NON-ELECTRIC · SURFACE TRUNKLINE DELAY

Neo Det STLD

TECHNICAL DATASHEET

Neo Det is a non-electric surface trunkline detonator system designed to control millisecond delays between blast holes or rows through reliable surface sequencing. It consists of a durable shock tube of specified lengths attached to a colour-coded plastic connector housing a low-strength precision delay detonator. The connector block is engineered to accept multiple shock tubes, ensuring secure retention and flexible routing across the blast field. The system enables accurate hole-to-hole or row-to-row delay timing and is compatible with standard in-hole detonators, providing versatility in complex surface initiation designs.



TECHNICAL DETAILS

PARAMETER	VALUE
Shell Material	Aluminium
Diameter of Shell	7.5 mm
Base Charge	PETN
Primary Charge	ASA
Charge Weight / Detonator	600 mg PETN, 200 mg ASA
Detonator Strength	No. 8 strength

KEY FEATURES

- Colour-coded surface connector with a low-strength precision delay detonator.
- Accepts up to six shock tubes with secure retention.
- Durable, abrasion-resistant shock tube available in multiple lengths.
- Water-sealed tube end for field reliability.
- Suitable for surface delay sequencing between holes or rows.
- Works with standard non-electric in-hole detonators.

STORAGE & HANDLING

- Store Neo Det units in a cool, dry, and well-ventilated magazine approved for detonator storage (Class 6).
- Keep case stacks below 2 meters to prevent crushing or deformation.
- For optimal performance, use products within their recommended shelf life (around 24 months) and always follow FIFO (oldest stock first).
- Handle and transport detonators strictly according to applicable local and national regulations.
- Maintain storage conditions that protect the detonators from heat, moisture, and mechanical impact, as these can reduce reliability.

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STLD LENGTHS & PACKING

Length (m)	Units / Box	Tube Colour
2	400	Orange
3	300	Orange
4	300	Orange
5	200	Orange
6	200	Orange

Other lengths upon customer requirement.

SURFACE DELAYS

Connector Colour	Delay on Surface (ms)
Yellow	17
Red	25
Orange	42
Blue	67

Other delays upon customer requirement.

TRANSPORT

Transport Classification	Class	UN Number
Standard Packaging	1.1B	UN 0360
Special Packaging	1.4S	UN 0500

RECOMMENDATIONS FOR USE

- Insert each shock tube into the connector block at a right angle, ensuring it locks firmly and sits without forming crossovers.
- Slide the connector block slightly down the tubes to confirm all tubes remain separated and properly engaged.
- The connector block holds six tubes securely without needing burial.
- Handle shock tubes and detonators carefully to avoid cuts, crushing, or damage.
- Neo Det can be initiated using a detonator of #8 strength or a detonating cord with a minimum PETN charge of 5 g/m.
- These connectors must not be used to directly initiate detonating cord.
- Never place detonating cord and shock tube together inside the same connector block, as this may lead to misfires.

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