

1. Description

An industrial explosive consisting of fine droplets of an aqueous oxidizer solution dispersed in a continuous oil-like medium containing gas bubbles, hollow glass microspheres or other porous materials. It forms a special water-in-oil emulsion system.

Product View



2. Applications

Widely used in mining, shaft and tunnel development, underwater blasting and other engineering blasting operations where there is no risk of gas or mine dust explosions.

3. Key Benefits

Reliable initiation, stable detonation propagation and high explosive power.
Safe and reliable during shipping, storage and use.
The water-in-oil microstructure provides water resistance.

4. Technical Properties

Property	Technical Properties
Cartridge Density (g/cm ³)	1.15±0.05
Sympathetic Detonation Distance (cm)	≥4
Brisance (mm)	≥12
VOD (m/s)	≥3500
Work Capacity (mL)	220-223
Hole Type	Dry / Wet / Dewatered
Delivery System	Manual charging
Relative Weight Strength, RWS (%)	77-78
Relative Bulk Strength, RBS (%)	111-112
CO ₂ Emissions (kg/t)	150
Shelf Life	180 days

5. Recommendations for Use

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| 01 | Handle with care and avoid prolonged exposure to sunlight. |
| 02 | Before loading, reshape any cartridges deformed by compression during shipping to their original shape to prevent jamming. |
| 03 | Remove rock dust from the blastholes before inserting cartridges to prevent poor detonation. |
| 04 | In wet working areas, the cartridges can be lowered directly to the bottom of the blasthole without dewatering or waterproof bags. |

6. Packaging

Packaging Type	Product Specifications
Cartons or paper bags	Diameters: 32, 60, 70, 90, 110 and 120 mm

Note Other sizes can be produced on request.

7. Storage and Shipping

Product Name	Proper Shipping Name	UN No.	Classification Code
Rock Emulsion Explosives	Explosives, blasting, type E	0241	1.1D

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| 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, storage and use; protect against fire and moisture. Do not exceed the stacking height specified by the relevant standards. Avoid compression and follow the applicable instructions. |

8. Precautions

01	When using two or more cartridges, keep stones and mud out of the gaps between cartridges to avoid disrupting detonation propagation.	03	Do not apply excessive pressure to explosive containing an inserted detonator. Avoid damaging the detonator leg wires during stemming. Follow the blasting operating procedures.
02	When charging loose explosive or altering its shape, do not repeatedly knead the material, as this may affect its quality.	04	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

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| 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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