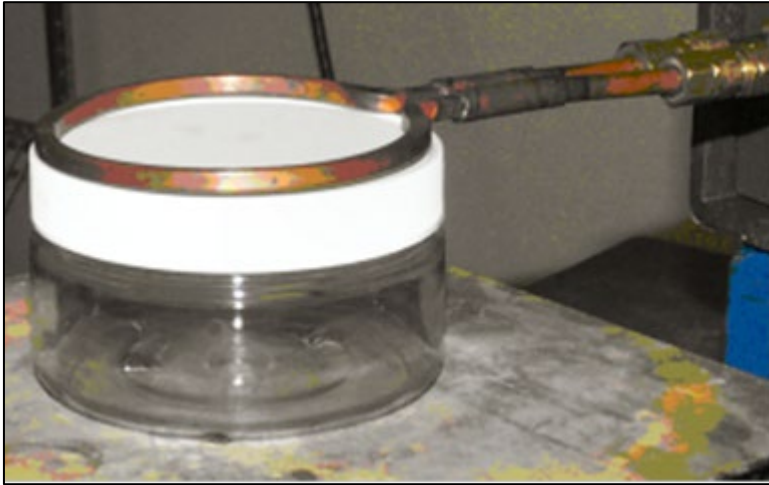


Application Note

Cap Sealing a Lotion Container

- Objective:** To heat an aluminum in-cap laminate to a temperature of 350 °F (177 °C) to seal the laminate to the container.
- Equipment:** Ambrell EASYHEAT™ 1.2 kW, 150-400 kHz solid state induction power supply with a workhead and coil specifically designed for this application.
- Frequency:** 300 kHz
- Material:** Cap and laminate
- Temperature:** 350 °F (177 °C)
- Testing:** A single-turn helical coil generated the required heating pattern for this application. The induction system heated the assembled lid-foil-container to the required temperature. The seal was achieved after ~1 second of heating.
- Benefits:**
- **Speed:** Induction met the client's time requirements as it took just 1 second and is generally faster than other heating methods.
 - **Economy:** Power is applied directly to the foil; no energy is wasted heating the cap or the surrounding air or parts.
 - **Automation:** This heating system is easily integrated into automated processes
 - **Control:** The quality of the seal is ensured with the control of the heating system



The helical induction coil set up over the cap assembly.