ELECTRIC SUPER™ SEISMIC

Electric Seismic Detonators

Product Description
In addition to superior accuracy, the ELECTRIC SUPER SEISMIC detonator provides the high output strength and impact resistance of all Dyno Nobel electric detonators.

Now made with a copper shell, the ELECTRIC SUPER SEISMIC also offers improved corrosion resistance, even in the most severe seismic environments.

The ELECTRIC SUPER SEISMIC detonator is ideally suited for geophysical exploration work because it fires with no appreciable time lag between the application of the proper current/amperes and detonation.

Designed for Safety
Multiple anti-static features minimize the risk of accidental detonation. Reliability and performance is the heart of the Electric Super Seismic detonator. Internal components and statistical process controls assure each and every detonator meets IAGC’s rigorous standards of the seismic industry.

High Strength
Electric Super Seismic detonators can make a successful shot out of a potential failure, especially when blasting at low temperatures, high hydrostatic conditions or seismic environment.

USE CAUTION WHEN SLEEP TIME IS ANTICIPATED
A loaded hole that is not shot immediately after the detonator tests positive with a ShotPoint Tracker™ or other testing device could fail for reasons beyond the control of the drill crew and product manufacturer. Reasons for failure could include but are not limited to geologic shifting, lightning, vandalism, farmer or animal interference.

Properties

- **Detonator Shell**: Copper
- **Wire Gauge / Color**:
  - 20 gauge: Yellow
  - 18 gauge: Red
- **Shell Length**: 63.5 mm / 2.5 in
- **Maximum Water Pressure**: 250 psi / 17.2 bars
- **Wire Tensile Strength**:
  - 20 gauge: 50 lbs / 222 N (Newtons)
  - 18 gauge: 75 lbs / 334 N (Newtons)
- **Shelf Life Maximum**: 3 years (from date of production)
- **Maximum Usage Temperature**: +66°C (150°F)
- **Net Explosive Content**:
  - per 100 units: 0.0885 kg / 0.1947 lb
- **Recommended Firing Energy**:
  - per detonator: 400 Volts / 22.7 mj/ohm

Printed circuit tape directs high levels of extraneous current to the copper shell rather than through the bridgewire.

Phenolic plug is pressed into shell to make a positive seal that withstands high hydrostatic pressures.

Hazardous Shipping Description
Detonator, Electric, 1.4B UN 0255 II
- **Spooled**: EX 8810006
- **Duplex Wire Kirks**: EX 9207060A
- **Single Wire Kirks**: EX 9207060B

I-02-08-18-15
See Product Disclaimer on page 2
ELECTRIC SUPER™ SEISMIC

Application Recommendations

- NEVER use Dyno Nobel seismic explosive products and/or components with explosive products and/or components made by other manufacturers.
- ALWAYS use a single series hook-up, limit the number of Electric Super Seismic detonators in the series to 25 and use a capacitor discharge blasting machine that will deliver a firing current greater than 10 amps RMS to the circuit for optimum performance in single-shot firing and pattern shooting.
- ALWAYS keep electric detonator wires, the blasting circuit and lead wires shunted unless testing field resistance, connecting or ready to fire. ALWAYS twist-shunt electric detonator legwires after the factory shunt is removed.
- NEVER handle or use electric detonators when stray current or static electricity is present or during lightning storms.
- NEVER connect ELECTRIC SUPER SEISMIC in the same series with other seismic detonators (including Vibrodet and Electric Seisdet) or any other type of electric detonators because of differences in firing characteristics. Misfires may result.

Radio Frequency Hazard Alert

- When blasting with electric detonators, no personal communication equipment of any type should be on the blast site regardless of whether it is on or off. This includes but is not limited to: portable / hand held radios, radio modems, pagers, mobile and cell phones.
- Radio-Frequency (RF) transmitters include but are not limited to: AM and FM radio; television, radar; cellular phones and other devices that are cellular based (i.e., on-board vehicle systems like “On Star”); wireless data acquisition systems; personal data devices such as “Palm Pilots” and “Pocket PCs” with built-in cellular phones or communication systems; Pagers; and Global Positioning Systems (GPS) base stations.
- Refer to the Institute of Makers of Explosives Safety Library Publication #20 for distance/wattage parameters and guidance when using two-way radios and cell phones near electric detonators.
- ALWAYS use them in accordance with these guides.

Transportation, Storage and Handling

- Electric Super Seismic must be transported, stored, handled and used in conformity with all federal, state, provincial and local laws and regulations.
- For maximum shelf life (3 years), ELECTRIC SUPER SEISMIC must be stored in a cool, dry, well ventilated magazine. Explosive inventory should be rotated. Avoid using new materials before the old. For recommended good practices in transporting, storing, handling and using this product, see the booklet “Prevention of Accidents in the Use of Explosive Materials” packed inside each case and the Safety Library Publications of the Institute of Makers of Explosives.

The disposable shipping tray is not part of the legal shipping package and is used only to prevent "relative motion" while in transit. If the tray is not used, it is mandatory that all explosives shipments are properly blocked and braced.

Packaging

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* Length rounded to nearest whole meter.

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