BULK EXPLOSIVES

NOBELEX® TİTAN UG

Booster Sensitive Emulsion(Bulk) Explosive

PROPERTIES

NOBELEX®	Titan UG
Density (g/cm^3)	1.04 - 1.26
Energy[a] (MJ/kg)	2.70
Energy[a] (Cal/g)	644
Relative Weight Strength[b]	0.78
Relative Bulk Strength[a,b]	1.02
Gaz Volume[a] (lt/kg)	1044
V.O.D.[c] (m/s)	5000
Detonation Temperature (^{0}C)	2069
Water Resistance	Excellent
Shelf Life	6 Months
Extreme Temperature	-10 ^{0}C to +40 ^{0}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/cc

c 45 mm plastic cartridge min diameter.

All values may variate by ± 3%

HAZARDOUS SHIPPING DESCRIPTION

Explosive, Blasting Type E, 1.1D UN0241

PRODUCT DESCRIPTION

NOBELEX® Titan UG is a booster-sensitive emulsion explosive designed for efficient rock breakage in underground blasting applications. The high volume of gaseous detonation products ensure effective energy and transfer to the rock mass, resulting in improved fragmentation and increased rock yield per blast.

The soft, pumpable consistency of NOBELEX® Titan UG enables complete filling of the borehole, particularly in zones where rock breakage is most difficult. This ensures uniform energy distribution and enhances overall blasting performance.

The product is not affected by normal temperature variations and is suitable for bulk charging operations

APPLICATION RECOMMENDATIONS

- NOBELEX® Titan UG shall be used as the main charge explosive for underground blasting operations in metal mining and tunnel development, in boreholes with diameters ranging from 42 to 89 mm.
- The bulk emulsion shall be supplied in IBC containers and transferred to the DYNOMINER® Advance using an approved mobile pumping system.
- Bulk emulsion charging systems shall be utilized to ensure full borehole wall contact and to eliminate voids that could compromise effective detonation energy transmission.
- To achieve optimum detonation performance and effective rock breakage, NOBELEX® Titan UG shall be initiated with a sufficient quantity of cap-sensitive POWERMITE® Max booster, ensuring reliable initiation and full energy release.

ISO 9001 ISO 14001 ISO 45001

CE 1019

Product Disclaimer: Please see reverse side.

DYNO NOBEL

BULK EXPLOSIVES

NOBELEX® TİTAN UG

Booster Sensitive Emulsion(Bulk) Explosive

DIMENSIONS

PACKAGING	Titan UG
Product Weight/IBC kg	900 - 1000
IBC Weight kg	55
Water Resistance of IBC's	Yes
IBC Dimensions W x L X H - mm	1200 x 1000 x 1160

* Full bag dimensions

** All values may variate by ± 3%

HAZARDOUS SHIPPING DESCRIPTION

Explosive, Blasting Type E, 1.1D UN0241

ISO 9001 ISO 14001 ISO 45001

CE 1019

TRANSPORTATION, STORAGE AND HANDLING

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 safety standards.

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** or **dynonobel.com** for Brochures and Case Studies related to this product.

DYNO NOBEL