

# Nobelex<sup>®</sup> 6000/6500/7000

## Booster Sensitive Emulsion Explosives

Technical  
Information



### Product Description

Nobelex<sup>®</sup>6000 / 6500 / 7000 is a booster sensitive explosive derived from mixing Anfo with emulsion. Due to high volume of gaseous products of detonation, it creates an efficient thrust on rock formation. It is water resistant and has higher density compared to water, as a result it sinks and replaces the water at the bottom of hole. Soft form of the explosive enables complete filling the bottom of hole, where the rock breakage is most difficult, and therefore, resulting in better fragmentation and higher rock yield per blast. In holes with little water, Nobelex<sup>®</sup>6000 / 6500 / 7000 enables the utilization of Anfo at upper parts of holes. It is not affected by temperature changes.

### Application Recommendations

Widely used as the main explosive for bottom and column charge for the following applications:

- In all types of blasting operations, wet and dry holes, hard formation in coal mining, in raw material and limestone quarries of cement industry, in stone quarries, highway blasting operations, at dam projects and trench blasting
- As the bottom and column charge explosive in special blasting applications.

## Properties

|                                    | 6000                                 | 6500       | 7000       |
|------------------------------------|--------------------------------------|------------|------------|
| <b>Density (g/cm<sup>3</sup>)</b>  | 1.20–1.26                            | 1.20–1.26  | 1.20–1.26  |
| <b>Energy (MJ/kg)</b>              | 3.07                                 | 3.05       | 3.00       |
| <b>Gas Volume (lt/kg)</b>          | 1015                                 | 1016       | 1017       |
| <b>Detonation Temperature (°C)</b> | 2049                                 | 2009       | 1981       |
| <b>V.O.D. (m/s)</b>                | 4500-5000*                           | 4600-5100* | 4700-5200* |
| <b>Water Resistance</b>            | Excellent                            | Excellent  | Excellent  |
| <b>Shelf Life</b>                  | 6 Months                             | 6 Months   | 6 Months   |
| <b>Extreme Temperatures</b>        | All types range from -10°C to +40 °C |            |            |

\* 60mm plastic cartridge min diameter

\* 125mm plastic cartridge

\*\* All values may vary by ±%3

### Hazardous Shipping Description

**U.N. No: 0332 Class 1.5D**  
**Explosive, Blasting Type E**



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### Firing/Initiation

In order to obtain high performance from Nobelex® 6000 / 6500 / 7000, the explosive shall be started with sufficient amount of cap sensitive Powermite®.

### Handling

The product must be transported in accordance with local and national regulations or directives / guidelines from authorities. No smoking, fire, sparks or welding. Must not be transported with flammable substances.

### Storage

Store in cool, dry, well-ventilated location. Store in compliance with local and national regulations or directives/guidelines from authorities. Recommended storage temperature: from - 10 °C to + 40 °C. No smoking, fire, sparks or welding. Must not be stored with flammable substances and ignition sources. Keep away from strong shock.

### Safety Instructions

If not stored, handled or used properly, explosives may cause harm to humans or the environment. All types of explosives shall be stored, handled and used in compliance with laws and regulations

If emulsion explosives;

- are swallowed; do not try to vomit, drink 1 or 2 glasses of water.
- are smeared on eye; wash eyes with water at least for 15 minutes. If disturbance continues seek medical help.
- are spilled on clothes; carefully remove the clothing; make sure the clothes are cleaned before wearing again.

|                         | PACKAGING   |             |             |             |             |
|-------------------------|-------------|-------------|-------------|-------------|-------------|
| Cartridge Diameter (mm) | 60          | 75          | 90          | 125         | 140         |
| Cartridge Length (mm)   | 550–560     | 440–445     | 500–510     | 340–345     | 500–510     |
| Cartridge Weight (g)    | 2000        | 2500        | 4000        | 5000        | 10000       |
| No. of Cartridges / Box | 10          | 8           | 5           | 4           | 2           |
| Box Weight (kg)         | 20          | 20          | 20          | 20          | 20          |
| Case Dimensions (mm)    | 550x190x270 | 550x190x270 | 550x190x270 | 540x270x240 | 540x180x250 |

± %3 Tolerance

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