The Ultra-Ceramic Thermal Heaters

1. **Ultra-Ceramic Boron Nitride (BN) Thermal Heater** – Cactus designed Industry’s first BN heater with the highest power density (3 W/mm²) and faster heating/cooling (>500°C/sec ramp rate), up to 1600°C

2. **Ultra-Ceramic Aluminum Nitride (ALN) Thermal Heater** – Power density (2 W/mm²) and faster heating/cooling (>300°C/sec ramp rate)

3. **Ultra-Ceramic Alumina (Al₂O₃) Thermal Heater** – Power density (1.5 W/mm²) and faster heating/cooling (>200°C/sec ramp rate)

4. **High watt density Micathermal heater and Jacket Heater** – High temp up to 800°C

- Designed in USA, exclusively manufactured in Japan, the highest quality in industry!
- Patent pending manufacturing process.
- Post fire design allows for the production of prototype, small scale and high volume production at low cost!

Applications:
- **Appliances:** electric ranges, irons, in-floor heaters, space heaters, medical devices, etc.
- **Industrial:** mold heating, medical devices, semiconductor production, liquid crystal production, OLED production, solar cell

**Industrial**  **Medical**

**Semiconductor**  **Consumers**

**High heat dissipation heater**