



# NOBELEX® N100

## Booster Sensitive Emulsion Explosives

### PROPERTIES

NOBELEX®	N100
<b>Density</b> (g/cm <sup>3</sup> )	1.22
<b>Energy<sup>a</sup></b> (MJ/kg)	3.45
<b>Energy<sup>a</sup></b> (Cal/g)	825
<b>Relative Weight Strength<sup>b</sup></b>	0.91
<b>Relative Bulk Strength<sup>a,b</sup></b>	1.37
<b>Gas Volume<sup>a</sup></b> (lt/kg)	984
<b>V.O.D.<sup>c</sup></b> (m/s)	3500 - 4000
<b>Detonation Temp.</b>	2309 °C
<b>Water Resistance</b>	Low
<b>Shelf Life</b>	6 Months
<b>Extreme Temperature</b>	-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** ANFO: 1.00 @ 0.81 g/cm<sup>3</sup>

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

All values may vary by ± 3%

### PRODUCT DESCRIPTION

NOBELEX® N100 is high-energy, gas-generating explosives designed for efficient rock breakage in surface blasting applications. The high volume of gaseous detonation products enhances rock fragmentation, heave, and displacement by penetrating existing fractures within the rock mass.

NOBELEX® N100 is primarily used as a main charge in up-hole blastholes for inter-bench blasting. It is pneumatically loaded, exhibits moderate adhesion to borehole walls, and is optimized for medium-hard rock formations to provide controlled heave and effective energy distribution.



### APPLICATION RECOMMENDATIONS

NOBELEX® N100 is a booster sensitive emulsion explosive used as a main charge in underground metal mining operations employing inter-level blasting and bottom-up charging methods.

The product is specifically designed for use in boreholes with diameters ranging from 76 to 114 mm, where consistent energy distribution and reliable initiation are required.

To ensure efficient blasting performance and reliable detonation, NOBELEX® N100 shall be initiated with a sufficient quantity of cap-sensitive booster. Proper initiation is essential to achieve full detonation velocity, effective energy transfer, and consistent fragmentation results in underground blasting conditions.

### HAZARDOUS SHIPPING DESCRIPTION

Explosive, Blasting Type E, 1.5D UN0332



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



## NOBELEX® 1100

### Booster Sensitive Emulsion Explosives

#### DIMENSIONS

##### BAG SPECIFICATIONS

Bag Weight - kg	20
Layering of Bags	Double
Water Resistance	Yes
PP/PE	Yes
Bag Dimensions <sup>a</sup> - W x L x H - cm	42 x 60 x 13
Pallet Dimensions - W x L x H - cm	80 x 120 x 75
Bag Pieces/Pallet	30
Net Weight of Palletized Product - kg	600

<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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