TECHNICAL DATA SHEET

NONEL® TD

Nonelectric Trunkline Delay Detonator

Properties

SDS #1122

Net Explosive Content per 100 units — 0.0570 kg / 0.1256 lbs

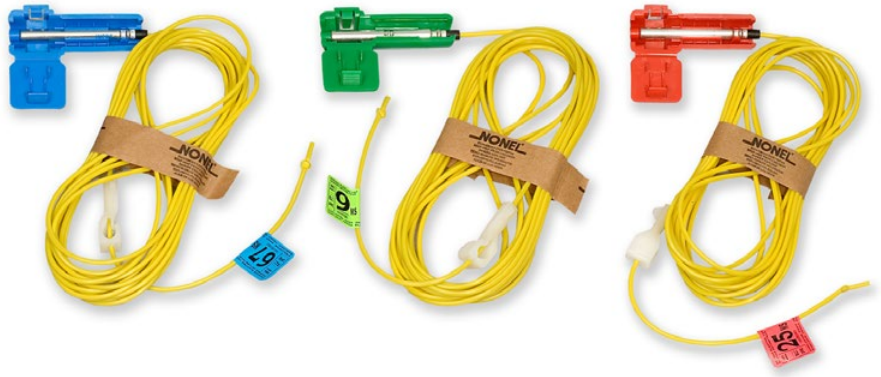
Delay Time (msec)	Connector Block Color
9	Green
17	Yellow
25	Red
33[a]	Green
42	White
67[a]	Blue
100[a]	Black
109[a]	Black

Hazardous Shipping Description
Detonator Assemblies nonelectric, 1.4B, UN 0361 PG II
Detonator Assemblies nonelectric, 1.1B, UN 0360 PG II

PRODUCT DESCRIPTION

NONEL TD units consist of a length of yellow shock tube with a Standard (#8) detonator attached to one end and the other end sealed. The detonator is housed in a plastic bunch block which facilitates easy connection to both shock tube and detonating cord. A white J-hook is affixed near the sealed end providing easy means of connection to detonating cord. Easy-to-read, color-coded delay tags display the delay number and nominal firing time prominently. The plastic bunch block has the capacity to initiate up to eight (8) shock tubes or one (1) detonating cord downline.

NONEL TD units are designed for use with NONEL MS, EZ DET®, SL and detonating cord downlines to provide effective and accurate surface timing between blast holes and/or rows of blast holes in surface and underground blasting designs.



APPLICATION RECOMMENDATIONS

- For detailed application recommendations, ALWAYS request a copy of Dyno Nobel's Product Manual: NONEL® and PRIMACORD® from your Dyno Nobel representative.
- ALWAYS attach the shock tubes of NONEL TD units leading to other holes to the detonating cord using the J-hook. Attach the J-hook to the detonating cord downline between the previous bunch block and the collar of the blast hole leaving at least 30 cm (12 in) between the adjacent bunch block.
- ALWAYS leave 13 cm (5 in) between the J-hook and any detonating cord knot. Ensure that outgoing shock tubes connect at right angles to the detonating cord and that the lid is tightly closed

Product Disclaimer: Please see reverse side.

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Properties Cont.

Packaging

Length		Hazard Class	Case Type	Quantity / Case
m	ft			
3.5	12	1.4B**	D*	90
6	20	1.4B**	D*	60
9	30	1.4B**	D*	50
12	40	1.4B**	D*	40
15	50	1.4B**	D*	30
18[a]	60	1.4B**	D*	25

- Length rounded to nearest one-half meter.
- Case weight varies by length & delay; see case label for exact weight.

* Always shipped with 2 cases strapped together. Case dimension width doubles.
** 1.4B is available in US only.

Case Dimensions

Detpak Case (DC)	48 x 45 x 26 cm	18¾ x 17¾ x 10¾ in
Detpak (D)	44 x 22 x 25 cm	17½ x 8¾ x 10 in

APPLICATION RECOMMENDATIONS - continued

- NEVER loop shock tube near the bunch block or detonating cord
- ALWAYS place the bunch block so the lid is face down and cover the bunch block with drill cuttings or other inert material to help prevent shrapnel cut-off after attaching the bunch block to detonating cord or shock tube
- ALWAYS ensure that outgoing shock tubes or detonating cords lead straight away from the NONEL TD unit bunch block for at least 30 cm (12 in)
- NEVER bend the tubes around the end of the bunch block, back over the top of the block or allow the outgoing shock tube trunklines or downlines to loop back near the bunch block
- NEVER place both detonating cord and shock tube in the same NONEL TD bunch block, misfires may result
- Place all shock tube downlines and outgoing trunkline leads in the bunch block with the detonator pointing in the desired direction of initiation.
- When using NONEL TD units with a detonating cord downline, ALWAYS attach the bunch block to the tail of the detonating cord downline extending out from the hole to be initiated. Place the detonating cord in the bunch block with the detonator pointing in the desired direction of initiation

TRANSPORTATION, STORAGE AND HANDLING

- NONEL TD must be transported, stored, handled and used in conformity with all federal, state, provincial and local laws and regulations
- For maximum shelf life (3 years), NONEL TD 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

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

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