

1. Description

A lightweight, porous and loose rock-type expanded ammonium nitrate explosive based on detonation hotspot theory, surfactant theory and ammonium nitrate self-sensitization. Composite surfactants and controlled crystallization produce self-sensitized expanded ammonium nitrate, which is combined with high-energy liquid fuel and porous fibrous solid fuel through a specialized process.

Product View



2. Applications

Suitable for underground development and surface blasting with no risk of gas, methane or mine dust explosions. Widely used in surface mines, quarries, underground mines, tunnels, railways and highway construction.

3. Key Benefits

Good explosive performance, effective charge coupling and high work capacity suit medium to soft rock, especially soft rock containing soil or other materials.
Good safety and stability.
Good flowability supports loading into different blasthole diameters.

4. Technical Properties

Property	Technical Properties
Bulk Density (g/cm ³)	0.55±0.05
Sympathetic Detonation Distance (cm)	≥4
Brisance (mm)	≥12
VOD (m/s)	≥3200
Work Capacity (mL)	220-223
Hole Type	Dry
Delivery System	Manual charging
Relative Weight Strength, RWS (%)	77-78
Relative Bulk Strength, RBS (%)	53-54
CO ₂ Emissions (kg/t)	165
Shelf Life	180 days

5. Instructions for Use

- 01** For dry blastholes only.
- 02** Can be initiated directly with a No. 8 detonator.
- 03** Follow the product instructions strictly.

6. Packaging

Packaging Type	Product Specifications
Woven bags	25 kg/bag

Note Other sizes can be produced on request.

7. Storage and Shipping

Product Name	Proper Shipping Name	UN No.	Classification Code
Rock Expanded AN Explosives	Explosives, blasting, type B	0082	1.1D

- 01** Store in a magazine approved for Class 1.1D explosives or higher.
- 02** Store products together only as permitted by the applicable standards.
- 03** Use dedicated transport vehicles that meet the relevant standards for civil explosives.
- 04** Handle with care during shipping, use and storage, and protect against fire and moisture.

8. Precautions

- 01** Keep stones, mud and other debris out of the charge column during loading to avoid disrupting detonation propagation.
- 02** Do not apply excessive pressure to explosive containing an inserted detonator. Avoid damaging the detonator leg wires during stemming. Follow the blasting operating procedures.
- 03** In case of accidental fire, use water or a water-based extinguisher. Do not cover the fire with soil, sand or stones. If the situation becomes critical, evacuate immediately and clear personnel from the surrounding area.

9. Safety

- 01** After blasting, personnel may re-enter the blast area only when adequate ventilation has been ensured.
- 02** Impact, friction, mechanical shock and heat may initiate explosives. Exercise extreme care during storage, shipping and use.

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Disclaimer

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