



Metal to plastic bonding of beer kegs

Objective Bond an aluminium mesh to a plastic beer keg

- Material**
- Aluminium mesh
 - Plastic keg 320 mm (12.5") ID

Temperature 250 °C (482 °F)

Frequency 207 kHz

Equipment Ambrell 2 kW, induction heating system, equipped with a remote workhead containing two .33μF capacitors (for a total of .66 μF).
An induction heating coil designed and developed specifically for this application.

Process/Narrative A single-turn solenoid coil is placed around the assembled beer keg and heated for 35 seconds as the keg is rotated. Pressure is applied with a press on the top rim whilst the keg is rotating, forming a seal between the aluminium mesh and the two halves of the beer keg.

Results/Benefits Induction heating provides:

- Quick, reliable, repeatable heat
- Localized, precision heat to the mesh area

Download and print our Applications Lab Process Sheet (<http://www.ameritherm.com/PDFs/4110038b.pdf>). Answer the questions on the form to help us understand your process and performance requirements. Call with the info on the form to see if you should send us your parts for a free evaluation. If you have questions, call or e-mail us (info@ameritherm.com). We'll be in touch!

