

### Description

**Geogel™** is 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 or spiral wound paper shells. Its formulation makes it a reliable and durable signal generator.

### Key Benefits

**Geogel™** gelatin dynamite:

- Provides a consistent energy source that enables reliable results under the most severe conditions of temperature and hydrostatic pressure encountered in geophysical exploration
- Can be detonated in tight patterns with all holes shot simultaneously, or in closely spaced holes shot separately for test purposes.
- **Fast-Lok™** packaging is highly water resistant which reduces the environmental impact of extended water exposure.



### Technical Properties

<b>VOD*</b>	20,000 ft / sec (6100 m/s)
<b>Gas generation*</b>	816 l/kg
<b>Energy*</b>	3.71 MJ/kg
<b>Detonating Pressure*</b>	157 Kbar
<b>Density</b>	1.43 g/cc nominal
<b>Hazardous Shipping Description</b>	Explosive, Blasting, Type A 1.1D UN 0081 Packaging Group II

\* Unconfined at 55°C (41 °F). Gas generation, VOD, detonating pressure and energy values are calculated using the IDeX™ computer code owned by Orica for the exclusive use of its companies. Energy values are based on a cut-off pressure of 100 MPa. Other computer codes may give different values.

### Packaging

**Geogel™** is packed in rigid, **Fast-Lok™** shells, which can easily be coupled to construct larger charges or in paper tubes of varying grades.

### Standard Sizes

Cartridge Size	Cartridge Type	Cartridges per case	Case Size Cm / Inches
27 mm x 0.125 kg (1" x 0.25 lb)	Paper	160	43 x 35 x 22 17½ x 13¾ x 7¼
50 mm x 0.25 kg (2" x 0.5 lb)	Spiral Wound	80	39 x 32 x 22 15¼ x 12½ x 8¾
50 mm x 0.5 kg (2" x 1.1 lb)	Spiral Wound	40	40 x 32 x 20 15¼ x 12½ x 7⅞
50 mm x 1.0 kg (2" x 2.2 lb)	Spiral Wound	20	39 x 32 x 22 15¼ x 12½ x 8¾
50 mm x 2.0 kg (2" x 4.4 lb)	Spiral Wound	10	72 x 30 x 12 28¼ x 11⅞ x 4¾
60 mm x 2.0 kg (2.36" x 4.4 lb)	Plastic Fast-Lok™	10	72 x 30 x 12 28¼ x 11⅞ x 4¾



### Recommendations for Use

#### Priming

**Geogel™** is a detonator sensitive explosive and can be reliably initiated with an Electric Seismic™ detonator or an Oseis™ electronic detonator.

#### Loading

**Geogel™** has excellent water resistance. In plastic shell, sleep time should not exceed 3 months. In paper shell, sleep time should not exceed 2 months. Maximum water depth is 30 meters / 100 ft. 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	2.3

These distances allow for ground conditions, but angle of drilling could cause significant error in the small distances between charges. Sleep time should not exceed 3 months in plastic and two months in paper.

#### Shelf Life

One year from time of manufacture under good storage conditions.

#### Hazardous Materials Shipping Description

Authorized name: Geogel™  
 Shipping Name: Explosive, Blasting, Type A  
 Class Code: 1.1D  
 UN No. UN 0081

#### Storage

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

For recommended good practices in transporting, storing, handling, and using this product, refer to the "Always and Never" booklet packed inside each case.

### Safety

**Geogel™** can be initiated by extremes of shock, friction or mechanical impact. As with all explosives **Geogel™** should be handled and stored with care.

**Geogel™** contains nitroglycerine explosive.

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**Warning:** Carbon monoxide and carbon dioxide may migrate through the ground after detonation of explosives. Consult an Orica representative for specific applications.

**For additional information visit our web site at [oricaminingervices.com](http://oricaminingervices.com) under Seismic Exploration**

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