



## Product Fact Sheet

# Geogel™

## Detonator-Sensitive Gelatin Dynamite

**Geogel\*** is a gelatin dynamite, made specifically for the deep hole conditions encountered in the seismic industry. This product is typically packed in rigid, FAST-LOK\* shells which can be coupled to construct larger charges. Its formulation makes it reliable under the most severe conditions of temperature and hydrostatic pressure. **Geogel** can be detonated in tight patterns with all holes shot simultaneously, or in closely spaced holes shot separately for test purposes.

### **Features**

#### ***Geogel gelatin dynamite is:***

- A premium, high velocity formulation;
- Packaged in FAST-LOK shells or easily punchable spiral wound paper;
- Excellent water resistance, and chemically sensitized;

### **Benefits**

#### ***Geogel gelatin dynamite:***

- Gives consistent, clear signals;
- Simplifies priming, and speeds loading;
- Offers superior performance under hydrostatic pressure and dynamic forces, over a wide range of temperatures; ensures reliable results.



# Geogel

## Detonator-Sensitive Gelatin Dynamite

### Properties

Geogel		
Composition Density (g/cc)	1.5	
Velocity of Detonation†	6,000 m/s (19,680 ft/s)	
Water Resistance	Excellent	
Relative Effective Energy (REE)§	Relative Weight Strength (RWS)	122
	Relative Bulk Strength (RBS)	215
Shelf Life	1 Year	
Fume Class	3	

† unconfined at 5°C (41°F)

§ The "Relative Effective Energy" (REE) of an explosive is the energy calculated to be available to do effective blasting work. All energy values are calculated using the **IDeX**\* computer code owned by Orica for the exclusive use of its companies. Energy values are based on standard ANFO with a density of 0.84 g/cc and a cut-off pressure of 100 MPa. Other computer codes may give different values.

### Priming

**Geogel** is a detonator sensitive explosive and generally is primed with a detonator. When charges are located close to power lines or when extraneous electricity is a hazard, prime with **Cordtex**\* **XTL** initiated on surface with a short length **Electric Seismic** detonator. The detonator should be attached to the cord facing the desired direction of propagation. If the surface of the ground is under water, the detonator should be taped to the cord about 40 cm from the end.

### Packaging

**Geogel** is packed in rigid, FAST-LOK\* shells which can easily be coupled to construct larger charges. **Geogel** is also available in spiral wound paper shells.

### Standard Sizes & Cartridge Counts

Geogel	Spiral Wound	FAST-LOK
27 mm x 1/8 kg	160	-
50 mm x 1/4 kg	80	-
50 mm x 0.5 kg	40	-
50 mm x 1.0 kg	20	-
50 mm x 2.0 kg	10	-
60 mm x 2.0 kg	-	10

### Loading

**Geogel** has excellent water resistance. To avoid sympathetic detonation when using **Geogel**, minimum separation distances are recommended.

Charge Size (kg)	Separation (meters)
1	0.8
5	1.4
10	1.8
20	2.3
50	3.3

These distances allow for ground conditions, but angle of drilling could cause significant error in the small distances between charges.

### Shelf Life

One year from time of manufacture under good storage conditions.

### Storage

For best results, store at moderate temperatures and dry conditions in a well ventilated, approved explosives magazine.

### Hazardous Materials Shipping Description

Explosive, Blasting, Type A,  
Class and Division 1.1D,  
UN 0081

EX 8703288

### Orica Canada Inc.

6275 Northam Drive, Suite 1  
Mississauga, ON L4V 1Y8  
Tel: +1 905 405 5700 - Fax: +1 905 405 5652

### Orica USA Inc.

9781 S. Meridian Blvd., Suite 400  
Englewood, CO 80112-5911  
Tel: +1 303 268 5000 - Fax: +1 303 268 5250

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