

Induction Sealing Shampoo Container

United Induction Heating Machine Limited

We are experienced in Induction Heating, induction heating machine, Induction Heating equipment. They are widely used in induction heating service, induction heat treatment, induction brazing, induction hardening, induction welding, induction forging, induction quenching, induction soldering, induction melting and induction surface treatment applications
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Objective To heat an aluminum foil inside a plastic shampoo cap for sealing

Material 2.0" diameter, plastic flip top cap, with a 0.9" diameter aluminum foil seal

Temperature 250 – 300 °F (120 – 150 °C)

Frequency 225 kHz

Equipment Power of 6 kW, induction heating system, equipped with a remote heat station containing two 1.5 µF capacitors (total capacitance 0.75 µF).

An induction heating coil designed and developed specifically for this application.

Process A three-turn two-position helical coil is used to heat the aluminum foil in a tunnel style assembly. Product (containers) passes easily under the induction coil.

The assembly is located such that the entire perimeter of the aluminum foil is heated uniformly. The container and cap is placed under the coil and RF power delivered for 0.12 seconds. The aluminum foil heats and seals to the plastic of the cap.

Results/Benefits This induction heating configuration fulfills the process requirements and:

- uses a simple, economical coil design
- increases throughput with a dual-position coil
- delivers quality, consistent seals
- offers a repeatable process, well-suited for automation

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service@uihm.com

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