

# Induction Heating Inconel Susceptor

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>

**Heating Inconel Susceptor Objective:** Heat an Inconel susceptor to 19500F in less than one (1) minute for heating jet engine fan blades. This approach is to be used, instead of directly heating the blade, since improved temperature uniformity will be achieved. Heating is to take place in an Argon atmosphere.

**Material:** Inconel Susceptor measuring 1 3/8 wide by 2 long by 3/4 thick

**Temperature:** 19500F

**Application:** Through laboratory testing, the Power of 10KW, 10kW output solid state induction power supply along with a four turn elongated helical coil were used to achieve the following results:

# 19500F was reached in forty five (45) seconds.

# An even heating pattern was observed throughout the Inconel block

**Equipment:** Power of 10KW, 10kW output solid state induction power supply including one (1) remote heat station containing two (2) capacitors with a total value of 0.66  $\mu$ F, and a unique four (4) turn elongated helical work coil.

**Frequency:** 215 kHz heating Inconel Susceptor

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