PETN–TNT · CAST BOOSTER

Neo Primex

TECHNICAL DATASHEET

Neo Primex is a high-density cast booster made from a PETN–TNT explosive composition, moulded into a durable cylindrical shell. It is engineered to deliver high detonation pressure and a strong shock front needed to initiate bulk explosives, ANFO, watergels, emulsions, and other blasting agents that cannot be directly initiated by a detonator.

The booster contains two longitudinal tunnels designed to accommodate a detonator or detonating cord. One tunnel is straight, while the other may incorporate a stepped or tapered detonator retention feature to ensure secure placement. Neo Primex boosters have a high density and a high velocity of detonation (VOD) to maximize performance.



7000 m/s	1.65 g/cm³	Excellent	Red
NOMINAL VELOCITY OF DETONATION	NOMINAL DENSITY	WATER & OIL RESISTANCE	SHELL COLOUR

PRODUCT DIMENSIONS

Parameter	100 g	150 g	250 g	400 g
Nominal Mass	100 g ± 5 g	150 g ± 5 g	250 g ± 10 g	400 g ± 20 g
Nominal Diameter (mm)	33 ± 0.2	40 ± 0.2	49 ± 0.2	54 ± 0.5
Recommended Hole Diameter	Up to 115 mm	Up to 135 mm	Up to 160 mm	Above 102 mm
Nominal Length (mm)	93.5 ± 1.0	98 ± 1.0	88.5 ± 1.0	114 ± 2.0

KEY FEATURES

- High-density PETN–TNT composition for strong initiation energy.
- Two longitudinal tunnels for detonator or detonating cord placement.
- Detonator retention feature for secure and safe positioning.
- Recessed base well protects cord, tube, or wires from damage.
- Compatible with No. 8 detonators and adequate PETN-loaded detonating cord.
- Excellent shelf life, highly resistant to water and oil.

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RECOMMENDATIONS FOR USE

1 Initiation with Detonating Cord

- Use Neo Primex boosters only with a detonating cord that meets the minimum PETN coreload requirement specified for the product (typically 10 g/m).
- Attach the cord securely by threading it through one tunnel, looping it around the curved path, and bringing it back through the second tunnel. Form a firm loop and ensure the cord is snug before lowering the assembly into the hole.
- Cut the downline from the reel and secure it properly at the collar so that tension is maintained during charging.
- When adding additional boosters on the same downline, loosen the cord tail, thread the cord through the straight tunnel of the next booster, re-secure at the collar, and lower the unit to the correct depth.

2 Initiation with Delay Detonators

- Insert the delay detonator through the booster tunnel designed for in-hole initiation.
- For angled or rough holes, tape the top/bottom of the booster after assembly to prevent the detonator from slipping out.
- Lower the complete primer carefully, ensuring the lead wires or shock tube remain undamaged — avoid stepping on them or dragging them over sharp edges.

STORAGE & HANDLING

- Follow FIFO (First-In-First-Out) inventory rotation to use the oldest stock first.
- Cast boosters must be transported, stored and handled with care at all times.
- Avoid impact or collision with solid surfaces or other boosters, as this can cause damage leading to misfire or premature initiation.
- Use only detonators that can be fully fitted inside the booster. A partially exposed detonator may get damaged during charging and can cause untimely detonation.
- Suitable for use up to 60–65°C (depending on product specification). Seek technical advice for higher temperatures.
- Store in a cool, dry, licensed explosive magazine (Class 2).
- Shelf life is typically up to 5 years under proper storage conditions.

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PACKAGING

Nominal Mass (g)	Box Dimension (mm)	Units / Box
150	370 × 235 × 283	160
250	370 × 235 × 283	96
400	370 × 235 × 283	60

Other sizes can be made available on request.

TRANSPORT

Transport Classification	Class	UN Number
Standard Packaging	1.1D	UN 0042

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