HYDROGEN BURN OFF IGNITERS

Hydrogen Burn-Off Igniters (HBOI) utilize an electrical input stimulus that ignites an Electro-Explosive Device (EED) which in turn ignites a propellant grain. The propellant grain is designed to sustain a controlled burn for a specified amount of time (minimum of 22 seconds). As the propellant grain burns, it produces hot pyrotechnic particles which are propelled and exited through a nozzle in a cone pattern over a required distance (minimum of 15 feet). Propellant burn time duration and throw distance can be customized to meet specific customer application needs.

APPLICABLE SPECIFICATIONS

Output: Provide pyrotechnic sparks of at least +1,500°F
Throw: Eject hot particles a minimum distance of 15 feet, and a cone angle of approximately 20°
Duration (Burn Time): Minimum 22 seconds
Operational Temperature: -20°F to +160°F
Hermetic Sealing: 1 x 10^-5 cc/sec of helium with one atmosphere differential pressure
All-fire Stimulus: 4.0 amperes with a 20 millisecond pulse
No-fire: 1.0 ampere / 1.0 watt for 5.0 minute
Insulation Resistance: Greater than 2.0 megaohms at 500 volts direct current