

# Innovex Lateral

SADC, South Africa

**INNOVEX**

Updated: June 2, 2023

<b>Product</b> * Lateral	> Bulk Emulsion	> Construction, Mining
	> Explosive	> Underground
	> Ammonium Nitrate Based, Straight	

## Product Description

Innovex Lateral is a bulk pumped booster-sensitive gassed emulsion. Innovex Lateral is a dual salt emulsion formulated with refined oils.



## Application

Innovex Lateral is designed for general blasting applications in underground mines, quarries, and construction with wet or dry holes. Innovex Lateral is not for use in the presence of sulphide reactive ground or elevated ground temperatures.

## Primary Benefits

Innovex Lateral may be loaded at varying densities to achieve energies that optimize fragmentation distribution and minimise perimeter overbreak. The Innovex Lateral dual salt formulation is a product demonstrated to generate very low levels of post blast fume.

## Technical Properties

Property	Unit	Base Emulsion	Gas Sensitized Emulsion	Gas Sensitized Emulsion	Gas Sensitized Emulsion	Gas Sensitized Emulsion
Density	g/cm <sup>3</sup>	1.47 to 1.51	0.90	1.00	1.15	1.20
Velocity of Detonation	m/sec		4116	4497	5071	5260
Relative Weight Strength	RWS		67	73	84	90
Relative Bulk Strength	RBS		75	91	120	135

Velocity of Detonation, Relative Weight and Bulk Strengths calculated using the IPX code at a density of 1.20 g/cm<sup>3</sup> and a cut-off pressure of 100 MPa relative to ANFO at a density of 0.80 g/cm<sup>3</sup>.

Actual in field velocity of detonation will vary and is dependent on hole diameter and confinement.

## Guidelines for Use

### Priming and Initiation

Hole Diameter	Minimum Cast Booster Mass
Innovex Lateral holes 32 mm to 48 mm	12 g or larger
Innovex Uphole holes greater than 89 mm	90 g or larger

Innovex Lateral is compatible with most non-electric and electronic detonator systems.

Use of detonating cord with Innovex Lateral may influence blast outcomes.

### Blasthole Charge Length, Hole Diameter and Density Relationships

Maximum hole depth depends on product selection, hole diameter, product densities, critical void space and the presence of water. Please contact a BME Technical Representative for additional guidance and site specific calculations using BME's DensDepth program.

### Ground Temperature

This product may be used in ground temperatures from 0° to a maximum of 65°C. If the application requires use outside of this temperature range please contact a BME Technical Representative for additional guidance.

### Reactive Ground

This product is not formulated for use in reactive ground. Reactive ground is typically characterised by the presence of sulphide mineralization. If the application requires use in known reactive ground, or in untested sulphide bearing ground, please contact a BME Technical Representative for additional guidance.

### Sleep Time

The recommended maximum sleep time is 21 days. Sleep time is dependent on factors such as hole diameter, density, ground water conditions and initiation system. If the application requires longer in-hole sleep time, please consult with a BME Technical Representative for guidance.

## UN Classification for Transportation and Storage

Product Classification of System Components

Authorised Name: INNOVEX LATERAL - Base Emulsion

Correct Shipping Name: AMMONIUM NITRATE EMULSION

Classification: 5.1

UN Number: 3375

Authorised Name: INNOVEX Sensitizing Agent

Correct Shipping Name: NITRITES, ORGANIC, AQUEOUS SOLUTION, N.O.S.

Classification: 5.1

UN Number: 3219

Product Classification of Finished Sensitized Explosive Product

Authorised Name: INNOVEX LATERAL

Correct Shipping Name: EXPLOSIVE, BLASTING

Classification: 1.1D

UN Number: 0241

## Safe Use

- Never fight explosive fires.
- Refer to Safety Data Sheet (SDS) for first aid information.
- All explosives must be transported and stored in accordance to relevant regulations.
- All explosives are classified as dangerous goods and may cause damage to property, personal harm, or death, if not used correctly.
- Always keep products away from sources of heat, sparks, flame or hot surfaces and avoid mixing with combustibles or incompatible materials.

**In case of emergencies, [click here](#) or contact your BME representative for assistance.**

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