NON-ELECTRIC · DUAL-DELAY DETONATOR

Neo Det Combidet

TECHNICAL DATASHEET



Neo Det is a shock tube–based, dual-delay non-electric detonator system that integrates an in-hole delay detonator and a surface connector detonator into a single unit.

The surface connector is colour-coded according to delay time, enabling clear identification and easy sequencing in the field. Its enclosed design provides secure shock-tube retention and minimizes risks of shrapnel or excessive noise during surface initiation.

SYSTEM COMPONENTS

The system consists of an abrasion-resistant shock tube of specified lengths, with:

- An in-hole detonator crimped on one end, incorporating a long-delay element and a high-strength base charge suitable for initiating primers such as emulsion boosters, cast boosters, and other cap-sensitive explosives.
- A surface connector block on the other end, housing a low-strength, precision surface delay detonator. This connector is designed to accept up to six shock tubes, ensuring reliable surface-level sequencing.

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

- Integrated in-hole + surface delay system for simplified blast layout.
- Abrasion-resistant shock tube for reliable signal transmission.
- High-strength in-hole detonator suitable for initiating cap-sensitive explosives and boosters.
- Low-strength, enclosed surface detonator for safer, low-noise surface initiation.
- The connector accepts up to six shock tubes with secure retention.
- Colour-coded delays for quick and error-free identification.
- Provides accurate and consistent delay timing for controlled blasting.
- Suitable for surface, construction, quarry, and underground blasting.

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LENGTHS & PACKING

Length (m)	Units / Box	Tube Colour
2, 2.5	400	Orange
3 – 4	300	Orange
5 – 6	200	Orange
7 – 10	150	Orange
11 – 16	100	Orange
17 – 34	50	Orange
35 – 50	25	Orange

Other lengths upon customer requirement.

DELAY TIMING

Connector Colour	Delay on Surface (ms)	Delay In-hole (ms)
Yellow	17	250 / 450 / 500
Red	25	250 / 450 / 500
Orange	42	250 / 450 / 500

Other delays upon customer requirement.

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.

TRANSPORT

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

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RECOMMENDATIONS FOR USE

- Choose a unit with adequate tube length so it comfortably reaches from the primer point to the next hole collar.
- Protect the connector block and all tube leads during loading, stemming, and mat placement to avoid impact or crushing damage.
- Keep tubes aligned side-by-side inside the channel; avoid crossing or overlapping during insertion.
- Neo Det units can connect up to six 3-mm shock tubes — never exceed this limit.
- Not designed to initiate detonating cord; using both in the same connector can cause misfires.
- Do not disassemble the delay detonator from the connector block or operate it separately.
- Avoid pulling, stretching, bending, or putting tension on the shock tube — it may split, allowing moisture to enter and cause initiation failure.
- Keep all Neo Det connectors disconnected until charging and stemming of all holes is fully complete and the area is clear.
- Ensure in-hole detonators are placed inside a proper primer that completely encloses and protects the detonator shell.
- Neo Det can be initiated with a detonator of #8 strength.

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