NON-CAP-SENSITIVE · PACKAGED EMULSION

Neo Column

TECHNICAL DATASHEET

Neo Column is a high-strength, non-cap-sensitive packaged emulsion explosive with a firm, putty-like consistency. It is sensitized using chemical gassing, microspheres, or a combination of both, producing a stable emulsion matrix with excellent water resistance for reliable use in wet or flooded boreholes.



1.2 ± 0.05 g/cc	78 %	110 %	3900 ± 300 m/s
DENSITY	RELATIVE WEIGHT STRENGTH	RELATIVE BULK STRENGTH	VELOCITY OF DETONATION

RWS and RBS are calculated relative to ANFO at a density of 0.8 g/cc.

PRODUCT OVERVIEW

Being non-cap-sensitive, it requires initiation through a suitable primer or booster and is primarily intended for use as a column explosive in surface mining, underground operations, quarrying, tunnelling, and civil construction blasting. It is particularly suited for medium to large diameter boreholes where high-energy column charges are required.

The cartridges are packed in durable, tear-resistant film that maintains their shape during handling and loading, ensuring ease of charging and reliable performance under field conditions.

KEY BENEFITS

- High energy output with strong pre-compression resistance, ensuring consistent blasting performance in hard and confined ground conditions.
- Excellent water resistance, allowing reliable use in wet and water-logged boreholes without loss of energy.
- High velocity of detonation and strong weight strength for superior fragmentation and overall blast efficiency.
- Suitable as a column explosive for medium to large diameter boreholes in mining, quarrying, tunnelling and civil construction.
- High viscosity and rigidity help maintain cartridge shape and ensure smooth loading.
- Minimizes leaching, reducing environmental impact in sensitive areas.

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RECOMMENDATIONS FOR USE

- Suitable for blasting in dry, wet, and water-filled boreholes.
- Must be initiated using a suitable primer or booster with an approved electric or non-electric initiation system.
- Recommended for use as a column explosive in medium to large diameter boreholes.
- Ensure the primer is positioned in accordance with the blast design to achieve reliable initiation of the explosive column.
- Use wooden or non-metallic loading/tamping tools where required.
- Ensure adequate ventilation before re-entry following underground blasting operations.
- Avoid excessive heat, impact, friction, or contamination during handling and charging.
- Suitable for ground temperatures ranging from –5°C to 50°C. For applications outside this range, consult the manufacturer or technical representative.

CARTRIDGE SPECIFICATIONS

Diameter (mm)	Mass (g)	Units / Box
83	2780	9
125	6250	4
200	12500	2

SAFETY & STORAGE

- Store in a cool, dry, well-ventilated, licensed magazine approved for Class-2 explosives.
- Avoid exposure to high temperatures, direct sunlight, or freezing conditions, as extreme temperatures may reduce shelf life or alter performance.
- Maintain proper inventory rotation: always use the oldest stock first.
- Shelf life is generally 12 months under recommended storage conditions; deterioration may occur sooner if exposed to heat, moisture, or rough handling.
- Protect cartridges from shock, friction, or mechanical impact to prevent accidental initiation.
- Dispose of deteriorated or damaged explosives as per local regulations and under supervision of authorized personnel.

TRANSPORT

Transport Classification	Class	UN Number
Standard Packaging	1.1D	UN 0241

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