NON-ELECTRIC · IN-HOLE DELAY DETONATOR

Neo Det DTH

TECHNICAL DATASHEET

Neo Det is a high-strength, non-electric millisecond delay detonator designed for reliable in-hole initiation across surface, underground, quarry, and construction blasting. It consists of an abrasion-resistant shock tube crimped to a precision delay detonator, with the free end sealed for moisture protection. The system offers multiple delay intervals for flexible timing design and is compatible with detonating-cord trunklines and standard surface connectors. Selected lengths may include J-hook attachments. It is suitable for priming cap-sensitive explosives and boosters in a wide range of blasting environments.



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

- High-strength delay detonator with accurate millisecond timing.
- Abrasion-resistant shock tube, sealed at one end for moisture protection.
- Available in multiple delay intervals for flexible timing design.
- Optional J-hook attachment for quick connection to detonating cord.
- Colour-coded identification for delay timing and safety.
- Suitable for priming cap-sensitive explosives and boosters.

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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DTH LENGTHS & PACKING

Length (m)	Units / Box	Tube Colour
3 – 4	300	Orange
5 – 6	200	Orange
7 – 10	150	Orange
11 – 16	100	Orange
17 – 34	50	Orange
35 – 50	25	Orange

Standard lengths shown; other lengths upon customer requirement.

Normal delays: 250 ms, 450 ms, 500 ms.

TRANSPORT

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

RECOMMENDATIONS FOR USE

- Can be used across the typical temperature range in mining; however, sleep time may drop if temperatures exceed 40°C, so consult the technical experts of Siva Trade and Pack when unsure.
- Initiate the Neo Det unit within 10 days once loaded into bulk explosives.
- The shock tube is durable, but any cut or split can allow moisture to enter and affect performance. Ensure the detonator is fully enclosed inside an appropriate primer.
- Do not insert uncovered units directly into blast holes or charging hoses.
- For down-the-hole use, place the Neo Det unit with its base facing the hole collar (reverse priming).
- Handle the non-electric tube gently — avoid pulling, twisting, or applying extra force.
- Suitable for operations in abrasive conditions and areas with higher humidity.
- When linking with a detonating cord trunkline, use a plastic J-hook and attach the shock tube at a 90° angle to the cord.
- Use a detonating cord with a minimum strength of 5 g/m when used along with a J-hook.

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