



## ANFONIT®

### Booster Sensitive Emulsion Explosives

#### PROPERTIES

ANFONIT	
Density (g/cm <sup>3</sup> )	0.79 - 0.84
Energy <sup>a</sup> (MJ/kg)	3.90
Energy <sup>a</sup> (Cal/g)	930
Gas Volume <sup>a</sup> (lt/kg)	975
V.O.D. <sup>b</sup> (m/s)	3500
Detonation Temp.	2565 °C
Water Resistance	Low
Shelf Life	6 Months
Extreme Temperature	-10 °C to +40 °C

**a** All Dyno Nobel energy and gas volume values are calculated using proprietary computer software developed exclusively by Dyno Nobel. Results obtained using alternative software, assumptions, or calculation methodologies may differ.

**b** 125 mm plastic cartridge min diameter.

All values may vary by ± 3%

#### PRODUCT DESCRIPTION

ANFONIT® is a booster-sensitive explosive manufactured by blending prill porous ammonium nitrate with fuel oil (ANFO). The product is not water-resistant and is intended for use in dry boreholes. Due to its granular structure, ANFONIT® provides efficient and uniform charging in dry holes. In boreholes and formations with low to moderate water presence, ANFONIT® may be used above an emulsion-type explosive, provided that the wet section of the borehole is first charged with a water-resistant explosive.



#### APPLICATION RECOMMENDATIONS

ANFONIT® is widely used as a main explosive for bottom and column charges in a broad range of blasting applications.

Typical applications include coal mining and metal mining operations, limestone and raw material quarries for the cement industry, stone quarries, highway construction projects, dam construction, trench blasting, and other specialized blasting operations.

The product is commonly applied in medium to large diameter boreholes. In boreholes with low to moderate water presence, ANFONIT® may be used only after the wet section has been charged with a water-resistant emulsion explosive.

ANFONIT® may be charged pneumatically or by bulk charging trucks, enabling efficient loading, optimized energy distribution, and high blasting efficiency.

In order to obtain performance from blasting operations with ANFONIT®, the explosive shall be initiated with sufficient amount of cap-sensitive Powermite®.

#### HAZARDOUS SHIPPING DESCRIPTION

Explosive, Blasting Type E, 1.5D UN0332



**Product Disclaimer:** Please see reverse side.



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#### DIMENSIONS

##### BAG SPECIFICATIONS

Bag Weight - kg	25
Layering of Bags	Double
PP/PE	Yes
Water Resistance	Yes
Bag Dimensions <sup>a</sup> - W x L x H - cm	55 x 75 x 18
Pallet Dimensions - W x L x H - cm	120 x 110 x 145
Bag Pieces/Pallet	50
Net Weight of Palletized Product - kg	1250

<sup>a</sup> full bag dimensions

All values may vary by ± 3%

#### HAZARDOUS SHIPPING DESCRIPTION

Explosive, Blasting Type E, 1.5D UN0332



#### TRANSPORTATION, HANDLING AND STORAGE

##### Handling

- Transport the product strictly in accordance with applicable local and national regulations and official authority guidelines.
- Smoking, open flames, sparks, and welding operations are strictly prohibited during handling and transport.
- Do not transport together with flammable materials.

##### Storage

- Store in a cool, dry, and well-ventilated area.
- Storage shall comply with all applicable local and national regulations and authority directives.
- Recommended storage temperature range: -10°C to +40°C.
- Smoking, open flames, sparks, and welding are strictly prohibited in storage areas.
- Do not store together with flammable substances or ignition sources.
- Protect the product from strong mechanical shock.

#### SAFETY INSTRUCTIONS

- Explosives may cause serious injury to humans or harm to the environment if not stored, handled, or used properly.
- All explosives must be stored, handled, and used in full compliance with applicable laws, regulations, and

##### In case of exposure to emulsion explosives:

- **Ingestion:** Do not induce vomiting. Drink 1–2 glasses of water immediately.
- **Eye contact:** Rinse eyes with clean water for at least 15 minutes. Seek medical attention if irritation persists.
- **Skin or clothing contact:** Carefully remove contaminated clothing and ensure it is thoroughly cleaned before reuse.



**ADDITIONAL INFORMATION** – Visit [nitromak.com](http://nitromak.com) or [dynonobel.com](http://dynonobel.com) for Brochures and Case Studies related to this product.

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