

ELECTRIC SUPER™ STARTER

Electric Instant Detonator - New Series

Properties

SDS
#1178

Shell Material	Aluminum
Shell Length	60.9 mm / 2.4 in
Legwire Color	Red & Yellow
Maximum Water Pressure	60 PSI 8 hrs
Connector Blocks	Holds up to 8 shock tubes Initiates 10-200 grain detonating cord
Shelf Life Maximum	5 years (from date of production)
Maximum Usage Temperature	66°C (150°F)
Ohms Resistance Ω	1.6
Net Explosive Content per 100 units	0.045 kg / 0.1 lbs

Hazardous Shipping Description

- Detonator, Electric, 1.4B, UN 0255 EX-2010080268



PRODUCT DESCRIPTION

ELECTRIC SUPER STARTER is an instant electric detonator housed in a plastic bunch block, facilitating easy connection to both shock tube and detonating cord. ELECTRIC SUPER STARTER is insulated with HDPE which offers added protection from extraneous currents. It has 450 mg RDX and or PETN base charge.



APPLICATION RECOMMENDATIONS

- Recommended firing current:
 - Series wiring: a minimum of 2 amps AC or 1.5 amps DC
 - Parallel wiring: a minimum of 1 amp AC or DC per detonator
 - Series-in-parallel wiring: a minimum of 2 amps AC or DC per series
- The maximum recommended continuous firing current is 10 amps per detonator.
- **NEVER** use an ELECTRIC SUPER STARTER detonator with other Dyno Nobel electric detonators or electric detonators from another manufacturer. Wiring different brand electric detonators together in a blast circuit may result in misfires and is in violation of federal regulations. Even though some types of Dyno Nobel electric detonators are electrically compatible, they should not be used together as a standard blasting practice.
- **NEVER** use electric detonators near radio frequency transmitters unless in accordance with IME SLP 20.

Product Disclaimer: Please see reverse side.



ELECTRIC SUPER™ STARTER

Electric Instant Detonator - New Series

Properties Cont.

Packaging

Length		Case Weight		Wire Configuration	Quantity per		Product Code
m	ft	lb	kg		Case	NEQ (g)	
4.9	16	4.0	1.8	Short Fold	20	10	ECST0000016

Case Dimensions

286 x 194 x 127 mm 11¼ x 75/8 x 5 in

Electrical Data

No Fire Current	0.25 amps	Double Wire to Shell	10 kV/300 pF/15 mJ
All Fire Current	1.00 amps	Pin to Pin	10 kV/300 pF/15 mJ
Series Ignition Current	1.50 amps		
No Fire Impulse	2.5 mJ/ohms		
All Fire Impulse	5.5 mJ/ohms		

Electrostatic Sensitivity

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.

TRANSPORTATION, STORAGE AND HANDLING

- ELECTRIC SUPER STARTER must be transported, stored, handled and used in conformity with all federal, state, provincial and local laws and regulations.
- For maximum shelf life (5 years), ELECTRIC SUPER STARTER 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.

ADDITIONAL INFORMATION – Visit dynonobel.com for Brochures and Case Studies related to this product.

Product Disclaimer: Dyno Nobel Inc. and its subsidiaries disclaim any warranties with respect to this product, the safety or suitability thereof, or the results to be obtained, whether express or implied, INCLUDING WITHOUT LIMITATION, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE AND/OR OTHER WARRANTY. Buyers and users assume all risk, responsibility and liability whatsoever from any and all injuries (including death), losses, or damages to persons or property arising from the use of this product. Under no circumstances shall Dyno Nobel Inc. or any of its subsidiaries be liable for special, consequential or incidental damages or for anticipated loss of profits.