

Induction Bonding Rubber to Steel

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
<http://www.uihm.com>

Objective To bond rubber gaskets to the top and bottom of a steel gas tank assembly.

Material Flat and round rubber gaskets, steel gas tank assembly

Temperature 300 to 350°F (148.9-176.7°C)

Frequency 183 kHz for the flat gasket; 231 kHz for the round gasket

Equipment • Power of 15kW induction heating system equipped with a remote workhead containing two 1.25 μ F capacitors for a total of 0.625 μ F

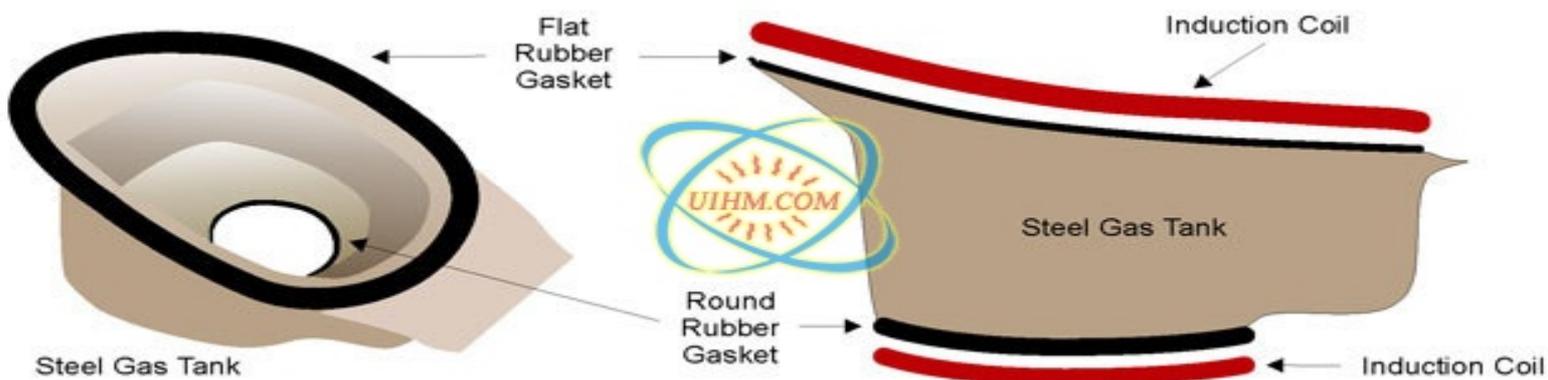
• An induction heating coil designed and developed specifically for this application.

Process Two two-turn pancake coils are specially contoured to the shape of the steel assembly to produce uniform heat in the gasket areas. The gaskets are positioned over the joint areas.

Power is applied for 6.5 seconds to reach the bonding temperature of 320°F (160°C).

Results/Benefits Induction heating provides:

- Repeatable, rapid & accurate heating cycles
- Reduced process time
- Even distribution of heat



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