PETN · DETONATING CORD

Neo Cord

TECHNICAL DATASHEET

Neo Cord is a flexible, waterproof detonating cord consisting of a continuous PETN explosive core enclosed within layers of high-strength textile fibres and a durable plastic jacket. The construction provides excellent tensile strength, abrasion resistance and stability under demanding field conditions.

Neo Cord serves as a reliable trunkline or downline for the rapid and simultaneous initiation of multiple charges, as well as for transferring initiation energy to detonator-sensitive explosives. It can be initiated by standard plain, electric or non-electric detonators and is available in a range of PETN charge weights to suit various blasting applications.



7000 ± 500 m/s
VELOCITY OF DETONATION

8 – 40 g/m
PETN CORE LOAD RANGE

Up to 3 years
SHELF LIFE

-10 to 60 °C
STABLE TEMPERATURE RANGE

KEY FEATURES

- Continuous PETN core for fast, dependable energy transmission.
- Strong, flexible, and waterproof textile + plastic construction.
- Available in multiple charge weights for different applications.
- Easily initiated by No. 6 / No. 8 plain, electric, non-electric or electronic detonators.
- Suitable as trunkline or downline for initiating explosives and boosters.

TRANSPORT

Transport Classification	Class	UN Number
Standard Packaging	1.1D	UN 0065

STORAGE & HANDLING

- Store Neo Cord in a cool, dry, well-ventilated explosive magazine approved for detonating cord (Class 6).
- Maintain proper inventory rotation; follow FIFO to use older stock first. Under good storage conditions, shelf life is typically up to 3 years.
- Keep the cord protected from moisture, especially in wet environments — water absorption can reduce PETN sensitivity, leading to initiation failure from the wet portion.
- Handle and transport with care at all times; although generally resistant to accidental ignition from normal shock or friction, it can be initiated by intense impact, severe abrasion, or direct lightning.
- Avoid exposure to high temperatures; stable between -10°C to 60°C. If temperatures rise between 60–70°C, limit exposure to no more than 24 hours.

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TECHNICAL DETAILS

Product	PETN Core Load (g/m)	Length per Spool (m)	Diameter (mm)	Spools per Box	Avg. Weight per Box (kg)	VOD (m/s)	Breaking Load (kg)
NEOCORD 8	08 ± 0.5	375	4.7 ± 0.2	04	28	7000 ± 500	55 – 65
NEOCORD 10	10 ± 0.5	250 (export) / 375	5.0 ± 0.2	04	28	7000 ± 500	55 – 65
NEOCORD 12	12 ± 0.5	250 (export) / 375	5.2 ± 0.2	04	28	7000 ± 500	60 – 65
NEOCORD 20	20 ± 0.5	125	6.2 ± 0.2	04	28	7000 ± 500	65 – 70
NEOCORD 40	40 ± 0.5	100	8.5 ± 0.2	04	28	7000 ± 500	90 – 95

RECOMMENDATIONS FOR USE

- Cut the cord only with a sharp single-blade cutter or knife on a non-sparking (non-ferrous) surface; avoid scissors or any tool with a shearing action.
- Downlines must be one continuous length inside the blasthole — never use knots, joins, or splices underground.
- Initiate the cord only with a suitable detonator (e.g., #8 / #6 strength electric or another cord with ≥5 g/m PETN core).
- Ensure all trunkline and branchline connections are made at right angles to minimize approach-type cut-offs.
- Pull all knots tight and trim excess tail so they don't cross or interfere with other cords or downlines.
- Lay surface trunklines straight, avoiding loops, sharp bends, kinks, or unnecessary slack. A closed-loop configuration may be used as added initiation security.
- Prevent kinks and loops in downlines by keeping them firm but not overstretched.
- When attaching cord to explosive cartridges or primers, tie it securely around the cartridge or pass it through the designated hole (depending on the primer type).
- Never pull cord off the reel over the end flange, as this may create tight bends and kinks, increasing misfire risk.

PRODUCT DISCLAIMER

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Explosive Products must only be handled, transported, and used by personnel who are properly trained, certified, and authorized to work with such materials. Users are responsible for assessing site-specific conditions, verifying regulatory requirements, and ensuring that all procedures align with applicable safety standards and legal obligations.

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