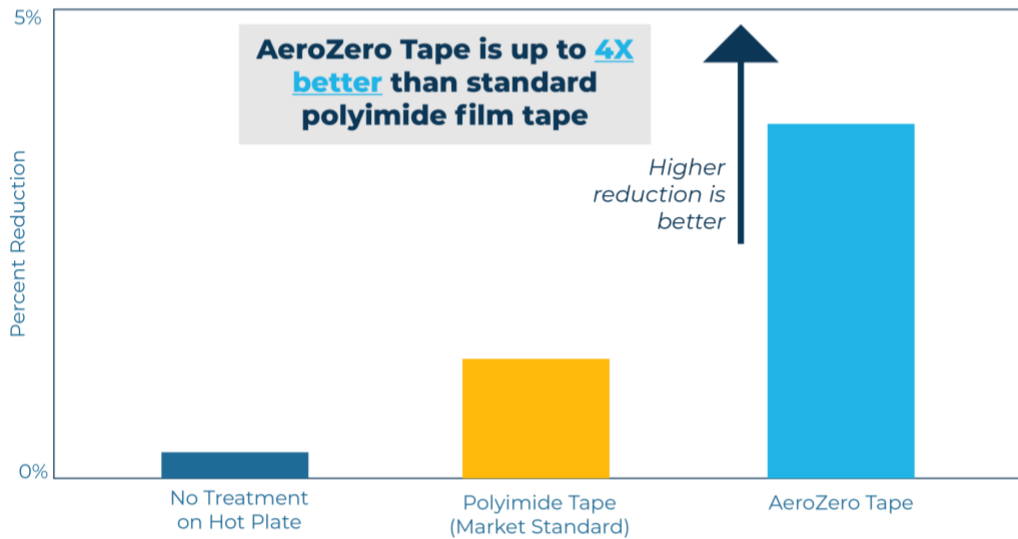




Results

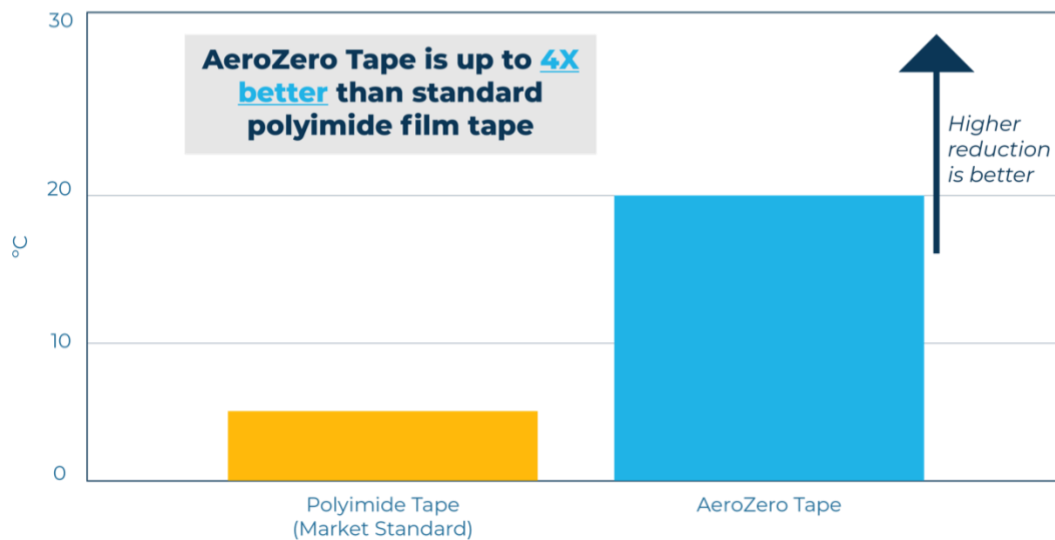
Percent Reduction in Touch Temperature

When Applied to 200 °C Contact Heat Source



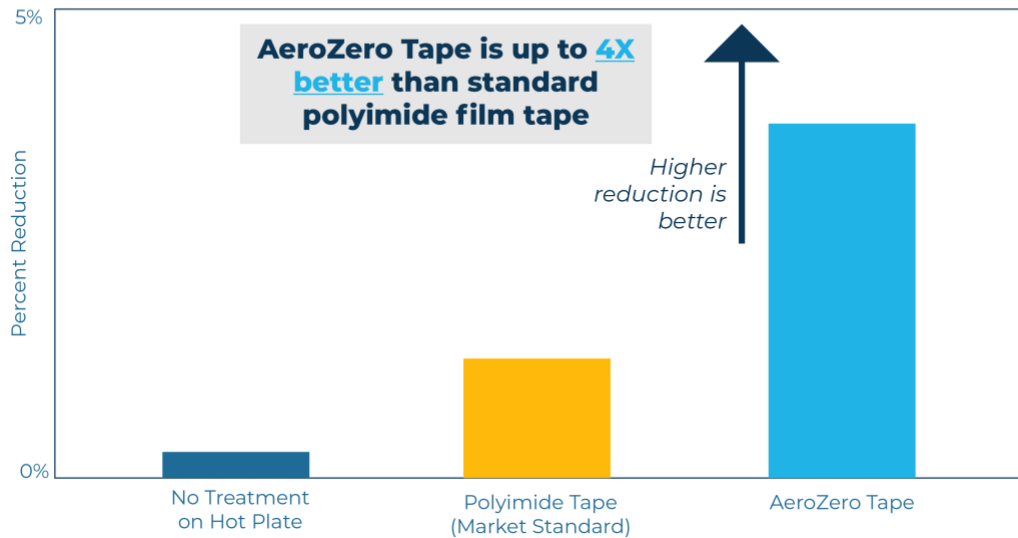
Touch Temperature Reduction

When Applied to 200 °C Contact Heat Source





Percent Reduction in Touch Temperature When Applied to 200 °C Contact Heat Source



Conclusions:

- AeroZero® combined with a layer of polyimide film (called “AeroZero polyimide tape”) shows a significant reduction in temperature.. AeroZero polyimide tape (AZ-PI tape) is much more effective than standard polyimide tapes on the market today.
- Conventional polyimide tape (with no AeroZero®) showed minimum temperature reduction effects.
- Some people may use multiple layers of conventional polyimide tape to achieve their desired temperature goals, but with AeroZero polyimide tape you only need one layer to achieve the same temperature.

If you have thermal issues and need a significant temperature reduction, AeroZero polyimide tape is the best choice for you.