

MAXEL Instant Electric Detonators



TECHNICAL DATA SHEET – INITIATION SYSTEMS

MAXEL Instant Electric Detonators

MAXEL Instant Electric Detonators have no delay element and fire instantaneously. They have plastic coated, copper leg wires. The end of the leg wires protected by a plastic end cap to protect from corrosion and stray electric currents.

APPLICATION

MAXEL Instant Electric Detonators are designed primarily for the initiation of a blasting network or to initiate an in-hole explosive instantaneously. This product is suitable for use in blasting operations of underground and surface mining, quarry and construction projects, where there is no existing explosion hazard of either methane or mine dust.

INSTRUCTIONS FOR USE

- The detonator cannot be used in blasting operations where there is any risk of explosion hazard relating to methane.
- During operations care must be taken when handling the leg wires to prevent damage to the wire or insulation caused by friction, breakage, burning or cutting.
- When the leg wires are connected to the firing cable, the connections should be wrapped with insulation tape to prevent current leakage. The circuit should be checked for current leakage prior to blasting. The current generated by this measuring instrument should not exceed 50mA.

PHYSICAL PROPERTIES

| | |
|-------------------------------------|------------------------------------------------------------------------------------------------|
| Authorised Shipping Name | DETONATOR, ELECTRIC, for blasting |
| Initiating Power | No.8 Detonator |
| Functional Temperature Range | -40°C ~ +75°C |
| Water Resistance | Immersed underwater at 1.0m for 72 hours at ambient water temperatures, will function reliably |
| Safe Current | 0.2A DC for 5 Minutes |
| Tensile Force | When pulled with 70N tensile force for one minute, all parts will remain connected |
| Firing Current | 0.45A DC Minimum |
| Sensitivity to Electrostatic Charge | 500pF capacitance with 15KV charging voltage |
| Explosive Class 1.1B | UN Number: UN 0030 |



STORAGE AND HANDLING

During handling and transportation, the product should be handled with great care, and should never be dropped, knocked or subjected to any impact. Always store away from any heat source.

MAXEL Instant Electric Detonators should be kept in a dry, cool, well-ventilated magazine. The shelf life of this product is ten (10) years when stored correctly.

STANDARD PACKAGING GUIDELINES

| LENGTH OF LEG WIRES | PIECES / CASE |
|---------------------|---------------|
| 2.0 M | 400 |

MAXEL Instant Electric Detonators are packed into small boxes then into cardboard cartons. Each small box contains forty (40) detonators and there are ten (10) boxes per carton. The dimensions of the carton are 380 x 280 x 225mm.

SAFETY

First Aid – Please refer to the Safety Data Sheet for MAXEL Instant Electric Detonators, Nitro Sibir Ref. IS03.

Safety – All explosives are classified as dangerous goods and must be handled and stored with care. Misuse may result in personal injury and/or damage to property.



TDS: IS03 VERSION: 5.0 LAST UPDATED: 06/21

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